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# Table of Contents

Welcome ........................................................................................................................................... 1
Amazon Route 53 API actions by function .................................................................................. 3
Types of function .......................................................................................................................... 3
Actions by function ....................................................................................................................... 4
Actions ........................................................................................................................................... 9
Amazon Route 53 .......................................................................................................................... 12

- ActivateKeySigningKey .................................................................................................................. 15
- AssociateVPCWithHostedZone ..................................................................................................... 18
- ChangeResourceRecordSets ........................................................................................................ 22
- ChangeTagsForResource ................................................................................................................ 33
- CreateHealthCheck .................................................................................................................... 36
- CreateHostedZone ...................................................................................................................... 43
- CreateKeySigningKey .................................................................................................................. 50
- CreateQueryLoggingConfig ........................................................................................................ 55
- CreateReusableDelegationSet ..................................................................................................... 60
- CreateTrafficPolicy ................................................................................................................... 64
- CreateTrafficPolicyInstance ..................................................................................................... 68
- CreateTrafficPolicyVersion ....................................................................................................... 72
- CreateVPCAssociationAuthorization ......................................................................................... 76
- DeactivateKeySigningKey .......................................................................................................... 80
- DeleteCheckersIpRanges ............................................................................................................ 118
- DeleteDNSSEC ........................................................................................................................... 120
- GetGeoLocation ......................................................................................................................... 123
- GetHealthCheck ........................................................................................................................ 126
- GetHealthCheckCount ............................................................................................................... 130
- GetHealthCheckLastFailureReason ......................................................................................... 132
- GetHealthCheckStatus .............................................................................................................. 135
- GetHostedZone ........................................................................................................................ 158
- GetHostedZoneCount ................................................................................................................. 142
- GetHostedZoneLimit .................................................................................................................. 144
- GetQueryLoggingConfig ............................................................................................................ 147
- GetReusableDelegationSet ........................................................................................................ 150
- GetReusableDelegationSetLimit ............................................................................................... 153
- GetTrafficPolicy ...................................................................................................................... 155
- GetTrafficPolicyInstance .......................................................................................................... 158
- GetTrafficPolicyInstanceCount ............................................................................................... 161
- ListGeoLocations ....................................................................................................................... 163
- ListHealthChecks ...................................................................................................................... 168
- ListHostedZones ....................................................................................................................... 172
- ListHostedZonesByName ........................................................................................................... 176
- ListHostedZonesByVPC ............................................................................................................ 181
### Amazon Route 53 API Reference

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Making API Requests for Domain Registration and for Route 53 Resolver</td>
<td>563</td>
</tr>
<tr>
<td>RPC Requests</td>
<td>564</td>
</tr>
<tr>
<td>RPC Responses</td>
<td>565</td>
</tr>
<tr>
<td>Signing Amazon Route 53 API Requests</td>
<td>565</td>
</tr>
<tr>
<td>Traffic Policy Document Format</td>
<td>566</td>
</tr>
<tr>
<td>Basic Syntax</td>
<td>566</td>
</tr>
<tr>
<td>Syntax for Endpoint Definitions</td>
<td>567</td>
</tr>
<tr>
<td>Syntax for Rule Definitions</td>
<td>568</td>
</tr>
<tr>
<td>Failover Rules</td>
<td>568</td>
</tr>
<tr>
<td>Geolocation Rules</td>
<td>569</td>
</tr>
<tr>
<td>Geoproximity Rules</td>
<td>570</td>
</tr>
<tr>
<td>Latency Rules</td>
<td>572</td>
</tr>
<tr>
<td>Multivalue Answer Rules</td>
<td>573</td>
</tr>
<tr>
<td>Weighted Rules</td>
<td>573</td>
</tr>
<tr>
<td>Examples</td>
<td>574</td>
</tr>
<tr>
<td>Failover Example</td>
<td>575</td>
</tr>
<tr>
<td>Geolocation Example</td>
<td>575</td>
</tr>
<tr>
<td>Geoproximity Example</td>
<td>576</td>
</tr>
<tr>
<td>Latency Example</td>
<td>577</td>
</tr>
<tr>
<td>Weighted Example</td>
<td>577</td>
</tr>
<tr>
<td>Example with Failover, Latency, and Geolocation Rules</td>
<td>578</td>
</tr>
<tr>
<td>Data Types</td>
<td>580</td>
</tr>
<tr>
<td>Amazon Route 53</td>
<td>581</td>
</tr>
<tr>
<td>AccountLimit</td>
<td>583</td>
</tr>
<tr>
<td>AlarmIdentifier</td>
<td>584</td>
</tr>
<tr>
<td>AliasTarget</td>
<td>585</td>
</tr>
<tr>
<td>Change</td>
<td>590</td>
</tr>
<tr>
<td>ChangeBatch</td>
<td>591</td>
</tr>
<tr>
<td>ChangeInfo</td>
<td>592</td>
</tr>
<tr>
<td>CloudWatchAlarmConfiguration</td>
<td>593</td>
</tr>
<tr>
<td>DelegationSet</td>
<td>595</td>
</tr>
<tr>
<td>Dimension</td>
<td>596</td>
</tr>
<tr>
<td>DNSSECStatus</td>
<td>597</td>
</tr>
<tr>
<td>GeoLocation</td>
<td>599</td>
</tr>
<tr>
<td>GeoLocationDetails</td>
<td>601</td>
</tr>
<tr>
<td>HealthCheck</td>
<td>603</td>
</tr>
<tr>
<td>HealthCheckConfig</td>
<td>605</td>
</tr>
<tr>
<td>HealthCheckObservation</td>
<td>612</td>
</tr>
<tr>
<td>HostedZone</td>
<td>614</td>
</tr>
<tr>
<td>HostedZoneConfig</td>
<td>616</td>
</tr>
<tr>
<td>HostedZoneLimit</td>
<td>617</td>
</tr>
<tr>
<td>HostedZoneOwner</td>
<td>618</td>
</tr>
<tr>
<td>HostedZoneSummary</td>
<td>619</td>
</tr>
<tr>
<td>KeySigningKey</td>
<td>620</td>
</tr>
<tr>
<td>LinkedService</td>
<td>624</td>
</tr>
<tr>
<td>QueryLogginConfig</td>
<td>625</td>
</tr>
<tr>
<td>ResourceRecord</td>
<td>626</td>
</tr>
<tr>
<td>ResourceRecordSet</td>
<td>627</td>
</tr>
<tr>
<td>ResourceTagSet</td>
<td>635</td>
</tr>
<tr>
<td>ReusableDelegationSetLimit</td>
<td>636</td>
</tr>
<tr>
<td>StatusReport</td>
<td>637</td>
</tr>
<tr>
<td>Tag</td>
<td>638</td>
</tr>
<tr>
<td>TrafficPolicy</td>
<td>639</td>
</tr>
<tr>
<td>TrafficPolicyInstance</td>
<td>641</td>
</tr>
<tr>
<td>TrafficPolicySummary</td>
<td>644</td>
</tr>
<tr>
<td>VPC</td>
<td>646</td>
</tr>
<tr>
<td>Amazon Route 53 domain registration</td>
<td>646</td>
</tr>
</tbody>
</table>
Welcome

Amazon Route 53 is a highly available and scalable Domain Name System (DNS) web service. Route 53 performs four main functions:

- **Domain registration** – Route 53 helps let you register domain names such as example.com.
- **Domain Name System (DNS) service** – Route 53 translates friendly domains names like www.example.com into IP addresses like 192.0.2.1. Route 53 responds to DNS queries using a global network of authoritative DNS servers, which reduces latency.
- **Health checking** – Route 53 sends automated requests over the internet to your application to verify that it's reachable, available, and functional.
- **Resolver** – Route 53 Resolver lets you forward DNS queries from a VPC that you created using Amazon VPC to DNS resolvers in your network, and from your network to resolvers in your VPC.

This *Amazon Route 53 API Reference* explains how to use API actions to create the following resources:

**Public and Private Hosted Zones**

A *public hosted zone* is a container that holds information about how you want to route traffic on the internet for a domain, such as example.com, and its subdomains.

A *private hosted zone* is a container that holds information about how you want to route traffic for a domain and its subdomains within one or more VPCs that you created with the Amazon VPC service.

See Public and private hosted zones.

**Reusable Delegation Sets**

By default, each hosted zone that you create gets a different set of four name servers—a different delegation set. If you create a lot of hosted zones, maintaining different delegation sets can be difficult and time consuming. Route 53 lets you create a delegation set that you can reuse with multiple hosted zones. See Reusable delegation sets.

**Resource Record Sets**

After you create a hosted zone for your domain, such as example.com, you create resource record sets to tell the Domain Name System (DNS) how to route traffic for that domain. See Resource record sets.

**Traffic Policies and Traffic Policy Instances**

You can create complex routing configurations, known as traffic policies, that use weighted, latency, failover, and geolocation resource record sets. You can then associate a traffic policy with a domain name or subdomain name, such as www.example.com, by creating a traffic policy instance. When users submit DNS queries for the domain or subdomain, Route 53 responds based on the traffic policy that you used to create the traffic policy instance. See Traffic policies and Traffic policy instances.

**Health Checks**

Route 53 health checks monitor the health and performance of your web applications, web servers, and other resources. At regular intervals that you specify, Route 53 submits automated requests over the internet to your application, server, or other resource to verify that it's reachable, available, and functional. See Health checks.
Domain Registrations

When you want to get a new domain name, such as example.com, you can register it with Route 53. You can also transfer the registration for existing domains from other registrars to Route 53. See Domain registration.

Query Logs

You can configure Route 53 to log information about the DNS queries that Route 53 receives, such as the domain or subdomain that was requested, the date and time of the request, and the DNS record type (such as A or AAAA). See Public DNS query logs.

You can also configure Route 53 Resolver to log information about the DNS queries that originate in Amazon VPCs. See Private DNS query logs.

Outbound and Inbound Endpoints, and Rules

You can configure Route 53 Resolver to forward DNS queries from your VPC to your network or vice versa. DNS queries pass through an outbound endpoint on their way from a VPC to your network, and they pass through an inbound endpoint on their way from your network to a VPC. For outbound queries, rules let you specify the domain names that you want to forward to your network and the IP addresses of the DNS resolvers in your network. See Route 53 Resolver endpoints and Route 53 Resolver rules.

Tags

A tag is a label that you assign to an AWS resource. Each tag consists of a key and a value, both of which you define. You can use tags for a variety of purposes; one common use is to categorize and track your Route 53 costs. See Tags.

You can also use the Route 53 API to get the current limit on Route 53 objects that you can create, such as hosted zones and health checks. See Limits (quotas) for accounts, hosted zones, and reusable delegation sets.

In addition, the Amazon Route 53 API Reference includes the following information:

- Making API Requests – How to submit HTTP requests to Route 53
- Traffic Policy Document Format – Syntax and examples for the document that you include when you create a traffic policy programmatically

For information about Route 53 concepts and about how to use the Route 53 console, see the Amazon Route 53 Developer Guide.
Amazon Route 53 API actions by function

This topic lists all Route 53 and Route 53 Resolver API actions in groups by the function they perform.

Topics
• Types of function (p. 3)
• Actions by function (p. 4)

Types of function

DNS
• Public and private hosted zones
• Public hosted zones
• Private hosted zones
• Resource record sets
• Public DNS query logs
• Reusable delegation sets

DNS—Traffic flow
• Traffic policies
• Traffic policy instances

Domain registration
• Register, renew, and transfer domains
• Transfer domains between AWS accounts
• Get domain information
• Change domain settings

DNS—DNSSEC
• DNSSEC signing
• DNSSEC validation

Health checking
• Health checks
• Health checker IP ranges

Limits (quotas) for accounts, hosted zones, and reusable delegation sets

Route 53 Resolver
• Route 53 Resolver endpoints
• Private DNS query logs
• Route 53 Resolver rules
• Route 53 Resolver DNS Firewall
• Resolver configuration

Tags
• Tags for hosted zones and health checks
• Tags for domains
Actions by function

DNS | DNS—Traffic flow | Domain registration | DNS—DNSSEC | Health checking | Limits (quotas) for accounts, hosted zones, and reusable delegation sets | Route 53 Resolver | Tags

DNS

Public and private hosted zones
- CreateHostedZone (p. 43)
- DeleteHostedZone (p. 85)
- GetHostedZone (p. 138)
- GetHostedZoneCount (p. 142)
- ListHostedZones (p. 172)
- ListHostedZonesByName (p. 176)
- UpdateHostedZoneComment (p. 242)

Public hosted zones
- TestDNSAnswer (p. 227)

Private hosted zones
- AssociateVPCWithHostedZone (p. 18)
- DisassociateVPCFromHostedZone (p. 105)
- CreateVPCAssociationAuthorization (p. 76)
- DeleteVPCAssociationAuthorization (p. 99)
- ListHostedZonesByVPC (p. 181)
- ListVPCAssociationAuthorizations (p. 224)

Resource record sets
- ChangeResourceRecordSets (p. 22)
- GetChange (p. 115)
- ListResourceRecordSets (p. 188)
- GetGeoLocation (p. 123)
- ListGeoLocations (p. 163)

Public DNS query logs
- CreateQueryLoggingConfig (p. 55)
- DeleteQueryLoggingConfig (p. 91)
- GetQueryLoggingConfig (p. 147)
- ListQueryLoggingConfigs (p. 185)

Reusable delegation sets
- CreateReusableDelegationSet (p. 60)
- DeleteReusableDelegationSet (p. 93)
- GetReusableDelegationSet (p. 150)
- ListReusableDelegationSets (p. 194)

DNS—Traffic flow

Traffic policies
- CreateTrafficPolicy (p. 64)
- CreateTrafficPolicyVersion (p. 72)
- DeleteTrafficPolicy (p. 95)
• GetTrafficPolicy (p. 155)
• ListTrafficPolicies (p. 204)
• ListTrafficPolicyVersions (p. 220)
• UpdateTrafficPolicyComment (p. 245)

Traffic policy instances
• CreateTrafficPolicyInstance (p. 68)
• DeleteTrafficPolicyInstance (p. 97)
• GetTrafficPolicyInstance (p. 158)
• GetTrafficPolicyInstanceCount (p. 161)
• ListTrafficPolicyInstances (p. 207)
• ListTrafficPolicyInstancesByHostedZone (p. 211)
• ListTrafficPolicyInstancesByPolicy (p. 215)
• UpdateTrafficPolicyInstance (p. 248)

Domain registration
• RegisterDomain (p. 304)
• RenewDomain (p. 314)
• ResendContactReachabilityEmail (p. 317)
• RetrieveDomainAuthCode (p. 320)
• TransferDomain (p. 323)

Transfer domains between AWS accounts
• AcceptDomainTransferFromAnotherAwsAccount (p. 253)
• CancelDomainTransferToAnotherAwsAccount (p. 256)
• RejectDomainTransferFromAnotherAwsAccount (p. 311)
• TransferDomainToAnotherAwsAccount (p. 331)

Get domain information
• CheckDomainAvailability (p. 259)
• CheckDomainTransferability (p. 263)
• GetContactReachabilityStatus (p. 279)
• GetDomainDetail (p. 282)
• GetDomainSuggestions (p. 289)
• GetOperationDetail (p. 292)
• ListDomains (p. 295)
• ListOperations (p. 298)
• ViewBilling (p. 349)

Change domain settings
• DisableDomainAutoRenew (p. 269)
• DisableDomainTransferLock (p. 271)
• EnableDomainAutoRenew (p. 274)
• EnableDomainTransferLock (p. 276)
• UpdateDomainContact (p. 334)
• UpdateDomainContactPrivacy (p. 339)
• UpdateDomainNameservers (p. 343)

DNS—DNSSEC
DNSSEC signing
• ActivateKeySigningKey (p. 15)
• CreateKeySigningKey (p. 50)
• DeactivateKeySigningKey (p. 80)

DNSSEC validation
• GetResolverDnssecConfig (p. 436)
• ListResolverDnssecConfigs (p. 485)
• UpdateResolverDnssecConfig (p. 549)

Health checking
Health checks
• CreateHealthCheck (p. 36)
• DeleteHealthCheck (p. 83)
• GetHealthCheck (p. 126)
• GetHealthCheckCount (p. 130)
• GetHealthCheckLastFailureReason (p. 132)
• GetHealthCheckStatus (p. 135)
• ListHealthChecks (p. 168)
• UpdateHealthCheck (p. 231)

Health checker IP ranges
• GetCheckerIpRanges (p. 118)

Limits (quotas) for accounts, hosted zones, and reusable delegation sets
• GetAccountLimit (p. 112)
• GetHostedZoneLimit (p. 144)
• GetReusableDelegationSetLimit (p. 153)

Route 53 Resolver
Route 53 Resolver endpoints
• AssociateResolverEndpointIpAddress (p. 358)
• CreateResolverEndpoint (p. 380)
• DeleteResolverEndpoint (p. 401)
• DisassociateResolverEndpointIpAddress (p. 413)
• GetResolverEndpoint (p. 438)
• ListResolverEndpointIpAddresses (p. 488)
• ListResolverEndpoints (p. 492)
• UpdateResolverEndpoint (p. 552)

Private DNS query logs
• AssociateResolverQueryLogConfig (p. 362)
• CreateResolverQueryLogConfig (p. 385)
• DeleteResolverQueryLogConfig (p. 404)
• DisassociateResolverQueryLogConfig (p. 417)
• GetResolverQueryLogConfig (p. 441)
• GetResolverQueryLogConfigAssociation (p. 444)
• GetResolverQueryLogConfigPolicy (p. 447)
• ListResolverQueryLogConfigAssociations (p. 496)
• ListResolverQueryLogConfigs (p. 501)
• PutResolverQueryLogConfigPolicy (p. 520)

Route 53 Resolver rules
• AssociateResolverRule (p. 366)
• CreateResolverRule (p. 390)
• DeleteResolverRule (p. 408)
• DisassociateResolverRule (p. 421)
• GetResolverRule (p. 450)
• GetResolverRuleAssociation (p. 453)
• GetResolverRulePolicy (p. 456)
• ListResolverRuleAssociations (p. 506)
• ListResolverRules (p. 510)
• PutResolverRulePolicy (p. 524)
• UpdateResolverRule (p. 555)

Route 53 Resolver DNS Firewall
• AssociateFirewallRuleGroup (p. 354)
• CreateFirewallDomainList (p. 370)
• CreateFirewallRule (p. 373)
• CreateFirewallRuleGroup (p. 377)
• DeleteFirewallDomainList (p. 395)
• DeleteFirewallRule (p. 397)
• DeleteFirewallRuleGroup (p. 399)
• DisassociateFirewallRuleGroup (p. 411)
• GetFirewallConfig (p. 424)
• GetFirewallDomainList (p. 426)
• GetFirewallRuleGroup (p. 428)
• GetFirewallRuleGroupAssociation (p. 430)
• GetFirewallRuleGroupPolicy (p. 432)
• ImportFirewallDomains (p. 459)
• ListFirewallConfigs (p. 462)
• ListFirewallDomainLists (p. 465)
• ListFirewallDomains (p. 468)
• ListFirewallRuleGroupAssociations (p. 471)
• ListFirewallRuleGroups (p. 475)
• ListFirewallRules (p. 478)
• PutFirewallRuleGroupPolicy (p. 518)
• UpdateFirewallConfig (p. 533)
• UpdateFirewallDomains (p. 536)
• UpdateFirewallRule (p. 539)
• UpdateFirewallRuleGroupAssociation (p. 543)

Route 53 Resolver configuration
• GetResolverConfig (p. 434)
• ListResolverConfigs (p. 482)
• UpdateResolverConfig (p. 546)

Tags

Tags for hosted zones and health checks
• ChangeTagsForResource (p. 33)
• ListTagsForResource (p. 197)
• ListTagsForResources (p. 200)

Tags for domains
• DeleteTagsForDomain (p. 266)
• ListTagsForDomain (p. 301)
• UpdateTagsForDomain (p. 346)

Tags for Route 53 Resolver
• ListTagsForResource (p. 514)
• TagResource (p. 527)
• UntagResource (p. 530)
Actions

The following actions are supported by Amazon Route 53:

- ActivateKeySigningKey (p. 15)
- AssociateVPCWithHostedZone (p. 18)
- ChangeResourceRecordSets (p. 22)
- ChangeTagsForResource (p. 33)
- CreateHealthCheck (p. 36)
- CreateHostedZone (p. 43)
- CreateKeySigningKey (p. 50)
- CreateQueryLoggingConfig (p. 55)
- CreateReusableDelegationSet (p. 60)
- CreateTrafficPolicy (p. 64)
- CreateTrafficPolicyInstance (p. 68)
- CreateTrafficPolicyVersion (p. 72)
- CreateVPCAssociationAuthorization (p. 76)
- DeactivateKeySigningKey (p. 80)
- DeleteHealthCheck (p. 83)
- DeleteHostedZone (p. 85)
- DeleteKeySigningKey (p. 88)
- DeleteQueryLoggingConfig (p. 91)
- DeleteReusableDelegationSet (p. 93)
- DeleteTrafficPolicy (p. 95)
- DeleteTrafficPolicyInstance (p. 97)
- DisableVPCAssociationAuthorization (p. 99)
- DisableHostedZoneDNSSEC (p. 102)
- DisassociateVPCFromHostedZone (p. 105)
- EnableHostedZoneDNSSEC (p. 109)
- GetAccountLimit (p. 112)
- GetChange (p. 115)
- GetCheckerIpRanges (p. 118)
- GetDNSSEC (p. 120)
- GetGeoLocation (p. 123)
- GetHealthCheck (p. 126)
- GetHealthCheckCount (p. 130)
- GetHealthCheckLastFailureReason (p. 132)
- GetHealthCheckStatus (p. 135)
- GetHostedZone (p. 138)
- GetHostedZoneCount (p. 142)
- GetHostedZoneLimit (p. 144)
- GetQueryLoggingConfig (p. 147)
- GetReusableDelegationSet (p. 150)
- GetReusableDelegationSetLimit (p. 153)
• GetTrafficPolicy (p. 155)
• GetTrafficPolicyInstance (p. 158)
• GetTrafficPolicyInstanceCount (p. 161)
• ListGeoLocations (p. 163)
• ListHealthChecks (p. 168)
• ListHostedZones (p. 172)
• ListHostedZonesByName (p. 176)
• ListHostedZonesByVPC (p. 181)
• ListQueryLoggingConfigs (p. 185)
• ListResourceRecordSets (p. 188)
• ListReusableDelegationSets (p. 194)
• ListTagsForResource (p. 197)
• ListTagsForResources (p. 200)
• ListTrafficPolicies (p. 204)
• ListTrafficPolicyInstances (p. 207)
• ListTrafficPolicyInstancesByHostedZone (p. 211)
• ListTrafficPolicyInstancesByPolicy (p. 215)
• ListTrafficPolicyVersions (p. 220)
• ListVPCAssociationAuthorizations (p. 224)
• TestDNSAnswer (p. 227)
• UpdateHealthCheck (p. 231)
• UpdateHostedZoneComment (p. 242)
• UpdateTrafficPolicyComment (p. 245)
• UpdateTrafficPolicyInstance (p. 248)

The following actions are supported by Amazon Route 53 domain registration:

• AcceptDomainTransferFromAnotherAwsAccount (p. 253)
• CancelDomainTransferToAnotherAwsAccount (p. 256)
• CheckDomainAvailability (p. 259)
• CheckDomainTransferability (p. 263)
• DeleteTagsForDomain (p. 266)
• DisableDomainAutoRenew (p. 269)
• DisableDomainTransferLock (p. 271)
• EnableDomainAutoRenew (p. 274)
• EnableDomainTransferLock (p. 276)
• GetContactReachabilityStatus (p. 279)
• GetDomainDetail (p. 282)
• GetDomainSuggestions (p. 289)
• GetOperationDetail (p. 292)
• ListDomains (p. 295)
• ListOperations (p. 298)
• ListTagsForDomain (p. 301)
• RegisterDomain (p. 304)
• RejectDomainTransferFromAnotherAwsAccount (p. 311)
• RenewDomain (p. 314)
• ResendContactReachabilityEmail  (p. 317)
• RetrieveDomainAuthCode  (p. 320)
• TransferDomain  (p. 323)
• TransferDomainToAnotherAwsAccount  (p. 331)
• UpdateDomainContact  (p. 334)
• UpdateDomainContactPrivacy  (p. 339)
• UpdateDomainNameservers  (p. 343)
• UpdateTagsForDomain  (p. 346)
• ViewBilling  (p. 349)

The following actions are supported by Amazon Route 53 Resolver:

• AssociateFirewallRuleGroup  (p. 354)
• AssociateResolverEndpointIpAddress  (p. 358)
• AssociateResolverQueryLogConfig  (p. 362)
• AssociateResolverRule  (p. 366)
• CreateFirewallDomainList  (p. 370)
• CreateFirewallRule  (p. 373)
• CreateFirewallRuleGroup  (p. 377)
• CreateResolverEndpoint  (p. 380)
• CreateResolverQueryLogConfig  (p. 385)
• CreateResolverRule  (p. 390)
• DeleteFirewallDomainList  (p. 395)
• DeleteFirewallRule  (p. 397)
• DeleteFirewallRuleGroup  (p. 399)
• DeleteResolverEndpoint  (p. 401)
• DeleteResolverQueryLogConfig  (p. 404)
• DeleteResolverRule  (p. 408)
• DisassociateFirewallRuleGroup  (p. 411)
• DisassociateResolverEndpointIpAddress  (p. 413)
• DisassociateResolverQueryLogConfig  (p. 417)
• DisassociateResolverRule  (p. 421)
• GetFirewallConfig  (p. 424)
• GetFirewallDomainList  (p. 426)
• GetFirewallRuleGroup  (p. 428)
• GetFirewallRuleGroupAssociation  (p. 430)
• GetFirewallRuleGroupPolicy  (p. 432)
• GetResolverConfig  (p. 434)
• GetResolverDnssecConfig  (p. 436)
• GetResolverEndpoint  (p. 438)
• GetResolverQueryLogConfig  (p. 441)
• GetResolverQueryLogConfigAssociation  (p. 444)
• GetResolverQueryLogConfigPolicy  (p. 447)
• GetResolverRule  (p. 450)
• GetResolverRuleAssociation  (p. 453)
• GetResolverRulePolicy  (p. 456)
Amazon Route 53

The following actions are supported by Amazon Route 53:

- ActivateKeySigningKey (p. 15)
- AssociateVPCWithHostedZone (p. 18)
- ChangeResourceRecordSets (p. 22)
- ChangeTagsForResource (p. 33)
- CreateHealthCheck (p. 36)
- CreateHostedZone (p. 43)
- CreateKeySigningKey (p. 50)
- CreateQueryLoggingConfig (p. 55)
- CreateReusableDelegationSet (p. 60)
- CreateTrafficPolicy (p. 64)
- CreateTrafficPolicyInstance (p. 68)
• CreateTrafficPolicyVersion (p. 72)
• CreateVPCAssociationAuthorization (p. 76)
• DeactivateKeySigningKey (p. 80)
• DeleteHealthCheck (p. 83)
• DeleteHostedZone (p. 85)
• DeleteKeySigningKey (p. 88)
• DeleteQueryLoggingConfig (p. 91)
• DeleteReusableDelegationSet (p. 93)
• DeleteTrafficPolicy (p. 95)
• DeleteTrafficPolicyInstance (p. 97)
• DeleteVPCAssociationAuthorization (p. 99)
• DisableHostedZoneDNSSEC (p. 102)
• DisassociateVPCFromHostedZone (p. 105)
• EnableHostedZoneDNSSEC (p. 109)
• GetAccountLimit (p. 112)
• GetChange (p. 115)
• GetCheckerIpRanges (p. 118)
• GetDNSSEC (p. 120)
• GetGeoLocation (p. 123)
• GetHealthCheck (p. 126)
• GetHealthCheckCount (p. 130)
• GetHealthCheckLastFailureReason (p. 132)
• GetHealthCheckStatus (p. 135)
• GetHostedZone (p. 138)
• GetHostedZoneCount (p. 142)
• GetHostedZoneLimit (p. 144)
• GetQueryLoggingConfig (p. 147)
• GetReusableDelegationSet (p. 150)
• GetReusableDelegationSetLimit (p. 153)
• GetTrafficPolicy (p. 155)
• GetTrafficPolicyInstance (p. 158)
• GetTrafficPolicyInstanceCount (p. 161)
• ListGeoLocations (p. 163)
• ListHealthChecks (p. 168)
• ListHostedZones (p. 172)
• ListHostedZonesByName (p. 176)
• ListHostedZonesByVPC (p. 181)
• ListQueryLoggingConfigs (p. 185)
• ListResourceRecordSets (p. 188)
• ListReusableDelegationSets (p. 194)
• ListTagsForResource (p. 197)
• ListTagsForResources (p. 200)
• ListTrafficPolicies (p. 204)
• ListTrafficPolicyInstances (p. 207)
• ListTrafficPolicyInstancesByHostedZone (p. 211)
• ListTrafficPolicyInstancesByPolicy (p. 215)
• ListTrafficPolicyVersions (p. 220)
• ListVPCAssociationAuthorizations (p. 224)
• TestDNSAnswer (p. 227)
• UpdateHealthCheck (p. 231)
• UpdateHostedZoneComment (p. 242)
• UpdateTrafficPolicyComment (p. 245)
• UpdateTrafficPolicyInstance (p. 248)
ActivateKeySigningKey

Service: Amazon Route 53

Activates a key-signing key (KSK) so that it can be used for signing by DNSSEC. This operation changes the KSK status to ACTIVE.

Request Syntax

POST /2013-04-01/keysigningkey/HostedZoneId/Name/activate HTTP/1.1

URI Request Parameters

The request uses the following URI parameters.

HostedZoneId (p. 15)

A unique string used to identify a hosted zone.

Length Constraints: Maximum length of 32.

Required: Yes

Name (p. 15)

A string used to identify a key-signing key (KSK). Name can include numbers, letters, and underscores (_). Name must be unique for each key-signing key in the same hosted zone.


Required: Yes

Request Body

The request does not have a request body.

Response Syntax

HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<ActivateKeySigningKeyResponse>
  <ChangeInfo>
    <Comment>string</Comment>
    <Id>string</Id>
    <Status>string</Status>
    <SubmittedAt>timestamp</SubmittedAt>
  </ChangeInfo>
</ActivateKeySigningKeyResponse>

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

ActivateKeySigningKeyResponse (p. 15)

Root level tag for the ActivateKeySigningKeyResponse parameters.
Required: Yes

**ChangeEvent (p. 15)**

A complex type that describes change information about changes made to your hosted zone.

Type: EventChange (p. 592) object

**Errors**

For information about the errors that are common to all actions, see Common Errors (p. 714).

**ConcurrentModification**

Another user submitted a request to create, update, or delete the object at the same time that you did. Retry the request.

HTTP Status Code: 400

**InvalidInput**

The input is not valid.

HTTP Status Code: 400

**InvalidKeySigningKeyStatus**

The key-signing key (KSK) status isn't valid or another KSK has the status INTERNAL_FAILURE.

HTTP Status Code: 400

**InvalidKMSArn**

The KeyManagementServiceArn that you specified isn't valid to use with DNSSEC signing.

HTTP Status Code: 400

**InvalidSigningStatus**

Your hosted zone status isn't valid for this operation. In the hosted zone, change the status to enable DNSSEC or disable DNSSEC.

HTTP Status Code: 400

**NoSuchKeySigningKey**

The specified key-signing key (KSK) doesn't exist.

HTTP Status Code: 404

**See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
**AssociateVPCWithHostedZone**

Service: Amazon Route 53

 Associates an Amazon VPC with a private hosted zone.

**Important**
To perform the association, the VPC and the private hosted zone must already exist. You can't convert a public hosted zone into a private hosted zone.

**Note**
If you want to associate a VPC that was created by using one AWS account with a private hosted zone that was created by using a different account, the AWS account that created the private hosted zone must first submit a CreateVPCAssociationAuthorization request. Then the account that created the VPC must submit an AssociateVPCWithHostedZone request.

**Request Syntax**

```xml
POST /2013-04-01/hostedzone/Id/associatevpc HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
<AssociateVPCWithHostedZoneRequest xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <Comment>string</Comment>
  <VPC>
    <VPCId>string</VPCId>
    <VPCRegion>string</VPCRegion>
  </VPC>
</AssociateVPCWithHostedZoneRequest>
```

**URI Request Parameters**

The request uses the following URI parameters.

**Id** (p. 18)

The ID of the private hosted zone that you want to associate an Amazon VPC with.

Note that you can't associate a VPC with a hosted zone that doesn't have an existing VPC association.

Length Constraints: Maximum length of 32.

Required: Yes

**Request Body**

The request accepts the following data in XML format.

**AssociateVPCWithHostedZoneRequest** (p. 18)

Root level tag for the AssociateVPCWithHostedZoneRequest parameters.

Required: Yes

**Comment** (p. 18)

*Optional:* A comment about the association request.

Type: String

Required: No
VPC (p. 18)

A complex type that contains information about the VPC that you want to associate with a private hosted zone.

Type: VPC (p. 646) object

Required: Yes

Response Syntax

HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<AssociateVPCWithHostedZoneResponse>
  <ChangeInfo>
    <Comment>string</Comment>
    <Id>string</Id>
    <Status>string</Status>
    <SubmittedAt>timestamp</SubmittedAt>
  </ChangeInfo>
</AssociateVPCWithHostedZoneResponse>

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

AssociateVPCWithHostedZoneResponse (p. 19)

Root level tag for the AssociateVPCWithHostedZoneResponse parameters.

Required: Yes

ChangeInfo (p. 19)

A complex type that describes the changes made to your hosted zone.

Type: ChangeInfo (p. 592) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).

ConflictingDomainExists

The cause of this error depends on the operation that you're performing:

- **Create a public hosted zone**: Two hosted zones that have the same name or that have a parent/child relationship (example.com and test.example.com) can't have any common name servers. You tried to create a hosted zone that has the same name as an existing hosted zone or that's the parent or child of an existing hosted zone, and you specified a delegation set that shares one or more name servers with the existing hosted zone. For more information, see CreateReusableDelegationSet.

- **Create a private hosted zone**: A hosted zone with the specified name already exists and is already associated with the Amazon VPC that you specified.

- **Associate VPCs with a private hosted zone**: The VPC that you specified is already associated with another hosted zone that has the same name.
HTTP Status Code: 400
InvalidInput
The input is not valid.

HTTP Status Code: 400
InvalidVPCId
The VPC ID that you specified either isn't a valid ID or the current account is not authorized to access this VPC.

HTTP Status Code: 400
LimitsExceeded
This operation can't be completed either because the current account has reached the limit on reusable delegation sets that it can create or because you've reached the limit on the number of Amazon VPCs that you can associate with a private hosted zone. To get the current limit on the number of reusable delegation sets, see GetAccountLimit. To get the current limit on the number of Amazon VPCs that you can associate with a private hosted zone, see GetHostedZoneLimit. To request a higher limit, create a case with the AWS Support Center.

HTTP Status Code: 400
NoSuchHostedZone
No hosted zone exists with the ID that you specified.

HTTP Status Code: 404
NotAuthorizedException
Associating the specified VPC with the specified hosted zone has not been authorized.

HTTP Status Code: 401
PriorRequestNotComplete
If Amazon Route 53 can't process a request before the next request arrives, it will reject subsequent requests for the same hosted zone and return an HTTP 400 error (Bad request). If Route 53 returns this error repeatedly for the same request, we recommend that you wait, in intervals of increasing duration, before you try the request again.

HTTP Status Code: 400
PublicZoneVPCAssociation
You're trying to associate a VPC with a public hosted zone. Amazon Route 53 doesn't support associating a VPC with a public hosted zone.

HTTP Status Code: 400

Examples

Example Request

This example illustrates one usage of AssociateVPCWithHostedZone.

```
POST /2013-04-01/hostedzone/Z1PA6795UKMFR9/associatevpc HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
<AssociateVPCWithHostedZoneRequest xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
    <VPC>
        20
    </VPC>
</AssociateVPCWithHostedZoneRequest>
```
Example Response

This example illustrates one usage of AssociateVPCWithHostedZone.

HTTP/1.1 200 OK
<?xml version="1.0" encoding="UTF-8"?>
<AssociateVPCWithHostedZoneResponse xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <ChangeInfo>
    <Id>/change/a1b2c3d4</Id>
    <Status>INSYNC</Status>
    <SubmittedAt>2017-03-31T01:36:41.958Z</SubmittedAt>
  </ChangeInfo>
</AssociateVPCWithHostedZoneResponse>

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
ChangeResourceRecordSets

Service: Amazon Route 53

Creates, changes, or deletes a resource record set, which contains authoritative DNS information for a specified domain name or subdomain name. For example, you can use ChangeResourceRecordSets to create a resource record set that routes traffic for test.example.com to a web server that has an IP address of 192.0.2.44.

Deleting Resource Record Sets

To delete a resource record set, you must specify all the same values that you specified when you created it.

Change Batches and Transactional Changes

The request body must include a document with a ChangeResourceRecordSetsRequest element. The request body contains a list of change items, known as a change batch. Change batches are considered transactional changes. Route 53 validates the changes in the request and then either makes all or none of the changes in the change batch request. This ensures that DNS routing isn't adversely affected by partial changes to the resource record sets in a hosted zone.

For example, suppose a change batch request contains two changes: it deletes the CNAME resource record set for www.example.com and creates an alias resource record set for www.example.com. If validation for both records succeeds, Route 53 deletes the first resource record set and creates the second resource record set in a single operation. If validation for either the DELETE or the CREATE action fails, then the request is canceled, and the original CNAME record continues to exist.

Note
If you try to delete the same resource record set more than once in a single change batch, Route 53 returns an InvalidChangeBatch error.

Traffic Flow

To create resource record sets for complex routing configurations, use either the traffic flow visual editor in the Route 53 console or the API actions for traffic policies and traffic policy instances. Save the configuration as a traffic policy, then associate the traffic policy with one or more domain names (such as example.com) or subdomain names (such as www.example.com), in the same hosted zone or in multiple hosted zones. You can roll back the updates if the new configuration isn't performing as expected. For more information, see Using Traffic Flow to Route DNS Traffic in the Amazon Route 53 Developer Guide.

Create, Delete, and Upsert

Use ChangeResourceRecordsSetsRequest to perform the following actions:

- **CREATE**: Creates a resource record set that has the specified values.
- **DELETE**: Deletes an existing resource record set that has the specified values.
- **UPSERT**: If a resource record set does not already exist, AWS creates it. If a resource set does exist, Route 53 updates it with the values in the request.

Syntaxes for Creating, Updating, and Deleting Resource Record Sets

The syntax for a request depends on the type of resource record set that you want to create, delete, or update, such as weighted, alias, or failover. The XML elements in your request must appear in the order listed in the syntax.

For syntax examples that show the elements for each kind of resource record set, such as basic, weighted, and alias, see the Examples section of ChangeResourceRecordSets.
Don't refer to the syntax in the "Syntax" section, which includes all of the elements for every kind of resource record set that you can create, delete, or update by using ChangeResourceRecordSets.

**Change Propagation to Route 53 DNS Servers**

When you submit a ChangeResourceRecordSets request, Route 53 propagates your changes to all of the Route 53 authoritative DNS servers. While your changes are propagating, GetChange returns a status of PENDING. When propagation is complete, GetChange returns a status of INSYNC. Changes generally propagate to all Route 53 name servers within 60 seconds. For more information, see GetChange.

**Limits on ChangeResourceRecordSets Requests**

For information about the limits on a ChangeResourceRecordSets request, see Limits in the Amazon Route 53 Developer Guide.

**Request Syntax**

```xml
POST /2013-04-01/hostedzone/Id/rrset/ HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
  <ChangeBatch>
    <Changes>
      <Change>
        <Action>string</Action>
        <ResourceRecordSet>
          <AliasTarget>
            <DNSName>string</DNSName>
            <EvaluateTargetHealth>boolean</EvaluateTargetHealth>
            <HostedZoneId>string</HostedZoneId>
          </AliasTarget>
          <Failover>string</Failover>
          <GeoLocation>
            <ContinentCode>string</ContinentCode>
            <CountryCode>string</CountryCode>
            <SubdivisionCode>string</SubdivisionCode>
          </GeoLocation>
          <HealthCheckId>string</HealthCheckId>
          <MultiValueAnswer>boolean</MultiValueAnswer>
          <Name>string</Name>
          <Region>string</Region>
          <ResourceRecords>
            <ResourceRecord>
              <Value>string</Value>
            </ResourceRecord>
          </ResourceRecords>
          <SetIdentifier>string</SetIdentifier>
          <TrafficPolicyInstanceId>string</TrafficPolicyInstanceId>
          <TTL>long</TTL>
          <Type>string</Type>
          <Weight>long</Weight>
        </ResourceRecordSet>
      </Change>
    </Changes>
  </ChangeBatch>
</ChangeResourceRecordSetsRequest>
```

**URI Request Parameters**

The request uses the following URI parameters.
Id (p. 23)

The ID of the hosted zone that contains the resource record sets that you want to change.

Length Constraints: Maximum length of 32.

Required: Yes

Request Body

The request accepts the following data in XML format.

ChangeResourceRecordSetsRequest (p. 23)

Root level tag for the ChangeResourceRecordSetsRequest parameters.

Required: Yes

ChangeBatch (p. 23)

A complex type that contains an optional comment and the Changes element.

Type: ChangeBatch (p. 591) object

Required: Yes

Response Syntax

HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<ChangeResourceRecordSetsResponse>
  <ChangeInfo>
    <Comment>string</Comment>
    <Id>string</Id>
    <Status>string</Status>
    <SubmittedAt>timestamp</SubmittedAt>
  </ChangeInfo>
</ChangeResourceRecordSetsResponse>

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

ChangeResourceRecordSetsResponse (p. 24)

Root level tag for the ChangeResourceRecordSetsResponse parameters.

Required: Yes

ChangeInfo (p. 24)

A complex type that contains information about changes made to your hosted zone.

This element contains an ID that you use when performing a GetChange action to get detailed information about the change.

Type: ChangeInfo (p. 592) object
Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).

InvalidChangeBatch

This exception contains a list of messages that might contain one or more error messages. Each error message indicates one error in the change batch.

HTTP Status Code: 400

InvalidInput

The input is not valid.

HTTP Status Code: 400

NoSuchHealthCheck

No health check exists with the specified ID.

HTTP Status Code: 404

NoSuchHostedZone

No hosted zone exists with the ID that you specified.

HTTP Status Code: 404

PriorRequestNotComplete

If Amazon Route 53 can't process a request before the next request arrives, it will reject subsequent requests for the same hosted zone and return an HTTP 400 error (Bad request). If Route 53 returns this error repeatedly for the same request, we recommend that you wait, in intervals of increasing duration, before you try the request again.

HTTP Status Code: 400

Examples

Basic Syntax

This example illustrates one usage of ChangeResourceRecordSets.

```
POST /2013-04-01/hostedzone/Route 53 hosted zone ID/rrset HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
<ChangeBatch>
  <Comment>optional comment about the changes in this change batch request</Comment>
  <Changes>
    <Change>
      <Action>CREATE | DELETE | UPSERT</Action>
      <ResourceRecordSet>
        <Name>fully qualified domain name</Name>
        <Type>DNS record type</Type>
        <TTL>time to live in seconds</TTL>
        <ResourceRecords>
          <ResourceRecord>
            <Value>applicable value for the record type</Value>
          </ResourceRecord>
          ...
        </ResourceRecords>
        <HealthCheckId>optional ID of a Route 53 health check</HealthCheckId>
      </ResourceRecordSet>
    </Change>
  </Changes>
</ChangeBatch>
```
### Alias Resource Record Set Syntax

For information about alias resource record sets, see Choosing Between Alias and Non-Alias Resource Record Sets in the Amazon Route 53 Developer Guide.

```xml
POST /2013-04-01/hostedzone/Route 53 hosted zone ID/rrset HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
    <ChangeBatch>
        <Comment>optional comment about the changes in this change batch request</Comment>
        <Changes>
            <Change>
                <Action>CREATE | DELETE | UPSERT</Action>
                <ResourceRecordSet>
                    <Name>fully qualified domain name</Name>
                    <Type>DNS record type</Type>
                    <AliasTarget>
                        <HostedZoneId>hosted zone ID for your AWS resource or Route 53 hosted zone</HostedZoneId>
                        <DNSName>DNS domain name for your AWS resource or another resource record set in this hosted zone</DNSName>
                        <EvaluateTargetHealth>true | false</EvaluateTargetHealth>
                    </AliasTarget>
                    <HealthCheckId>optional ID of a Route 53 health check</HealthCheckId>
                </ResourceRecordSet>
            </Change>
            ...
        </Changes>
    </ChangeBatch>
</ChangeResourceRecordSetsRequest>
```

### Failover Syntax

For information about configuring Route 53 failover, see the following topics in the Amazon Route 53 Developer Guide:

- Creating Route 53 Health Checks and Configuring DNS Failover
- Configuring Failover in a Private Hosted Zone

```xml
POST /2013-04-01/hostedzone/Route 53 hosted zone ID/rrset HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
    <ChangeBatch>
        <Comment>optional comment about the changes in this change batch request</Comment>
        <Changes>
            <Change>
                <Action>CREATE | DELETE | UPSERT</Action>
                <ResourceRecordSet>
                    <Name>fully qualified domain name</Name>
                    <Type>DNS record type</Type>
                    <SetIdentifier>unique description for this resource record set</SetIdentifier>
                    <Failover>PRIMARY | SECONDARY</Failover>
                    <TTL>time to live in seconds</TTL>
                </ResourceRecordSet>
            </Change>
            ...
        </Changes>
    </ChangeBatch>
</ChangeResourceRecordSetsRequest>
```
Failover Alias Syntax

For more information, see the following topics in the Amazon Route 53 Developer Guide:

- Creating Route 53 Health Checks and Configuring DNS Failover
- Configuring Failover in a Private Hosted Zone
- Choosing Between Alias and Non-Alias Resource Record Sets

Geolocation Syntax

For more information, see Geolocation Routing in the Amazon Route 53 Developer Guide.
Geolocation Alias Syntax

For more information, see the following topics in the Amazon Route 53 Developer Guide:

- Geolocation Routing
- Choosing Between Alias and Non-Alias Resource Record Sets
Latency Resource Record Set Syntax

For information about latency resource record sets, see Latency-Based Routing in the Amazon Route 53 Developer Guide.

POST /2013-04-01/hostedzone/Route 53 hosted zone ID/rrset HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
  <ChangeBatch>
    <Comment>optional comment about the changes in this change batch request</Comment>
    <Changes>
      <Change>
        <Action>CREATE | DELETE | UPSERT</Action>
        <ResourceRecordSet>
          <Name>fully qualified domain name</Name>
          <Type>DNS record type</Type>
          <SetIdentifier>unique description for this resource record set</SetIdentifier>
          <Region>Amazon EC2 region name</Region>
          <TTL>time to live in seconds</TTL>
          <ResourceRecords>
            <ResourceRecord>
              <Value>applicable value for the record type</Value>
            </ResourceRecord>
          </ResourceRecords>
          <HealthCheckId>optional ID of a Route 53 health check</HealthCheckId>
        </ResourceRecordSet>
      </Change>
      ...  
    </Changes>
  </ChangeBatch>
</ChangeResourceRecordSetsRequest>

Latency Alias Resource Record Set Syntax

For information about latency resource record sets, see Latency-Based Routing in the Amazon Route 53 Developer Guide. For information about alias resource record sets, see Choosing Between Alias and Non-Alias Resource Record Sets in the Amazon Route 53 Developer Guide.

POST /2013-04-01/hostedzone/Route 53 hosted zone ID/rrset HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
  <ChangeBatch>
    <Comment>optional comment about the changes in this change batch request</Comment>
    <Changes>
      <Change>
        <Action>CREATE | DELETE | UPSERT</Action>
        <ResourceRecordSet>
          <Name>fully qualified domain name</Name>
          <Type>DNS record type</Type>
          <SetIdentifier>unique description for this resource record set</SetIdentifier>
          <Region>Amazon EC2 region name</Region>
          <AliasTarget>
            <HostedZoneId>hosted zone ID for your AWS resource or Route 53 hosted zone</HostedZoneId>
            <DNSName>DNS domain name for your AWS resource or another resource record set in this hosted zone</DNSName>
          </AliasTarget>
        </ResourceRecordSet>
      </Change>
      ...  
    </Changes>
  </ChangeBatch>
</ChangeResourceRecordSetsRequest>
Multivalue Answer Syntax

This example illustrates one usage of ChangeResourceRecordSets.

```
POST /2013-04-01/hostedzone/Route 53 hosted zone ID/rrset HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
  <ChangeBatch>
    <Comment>optional comment about the changes in this change batch request</Comment>
    <Changes>
      <Change>
        <Action>CREATE | DELETE | UPSERT</Action>
        <ResourceRecordSet>
          <Name>fully qualified domain name</Name>
          <Type>DNS record type</Type>
          <TTL>time to live in seconds</TTL>
          <SetIdentifier>unique description for this resource record set</SetIdentifier>
          <MultiValueAnswer>true</MultiValueAnswer>
          <ResourceRecords>
            <ResourceRecord>
              <Value>applicable value for the record type</Value>
            </ResourceRecord>
            ...
          </ResourceRecords>
        </ResourceRecordSet>
      </Change>
      ...
    </Changes>
  </ChangeBatch>
</ChangeResourceRecordSetsRequest>
```

Weighted Resource Record Set Syntax

For information about weighted resource record sets, see Weighted Routing in the Amazon Route 53 Developer Guide.

```
POST /2013-04-01/hostedzone/Route 53 hosted zone ID/rrset HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
  <ChangeBatch>
    <Comment>optional comment about the changes in this change batch request</Comment>
    <Changes>
      <Change>
        <Action>CREATE | DELETE | UPSERT</Action>
        <ResourceRecordSet>
          <Name>fully qualified domain name</Name>
          <Type>DNS record type</Type>
          <SetIdentifier>unique description for this resource record set</SetIdentifier>
          <Weight>value between 0 and 255</Weight>
          <TTL>time to live in seconds</TTL>
        </ResourceRecordSet>
      </Change>
      ...
    </Changes>
  </ChangeBatch>
</ChangeResourceRecordSetsRequest>
```
Weighted Alias Resource Record Set Syntax

For information about weighted resource record sets, see Weighted Routing in the Amazon Route 53 Developer Guide. For information about alias resource record sets, see Choosing Between Alias and Non-Alias Resource Record Sets in the Amazon Route 53 Developer Guide.

POST /2013-04-01/hostedzone/Route 53 hosted zone ID/rrset HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
  <ChangeBatch>
    <Comment>optional comment about the changes in this change batch request</Comment>
    <Changes>
      <Change>
        <Action>CREATE | DELETE | UPSERT</Action>
        <ResourceRecordSet>
          <Name>fully qualified domain name</Name>
          <Type>DNS record type</Type>
          <SetIdentifier>unique description for this resource record set</SetIdentifier>
          <Weight>value between 0 and 255</Weight>
          <AliasTarget>
            <HostedZoneId>hosted zone ID for your AWS resource or Route 53 hosted zone</HostedZoneId>
            <DNSName>DNS domain name for your AWS resource or another resource record set in this hosted zone</DNSName>
            <EvaluateTargetHealth>true | false</EvaluateTargetHealth>
          </AliasTarget>
          <HealthCheckId>optional ID of a Route 53 health check</HealthCheckId>
        </ResourceRecordSet>
      </Change>
      ...
    </Changes>
  </ChangeBatch>
</ChangeResourceRecordSetsRequest>

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
• AWS SDK for Ruby V3
ChangeTagsForResource
Service: Amazon Route 53

Adds, edits, or deletes tags for a health check or a hosted zone.

For information about using tags for cost allocation, see Using Cost Allocation Tags in the AWS Billing and Cost Management User Guide.

Request Syntax

```
POST /2013-04-01/tags/ResourceType/ResourceId HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
  <AddTags>
    <Tag>
      <Key>string</Key>
      <Value>string</Value>
    </Tag>
  </AddTags>
  <RemoveTagKeys>
    <Key>string</Key>
  </RemoveTagKeys>
</ChangeTagsForResourceRequest>
```

URI Request Parameters

The request uses the following URI parameters.

**ResourceId (p. 33)**

The ID of the resource for which you want to add, change, or delete tags.

Length Constraints: Maximum length of 64.

Required: Yes

**ResourceType (p. 33)**

The type of the resource.

- The resource type for health checks is healthcheck.
- The resource type for hosted zones is hostedzone.

Valid Values: healthcheck | hostedzone

Required: Yes

Request Body

The request accepts the following data in XML format.

**ChangeTagsForResourceRequest (p. 33)**

Root level tag for the ChangeTagsForResourceRequest parameters.

Required: Yes

**AddTags (p. 33)**

A complex type that contains a list of the tags that you want to add to the specified health check or hosted zone and/or the tags that you want to edit Value for.
You can add a maximum of 10 tags to a health check or a hosted zone.

**Type:** Array of [Tag](#) objects

**Array Members:** Minimum number of 1 item. Maximum number of 10 items.

**Required:** No

**RemoveTagKeys (p. 33)**

A complex type that contains a list of the tags that you want to delete from the specified health check or hosted zone. You can specify up to 10 keys.

**Type:** Array of strings

**Array Members:** Minimum number of 1 item. Maximum number of 10 items.

**Length Constraints:** Maximum length of 128.

**Required:** No

### Response Syntax

```
HTTP/1.1 200
```

### Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

### Errors

For information about the errors that are common to all actions, see [Common Errors (p. 714)](#).

**InvalidInput**

The input is not valid.

HTTP Status Code: 400

**NoSuchHealthCheck**

No health check exists with the specified ID.

HTTP Status Code: 404

**NoSuchHostedZone**

No hosted zone exists with the ID that you specified.

HTTP Status Code: 404

**PriorRequestNotComplete**

If Amazon Route 53 can't process a request before the next request arrives, it will reject subsequent requests for the same hosted zone and return an HTTP 400 error (Bad request). If Route 53 returns this error repeatedly for the same request, we recommend that you wait, in intervals of increasing duration, before you try the request again.

HTTP Status Code: 400
ThrottlingException

The limit on the number of requests per second was exceeded.

HTTP Status Code: 400

Examples

Example Request

This example illustrates one usage of ChangeTagsForResource.

```xml
POST /2013-04-01/tags/healthcheck/abcdef11-2222-3333-4444-555555fedcba HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
    <RemoveTagKeys>
        <Key>Owner</Key>
    </RemoveTagKeys>
    <AddTags>
        <Tag>
            <Key>Cost Center</Key>
            <Value>80432</Value>
        </Tag>
    </AddTags>
</ChangeTagsForResourceRequest>
```

Example Response

This example illustrates one usage of ChangeTagsForResource.

```xml
HTTP/1.1 200 OK
<?xml version="1.0" encoding="UTF-8"?>
</ChangeTagsForResourceResponse>
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
CreateHealthCheck

Service: Amazon Route 53

Creates a new health check.

For information about adding health checks to resource record sets, see HealthCheckId in ChangeResourceRecordSets.

ELB Load Balancers

If you're registering EC2 instances with an Elastic Load Balancing (ELB) load balancer, do not create Amazon Route 53 health checks for the EC2 instances. When you register an EC2 instance with a load balancer, you configure settings for an ELB health check, which performs a similar function to a Route 53 health check.

Private Hosted Zones

You can associate health checks with failover resource record sets in a private hosted zone. Note the following:

- Route 53 health checkers are outside the VPC. To check the health of an endpoint within a VPC by IP address, you must assign a public IP address to the instance in the VPC.
- You can configure a health checker to check the health of an external resource that the instance relies on, such as a database server.
- You can create a CloudWatch metric, associate an alarm with the metric, and then create a health check that is based on the state of the alarm. For example, you might create a CloudWatch metric that checks the status of the Amazon EC2 StatusCheckFailed metric, add an alarm to the metric, and then create a health check that is based on the state of the alarm. For information about creating CloudWatch metrics and alarms by using the CloudWatch console, see the Amazon CloudWatch User Guide.

Request Syntax

POST /2013-04-01/healthcheck HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
  <CallerReference>string</CallerReference>
  <HealthCheckConfig>
    <AlarmIdentifier>
      <Name>string</Name>
      <Region>string</Region>
    </AlarmIdentifier>
    <ChildHealthChecks>
      <ChildHealthCheck>string</ChildHealthCheck>
    </ChildHealthChecks>
    <Disabled>boolean</Disabled>
    <EnableSNI>boolean</EnableSNI>
    <FailureThreshold>integer</FailureThreshold>
    <FullyQualifiedDomainName>string</FullyQualifiedDomainName>
    <HealthThreshold>integer</HealthThreshold>
    <InsufficientDataHealthStatus>string</InsufficientDataHealthStatus>
    <Inverted>boolean</Inverted>
    <IPAddress>string</IPAddress>
    <MeasureLatency>boolean</MeasureLatency>
    <Port>integer</Port>
    <Regions>
      <Region>string</Region>
    </Regions>
  </HealthCheckConfig>
  <RequestInterval>integer</RequestInterval>
</CreateHealthCheckRequest>
URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in XML format.

CreateHealthCheckRequest  (p. 36)

Root level tag for the CreateHealthCheckRequest parameters.

Required: Yes

CallerReference  (p. 36)

A unique string that identifies the request and that allows you to retry a failed CreateHealthCheck request without the risk of creating two identical health checks:

- If you send a CreateHealthCheck request with the same CallerReference and settings as a previous request, and if the health check doesn't exist, Amazon Route 53 creates the health check. If the health check does exist, Route 53 returns the settings for the existing health check.
- If you send a CreateHealthCheck request with the same CallerReference as a deleted health check, regardless of the settings, Route 53 returns a HealthCheckAlreadyExists error.
- If you send a CreateHealthCheck request with the same CallerReference as an existing health check but with different settings, Route 53 returns a HealthCheckAlreadyExists error.
- If you send a CreateHealthCheck request with a unique CallerReference but settings identical to an existing health check, Route 53 creates the health check.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Required: Yes

HealthCheckConfig  (p. 36)

A complex type that contains settings for a new health check.

Type: HealthCheckConfig  (p. 605) object

Required: Yes

Response Syntax

HTTP/1.1 201
Location: Location
<?xml version="1.0" encoding="UTF-8"?>
<CreateHealthCheckResponse>
  <HealthCheck>
    <CallerReference>string</CallerReference>
    <CloudWatchAlarmConfiguration>
<ComparisonOperator>string</ComparisonOperator>
<Dimensions>
   <Dimension>
      <Name>string</Name>
      <Value>string</Value>
   </Dimension>
</Dimensions>
<EvaluationPeriods>integer</EvaluationPeriods>
<MetricName>string</MetricName>
<Namespace>string</Namespace>
<Period>integer</Period>
<Statistic>string</Statistic>
<Threshold>double</Threshold>
</CloudWatchAlarmConfiguration>
<HealthCheckConfig>
   <AlarmIdentifier>
      <Name>string</Name>
      <Region>string</Region>
   </AlarmIdentifier>
   <ChildHealthChecks>
      <ChildHealthCheck>string</ChildHealthCheck>
   </ChildHealthChecks>
   <Disabled>boolean</Disabled>
   <EnableSNI>boolean</EnableSNI>
   <FailureThreshold>integer</FailureThreshold>
   <FullyQualifiedDomainName>string</FullyQualifiedDomainName>
   <HealthThreshold>integer</HealthThreshold>
   <InsufficientDataHealthStatus>string</InsufficientDataHealthStatus>
   <Inverted>boolean</Inverted>
   <IPAddress>string</IPAddress>
   <MeasureLatency>boolean</MeasureLatency>
   <Port>integer</Port>
   <Regions>
      <Region>string</Region>
   </Regions>
   <RequestInterval>integer</RequestInterval>
   <ResourcePath>string</ResourcePath>
   <RoutingControlArn>string</RoutingControlArn>
   <SearchString>string</SearchString>
   <Type>string</Type>
</HealthCheckConfig>
<HealthCheckVersion>long</HealthCheckVersion>
<Id>string</Id>
<LinkedService>
   <Description>string</Description>
   <ServicePrincipal>string</ServicePrincipal>
</LinkedService>
</CreateHealthCheckResponse>

Response Elements

If the action is successful, the service sends back an HTTP 201 response.

The response returns the following HTTP headers.

Location (p. 37)

The unique URL representing the new health check.

Length Constraints: Maximum length of 1024.

The following data is returned in XML format by the service.
CreateHealthCheckResponse (p. 37)

Root level tag for the CreateHealthCheckResponse parameters.

Required: Yes

HealthCheck (p. 37)

A complex type that contains identifying information about the health check.

Type: HealthCheck (p. 603) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).

HealthCheckAlreadyExists

The health check you're attempting to create already exists. Amazon Route 53 returns this error when you submit a request that has the following values:

• The same value for CallerReference as an existing health check, and one or more values that differ from the existing health check that has the same caller reference.

• The same value for CallerReference as a health check that you created and later deleted, regardless of the other settings in the request.

HTTP Status Code: 409

InvalidInput

The input is not valid.

HTTP Status Code: 400

TooManyHealthChecks

This health check can't be created because the current account has reached the limit on the number of active health checks.

For information about default limits, see Limits in the Amazon Route 53 Developer Guide.

For information about how to get the current limit for an account, see GetAccountLimit. To request a higher limit, create a case with the AWS Support Center.

You have reached the maximum number of active health checks for an AWS account. To request a higher limit, create a case with the AWS Support Center.

HTTP Status Code: 400

Examples

Request Syntax for HTTP[S], HTTP[S]_STR_MATCH, and TCP Health Checks

This example illustrates one usage of CreateHealthCheck.

```xml
POST /2013-04-01/healthcheck HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
   <CallerReference>unique description</CallerReference>
   <HealthCheckConfig>
```
<EnableSNI>true | false</EnableSNI>
<FailureThreshold>number of health checks that must pass or fail to change the status of the health check</FailureThreshold>
<FullyQualifiedDomainName>domain name of the endpoint to check</FullyQualifiedDomainName>
<Inverted>true | false</Inverted>
<IPAddress>IP address of the endpoint to check</IPAddress>
<P></Port>
<Regions>
<Region>us-west-1 | us-west-2 | us-east-1 | eu-west-1 | ap-southeast-1 | ap-southeast-2 | ap-northeast-1 | sa-east-1</Region>
...
</Regions>
<RequestInterval>10 | 30</RequestInterval>
<ResourcePath>path of the file that you want Route 53 to request</ResourcePath>
<SearchString>if Type is HTTP_STR_MATCH or HTTPS_STR_MATCH, the string to search for in the response body from the specified resource</SearchString>
>Type>HTTP | HTTPS | HTTP_STR_MATCH | HTTPS_STR_MATCH | TCP</Type>
</HealthCheckConfig>
</CreateHealthCheckRequest>

Response Syntax for HTTP[S], HTTP[S]_STR_MATCH, and TCP Health Checks

This example illustrates one usage of CreateHealthCheck.

HTTP/1.1 201 Created
<?xml version="1.0" encoding="UTF-8"?>
  <HealthCheck>
    <Id>ID that Route 53 assigned to the new health check</Id>
    <CallerReference>unique description</CallerReference>
    <HealthCheckConfig>
      <EnableSNI>true | false</EnableSNI>
      <FailureThreshold>number of health checks that must pass or fail to change the status of the health check</FailureThreshold>
      <FullyQualifiedDomainName>domain name of the endpoint to check</FullyQualifiedDomainName>
      <Inverted>true | false</Inverted>
      <IPAddress>IP address of the endpoint to check</IPAddress>
      <MeasureLatency>true | false</MeasureLatency>
      <Port>port on the endpoint to check</Port>
      <Regions>
        <Region>us-west-1 | us-west-2 | us-east-1 | eu-west-1 | ap-southeast-1 | ap-southeast-2 | ap-northeast-1 | sa-east-1</Region>
        ...
      </Regions>
      <RequestInterval>10 | 30</RequestInterval>
      <ResourcePath>path of the file that you want Route 53 to request</ResourcePath>
      <SearchString>if Type is HTTP_STR_MATCH or HTTPS_STR_MATCH, the string to search for in the response body from the specified resource</SearchString>
      <Type>HTTP | HTTPS | HTTP_STR_MATCH | HTTPS_STR_MATCH | TCP</Type>
    </HealthCheckConfig>
    <HealthCheckVersion>sequential counter</HealthCheckVersion>
  </HealthCheck>
</CreateHealthCheckResponse>

Request Syntax for CLOUDWATCH_METRIC Health Checks

This example illustrates one usage of CreateHealthCheck.

POST /2013-04-01/healthcheck HTTP/1.1
CreateHealthCheck

<?xml version="1.0" encoding="UTF-8"?><CreateHealthCheckRequest xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <CallerReference>unique description</CallerReference>
  <HealthCheckConfig>
    <AlarmIdentifier>
      <Name>name of CloudWatch alarm</Name>
      <Region>region that CloudWatch alarm was created in</Region>
    </AlarmIdentifier>
    <InsufficientDataHealthStatus>Healthy | Unhealthy | LastKnownStatus</InsufficientDataHealthStatus>
    <Inverted>true | false</Inverted>
    <Type>CLOUDWATCH_METRIC</Type>
  </HealthCheckConfig>
</CreateHealthCheckRequest>

Response Syntax for CLOUDWATCH_METRIC Health Checks

This example illustrates one usage of CreateHealthCheck.

  <HealthCheck>
    <Id>ID that Route 53 assigned to the new health check</Id>
    <CallerReference>unique description</CallerReference>
    <HealthCheckConfig>
      <AlarmIdentifier>
        <Name>name of CloudWatch alarm</Name>
        <Region>region of CloudWatch alarm</Region>
      </AlarmIdentifier>
      <InsufficientDataHealthStatus>Healthy | Unhealthy | LastKnownStatus</InsufficientDataHealthStatus>
      <Inverted>true | false</Inverted>
      <Type>CLOUDWATCH_METRIC</Type>
    </HealthCheckConfig>
    <CloudWatchAlarmConfiguration>
      <ComparisonOperator>GreaterThanOrEqualToThreshold | GreaterThanThreshold | LessThanThreshold | LessThanOrEqualToThreshold</ComparisonOperator>
      <Dimensions>
        <Dimension>
          <Name>name of a dimension for the metric</Name>
          <Value>value of a dimension for the metric</Value>
        </Dimension>
        ...  
      </Dimensions>
      <EvaluationPeriods>number of periods that metric is compared to threshold</EvaluationPeriods>
      <MetricName>name of the metric that's associated with the alarm</MetricName>
      <Namespace>namespace of the metric that the alarm is associated with</Namespace>
      <Period>duration of a period in seconds</Period>
      <Statistic>statistic applied to the CloudWatch metric</Statistic>
      <Threshold>value the metric is compared with</Threshold>
    </CloudWatchAlarmConfiguration>
    <HealthCheckVersion>sequential counter</HealthCheckVersion>
  </HealthCheck>
</CreateHealthCheckResponse>

Request Syntax for CALCULATED Health Checks

This example illustrates one usage of CreateHealthCheck.

POST /2013-04-01/healthcheck HTTP/1.1
  <HealthCheck>
    <Id>ID that Route 53 assigned to the new health check</Id>
    <CallerReference>unique description</CallerReference>
    <HealthCheckConfig>
      <AlarmIdentifier>
        <Name>name of CloudWatch alarm</Name>
        <Region>region of CloudWatch alarm</Region>
      </AlarmIdentifier>
      <InsufficientDataHealthStatus>Healthy | Unhealthy | LastKnownStatus</InsufficientDataHealthStatus>
      <Inverted>true | false</Inverted>
      <Type>CLOUDWATCH_METRIC</Type>
    </HealthCheckConfig>
    <CloudWatchAlarmConfiguration>
      <ComparisonOperator>GreaterThanOrEqualToThreshold | GreaterThanThreshold | LessThanThreshold | LessThanOrEqualToThreshold</ComparisonOperator>
      <Dimensions>
        <Dimension>
          <Name>name of a dimension for the metric</Name>
          <Value>value of a dimension for the metric</Value>
        </Dimension>
        ...  
      </Dimensions>
      <EvaluationPeriods>number of periods that metric is compared to threshold</EvaluationPeriods>
      <MetricName>name of the metric that's associated with the alarm</MetricName>
      <Namespace>namespace of the metric that the alarm is associated with</Namespace>
      <Period>duration of a period in seconds</Period>
      <Statistic>statistic applied to the CloudWatch metric</Statistic>
      <Threshold>value the metric is compared with</Threshold>
    </CloudWatchAlarmConfiguration>
    <HealthCheckVersion>sequential counter</HealthCheckVersion>
  </HealthCheck>
</CreateHealthCheckResponse>
<?xml version="1.0" encoding="UTF-8"?>
    <CallerReference>unique description</CallerReference>
    <HealthCheckConfig>
        <ChildHealthChecks>
            <ChildHealthCheck>health check ID</ChildHealthCheck>
            ...
        </ChildHealthChecks>
        <HealthThreshold>number of health checks that are associated with a CALCULATED health check that must be healthy</HealthThreshold>
        <Inverted>true | false</Inverted>
        <Type>CALCULATED</Type>
    </HealthCheckConfig>
</CreateHealthCheckRequest>

Response Syntax for CALCULATED Health Checks

This example illustrates one usage of CreateHealthCheck.

HTTP/1.1 201 Created
<?xml version="1.0" encoding="UTF-8"?>
    <HealthCheck>
        <Id>ID that Route 53 assigned to the new health check</Id>
        <CallerReference>unique description</CallerReference>
        <HealthCheckConfig>
            <ChildHealthChecks>
                <ChildHealthCheck>health check ID</ChildHealthCheck>
                ...
            </ChildHealthChecks>
            <HealthThreshold>number of health checks that are associated with a CALCULATED health check that must be healthy</HealthThreshold>
            <Inverted>true | false</Inverted>
            <Type>CALCULATED</Type>
        </HealthCheckConfig>
        <HealthCheckVersion>sequential counter</HealthCheckVersion>
    </HealthCheck>
</CreateHealthCheckResponse>

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
CreateHostedZone

Service: Amazon Route 53

Creates a new public or private hosted zone. You create records in a public hosted zone to define how you want to route traffic on the internet for a domain, such as example.com, and its subdomains (apex.example.com, acme.example.com). You create records in a private hosted zone to define how you want to route traffic for a domain and its subdomains within one or more Amazon Virtual Private Clouds (Amazon VPCs).

**Important**
You can't convert a public hosted zone to a private hosted zone or vice versa. Instead, you must create a new hosted zone with the same name and create new resource record sets.

For more information about charges for hosted zones, see Amazon Route 53 Pricing.

Note the following:

- You can't create a hosted zone for a top-level domain (TLD) such as .com.
- For public hosted zones, Route 53 automatically creates a default SOA record and four NS records for the zone. For more information about SOA and NS records, see NS and SOA Records that Route 53 Creates for a Hosted Zone in the Amazon Route 53 Developer Guide.

If you want to use the same name servers for multiple public hosted zones, you can optionally associate a reusable delegation set with the hosted zone. See the DelegationSetId element.

- If your domain is registered with a registrar other than Route 53, you must update the name servers with your registrar to make Route 53 the DNS service for the domain. For more information, see Migrating DNS Service for an Existing Domain to Amazon Route 53 in the Amazon Route 53 Developer Guide.

When you submit a CreateHostedZone request, the initial status of the hosted zone is PENDING. For public hosted zones, this means that the NS and SOA records are not yet available on all Route 53 DNS servers. When the NS and SOA records are available, the status of the zone changes to INSYNC.

The CreateHostedZone request requires the caller to have an ec2:DescribeVpcs permission.

**Request Syntax**

```
POST /2013-04-01/hostedzone HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
<CreateHostedZoneRequest xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <CallerReference/string/>
  <DelegationSetId/string/>
  <HostedZoneConfig/>
    <Comment/string/>
    <PrivateZone/boolean/>
  </HostedZoneConfig>
  <Name/string/>
  <VPC/>
    <VPCId/string/>
    <VPCRegion/string/>
  </VPC>
</CreateHostedZoneRequest>
```

**URI Request Parameters**

The request does not use any URI parameters.
Request Body

The request accepts the following data in XML format.

CreateHostedZoneRequest (p. 43)

Root level tag for the CreateHostedZoneRequest parameters.

Required: Yes

CallerReference (p. 43)

A unique string that identifies the request and that allows failed CreateHostedZone requests to be retried without the risk of executing the operation twice. You must use a unique CallerReference string every time you submit a CreateHostedZone request. CallerReference can be any unique string, for example, a date/time stamp.

Type: String


Required: Yes

DelegationSetId (p. 43)

If you want to associate a reusable delegation set with this hosted zone, the ID that Amazon Route 53 assigned to the reusable delegation set when you created it. For more information about reusable delegation sets, see CreateReusableDelegationSet.

Type: String

Length Constraints: Maximum length of 32.

Required: No

HostedZoneConfig (p. 43)

(Optional) A complex type that contains the following optional values:

- For public and private hosted zones, an optional comment
- For private hosted zones, an optional PrivateZone element

If you don't specify a comment or the PrivateZone element, omit HostedZoneConfig and the other elements.

Type: HostedZoneConfig (p. 616) object

Required: No

Name (p. 43)

The name of the domain. Specify a fully qualified domain name, for example, www.example.com. The trailing dot is optional; Amazon Route 53 assumes that the domain name is fully qualified. This means that Route 53 treats www.example.com (without a trailing dot) and www.example.com. (with a trailing dot) as identical.

If you're creating a public hosted zone, this is the name you have registered with your DNS registrar. If your domain name is registered with a registrar other than Route 53, change the name servers for your domain to the set of NameServers that CreateHostedZone returns in DelegationSet.

Type: String

Length Constraints: Maximum length of 1024.

Required: Yes
VPC (p. 43)

(Private hosted zones only) A complex type that contains information about the Amazon VPC that you're associating with this hosted zone.

You can specify only one Amazon VPC when you create a private hosted zone. If you are associating a VPC with a hosted zone with this request, the parameters VPCId and VPCRegion are also required.

To associate additional Amazon VPCs with the hosted zone, use AssociateVPCWithHostedZone after you create a hosted zone.

Type: VPC (p. 646) object

Required: No

Response Syntax

HTTP/1.1 201
Location: Location
<?xml version="1.0" encoding="UTF-8"?>
<CreateHostedZoneResponse>
  <ChangeInfo>
    <Comment>string</Comment>
    <Id>string</Id>
    <Status>string</Status>
    <SubmittedAt>timestamp</SubmittedAt>
  </ChangeInfo>
  <DelegationSet>
    <CallerReference>string</CallerReference>
    <Id>string</Id>
    <NameServers>
      <NameServer>string</NameServer>
    </NameServers>
  </DelegationSet>
  <HostedZone>
    <CallerReference>string</CallerReference>
    <Config>
      <Comment>string</Comment>
      <PrivateZone>boolean</PrivateZone>
    </Config>
    <Id>string</Id>
    <LinkedService>
      <Description>string</Description>
      <ServicePrincipal>string</ServicePrincipal>
    </LinkedService>
    <Name>string</Name>
    <ResourceRecordSetCount>long</ResourceRecordSetCount>
  </HostedZone>
  <VPC>
    <VPCId>string</VPCId>
    <VPCRegion>string</VPCRegion>
  </VPC>
</CreateHostedZoneResponse>

Response Elements

If the action is successful, the service sends back an HTTP 201 response.

The response returns the following HTTP headers.
Location (p. 45)
The unique URL representing the new hosted zone.
Length Constraints: Maximum length of 1024.

The following data is returned in XML format by the service.

CreateHostedZoneResponse (p. 45)
Root level tag for the CreateHostedZoneResponse parameters.
Required: Yes

ChangeInfo (p. 45)
A complex type that contains information about the CreateHostedZone request.
Type: ChangeInfo (p. 592) object

DelegationSet (p. 45)
A complex type that describes the name servers for this hosted zone.
Type: DelegationSet (p. 595) object

HostedZone (p. 45)
A complex type that contains general information about the hosted zone.
Type: HostedZone (p. 614) object

VPC (p. 45)
A complex type that contains information about an Amazon VPC that you associated with this hosted zone.
Type: VPC (p. 646) object

Errors
For information about the errors that are common to all actions, see Common Errors (p. 714).

ConflictingDomainExists
The cause of this error depends on the operation that you're performing:

- **Create a public hosted zone:** Two hosted zones that have the same name or that have a parent/child relationship (example.com and test.example.com) can't have any common name servers. You tried to create a hosted zone that has the same name as an existing hosted zone or that's the parent or child of an existing hosted zone, and you specified a delegation set that shares one or more name servers with the existing hosted zone. For more information, see CreateReusableDelegationSet.
- **Create a private hosted zone:** A hosted zone with the specified name already exists and is already associated with the Amazon VPC that you specified.
- **Associate VPCs with a private hosted zone:** The VPC that you specified is already associated with another hosted zone that has the same name.

HTTP Status Code: 400

DelegationSetNotAvailable
You can create a hosted zone that has the same name as an existing hosted zone (example.com is common), but there is a limit to the number of hosted zones that have the same name. If you
get this error, Amazon Route 53 has reached that limit. If you own the domain name and Route 53 generates this error, contact Customer Support.

HTTP Status Code: 400

DelegationSetNotReusable

A reusable delegation set with the specified ID does not exist.

HTTP Status Code: 400

HostedZoneAlreadyExists

The hosted zone you're trying to create already exists. Amazon Route 53 returns this error when a hosted zone has already been created with the specified CallerReference.

HTTP Status Code: 409

InvalidDomainName

The specified domain name is not valid.

HTTP Status Code: 400

InvalidInput

The input is not valid.

HTTP Status Code: 400

InvalidVPCId

The VPC ID that you specified either isn't a valid ID or the current account is not authorized to access this VPC.

HTTP Status Code: 400

NoSuchDelegationSet

A reusable delegation set with the specified ID does not exist.

HTTP Status Code: 400

TooManyHostedZones

This operation can’t be completed either because the current account has reached the limit on the number of hosted zones or because you've reached the limit on the number of hosted zones that can be associated with a reusable delegation set.

For information about default limits, see Limits in the Amazon Route 53 Developer Guide.

To get the current limit on hosted zones that can be created by an account, see GetAccountLimit.

To get the current limit on hosted zones that can be associated with a reusable delegation set, see GetReusableDelegationSetLimit.

To request a higher limit, create a case with the AWS Support Center.

HTTP Status Code: 400

Examples

Example Request (Public Hosted Zone)

This example illustrates one usage of CreateHostedZone.
POST /2013-04-01/hostedzone HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
<CreateHostedZoneRequest xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <Name>example.com</Name>
  <CallerReference>myUniqueIdentifier</CallerReference>
  <HostedZoneConfig>
    <Comment>This is my first hosted zone.</Comment>
  </HostedZoneConfig>
  <DelegationSetId>NZ8X2CISAMPLE</DelegationSetId>
</CreateHostedZoneRequest>

Example Response (Public Hosted Zone)
This example illustrates one usage of CreateHostedZone.

HTTP/1.1 201 Created
<?xml version="1.0" encoding="UTF-8"?>
  <HostedZone>
    <Id>/hostedzone/Z1PA6795UKMFR9</Id>
    <Name>example.com.</Name>
    <CallerReference>myUniqueIdentifier</CallerReference>
    <Config>
      <Comment>This is my first hosted zone.</Comment>
      <PrivateZone>false</PrivateZone>
    </Config>
    <ResourceRecordSetCount>2</ResourceRecordSetCount>
  </HostedZone>
  <ChangeInfo>
    <Id>/change/C1PA6795UKMFR9</Id>
    <Status>PENDING</Status>
    <SubmittedAt>2017-03-15T01:36:41.958Z</SubmittedAt>
  </ChangeInfo>
  <DelegationSet>
    <Id>NZ8X2CISAMPLE</Id>
    <CallerReference>2017-03-01T11:44:14.448Z</CallerReference>
    <NameServers>
      <NameServer>ns-2048.awsdns-64.com</NameServer>
      <NameServer>ns-2049.awsdns-65.net</NameServer>
      <NameServer>ns-2050.awsdns-66.org</NameServer>
      <NameServer>ns-2051.awsdns-67.co.uk</NameServer>
    </NameServers>
  </DelegationSet>
</CreateHostedZoneResponse>

Example Request (Private Hosted Zone)
This example illustrates one usage of CreateHostedZone.

POST /2013-04-01/hostedzone HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
<CreateHostedZoneRequest xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <Name>example.com</Name>
  <VPC>
    <VPCId>vpc-1a2b3c4d</VPCId>
    <VPCRegion>us-east-2</VPCRegion>
  </VPC>
  <CallerReference>myUniqueIdentifier</CallerReference>
  <HostedZoneConfig>
    <Comment>This is my first hosted zone.</Comment>
  </HostedZoneConfig>
</CreateHostedZoneRequest>
Example Response (Private Hosted Zone)

This example illustrates one usage of CreateHostedZone.

HTTP/1.1 201 Created
<?xml version="1.0" encoding="UTF-8"?>
  <HostedZone>
    <Id>/hostedzone/Z1D633PJN98FT9</Id>
    <Name>example.com.</Name>
    <VPC>
      <VPCId>vpc-1a2b3c4d</VPCId>
      <VPCRegion>us-east-2</VPCRegion>
    </VPC>
    <CallerReference>myUniqueIdentifier</CallerReference>
    <Config>
      <Comment>This is my first hosted zone.</Comment>
      <PrivateZone>true</PrivateZone>
    </Config>
    <ResourceRecordSetCount>2</ResourceRecordSetCount>
  </HostedZone>
  <ChangeInfo>
    <Id>/change/C1PA6795UKMFB9</Id>
    <Status>PENDING</Status>
    <SubmittedAt>2017-03-15T01:36:41.958Z</SubmittedAt>
  </ChangeInfo>
</CreateHostedZoneResponse>

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
CreateKeySigningKey
Service: Amazon Route 53

Creates a new key-signing key (KSK) associated with a hosted zone. You can only have two KSKs per hosted zone.

Request Syntax

```
POST /2013-04-01/keysigningkey HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
<CreateKeySigningKeyRequest xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <CallerReference>string</CallerReference>
  <HostedZoneId>string</HostedZoneId>
  <KeyManagementServiceArn>string</KeyManagementServiceArn>
  <Name>string</Name>
  <Status>string</Status>
</CreateKeySigningKeyRequest>
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in XML format.

**CreateKeySigningKeyRequest (p. 50)**

- Root level tag for the CreateKeySigningKeyRequest parameters.

  - **CallerReference (p. 50)**
    - A unique string that identifies the request.
    - Type: String
    - Required: Yes

  - **HostedZoneId (p. 50)**
    - The unique string (ID) used to identify a hosted zone.
    - Type: String
    - Length Constraints: Maximum length of 32.
    - Required: Yes

  - **KeyManagementServiceArn (p. 50)**
    - The Amazon resource name (ARN) for a customer managed key in AWS Key Management Service (AWS KMS). The KeyManagementServiceArn must be unique for each key-signing key (KSK) in a single hosted zone. To see an example of KeyManagementServiceArn that grants the correct permissions for DNSSEC, scroll down to Example.
    - You must configure the customer managed customer managed key as follows:

```xml
<KeyManagementServiceArn>arn:aws:kms:us-east-1:123456789012:key/1234abcd-1234-1234-1234-1234abcd1234</KeyManagementServiceArn>
```
Status
  Enabled
Key spec
  ECC_NIST_P256
Key usage
  Sign and verify
Key policy
  The key policy must give permission for the following actions:
  • DescribeKey
  • GetPublicKey
  • Sign
  The key policy must also include the Amazon Route 53 service in the principal for your account. Specify the following:
  • "Service": "dnssec-route53.amazonaws.com"

For more information about working with a customer managed key in AWS KMS, see AWS Key Management Service concepts.

Type: String
Required: Yes

Name (p. 50)
  A string used to identify a key-signing key (KSK). Name can include numbers, letters, and underscores (_). Name must be unique for each key-signing key in the same hosted zone.

Type: String
Required: Yes

Status (p. 50)
  A string specifying the initial status of the key-signing key (KSK). You can set the value to ACTIVE or INACTIVE.

Type: String
Required: Yes

Response Syntax

HTTP/1.1 201
Location: Location
<?xml version="1.0" encoding="UTF-8"?>
<CreateKeySigningKeyResponse>
  <ChangeInfo>
    <Comment>string</Comment>
    <Id>string</Id>
    <Status>string</Status>
    <SubmittedAt>timestamp</SubmittedAt>
  </ChangeInfo>
</CreateKeySigningKeyResponse>
Response Elements

If the action is successful, the service sends back an HTTP 201 response.

The response returns the following HTTP headers.

**Location (p. 51)**

The unique URL representing the new key-signing key (KSK).

Length Constraints: Maximum length of 1024.

The following data is returned in XML format by the service.

**CreateKeySigningKeyResponse (p. 51)**

Root level tag for the CreateKeySigningKeyResponse parameters.

Required: Yes

**ChangeInfo (p. 51)**

A complex type that describes change information about changes made to your hosted zone.

Type:  ChangeInfo (p. 592) object

**KeySigningKey (p. 51)**

The key-signing key (KSK) that the request creates.

Type:  KeySigningKey (p. 620) object

Errors

For information about the errors that are common to all actions, see [Common Errors (p. 714)](#).

**ConcurrentModification**

Another user submitted a request to create, update, or delete the object at the same time that you did. Retry the request.
HTTP Status Code: 400
**InvalidArgument**
Parameter name is not valid.

HTTP Status Code: 400
**InvalidInput**
The input is not valid.

HTTP Status Code: 400
**InvalidKeySigningKeyName**
The key-signing key (KSK) name that you specified isn't a valid name.

HTTP Status Code: 400
**InvalidKeySigningKeyStatus**
The key-signing key (KSK) status isn't valid or another KSK has the status `INTERNAL_FAILURE`.

HTTP Status Code: 400
**InvalidKMSArn**
The KeyManagementServiceArn that you specified isn't valid to use with DNSSEC signing.

HTTP Status Code: 400
**InvalidSigningStatus**
Your hosted zone status isn't valid for this operation. In the hosted zone, change the status to enable DNSSEC or disable DNSSEC.

HTTP Status Code: 400
**KeySigningKeyAlreadyExists**
You've already created a key-signing key (KSK) with this name or with the same customer managed key ARN.

HTTP Status Code: 409
**NoSuchHostedZone**
No hosted zone exists with the ID that you specified.

HTTP Status Code: 404
**TooManyKeySigningKeys**
You've reached the limit for the number of key-signing keys (KSKs). Remove at least one KSK, and then try again.

HTTP Status Code: 400

**Examples**

**KMSArn key policy example**
The following is an example of a `KeyManagementServiceArn` key policy that grants the correct permissions for DNSSEC.
See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
CreateQueryLoggingConfig

Service: Amazon Route 53

Creates a configuration for DNS query logging. After you create a query logging configuration, Amazon Route 53 begins to publish log data to an Amazon CloudWatch Logs log group.

DNS query logs contain information about the queries that Route 53 receives for a specified public hosted zone, such as the following:

- Route 53 edge location that responded to the DNS query
- Domain or subdomain that was requested
- DNS record type, such as A or AAAA
- DNS response code, such as NoError or ServFail

Log Group and Resource Policy

Before you create a query logging configuration, perform the following operations.

Note
If you create a query logging configuration using the Route 53 console, Route 53 performs these operations automatically.

1. Create a CloudWatch Logs log group, and make note of the ARN, which you specify when you create a query logging configuration. Note the following:
   - You must create the log group in the us-east-1 region.
   - You must use the same AWS account to create the log group and the hosted zone that you want to configure query logging for.
   - When you create log groups for query logging, we recommend that you use a consistent prefix, for example:
     /aws/route53/hosted zone name

   In the next step, you'll create a resource policy, which controls access to one or more log groups and the associated AWS resources, such as Route 53 hosted zones. There's a limit on the number of resource policies that you can create, so we recommend that you use a consistent prefix so you can use the same resource policy for all the log groups that you create for query logging.

2. Create a CloudWatch Logs resource policy, and give it the permissions that Route 53 needs to create log streams and to send query logs to log streams. For the value of Resource, specify the ARN for the log group that you created in the previous step. To use the same resource policy for all the CloudWatch Logs log groups that you created for query logging configurations, replace the hosted zone name with *, for example:

   arn:aws:logs:us-east-1:123412341234:log-group:/aws/route53/*

   Note
   You can't use the CloudWatch console to create or edit a resource policy. You must use the CloudWatch API, one of the AWS SDKs, or the AWS CLI.

Log Streams and Edge Locations

When Route 53 finishes creating the configuration for DNS query logging, it does the following:

- Creates a log stream for an edge location the first time that the edge location responds to DNS queries for the specified hosted zone. That log stream is used to log all queries that Route 53 responds to for that edge location.
- Begins to send query logs to the applicable log stream.

The name of each log stream is in the following format:
hosted zone ID/edge location code

The edge location code is a three-letter code and an arbitrarily assigned number, for example, DFW3. The three-letter code typically corresponds with the International Air Transport Association airport code for an airport near the edge location. (These abbreviations might change in the future.) For a list of edge locations, see "The Route 53 Global Network" on the Route 53 Product Details page.

Queries That Are Logged

Queries that are logged contain only the queries that DNS resolvers forward to Route 53. If a DNS resolver has already cached the response to a query (such as the IP address for a load balancer for example.com), the resolver will continue to return the cached response. It doesn’t forward another query to Route 53 until the TTL for the corresponding resource record set expires. Depending on how many DNS queries are submitted for a resource record set, and depending on the TTL for that resource record set, query logs might contain information about only one query out of every several thousand queries that are submitted to DNS. For more information about how DNS works, see Routing Internet Traffic to Your Website or Web Application in the Amazon Route 53 Developer Guide.

Log File Format

For a list of the values in each query log and the format of each value, see Logging DNS Queries in the Amazon Route 53 Developer Guide.

Pricing

For information about charges for query logs, see Amazon CloudWatch Pricing.

How to Stop Logging

If you want Route 53 to stop sending query logs to CloudWatch Logs, delete the query logging configuration. For more information, see DeleteQueryLoggingConfig.

Request Syntax

POST /2013-04-01/queryloggingconfig HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
    <CloudWatchLogsLogGroupArn>string</CloudWatchLogsLogGroupArn>
    <HostedZoneId>string</HostedZoneId>
</CreateQueryLoggingConfigRequest>

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in XML format.

CreateQueryLoggingConfigRequest (p. 56)

Root level tag for the CreateQueryLoggingConfigRequest parameters.

Required: Yes

CloudWatchLogsLogGroupArn (p. 56)

The Amazon Resource Name (ARN) for the log group that you want to Amazon Route 53 to send query logs to. This is the format of the ARN:

arn:aws:logs:region:account-id:log-group:log_group_name
To get the ARN for a log group, you can use the CloudWatch console, the DescribeLogGroups API action, the describe-log-groups command, or the applicable command in one of the AWS SDKs.

Type: String
Required: Yes

HostedZoneId (p. 56)

The ID of the hosted zone that you want to log queries for. You can log queries only for public hosted zones.

Type: String
Length Constraints: Maximum length of 32.
Required: Yes

Response Syntax

HTTP/1.1 201
Location: Location
<?xml version="1.0" encoding="UTF-8"?>
<CreateQueryLoggingConfigResponse>
  <QueryLoggingConfig>
    <CloudWatchLogsLogGroupArn>string</CloudWatchLogsLogGroupArn>
    <HostedZoneId>string</HostedZoneId>
    <Id>string</Id>
  </QueryLoggingConfig>
</CreateQueryLoggingConfigResponse>

Response Elements

If the action is successful, the service sends back an HTTP 201 response.

The response returns the following HTTP headers.

Location (p. 57)

The unique URL representing the new query logging configuration.

Length Constraints: Maximum length of 1024.

The following data is returned in XML format by the service.

CreateQueryLoggingConfigResponse (p. 57)

Root level tag for the CreateQueryLoggingConfigResponse parameters.

Required: Yes

QueryLoggingConfig (p. 57)

A complex type that contains the ID for a query logging configuration, the ID of the hosted zone that you want to log queries for, and the ARN for the log group that you want Amazon Route 53 to send query logs to.

Type: QueryLoggingConfig (p. 625) object
Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).

**ConcurrentModification**

Another user submitted a request to create, update, or delete the object at the same time that you did. Retry the request.

HTTP Status Code: 400

**InsufficientCloudWatchLogsResourcePolicy**

Amazon Route 53 doesn't have the permissions required to create log streams and send query logs to log streams. Possible causes include the following:

- There is no resource policy that specifies the log group ARN in the value for `Resource`.
- The resource policy that includes the log group ARN in the value for `Resource` doesn't have the necessary permissions.
- The resource policy hasn't finished propagating yet.
- The Key management service (KMS) key you specified doesn't exist or it can't be used with the log group associated with query log. Update or provide a resource policy to grant permissions for the KMS key.

HTTP Status Code: 400

**InvalidInput**

The input is not valid.

HTTP Status Code: 400

**NoSuchCloudWatchLogsLogGroup**

There is no CloudWatch Logs log group with the specified ARN.

HTTP Status Code: 404

**NoSuchHostedZone**

No hosted zone exists with the ID that you specified.

HTTP Status Code: 404

**QueryLoggingConfigAlreadyExists**

You can create only one query logging configuration for a hosted zone, and a query logging configuration already exists for this hosted zone.

HTTP Status Code: 409

Examples

Example Request

The following request creates a configuration for the hosted zone Z1D633PJN98PT9. DNS query logs are sent to the log group with the ARN `arn:aws:logs:us-east-1:1111111111:log-group:example.com:*`.

```
POST /2013-04-01/queryloggingconfig HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
```
Example Response

This example illustrates one usage of CreateQueryLoggingConfig.

```
HTTP/1.1 200 OK
<?xml version="1.0" encoding="UTF-8"?>
  <QueryLoggingConfig>
    <HostedZoneId>Z1D633PJN98FT9</HostedZoneId>
    <Id>87654321-dcba-1234-abcd-1a2b3c4d5e6f</Id>
  </QueryLoggingConfig>
</CreateQueryLoggingConfigResponse>
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
CreateReusableDelegationSet
Service: Amazon Route 53

Creates a delegation set (a group of four name servers) that can be reused by multiple hosted zones that were created by the same AWS account.

You can also create a reusable delegation set that uses the four name servers that are associated with an existing hosted zone. Specify the hosted zone ID in the CreateReusableDelegationSet request.

**Note**
You can't associate a reusable delegation set with a private hosted zone.

For information about using a reusable delegation set to configure white label name servers, see Configuring White Label Name Servers.

The process for migrating existing hosted zones to use a reusable delegation set is comparable to the process for configuring white label name servers. You need to perform the following steps:

1. Create a reusable delegation set.
2. Recreate hosted zones, and reduce the TTL to 60 seconds or less.
3. Recreate resource record sets in the new hosted zones.
4. Change the registrar's name servers to use the name servers for the new hosted zones.
5. Monitor traffic for the website or application.
6. Change TTLs back to their original values.

If you want to migrate existing hosted zones to use a reusable delegation set, the existing hosted zones can't use any of the name servers that are assigned to the reusable delegation set. If one or more hosted zones do use one or more name servers that are assigned to the reusable delegation set, you can do one of the following:

- For small numbers of hosted zones—up to a few hundred—it's relatively easy to create reusable delegation sets until you get one that has four name servers that don't overlap with any of the name servers in your hosted zones.
- For larger numbers of hosted zones, the easiest solution is to use more than one reusable delegation set.
- For larger numbers of hosted zones, you can also migrate hosted zones that have overlapping name servers to hosted zones that don't have overlapping name servers, then migrate the hosted zones again to use the reusable delegation set.

**Request Syntax**

```xml
POST /2013-04-01/delegationset HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?><CreateReusableDelegationSetRequest xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <CallerReference>string</CallerReference>
  <HostedZoneId>string</HostedZoneId>
</CreateReusableDelegationSetRequest>
```

**URI Request Parameters**

The request does not use any URI parameters.

**Request Body**

The request accepts the following data in XML format.
CreateReusableDelegationSetRequest (p. 60)

Root level tag for the CreateReusableDelegationSetRequest parameters.

Required: Yes

CallerReference (p. 60)

A unique string that identifies the request, and that allows you to retry failed CreateReusableDelegationSet requests without the risk of executing the operation twice. You must use a unique CallerReference string every time you submit a CreateReusableDelegationSet request. CallerReference can be any unique string, for example a date/time stamp.

Type: String


Required: Yes

HostedZoneId (p. 60)

If you want to mark the delegation set for an existing hosted zone as reusable, the ID for that hosted zone.

Type: String

Length Constraints: Maximum length of 32.

Required: No

Response Syntax

HTTP/1.1 201
Location: Location
<?xml version="1.0" encoding="UTF-8"?>
<CreateReusableDelegationSetResponse>
  <DelegationSet>
    <CallerReference>string</CallerReference>
    <Id>string</Id>
    <NameServers>
      <NameServer>string</NameServer>
    </NameServers>
  </DelegationSet>
</CreateReusableDelegationSetResponse>

Response Elements

If the action is successful, the service sends back an HTTP 201 response.

The response returns the following HTTP headers.

Location (p. 61)

The unique URL representing the new reusable delegation set.

Length Constraints: Maximum length of 1024.

The following data is returned in XML format by the service.
CreateReusableDelegationSetResponse (p. 61)

Root level tag for the CreateReusableDelegationSetResponse parameters.

Required: Yes

DelegationSet (p. 61)

A complex type that contains name server information.

Type: DelegationSet (p. 595) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).

DelegationSetAlreadyCreated

A delegation set with the same owner and caller reference combination has already been created.

HTTP Status Code: 400

DelegationSetAlreadyReusable

The specified delegation set has already been marked as reusable.

HTTP Status Code: 400

DelegationSetNotAvailable

You can create a hosted zone that has the same name as an existing hosted zone (example.com is common), but there is a limit to the number of hosted zones that have the same name. If you get this error, Amazon Route 53 has reached that limit. If you own the domain name and Route 53 generates this error, contact Customer Support.

HTTP Status Code: 400

HostedZoneNotFound

The specified HostedZone can't be found.

HTTP Status Code: 400

InvalidArgument

Parameter name is not valid.

HTTP Status Code: 400

InvalidInput

The input is not valid.

HTTP Status Code: 400

LimitsExceeded

This operation can't be completed either because the current account has reached the limit on reusable delegation sets that it can create or because you've reached the limit on the number of Amazon VPCs that you can associate with a private hosted zone. To get the current limit on the number of reusable delegation sets, see GetAccountLimit. To get the current limit on the number of Amazon VPCs that you can associate with a private hosted zone, see GetHostedZoneLimit. To request a higher limit, create a case with the AWS Support Center.

HTTP Status Code: 400
Examples

Example Request

This example illustrates one usage of CreateReusableDelegationSet.

```xml
POST /2013-04-01/delegationset HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
  <CallerReference>2017-03-15T01:36:41.958Z</CallerReference>
  <HostedZoneId>Z1D633PEXAMPLE</HostedZoneId>
</CreateReusableDelegationSetRequest>
```

Example Response

This example illustrates one usage of CreateReusableDelegationSet.

```xml
HTTP/1.1 201 Created
<?xml version="1.0" encoding="UTF-8"?>
  <DelegationSet>
    <Id>/delegationset/N1PA6795SAMPLE</Id>
    <CallerReference>2017-03-15T01:36:41.958Z</CallerReference>
    <NameServers>
      <NameServer>ns-2048.awsdns-64.com</NameServer>
      <NameServer>ns-2049.awsdns-65.net</NameServer>
      <NameServer>ns-2050.awsdns-66.org</NameServer>
      <NameServer>ns-2051.awsdns-67.co.uk</NameServer>
    </NameServers>
  </DelegationSet>
</CreateReusableDelegationSetResponse>
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
CreateTrafficPolicy
Service: Amazon Route 53

Creates a traffic policy, which you use to create multiple DNS resource record sets for one domain name (such as example.com) or one subdomain name (such as www.example.com).

Request Syntax

```
POST /2013-04-01/trafficpolicy HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
  <Comment>string</Comment>
  <Document>string</Document>
  <Name>string</Name>
</CreateTrafficPolicyRequest>
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in XML format.

CreateTrafficPolicyRequest (p. 64)

Root level tag for the CreateTrafficPolicyRequest parameters.

- Required: Yes

Comment (p. 64)

(Optional) Any comments that you want to include about the traffic policy.

- Type: String
- Length Constraints: Maximum length of 1024.

- Required: No

Document (p. 64)

The definition of this traffic policy in JSON format. For more information, see Traffic Policy Document Format.

- Type: String
- Length Constraints: Maximum length of 102400.

- Required: Yes

Name (p. 64)

The name of the traffic policy.

- Type: String
- Length Constraints: Maximum length of 512.
Required: Yes

Response Syntax

HTTP/1.1 201
Location: Location
<?xml version="1.0" encoding="UTF-8"?>
<CreateTrafficPolicyResponse>
  <TrafficPolicy>
    <Comment>string</Comment>
    <Document>string</Document>
    <Id>string</Id>
    <Name>string</Name>
    <Type>string</Type>
    <Version>integer</Version>
  </TrafficPolicy>
</CreateTrafficPolicyResponse>

Response Elements

If the action is successful, the service sends back an HTTP 201 response.

The response returns the following HTTP headers.

Location (p. 65)

A unique URL that represents a new traffic policy.

Length Constraints: Maximum length of 1024.

The following data is returned in XML format by the service.

CreateTrafficPolicyResponse (p. 65)

Root level tag for the CreateTrafficPolicyResponse parameters.

Required: Yes

TrafficPolicy (p. 65)

A complex type that contains settings for the new traffic policy.

Type: TrafficPolicy (p. 639) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).

InvalidInput

The input is not valid.

HTTP Status Code: 400

InvalidTrafficPolicyDocument

The format of the traffic policy document that you specified in the Document element is not valid.

HTTP Status Code: 400
TooManyTrafficPolicies

This traffic policy can't be created because the current account has reached the limit on the number of traffic policies.

For information about default limits, see Limits in the Amazon Route 53 Developer Guide.

To get the current limit for an account, see GetAccountLimit.

To request a higher limit, create a case with the AWS Support Center.

HTTP Status Code: 400

TrafficPolicyAlreadyExists

A traffic policy that has the same value for Name already exists.

HTTP Status Code: 409

Examples

Example Request

This example illustrates one usage of CreateTrafficPolicy.

```
POST /2013-04-01/trafficpolicy HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
  <Name>MyTrafficPolicy</Name>
  <Document>traffic policy definition in JSON format</Document>
  <Comment>First traffic policy</Comment>
</CreateTrafficPolicyRequest>
```

Example Response

This example illustrates one usage of CreateTrafficPolicy.

```
HTTP/1.1 200 OK
<?xml version="1.0" encoding="UTF-8"?>
  <TrafficPolicy>
    <Id>12345</Id>
    <Version>1</Version>
    <Name>MyTrafficPolicy</Name>
    <Type>A</Type>
    <Document>traffic policy definition in JSON format</Document>
    <Comment>First traffic policy</Comment>
  </TrafficPolicy>
</CreateTrafficPolicyResponse>
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
CreateTrafficPolicyInstance
Service: Amazon Route 53

Creates resource record sets in a specified hosted zone based on the settings in a specified traffic policy version. In addition, CreateTrafficPolicyInstance associates the resource record sets with a specified domain name (such as example.com) or subdomain name (such as www.example.com). Amazon Route 53 responds to DNS queries for the domain or subdomain name by using the resource record sets that CreateTrafficPolicyInstance created.

Request Syntax

```
POST /2013-04-01/trafficpolicyinstance HTTP/1.1
<?xml version="1.0" encoding="UTF-8"??>
  <HostedZoneId>string</HostedZoneId>
  <Name>string</Name>
  <TrafficPolicyId>string</TrafficPolicyId>
  <TrafficPolicyVersion>integer</TrafficPolicyVersion>
  <TTL>long</TTL>
</CreateTrafficPolicyInstanceRequest>
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in XML format.

CreateTrafficPolicyInstanceRequest (p. 68)

Root level tag for the CreateTrafficPolicyInstanceRequest parameters.

  Required: Yes

HostedZoneId (p. 68)

The ID of the hosted zone that you want Amazon Route 53 to create resource record sets in by using the configuration in a traffic policy.

  Type: String
  Length Constraints: Maximum length of 32.
  Required: Yes

Name (p. 68)

The domain name (such as example.com) or subdomain name (such as www.example.com) for which Amazon Route 53 responds to DNS queries by using the resource record sets that Route 53 creates for this traffic policy instance.

  Type: String
  Length Constraints: Maximum length of 1024.
  Required: Yes

TrafficPolicyId (p. 68)

The ID of the traffic policy that you want to use to create resource record sets in the specified hosted zone.
CreateTrafficPolicyInstance

Type: String
Required: Yes

TrafficPolicyVersion (p. 68)
The version of the traffic policy that you want to use to create resource record sets in the specified
hosted zone.
Type: Integer
Valid Range: Minimum value of 1. Maximum value of 1000.
Required: Yes

TTL (p. 68)
(Optional) The TTL that you want Amazon Route 53 to assign to all of the resource record sets that it
creates in the specified hosted zone.
Type: Long
Valid Range: Minimum value of 0. Maximum value of 2147483647.
Required: Yes

Response Syntax

HTTP/1.1 201
Location: Location
<?xml version="1.0" encoding="UTF-8"?>
<CreateTrafficPolicyInstanceResponse>
  <TrafficPolicyInstance>
    <HostedZoneId>string</HostedZoneId>
    <Id>string</Id>
    <Message>string</Message>
    <Name>string</Name>
    <State>string</State>
    <TrafficPolicyId>string</TrafficPolicyId>
    <TrafficPolicyType>string</TrafficPolicyType>
    <TrafficPolicyVersion>integer</TrafficPolicyVersion>
    <TTL>long</TTL>
  </TrafficPolicyInstance>
</CreateTrafficPolicyInstanceResponse>

Response Elements
If the action is successful, the service sends back an HTTP 201 response.
The response returns the following HTTP headers.

Location (p. 69)
A unique URL that represents a new traffic policy instance.
Length Constraints: Maximum length of 1024.

The following data is returned in XML format by the service.
CreateTrafficPolicyInstanceResponse (p. 69)

Root level tag for the CreateTrafficPolicyInstanceResponse parameters.

Required: Yes

TrafficPolicyInstance (p. 69)

A complex type that contains settings for the new traffic policy instance.

Type: TrafficPolicyInstance (p. 641) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).

InvalidInput

The input is not valid.

HTTP Status Code: 400

NoSuchHostedZone

No hosted zone exists with the ID that you specified.

HTTP Status Code: 404

NoSuchTrafficPolicy

No traffic policy exists with the specified ID.

HTTP Status Code: 404

TooManyTrafficPolicyInstances

This traffic policy instance can't be created because the current account has reached the limit on the number of traffic policy instances.

For information about default limits, see Limits in the Amazon Route 53 Developer Guide.

For information about how to get the current limit for an account, see GetAccountLimit.

To request a higher limit, create a case with the AWS Support Center.

HTTP Status Code: 400

TrafficPolicyInstanceAlreadyExists

There is already a traffic policy instance with the specified ID.

HTTP Status Code: 409

Examples

Example Request

This example illustrates one usage of CreateTrafficPolicyInstance.

```
POST /2013-04-01/trafficpolicyinstance HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
```
CreateTrafficPolicyInstance

Example Response

This example illustrates one usage of CreateTrafficPolicyInstance.

HTTP/1.1 200 OK
<?xml version="1.0" encoding="UTF-8"?>
  <TrafficPolicyInstance>
    <Id>12131415-abac-5432-caba-6f5e4d3c2b1a</Id>
    <HostedZoneId>Z1D633PJN98FT9</HostedZoneId>
    <Name>www.example.com</Name>
    <TTL>300</TTL>
    <State>Applied</State>
    <Message/>
    <TrafficPolicyId>12345678-abcd-9876-fedc-1a2b3c4de5f6</TrafficPolicyId>
    <TrafficPolicyType>A</TrafficPolicyType>
  </TrafficPolicyInstance>
</CreateTrafficPolicyInstanceResponse>

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
CreateTrafficPolicyVersion
Service: Amazon Route 53

Creates a new version of an existing traffic policy. When you create a new version of a traffic policy, you specify the ID of the traffic policy that you want to update and a JSON-formatted document that describes the new version. You use traffic policies to create multiple DNS resource record sets for one domain name (such as example.com) or one subdomain name (such as www.example.com). You can create a maximum of 1000 versions of a traffic policy. If you reach the limit and need to create another version, you'll need to start a new traffic policy.

Request Syntax

```
POST /2013-04-01/trafficpolicy/Id HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
  <Comment>string</Comment>
  <Document>string</Document>
</CreateTrafficPolicyVersionRequest>
```

URI Request Parameters

The request uses the following URI parameters.

Id (p. 72)

The ID of the traffic policy for which you want to create a new version.


Required: Yes

Request Body

The request accepts the following data in XML format.

CreateTrafficPolicyVersionRequest (p. 72)

Root level tag for the CreateTrafficPolicyVersionRequest parameters.

Required: Yes

Comment (p. 72)

The comment that you specified in the CreateTrafficPolicyVersion request, if any.

Type: String

Length Constraints: Maximum length of 1024.

Required: No

Document (p. 72)

The definition of this version of the traffic policy, in JSON format. You specified the JSON in the CreateTrafficPolicyVersion request. For more information about the JSON format, see CreateTrafficPolicy.

Type: String

Length Constraints: Maximum length of 102400.
Required: Yes

Response Syntax

HTTP/1.1 201
Location: Location
<?xml version="1.0" encoding="UTF-8"?>
<CreateTrafficPolicyVersionResponse>
  <TrafficPolicy>
    <Comment>string</Comment>
    <Document>string</Document>
    <Id>string</Id>
    <Name>string</Name>
    <Type>string</Type>
    <Version>integer</Version>
  </TrafficPolicy>
</CreateTrafficPolicyVersionResponse>

Response Elements

If the action is successful, the service sends back an HTTP 201 response.

The response returns the following HTTP headers.

Location (p. 73)

A unique URL that represents a new traffic policy version.
Length Constraints: Maximum length of 1024.

The following data is returned in XML format by the service.

CreateTrafficPolicyVersionResponse (p. 73)

Root level tag for the CreateTrafficPolicyVersionResponse parameters.
Required: Yes

TrafficPolicy (p. 73)

A complex type that contains settings for the new version of the traffic policy.
Type: TrafficPolicy (p. 639) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).

ConcurrentModification

Another user submitted a request to create, update, or delete the object at the same time that you did. Retry the request.

HTTP Status Code: 400

InvalidInput

The input is not valid.
HTTP Status Code: 400

**InvalidTrafficPolicyDocument**

The format of the traffic policy document that you specified in the `Document` element is not valid.

HTTP Status Code: 400

**NoSuchTrafficPolicy**

No traffic policy exists with the specified ID.

HTTP Status Code: 404

**TooManyTrafficPolicyVersionsForCurrentPolicy**

This traffic policy version can't be created because you've reached the limit of 1000 on the number of versions that you can create for the current traffic policy.

To create more traffic policy versions, you can use `GetTrafficPolicy` to get the traffic policy document for a specified traffic policy version, and then use `CreateTrafficPolicy` to create a new traffic policy using the traffic policy document.

HTTP Status Code: 400

Examples

Example Request

This example illustrates one usage of `CreateTrafficPolicyVersion`.

```xml
POST /2013-04-01/trafficpolicy/traffic policy ID HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
   <Document>updated traffic policy definition in JSON format</Document>
   <Comment>Added us-east-2 region to traffic policy</Comment>
</CreateTrafficPolicyVersionRequest>
```

Example Response

This example illustrates one usage of `CreateTrafficPolicyVersion`.

```xml
HTTP/1.1 200 OK
<?xml version="1.0" encoding="UTF-8"?>
   <TrafficPolicy>
      <Id>12345678-abcd-9876-fedc-1a2b3c4de5f6</Id>
      <Version>2</Version>
      <Name>MyTrafficPolicy</Name>
      <Type>A</Type>
      <Document>updated traffic policy definition in JSON format</Document>
      <Comment>Added us-east-2 region to traffic policy</Comment>
   </TrafficPolicy>
</CreateTrafficPolicyVersionResponse>
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
• AWS SDK for .NET
• AWS SDK for C++
• AWS SDK for Go
• AWS SDK for Java V2
• AWS SDK for JavaScript
• AWS SDK for PHP V3
• AWS SDK for Python
• AWS SDK for Ruby V3
CreateVPCAssociationAuthorization

Service: Amazon Route 53

Authorizes the AWS account that created a specified VPC to submit an AssociateVPCWithHostedZone request to associate the VPC with a specified hosted zone that was created by a different account. To submit a CreateVPCAssociationAuthorization request, you must use the account that created the hosted zone. After you authorize the association, use the account that created the VPC to submit an AssociateVPCWithHostedZone request.

Note
If you want to associate multiple VPCs that you created by using one account with a hosted zone that you created by using a different account, you must submit one authorization request for each VPC.

Request Syntax

POST /2013-04-01/hostedzone/Id/authorizevpcassociation HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
  <VPC>
    <VPCId>string</VPCId>
    <VPCRegion>string</VPCRegion>
  </VPC>
</CreateVPCAssociationAuthorizationRequest>

URI Request Parameters

The request uses the following URI parameters.

Id (p. 76)

The ID of the private hosted zone that you want to authorize associating a VPC with.

Length Constraints: Maximum length of 32.

Required: Yes

Request Body

The request accepts the following data in XML format.

CreateVPCAssociationAuthorizationRequest (p. 76)

Root level tag for the CreateVPCAssociationAuthorizationRequest parameters.

Required: Yes

VPC (p. 76)

A complex type that contains the VPC ID and region for the VPC that you want to authorize associating with your hosted zone.

Type: VPC (p. 646) object

Required: Yes
Response Syntax

HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<CreateVPCAssociationAuthorizationResponse>
  <HostedZoneId>string</HostedZoneId>
  <VPC>
    <VPCId>string</VPCId>
    <VPCRegion>string</VPCRegion>
  </VPC>
</CreateVPCAssociationAuthorizationResponse>

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

CreateVPCAssociationAuthorizationResponse (p. 77)

Root level tag for the CreateVPCAssociationAuthorizationResponse parameters.

Required: Yes

HostedZoneId (p. 77)

The ID of the hosted zone that you authorized associating a VPC with.

Type: String

Length Constraints: Maximum length of 32.

VPC (p. 77)

The VPC that you authorized associating with a hosted zone.

Type: VPC (p. 646) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).

ConcurrentModification

Another user submitted a request to create, update, or delete the object at the same time that you did. Retry the request.

HTTP Status Code: 400

InvalidInput

The input is not valid.

HTTP Status Code: 400

InvalidVPCId

The VPC ID that you specified either isn't a valid ID or the current account is not authorized to access this VPC.

HTTP Status Code: 400
NoSuchHostedZone

No hosted zone exists with the ID that you specified.

HTTP Status Code: 404

TooManyVPCAssociationAuthorizations

You've created the maximum number of authorizations that can be created for the specified
hosted zone. To authorize another VPC to be associated with the hosted zone, submit a
DeleteVPCAssociationAuthorization request to remove an existing authorization. To get a list
of existing authorizations, submit a ListVPCAssociationAuthorizations request.

HTTP Status Code: 400

Examples

Example request

This example illustrates one usage of CreateVPCAssociationAuthorization.

```
POST /2013-04-01/hostedzone/Z1PA6795UKMFR9/authorizevpcassociation HTTP/1.1
  <VPC>
    <VPCId>vpc-a1b2c3d4e5</VPCId>
    <VPCRegion>us-east-2</VPCRegion>
  </VPC>
</CreateVPCAssociationAuthorizationRequest>
```

Example Response

This example illustrates one usage of CreateVPCAssociationAuthorization.

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<CreateVPCAssociationAuthorizationResponse>
  <HostedZoneId>Z1PA6795UKMFR9</HostedZoneId>
  <VPC>
    <VPCId>vpc-a1b2c3d4e5</VPCId>
    <VPCRegion>us-east-2</VPCRegion>
  </VPC>
</CreateVPCAssociationAuthorizationResponse>
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
• AWS SDK for Python
• AWS SDK for Ruby V3
DeactivateKeySigningKey

Service: Amazon Route 53

Deactivates a key-signing key (KSK) so that it will not be used for signing by DNSSEC. This operation changes the KSK status to INACTIVE.

Request Syntax

```
POST /2013-04-01/keysigningkey/HostedZoneId/Name/deactivate HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

**HostedZoneId (p. 80)**

A unique string used to identify a hosted zone.

- Length Constraints: Maximum length of 32.
- Required: Yes

**Name (p. 80)**

A string used to identify a key-signing key (KSK).

- Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<DeactivateKeySigningKeyResponse>
  <ChangeInfo>
    <Comment>string</Comment>
    <Id>string</Id>
    <Status>string</Status>
    <SubmittedAt>timestamp</SubmittedAt>
  </ChangeInfo>
</DeactivateKeySigningKeyResponse>
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

**DeactivateKeySigningKeyResponse (p. 80)**

Root level tag for the DeactivateKeySigningKeyResponse parameters.
DeactivateKeySigningKey

Required: Yes

**ChangeInfo (p. 80)**

A complex type that describes change information about changes made to your hosted zone.

Type: ChangeInfo (p. 592) object

**Errors**

For information about the errors that are common to all actions, see Common Errors (p. 714).

**ConcurrentModification**

Another user submitted a request to create, update, or delete the object at the same time that you did. Retry the request.

HTTP Status Code: 400

**InvalidInput**

The input is not valid.

HTTP Status Code: 400

**InvalidKeySigningKeyStatus**

The key-signing key (KSK) status isn't valid or another KSK has the status INTERNAL_FAILURE.

HTTP Status Code: 400

**InvalidSigningStatus**

Your hosted zone status isn't valid for this operation. In the hosted zone, change the status to enable DNSSEC or disable DNSSEC.

HTTP Status Code: 400

**KeySigningKeyInParentDSRecord**

The key-signing key (KSK) is specified in a parent DS record.

HTTP Status Code: 400

**KeySigningKeyInUse**

The key-signing key (KSK) that you specified can't be deactivated because it's the only KSK for a currently-enabled DNSSEC. Disable DNSSEC signing, or add or enable another KSK.

HTTP Status Code: 400

**NoSuchKeySigningKey**

The specified key-signing key (KSK) doesn't exist.

HTTP Status Code: 404

**See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
DeleteHealthCheck

Service: Amazon Route 53

Deletes a health check.

**Important**

Amazon Route 53 does not prevent you from deleting a health check even if the health check is associated with one or more resource record sets. If you delete a health check and you don't update the associated resource record sets, the future status of the health check can't be predicted and may change. This will affect the routing of DNS queries for your DNS failover configuration. For more information, see Replacing and Deleting Health Checks in the Amazon Route 53 Developer Guide.

If you're using AWS Cloud Map and you configured Cloud Map to create a Route 53 health check when you register an instance, you can't use the Route 53 DeleteHealthCheck command to delete the health check. The health check is deleted automatically when you deregister the instance; there can be a delay of several hours before the health check is deleted from Route 53.

**Request Syntax**

```
DELETE /2013-04-01/healthcheck/HealthCheckId HTTP/1.1
```

**URI Request Parameters**

The request uses the following URI parameters.

**HealthCheckId (p. 83)**

- The ID of the health check that you want to delete.
- Length Constraints: Maximum length of 64.
- Required: Yes

**Request Body**

The request does not have a request body.

**Response Syntax**

```
HTTP/1.1 200
```

**Response Elements**

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

**Errors**

For information about the errors that are common to all actions, see Common Errors (p. 714).

**HealthCheckInUse**

*This error has been deprecated.*
Examples

Example Request

This example illustrates one usage of DeleteHealthCheck.

```
DELETE /2013-04-01/healthcheck/abcdef11-2222-3333-4444-555555fedcba
```

Example Response

This example illustrates one usage of DeleteHealthCheck.

```
HTTP/1.1 200 OK
<?xml version="1.0" encoding="UTF-8"?>
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
DeleteHostedZone

Service: Amazon Route 53

Deletes a hosted zone.

If the hosted zone was created by another service, such as AWS Cloud Map, see Deleting Public Hosted Zones That Were Created by Another Service in the Amazon Route 53 Developer Guide for information about how to delete it. (The process is the same for public and private hosted zones that were created by another service.)

If you want to keep your domain registration but you want to stop routing internet traffic to your website or web application, we recommend that you delete resource record sets in the hosted zone instead of deleting the hosted zone.

Important
If you delete a hosted zone, you can't undelete it. You must create a new hosted zone and update the name servers for your domain registration, which can require up to 48 hours to take effect. (If you delegated responsibility for a subdomain to a hosted zone and you delete the child hosted zone, you must update the name servers in the parent hosted zone.) In addition, if you delete a hosted zone, someone could hijack the domain and route traffic to their own resources using your domain name.

If you want to avoid the monthly charge for the hosted zone, you can transfer DNS service for the domain to a free DNS service. When you transfer DNS service, you have to update the name servers for the domain registration. If the domain is registered with Route 53, see UpdateDomainNameservers for information about how to replace Route 53 name servers with name servers for the new DNS service. If the domain is registered with another registrar, use the method provided by the registrar to update name servers for the domain registration. For more information, perform an internet search on “free DNS service.”

You can delete a hosted zone only if it contains only the default SOA record and NS resource record sets. If the hosted zone contains other resource record sets, you must delete them before you can delete the hosted zone. If you try to delete a hosted zone that contains other resource record sets, the request fails, and Route 53 returns a HostedZoneNotEmpty error. For information about deleting records from your hosted zone, see ChangeResourceRecordSets.

To verify that the hosted zone has been deleted, do one of the following:

- Use the GetHostedZone action to request information about the hosted zone.
- Use the ListHostedZones action to get a list of the hosted zones associated with the current AWS account.

Request Syntax

DELETE /2013-04-01/hostedzone/Id HTTP/1.1

URI Request Parameters

The request uses the following URI parameters.

Id (p. 85)

The ID of the hosted zone you want to delete.

Length Constraints: Maximum length of 32.

Required: Yes
Request Body
The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<DeleteHostedZoneResponse>
  <ChangeInfo>
    <Comment>string</Comment>
    <Id>string</Id>
    <Status>string</Status>
    <SubmittedAt>timestamp</SubmittedAt>
  </ChangeInfo>
</DeleteHostedZoneResponse>
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

**DeleteHostedZoneResponse (p. 86)**

Root level tag for the DeleteHostedZoneResponse parameters.

Required: Yes

**ChangeInfo (p. 86)**

A complex type that contains the ID, the status, and the date and time of a request to delete a hosted zone.

Type: ChangeInfo (p. 592) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).

**HostedZoneNotEmpty**

The hosted zone contains resource records that are not SOA or NS records.

HTTP Status Code: 400

**InvalidDomainName**

The specified domain name is not valid.

HTTP Status Code: 400

**InvalidInput**

The input is not valid.

HTTP Status Code: 400

**NoSuchHostedZone**

No hosted zone exists with the ID that you specified.
HTTP Status Code: 404

PriorRequestNotComplete

If Amazon Route 53 can't process a request before the next request arrives, it will reject subsequent requests for the same hosted zone and return an HTTP 400 error (Bad request). If Route 53 returns this error repeatedly for the same request, we recommend that you wait, in intervals of increasing duration, before you try the request again.

HTTP Status Code: 400

Examples

Example Request

This example illustrates one usage of DeleteHostedZone.

DELETE /2013-04-01/hostedzone/Z1PA6795UKMFR9

Example Response

This example illustrates one usage of DeleteHostedZone.

HTTP/1.1 200 OK
<?xml version="1.0" encoding="UTF-8"?>
  <ChangeInfo>
    <Id>/change/C1PA6795UKMFR9</Id>
    <Status>PENDING</Status>
    <SubmittedAt>2017-03-10T01:36:41.958Z</SubmittedAt>
  </ChangeInfo>
</DeleteHostedZoneResponse>

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
DeleteKeySigningKey

Service: Amazon Route 53

Deletes a key-signing key (KSK). Before you can delete a KSK, you must deactivate it. The KSK must be deactivated before you can delete it regardless of whether the hosted zone is enabled for DNSSEC signing.

You can use DeactivateKeySigningKey to deactivate the key before you delete it.

Use GetDNSSEC to verify that the KSK is in an INACTIVE status.

Request Syntax

```
DELETE /2013-04-01/keysigningkey/HostedZoneId/Name HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

**HostedZoneId** *(p. 88)*

A unique string used to identify a hosted zone.

Length Constraints: Maximum length of 32.

Required: Yes

**Name** *(p. 88)*

A string used to identify a key-signing key (KSK).


Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
/DeleteKeySigningKeyResponse>
  <ChangeInfo>
    <Comment>string</Comment>
    <Id>string</Id>
    <Status>string</Status>
    <SubmittedAt>timestamp</SubmittedAt>
  </ChangeInfo>
</DeleteKeySigningKeyResponse>
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.
The following data is returned in XML format by the service.

**DeleteKeySigningKeyResponse (p. 88)**

Root level tag for the DeleteKeySigningKeyResponse parameters.

Required: Yes

**ChangeInfo (p. 88)**

A complex type that describes change information about changes made to your hosted zone.

Type: ChangeInfo (p. 592) object

**Errors**

For information about the errors that are common to all actions, see Common Errors (p. 714).

**ConcurrentModification**

Another user submitted a request to create, update, or delete the object at the same time that you did. Retry the request.

HTTP Status Code: 400

**InvalidInput**

The input is not valid.

HTTP Status Code: 400

**InvalidKeySigningKeyStatus**

The key-signing key (KSK) status isn't valid or another KSK has the status INTERNAL_FAILURE.

HTTP Status Code: 400

**InvalidKMSArn**

The KeyManagementServiceArn that you specified isn't valid to use with DNSSEC signing.

HTTP Status Code: 400

**InvalidSigningStatus**

Your hosted zone status isn't valid for this operation. In the hosted zone, change the status to enable DNSSEC or disable DNSSEC.

HTTP Status Code: 400

**NoSuchKeySigningKey**

The specified key-signing key (KSK) doesn't exist.

HTTP Status Code: 404

**See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
• AWS SDK for C++
• AWS SDK for Go
• AWS SDK for Java V2
• AWS SDK for JavaScript
• AWS SDK for PHP V3
• AWS SDK for Python
• AWS SDK for Ruby V3
DeleteQueryLoggingConfig
Service: Amazon Route 53

Deletes a configuration for DNS query logging. If you delete a configuration, Amazon Route 53 stops sending query logs to CloudWatch Logs. Route 53 doesn't delete any logs that are already in CloudWatch Logs.

For more information about DNS query logs, see CreateQueryLoggingConfig.

Request Syntax

DELETE /2013-04-01/queryloggingconfig/Id HTTP/1.1

URI Request Parameters

The request uses the following URI parameters.

Id (p. 91)

The ID of the configuration that you want to delete.


Required: Yes

Request Body

The request does not have a request body.

Response Syntax

HTTP/1.1 200

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).

ConcurrentModification

Another user submitted a request to create, update, or delete the object at the same time that you did. Retry the request.

HTTP Status Code: 400

InvalidInput

The input is not valid.

HTTP Status Code: 400
NoSuchQueryLoggingConfig

There is no DNS query logging configuration with the specified ID.

HTTP Status Code: 404

Examples

Example Request

The following request deletes the configuration with the ID `87654321-dcba-1234-abcd-1a2b3c4d5e6f`.

```
DELETE /2013-04-01/queryloggingconfig HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
  <Id>87654321-dcba-1234-abcd-1a2b3c4d5e6f</Id>
</DeleteQueryLoggingConfigRequest>
```

Example Response

This example illustrates one usage of DeleteQueryLoggingConfig.

```
HTTP/1.1 200 OK
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
DeleteReusableDelegationSet

Service: Amazon Route 53

Deletes a reusable delegation set.

**Important**
You can delete a reusable delegation set only if it isn't associated with any hosted zones.

To verify that the reusable delegation set is not associated with any hosted zones, submit a GetReusableDelegationSet request and specify the ID of the reusable delegation set that you want to delete.

**Request Syntax**

```
DELETE /2013-04-01/delegationset/Id HTTP/1.1
```

**URI Request Parameters**

The request uses the following URI parameters.

**Id**

The ID of the reusable delegation set that you want to delete.

Length Constraints: Maximum length of 32.

Required: Yes

**Request Body**

The request does not have a request body.

**Response Syntax**

```
HTTP/1.1 200
```

**Response Elements**

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

**Errors**

For information about the errors that are common to all actions, see Common Errors (p. 714).

**DelegationSetInUse**

The specified delegation contains associated hosted zones which must be deleted before the reusable delegation set can be deleted.

HTTP Status Code: 400

**DelegationSetNotReusable**

A reusable delegation set with the specified ID does not exist.
HTTP Status Code: 400

InvalidInput

The input is not valid.

HTTP Status Code: 400

NoSuchDelegationSet

A reusable delegation set with the specified ID does not exist.

HTTP Status Code: 400

Examples

Example Request

This example illustrates one usage of DeleteReusableDelegationSet.

DELETE /2013-04-01/delegationset/N1PA6795SAMPLE

Example Response

This example illustrates one usage of DeleteReusableDelegationSet.

HTTP/1.1 200 OK
<?xml version="1.0" encoding="UTF-8"?>

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
DeleteTrafficPolicy

Service: Amazon Route 53

Deletes a traffic policy.

When you delete a traffic policy, Route 53 sets a flag on the policy to indicate that it has been deleted. However, Route 53 never fully deletes the traffic policy. Note the following:

- Deleted traffic policies aren't listed if you run ListTrafficPolicies.
- There's no way to get a list of deleted policies.
- If you retain the ID of the policy, you can get information about the policy, including the traffic policy document, by running GetTrafficPolicy.

Request Syntax

DELETE /2013-04-01/trafficpolicy/Id/Version HTTP/1.1

URI Request Parameters

The request uses the following URI parameters.

Id  (p. 95)

The ID of the traffic policy that you want to delete.


Required: Yes

Version  (p. 95)

The version number of the traffic policy that you want to delete.

Valid Range: Minimum value of 1. Maximum value of 1000.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

HTTP/1.1 200

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).
ConcurrentModification

Another user submitted a request to create, update, or delete the object at the same time that you did. Retry the request.

HTTP Status Code: 400

InvalidInput

The input is not valid.

HTTP Status Code: 400

NoSuchTrafficPolicy

No traffic policy exists with the specified ID.

HTTP Status Code: 404

TrafficPolicyInUse

One or more traffic policy instances were created by using the specified traffic policy.

HTTP Status Code: 400

Examples

Example Request

This example illustrates one usage of DeleteTrafficPolicy.

DELETE /2013-04-01/trafficpolicy/12345678-abcd-9876-fedc-1a2b3c4de5f6/2

Example Response

This example illustrates one usage of DeleteTrafficPolicy.

HTTP/1.1 200 OK
<?xml version="1.0" encoding="UTF-8"?>
</DeleteTrafficPolicyResponse>

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
DeleteTrafficPolicyInstance
Service: Amazon Route 53

Deletes a traffic policy instance and all of the resource record sets that Amazon Route 53 created when you created the instance.

Note
In the Route 53 console, traffic policy instances are known as policy records.

Request Syntax

```
DELETE /2013-04-01/trafficpolicyinstance/Id HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

Id (p. 97)

The ID of the traffic policy instance that you want to delete.

Important
When you delete a traffic policy instance, Amazon Route 53 also deletes all of the resource record sets that were created when you created the traffic policy instance.


Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).

InvalidInput

The input is not valid.

HTTP Status Code: 400

NoSuchTrafficPolicyInstance

No traffic policy instance exists with the specified ID.

HTTP Status Code: 404
PriorRequestNotComplete

If Amazon Route 53 can't process a request before the next request arrives, it will reject subsequent requests for the same hosted zone and return an HTTP 400 error (Bad request). If Route 53 returns this error repeatedly for the same request, we recommend that you wait, in intervals of increasing duration, before you try the request again.

HTTP Status Code: 400

Examples

Example Request

This example illustrates one usage of DeleteTrafficPolicyInstance.

```
DELETE /2013-04-01/trafficpolicyinstance/12131415-abac-5432-caba-6f5e4d3c2b1a
```

Example Response

This example illustrates one usage of DeleteTrafficPolicyInstance.

```
HTTP/1.1 200 OK
<?xml version="1.0" encoding="UTF-8"?>
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
DeleteVPCAssociationAuthorization

Service: Amazon Route 53

Removes authorization to submit an AssociateVPCWithHostedZone request to associate a specified VPC with a hosted zone that was created by a different account. You must use the account that created the hosted zone to submit a DeleteVPCAssociationAuthorization request.

**Important**
Sending this request only prevents the AWS account that created the VPC from associating the VPC with the Amazon Route 53 hosted zone in the future. If the VPC is already associated with the hosted zone, DeleteVPCAssociationAuthorization won't disassociate the VPC from the hosted zone. If you want to delete an existing association, use DisassociateVPCFromHostedZone.

Request Syntax

POST /2013-04-01/hostedzone/\Id\/deauthorizevpcassociation HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
  <VPC>
    <VPCId>string</VPCId>
    <VPCRegion>string</VPCRegion>
  </VPC>
</DeleteVPCAssociationAuthorizationRequest>

URI Request Parameters

The request uses the following URI parameters.

**Id (p. 99)**

When removing authorization to associate a VPC that was created by one AWS account with a hosted zone that was created with a different AWS account, the ID of the hosted zone.

Length Constraints: Maximum length of 32.

Required: Yes

Request Body

The request accepts the following data in XML format.

**DeleteVPCAssociationAuthorizationRequest (p. 99)**

Root level tag for the DeleteVPCAssociationAuthorizationRequest parameters.

Required: Yes

**VPC (p. 99)**

When removing authorization to associate a VPC that was created by one AWS account with a hosted zone that was created with a different AWS account, a complex type that includes the ID and region of the VPC.

Type: **VPC (p. 646)** object

Required: Yes
Response Syntax

HTTP/1.1  200

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).

ConcurrentModification

Another user submitted a request to create, update, or delete the object at the same time that you did. Retry the request.

HTTP Status Code: 400

InvalidInput

The input is not valid.

HTTP Status Code: 400

InvalidVPCId

The VPC ID that you specified either isn't a valid ID or the current account is not authorized to access this VPC.

HTTP Status Code: 400

NoSuchHostedZone

No hosted zone exists with the ID that you specified.

HTTP Status Code: 404

VPCAssociationAuthorizationNotFound

The VPC that you specified is not authorized to be associated with the hosted zone.

HTTP Status Code: 404

Examples

Example Request

This example illustrates one usage of DeleteVPCAssociationAuthorization.

POST  /2013-04-01/hostedzone/Z1PA6795UKMFR9/deauthorizevpcassociation HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
  <VPC>
    <VPCId>vpc-a1b2c3d4e5</VPCId>
    <VPCRegion>us-east-2</VPCRegion>
  </VPC>
</DeleteVPCAssociationAuthorizationRequest>
Example Response

This example illustrates one usage of DeleteVPCAssociationAuthorization.

HTTP/1.1 200

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
DisableHostedZoneDNSSEC
Service: Amazon Route 53

Disables DNSSEC signing in a specific hosted zone. This action does not deactivate any key-signing keys (KSKs) that are active in the hosted zone.

Request Syntax

| POST /2013-04-01/hostedzone/Id/disable-dnssec HTTP/1.1 |

URI Request Parameters

The request uses the following URI parameters.

Id (p. 102)
A unique string used to identify a hosted zone.
Length Constraints: Maximum length of 32.
Required: Yes

Request Body

The request does not have a request body.

Response Syntax

HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<DisableHostedZoneDNSSECResponse>
  <ChangeInfo>
    <Comment>string</Comment>
    <Id>string</Id>
    <Status>string</Status>
    <SubmittedAt>timestamp</SubmittedAt>
  </ChangeInfo>
</DisableHostedZoneDNSSECResponse>

Response Elements

If the action is successful, the service sends back an HTTP 200 response.
The following data is returned in XML format by the service.

DisableHostedZoneDNSSECResponse (p. 102)
Root level tag for the DisableHostedZoneDNSSECResponse parameters.
Required: Yes

ChangeInfo (p. 102)
A complex type that describes change information about changes made to your hosted zone.
Type: ChangeInfo (p. 592) object
Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).

**ConcurrentModification**

Another user submitted a request to create, update, or delete the object at the same time that you did. Retry the request.

HTTP Status Code: 400

**DNSSECNotFound**

The hosted zone doesn't have any DNSSEC resources.

HTTP Status Code: 400

**InvalidArgument**

Parameter name is not valid.

HTTP Status Code: 400

**InvalidInput**

The input is not valid.

HTTP Status Code: 400

**InvalidKeySigningKeyStatus**

The key-signing key (KSK) status isn't valid or another KSK has the status INTERNAL_FAILURE.

HTTP Status Code: 400

**InvalidKMSArn**

The KeyManagementServiceArn that you specified isn't valid to use with DNSSEC signing.

HTTP Status Code: 400

**KeySigningKeyInParentDSRecord**

The key-signing key (KSK) is specified in a parent DS record.

HTTP Status Code: 400

**NoSuchHostedZone**

No hosted zone exists with the ID that you specified.

HTTP Status Code: 404

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
• AWS SDK for PHP V3
• AWS SDK for Python
• AWS SDK for Ruby V3
DisassociateVPCFromHostedZone

Service: Amazon Route 53

Disassociates an Amazon Virtual Private Cloud (Amazon VPC) from an Amazon Route 53 private hosted zone. Note the following:

- You can't disassociate the last Amazon VPC from a private hosted zone.
- You can't convert a private hosted zone into a public hosted zone.
- You can submit a DisassociateVPCFromHostedZone request using either the account that created the hosted zone or the account that created the Amazon VPC.
- Some services, such as AWS Cloud Map and Amazon Elastic File System (Amazon EFS) automatically create hosted zones and associate VPCs with the hosted zones. A service can create a hosted zone using your account or using its own account. You can disassociate a VPC from a hosted zone only if the service created the hosted zone using your account.

When you run DisassociateVPCFromHostedZone, if the hosted zone has a value for OwningAccount, you can use DisassociateVPCFromHostedZone. If the hosted zone has a value for OwningService, you can't use DisassociateVPCFromHostedZone.

Request Syntax

POST /2013-04-01/hostedzone/Id/disassociatevpc HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
  <Comment>string</Comment>
  <VPC>
    <VPCId>string</VPCId>
    <VPCRegion>string</VPCRegion>
  </VPC>
</DisassociateVPCFromHostedZoneRequest>

URI Request Parameters

The request uses the following URI parameters.

Id (p. 105)

The ID of the private hosted zone that you want to disassociate a VPC from.

Length Constraints: Maximum length of 32.

Required: Yes

Request Body

The request accepts the following data in XML format.

DisassociateVPCFromHostedZoneRequest (p. 105)

Root level tag for the DisassociateVPCFromHostedZoneRequest parameters.

Required: Yes

Comment (p. 105)

Optional: A comment about the disassociation request.
Type: String
Required: No

**VPC (p. 105)**

A complex type that contains information about the VPC that you're disassociating from the specified hosted zone.

Type: VPC (p. 646) object
Required: Yes

### Response Syntax

```xml
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<DisassociateVPCFromHostedZoneResponse>
  <ChangeInfo>
    <Comment>string</Comment>
    <Id>string</Id>
    <Status>string</Status>
    <SubmittedAt>timestamp</SubmittedAt>
  </ChangeInfo>
</DisassociateVPCFromHostedZoneResponse>
```

### Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

**DisassociateVPCFromHostedZoneResponse (p. 106)**

Root level tag for the DisassociateVPCFromHostedZoneResponse parameters.

Required: Yes

**ChangeInfo (p. 106)**

A complex type that describes the changes made to the specified private hosted zone.

Type: ChangeInfo (p. 592) object

### Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).

**InvalidInput**

The input is not valid.

HTTP Status Code: 400

**InvalidVPCId**

The VPC ID that you specified either isn't a valid ID or the current account is not authorized to access this VPC.

HTTP Status Code: 400
LastVPCAssociation

The VPC that you're trying to disassociate from the private hosted zone is the last VPC that is associated with the hosted zone. Amazon Route 53 doesn't support disassociating the last VPC from a hosted zone.

HTTP Status Code: 400

NoSuchHostedZone

No hosted zone exists with the ID that you specified.

HTTP Status Code: 404

VPCAssociationNotFound

The specified VPC and hosted zone are not currently associated.

HTTP Status Code: 404

Examples

Example Request

This example illustrates one usage of DisassociateVPCFromHostedZone.

```
POST /2013-04-01/hostedzone/Z1PA6795UKMFR9/disassociatevpc HTTP/1.1
<?xml version="1.0"?><VPC><VPCId>vpc-a1b2c3d4e5</VPCId><VPCRegion>us-east-2</VPCRegion></VPC></DisassociateVPCFromHostedZoneRequest>
```

Example Response

This example illustrates one usage of DisassociateVPCFromHostedZone.

```
HTTP/1.1 200 OK
<ChangeInfo><Id>/change/a1b2c3d4</Id><Status>INSYNC</Status><SubmittedAt>2017-03-31T01:36:41.958Z</SubmittedAt></ChangeInfo></DisassociateVPCFromHostedZoneResponse>
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
• AWS SDK for JavaScript
• AWS SDK for PHP V3
• AWS SDK for Python
• AWS SDK for Ruby V3
EnableHostedZoneDNSSEC
Service: Amazon Route 53

Enables DNSSEC signing in a specific hosted zone.

Request Syntax

```
POST /2013-04-01/hostedzone/Id/enable-dnssec HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

Id (p. 109)

A unique string used to identify a hosted zone.

Length Constraints: Maximum length of 32.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<EnableHostedZoneDNSSECResponse>
  <ChangeInfo>
    <Comment>string</Comment>
    <Id>string</Id>
    <Status>string</Status>
    <SubmittedAt>timestamp</SubmittedAt>
  </ChangeInfo>
</EnableHostedZoneDNSSECResponse>
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

EnableHostedZoneDNSSECResponse (p. 109)

Root level tag for the EnableHostedZoneDNSSECResponse parameters.

Required: Yes

ChangeInfo (p. 109)

A complex type that describes change information about changes made to your hosted zone.

Type: ChangeInfo (p. 592) object
Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).

**ConcurrentModification**

Another user submitted a request to create, update, or delete the object at the same time that you did. Retry the request.

HTTP Status Code: 400

**DNSSECNotFound**

The hosted zone doesn't have any DNSSEC resources.

HTTP Status Code: 400

**HostedZonePartiallyDelegated**

The hosted zone nameservers don't match the parent nameservers. The hosted zone and parent must have the same nameservers.

HTTP Status Code: 400

**InvalidArgument**

Parameter name is not valid.

HTTP Status Code: 400

**InvalidInput**

The input is not valid.

HTTP Status Code: 400

**InvalidKeySigningKeyStatus**

The key-signing key (KSK) status isn't valid or another KSK has the status INTERNAL_FAILURE.

HTTP Status Code: 400

**InvalidKMSArn**

The KeyManagementServiceArn that you specified isn't valid to use with DNSSEC signing.

HTTP Status Code: 400

**KeySigningKeyWithActiveStatusNotFound**

A key-signing key (KSK) with ACTIVE status wasn't found.

HTTP Status Code: 400

**NoSuchHostedZone**

No hosted zone exists with the ID that you specified.

HTTP Status Code: 404

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
• AWS SDK for .NET
• AWS SDK for C++
• AWS SDK for Go
• AWS SDK for Java V2
• AWS SDK for JavaScript
• AWS SDK for PHP V3
• AWS SDK for Python
• AWS SDK for Ruby V3
GetAccountLimit

Service: Amazon Route 53

Gets the specified limit for the current account, for example, the maximum number of health checks that you can create using the account.

For the default limit, see Limits in the Amazon Route 53 Developer Guide. To request a higher limit, open a case.

**Note**

You can also view account limits in AWS Trusted Advisor. Sign in to the AWS Management Console and open the Trusted Advisor console at https://console.aws.amazon.com/trustedadvisor/. Then choose Service limits in the navigation pane.

**Request Syntax**

```
GET /2013-04-01/accountlimit/*Type HTTP/1.1
```

**URI Request Parameters**

The request uses the following URI parameters.

**Type (p. 112)**

The limit that you want to get. Valid values include the following:

- `MAX_HEALTH_CHECKS_BY_OWNER`: The maximum number of health checks that you can create using the current account.
- `MAX_HOSTED_ZONES_BY_OWNER`: The maximum number of hosted zones that you can create using the current account.
- `MAX_REUSABLE_DELEGATION_SETS_BY_OWNER`: The maximum number of reusable delegation sets that you can create using the current account.
- `MAX_TRAFFIC_POLICIES_BY_OWNER`: The maximum number of traffic policies that you can create using the current account.
- `MAX_TRAFFIC_POLICY_INSTANCES_BY_OWNER`: The maximum number of traffic policy instances that you can create using the current account. (Traffic policy instances are referred to as traffic flow policy records in the Amazon Route 53 console.)

Valid Values: `MAX_HEALTH_CHECKS_BY_OWNER` | `MAX_HOSTED_ZONES_BY_OWNER` | `MAX_REUSABLE_DELEGATION_SETS_BY_OWNER` | `MAX_TRAFFIC_POLICIES_BY_OWNER` | `MAX_TRAFFIC_POLICY_INSTANCES_BY_OWNER`

Required: Yes

**Request Body**

The request does not have a request body.

**Response Syntax**

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<GetAccountLimitResponse>
  <Count>long</Count>
  <Limit>
```

112
Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

**GetAccountLimitResponse (p. 112)**

Root level tag for the GetAccountLimitResponse parameters.

Required: Yes

**Count (p. 112)**

The current number of entities that you have created of the specified type. For example, if you specified MAX_HEALTH_CHECKS_BY_OWNER for the value of Type in the request, the value of Count is the current number of health checks that you have created using the current account.

Type: Long

Valid Range: Minimum value of 0.

**Limit (p. 112)**

The current setting for the specified limit. For example, if you specified MAX_HEALTH_CHECKS_BY_OWNER for the value of Type in the request, the value of Limit is the maximum number of health checks that you can create using the current account.

Type: AccountLimit (p. 583) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).

**InvalidInput**

The input is not valid.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
• AWS SDK for Ruby V3
GetChange

Service: Amazon Route 53

Returns the current status of a change batch request. The status is one of the following values:

- **PENDING** indicates that the changes in this request have not propagated to all Amazon Route 53 DNS servers. This is the initial status of all change batch requests.
- **INSYNC** indicates that the changes have propagated to all Route 53 DNS servers.

Request Syntax

```
GET /2013-04-01/change/Id HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

**Id (p. 115)**

The ID of the change batch request. The value that you specify here is the value that
ChangeResourceRecordSets returned in the Id element when you submitted the request.

Length Constraints: Maximum length of 32.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<GetChangeResponse>
  <ChangeInfo>
    <Comment>string</Comment>
    <Id>string</Id>
    <Status>string</Status>
    <SubmittedAt>timestamp</SubmittedAt>
  </ChangeInfo>
</GetChangeResponse>
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

**GetChangeResponse (p. 115)**

Root level tag for the GetChangeResponse parameters.

Required: Yes
**ChangelInfo (p. 115)**

A complex type that contains information about the specified change batch.

Type: ChangelInfo (p. 592) object

**Errors**

For information about the errors that are common to all actions, see Common Errors (p. 714).

- **InvalidInput**
  
  The input is not valid.
  
  HTTP Status Code: 400

- **NoSuchChange**
  
  A change with the specified change ID does not exist.
  
  HTTP Status Code: 404

**Examples**

**Example Request**

This example illustrates one usage of GetChange.

GET /2013-04-01/change/C2682N5HXP0BZ4

**Example Response**

This example illustrates one usage of GetChange.

```
HTTP/1.1 200 OK
<?xml version="1.0" encoding="UTF-8"?>
  <ChangeInfo>
    <Id>C2682N5HXP0BZ4</Id>
    <Status>INSYNC</Status>
    <SubmittedAt>2017-03-10T01:36:41.958Z</SubmittedAt>
  </ChangeInfo>
</GetChangeResponse>
```

**See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
GetCheckerIpRanges
Service: Amazon Route 53

Route 53 does not perform authorization for this API because it retrieves information that is already available to the public.

Important
GetCheckerIpRanges still works, but we recommend that you download ip-ranges.json, which includes IP address ranges for all AWS services. For more information, see IP Address Ranges of Amazon Route 53 Servers in the Amazon Route 53 Developer Guide.

Request Syntax

GET /2013-04-01/checkeripranges HTTP/1.1

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request does not have a request body.

Response Syntax

HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<GetCheckerIpRangesResponse>
  <CheckerIpRanges>
    <INVALID-TYPE-NAME>string</INVALID-TYPE-NAME>
  </CheckerIpRanges>
</GetCheckerIpRangesResponse>

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

GetCheckerIpRangesResponse (p. 118)

Root level tag for the GetCheckerIpRangesResponse parameters.

Required: Yes

CheckerIpRanges (p. 118)

A complex type that contains sorted list of IP ranges in CIDR format for Amazon Route 53 health checkers.

Type: Array of strings

Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).
See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
GetDNSSEC
Service: Amazon Route 53

Returns information about DNSSEC for a specific hosted zone, including the key-signing keys (KSKs) in the hosted zone.

Request Syntax

GET /2013-04-01/hostedzone/Id/dnssec HTTP/1.1

URI Request Parameters

The request uses the following URI parameters.

Id (p. 120)

A unique string used to identify a hosted zone.

Length Constraints: Maximum length of 32.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<GetDNSSECResponse>
  <KeySigningKeys>
    <KeySigningKey>
      <CreatedDate>timestamp</CreatedDate>
      <DigestAlgorithmMnemonic>string</DigestAlgorithmMnemonic>
      <DigestAlgorithmType>integer</DigestAlgorithmType>
      <DigestValue>string</DigestValue>
      <DNSKEYRecord>string</DNSKEYRecord>
      <DSRecord>string</DSRecord>
      <Flag>integer</Flag>
      <KeyTag>integer</KeyTag>
      <KmsArn>string</KmsArn>
      <LastModifiedDate>timestamp</LastModifiedDate>
      <Name>string</Name>
      <PublicKey>string</PublicKey>
      <SigningAlgorithmMnemonic>string</SigningAlgorithmMnemonic>
      <SigningAlgorithmType>integer</SigningAlgorithmType>
      <Status>string</Status>
      <StatusMessage>string</StatusMessage>
    </KeySigningKey>
  </KeySigningKeys>
  <Status>
    <ServeSignature>string</ServeSignature>
    <StatusMessage>string</StatusMessage>
  </Status>
</GetDNSSECResponse>
Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

GetDNSSECResponse (p. 120)

Root level tag for the GetDNSSECResponse parameters.

Required: Yes

KeySigningKeys (p. 120)

The key-signing keys (KSKs) in your account.

Type: Array of KeySigningKey (p. 620) objects

Status (p. 120)

A string representing the status of DNSSEC.

Type: DNSSECStatus (p. 597) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).

InvalidArgument

Parameter name is not valid.

HTTP Status Code: 400

InvalidInput

The input is not valid.

HTTP Status Code: 400

NoSuchHostedZone

No hosted zone exists with the ID that you specified.

HTTP Status Code: 404

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
• AWS SDK for Ruby V3
GetGeoLocation
Service: Amazon Route 53

Gets information about whether a specified geographic location is supported for Amazon Route 53 geolocation resource record sets.

Route 53 does not perform authorization for this API because it retrieves information that is already available to the public.

Use the following syntax to determine whether a continent is supported for geolocation:

GET /2013-04-01/geolocation?continentcode=two-letter abbreviation for a continent

Use the following syntax to determine whether a country is supported for geolocation:

GET /2013-04-01/geolocation?countrycode=two-character country code

Use the following syntax to determine whether a subdivision of a country is supported for geolocation:

GET /2013-04-01/geolocation?countrycode=two-character country code&subdivisioncode=subdivision code

Request Syntax

```
GET /2013-04-01/geolocation?
HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

continentcode (p. 123)

For geolocation resource record sets, a two-letter abbreviation that identifies a continent. Amazon Route 53 supports the following continent codes:

- AF: Africa
- AN: Antarctica
- AS: Asia
- EU: Europe
- OC: Oceania
- NA: North America
- SA: South America

Length Constraints: Fixed length of 2.

countrycode (p. 123)

Amazon Route 53 uses the two-letter country codes that are specified in ISO standard 3166-1 alpha-2.

subdivisioncode  (p. 123)

The code for the subdivision, such as a particular state within the United States. For a list of US state abbreviations, see Appendix B: Two–Letter State and Possession Abbreviations on the United States Postal Service website. For a list of all supported subdivision codes, use the ListGeoLocations API.


Request Body

The request does not have a request body.

Response Syntax

HTTP/1.1  200
<?xml version="1.0" encoding="UTF-8"?>
<GetGeoLocationResponse>
  <GeoLocationDetails>
    <ContinentCode>string</ContinentCode>
    <ContinentName>string</ContinentName>
    <CountryCode>string</CountryCode>
    <CountryName>string</CountryName>
    <SubdivisionCode>string</SubdivisionCode>
    <SubdivisionName>string</SubdivisionName>
  </GeoLocationDetails>
</GetGeoLocationResponse>

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

GetGeoLocationResponse  (p. 124)

Root level tag for the GetGeoLocationResponse parameters.

Required: Yes

GeoLocationDetails  (p. 124)

A complex type that contains the codes and full continent, country, and subdivision names for the specified geolocation code.

Type: GeoLocationDetails  (p. 601) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).

InvalidInput

The input is not valid.

HTTP Status Code: 400

NoSuchGeoLocation

Amazon Route 53 doesn't support the specified geographic location. For a list of supported geolocation codes, see the GeoLocation data type.
HTTP Status Code: 404

Examples

Example Request

To determine whether France (FR) is supported for Route 53 geolocation, submit the following request.

```
GET /2013-04-01/geolocation?countrycode=FR
```

Example Response

The following response shows that France is supported for geolocation. If France were not supported, Route 53 would return NoSuchGeoLocation.

```
HTTP/1.1 200 OK
<?xml version="1.0" encoding="UTF-8"?>
    <GetGeoLocationDetails>
        <CountryName>France</CountryName>
    </GetGeoLocationDetails>
</GetGeoLocationResponse>
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
GetHealthCheck
Service: Amazon Route 53

Gets information about a specified health check.

Request Syntax

GET /2013-04-01/healthcheck/HealthCheckId HTTP/1.1

URI Request Parameters

The request uses the following URI parameters.

HealthCheckId (p. 126)

The identifier that Amazon Route 53 assigned to the health check when you created it. When you add or update a resource record set, you use this value to specify which health check to use. The value can be up to 64 characters long.

Length Constraints: Maximum length of 64.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<GetHealthCheckResponse>
  <HealthCheck>
    <CallerReference>string</CallerReference>
    <CloudWatchAlarmConfiguration>
      <ComparisonOperator>string</ComparisonOperator>
      <Dimensions>
        <Dimension>
          <Name>string</Name>
          <Value>string</Value>
        </Dimension>
      </Dimensions>
      <EvaluationPeriods>integer</EvaluationPeriods>
      <Namespace>string</Namespace>
      <Period>integer</Period>
      <Statistic>string</Statistic>
      <Threshold>double</Threshold>
    </CloudWatchAlarmConfiguration>
    <HealthCheckConfig>
      <AlarmIdentifier>
        <Name>string</Name>
        <Region>string</Region>
      </AlarmIdentifier>
      <ChildHealthChecks>
        <ChildHealthCheck>string</ChildHealthCheck>
      </ChildHealthChecks>
    </HealthCheckConfig>
  </HealthCheck>
</GetHealthCheckResponse>
Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

**GetHealthCheckResponse (p. 126)**

Root level tag for the GetHealthCheckResponse parameters.

Required: Yes

**HealthCheck (p. 126)**

A complex type that contains information about one health check that is associated with the current AWS account.

Type: **HealthCheck (p. 603)** object

Errors

For information about the errors that are common to all actions, see **Common Errors (p. 714).**

**IncompatibleVersion**

The resource you're trying to access is unsupported on this Amazon Route 53 endpoint.

HTTP Status Code: 400

**InvalidInput**

The input is not valid.

HTTP Status Code: 400
NoSuchHealthCheck

No health check exists with the specified ID.

HTTP Status Code: 404

Examples

Example Request

This example illustrates one usage of GetHealthCheck.

```
GET /2013-04-01/healthcheck/018927304987
```

Example Response

This example illustrates one usage of GetHealthCheck.

```
HTTP/1.1 200 OK
<?xml version="1.0" encoding="UTF-8"?>
    <HealthCheck>
        <Id>abcdef11-2222-3333-4444-555555fedcba</Id>
        <CallerReference>example.com 192.0.2.17</CallerReference>
        <HealthCheckConfig>
            <IPAddress>192.0.2.17</IPAddress>
            <Port>80</Port>
            <Type>HTTP</Type>
            <ResourcePath>/docs/route-53-health-check.html</ResourcePath>
            <FullyQualifiedDomainName>example.com</FullyQualifiedDomainName>
            <RequestInterval>30</RequestInterval>
            <FailureThreshold>3</FailureThreshold>
            <MeasureLatency>true</MeasureLatency>
            <EnableSNI>true</EnableSNI>
            <Regions>
                <Region>ap-southeast-1</Region>
                <Region>ap-southeast-2</Region>
                <Region>ap-northeast-1</Region>
            </Regions>
            <Inverted>false</Inverted>
        </HealthCheckConfig>
        <HealthCheckVersion>2</HealthCheckVersion>
    </HealthCheck>
</GetHealthCheckResponse>
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
• AWS SDK for Python
• AWS SDK for Ruby V3
GetHealthCheckCount
Service: Amazon Route 53

Retrieves the number of health checks that are associated with the current AWS account.

Request Syntax

```
GET /2013-04-01/healthcheckcount HTTP/1.1
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<GetHealthCheckCountResponse>
  <HealthCheckCount>long</HealthCheckCount>
</GetHealthCheckCountResponse>
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

```
GetHealthCheckCountResponse (p. 130)
  Root level tag for the GetHealthCheckCountResponse parameters.

    Required: Yes
    HealthCheckCount (p. 130)
      The number of health checks associated with the current AWS account.
      Type: Long
```

Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).

Examples

Example Request

This example illustrates one usage of GetHealthCheckCount.

```
GET /2013-04-01/healthcheckcount
```
Example Response

This example illustrates one usage of GetHealthCheckCount.

```
HTTP/1.1 200 OK
<?xml version="1.0" encoding="UTF-8"?>
  <HealthCheckCount>42</HealthCheckCount>
</GetHealthCheckCountResponse>
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
GetHealthCheckLastFailureReason

Service: Amazon Route 53

Gets the reason that a specified health check failed most recently.

Request Syntax

```plaintext
GET /2013-04-01/healthcheck/HealthCheckId/lastfailurereason HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

**HealthCheckId** (p. 132)

The ID for the health check for which you want the last failure reason. When you created the health check, CreateHealthCheck returned the ID in the response, in the HealthCheckId element.

**Note**

If you want to get the last failure reason for a calculated health check, you must use the Amazon Route 53 console or the CloudWatch console. You can't use GetHealthCheckLastFailureReason for a calculated health check.

Length Constraints: Maximum length of 64.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```xml
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<GetHealthCheckLastFailureReasonResponse>
  <HealthCheckObservations>
    <HealthCheckObservation>
      <IPAddress>string</IPAddress>
      <Region>string</Region>
      <StatusReport>
        <CheckedTime>timestamp</CheckedTime>
        <Status>string</Status>
      </StatusReport>
    </HealthCheckObservation>
  </HealthCheckObservations>
</GetHealthCheckLastFailureReasonResponse>
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

**GetHealthCheckLastFailureReasonResponse** (p. 132)

Root level tag for the GetHealthCheckLastFailureReasonResponse parameters.
Required: Yes

**HealthCheckObservations (p. 132)**

A list that contains one `Observation` element for each Amazon Route 53 health checker that is reporting a last failure reason.

Type: Array of `HealthCheckObservation` (p. 612) objects

**Errors**

For information about the errors that are common to all actions, see `Common Errors (p. 714)`.

**InvalidInput**

The input is not valid.

HTTP Status Code: 400

**NoSuchHealthCheck**

No health check exists with the specified ID.

HTTP Status Code: 404

**Examples**

**Example Request**

This example illustrates one usage of `GetHealthCheckLastFailureReason`.

```
GET /2013-04-01/healthcheck/018927304987/lastfailurereason
```

**Example Response**

This example illustrates one usage of `GetHealthCheckLastFailureReason`.

```
HTTP/1.1 200 OK
<?xml version="1.0" encoding="UTF-8"?>
  <HealthCheckObservations>
    <HealthCheckObservation>
      <IPAddress>192.0.2.197</IPAddress>
      <StatusReport>
        <Status>Failure: The health checker could not establish a connection within the timeout limit.</Status>
      </StatusReport>
    </HealthCheckObservation>
    <HealthCheckObservation>
      <IPAddress>192.0.2.226</IPAddress>
      <StatusReport>
        <Status>The health check endpoint has not failed since the Route 53 health checker for this endpoint restarted at 2014-10-24T02:55:12.106+00:00</Status>
        <CheckedTime>2014-10-24T03:02:48.809Z</CheckedTime>
      </StatusReport>
    </HealthCheckObservation>
    ...
  </HealthCheckObservations>
</GetHealthCheckLastFailureReasonResponse>
```
See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
GetHealthCheckStatus

Service: Amazon Route 53

Gets status of a specified health check.

**Important**
This API is intended for use during development to diagnose behavior. It doesn't support production use-cases with high query rates that require immediate and actionable responses.

**Request Syntax**

```
GET /2013-04-01/healthcheck/HealthCheckId/status HTTP/1.1
```

**URI Request Parameters**

The request uses the following URI parameters.

**HealthCheckId** *(p. 135)*

The ID for the health check that you want the current status for. When you created the health check, CreateHealthCheck returned the ID in the response, in the HealthCheckId element.

**Note**
If you want to check the status of a calculated health check, you must use the Amazon Route 53 console or the CloudWatch console. You can't use GetHealthCheckStatus to get the status of a calculated health check.

Length Constraints: Maximum length of 64.

Required: Yes

**Request Body**

The request does not have a request body.

**Response Syntax**

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<GetHealthCheckStatusResponse>
  <HealthCheckObservations>
    <HealthCheckObservation>
      <IPAddress>string</IPAddress>
      <Region>string</Region>
      <StatusReport>
        <CheckedTime>timestamp</CheckedTime>
        <Status>string</Status>
      </StatusReport>
    </HealthCheckObservation>
  </HealthCheckObservations>
</GetHealthCheckStatusResponse>
```

**Response Elements**

If the action is successful, the service sends back an HTTP 200 response.
The following data is returned in XML format by the service.

**GetHealthCheckStatusResponse** (p. 135)

Root level tag for the GetHealthCheckStatusResponse parameters.

Required: Yes

**HealthCheckObservations** (p. 135)

A list that contains one HealthCheckObservation element for each Amazon Route 53 health checker that is reporting a status about the health check endpoint.

Type: Array of HealthCheckObservation (p. 612) objects

**Errors**

For information about the errors that are common to all actions, see Common Errors (p. 714).

**InvalidInput**

The input is not valid.

HTTP Status Code: 400

**NoSuchHealthCheck**

No health check exists with the specified ID.

HTTP Status Code: 404

**Examples**

**Example Request**

This example illustrates one usage of GetHealthCheckStatus.

```
GET /2013-04-01/healthcheck/018927304987/status
```

**Example Response**

This example illustrates one usage of GetHealthCheckStatus.

```
HTTP/1.1 200 OK
<?xml version="1.0" encoding="UTF-8"?>
  <HealthCheckObservations>
    <HealthCheckObservation>
      <IPAddress>192.0.2.226</IPAddress>
      <Region>us-east-2</Region>
      <StatusReport>
        <Status>Success: HTTP Status Code: 200. Resolved IP: 192.0.2.2. OK</Status>
      </StatusReport>
    </HealthCheckObservation>
    <HealthCheckObservation>
      <IPAddress>192.0.2.56</IPAddress>
      <Region>us-west-1</Region>
      <StatusReport>
        <Status>Success: HTTP Status Code: 200. Resolved IP: 192.0.2.1. OK</Status>
      </StatusReport>
    </HealthCheckObservation>
  </HealthCheckObservations>
</GetHealthCheckStatusResponse>
```
</StatusReport>
...
</HealthCheckObservations>
</GetHealthCheckStatusResponse>

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
GetHostedZone
Service: Amazon Route 53

Gets information about a specified hosted zone including the four name servers assigned to the hosted zone.

Request Syntax

GET /2013-04-01/hostedzone/Id HTTP/1.1

URI Request Parameters

The request uses the following URI parameters.

Id (p. 138)

The ID of the hosted zone that you want to get information about.

Length Constraints: Maximum length of 32.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<GetHostedZoneResponse>
  <DelegationSet>
    <CallerReference>string</CallerReference>
    <Id>string</Id>
    <NameServers>
      <NameServer>string</NameServer>
    </NameServers>
  </DelegationSet>
  <HostedZone>
    <CallerReference>string</CallerReference>
    <Config>
      <Comment>string</Comment>
      <PrivateZone>boolean</PrivateZone>
    </Config>
    <Id>string</Id>
    <LinkedService>
      <Description>string</Description>
      <ServicePrincipal>string</ServicePrincipal>
    </LinkedService>
    <Name>string</Name>
    <ResourceRecordSetCount>long</ResourceRecordSetCount>
  </HostedZone>
  <VPCs>
    <VPC>
      <VPCId>string</VPCId>
      <VPCRegion>string</VPCRegion>
    </VPC>
  </VPCs>
Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

GetHostedZoneResponse (p. 138)

Root level tag for the GetHostedZoneResponse parameters.

Required: Yes

DelegationSet (p. 138)

A complex type that lists the Amazon Route 53 name servers for the specified hosted zone.

Type: DelegationSet (p. 595) object

HostedZone (p. 138)

A complex type that contains general information about the specified hosted zone.

Type: HostedZone (p. 614) object

VPCs (p. 138)

A complex type that contains information about the VPCs that are associated with the specified hosted zone.

Type: Array of VPC (p. 646) objects

Array Members: Minimum number of 1 item.

Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).

InvalidInput

The input is not valid.

HTTP Status Code: 400

NoSuchHostedZone

No hosted zone exists with the ID that you specified.

HTTP Status Code: 404

Examples

Example Request

This example illustrates one usage of GetHostedZone.

GET /2013-04-01/hostedzone/Z1PA6795UKMFR9
Example Response (Public Hosted Zone, Default Delegation Set Assigned by Route 53)

This example illustrates one usage of GetHostedZone.

```xml
<?xml version="1.0" encoding="UTF-8"?>
  <HostedZone>
    <Id>/hostedzone/Z1PA6795UKMFR9</Id>
    <Name>example.com.</Name>
    <CallerReference>2017-03-01T11:22:14Z</CallerReference>
    <Config>
      <Comment>This is my first hosted zone.</Comment>
      <PrivateZone>false</PrivateZone>
    </Config>
    <ResourceRecordSetCount>17</ResourceRecordSetCount>
  </HostedZone>
  <DelegationSet>
    <NameServers>
      <NameServer>ns-2048.awsdns-64.com</NameServer>
      <NameServer>ns-2049.awsdns-65.net</NameServer>
      <NameServer>ns-2050.awsdns-66.org</NameServer>
      <NameServer>ns-2051.awsdns-67.co.uk</NameServer>
    </NameServers>
  </DelegationSet>
</GetHostedZoneResponse>
```

Example Response (Public Hosted Zone, Reusable Delegation Set)

This example illustrates one usage of GetHostedZone.

```xml
<?xml version="1.0" encoding="UTF-8"?>
  <HostedZone>
    <Id>/hostedzone/Z1PA6795UKMFR9</Id>
    <Name>example.com.</Name>
    <CallerReference>2017-03-02T10:44:04Z</CallerReference>
    <Config>
      <Comment>This is my first hosted zone.</Comment>
      <PrivateZone>false</PrivateZone>
    </Config>
    <ResourceRecordSetCount>17</ResourceRecordSetCount>
  </HostedZone>
  <DelegationSet>
    <Id>NU241VPSAMPLE</Id>
    <CallerReference>2017-03-01T11:22:14Z</CallerReference>
    <NameServers>
      <NameServer>ns-2048.awsdns-64.com</NameServer>
      <NameServer>ns-2049.awsdns-65.net</NameServer>
      <NameServer>ns-2050.awsdns-66.org</NameServer>
      <NameServer>ns-2051.awsdns-67.co.uk</NameServer>
    </NameServers>
  </DelegationSet>
</GetHostedZoneResponse>
```

Example Response (Private Hosted Zone)

This example illustrates one usage of GetHostedZone.

HTTP/1.1 200 OK
<?xml version="1.0" encoding="UTF-8"?>
  <HostedZone>
    <Id>/hostedzone/Z1PA6795UKMF9R9</Id>
    <Name>example.com.</Name>
    <CallerReference>myUniqueIdentifier</CallerReference>
    <Config>
      <Comment>This is my first hosted zone.</Comment>
      <PrivateZone>true</PrivateZone>
    </Config>
    <ResourceRecordSetCount>17</ResourceRecordSetCount>
  </HostedZone>
  <VPCs>
    <VPC>
      <VPCRegion>us-east-2</VPCRegion>
      <VPCId>vpc-1a2b3c4d</VPCId>
    </VPC>
  </VPCs>
</GetHostedZoneResponse>

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
GetHostedZoneCount
Service: Amazon Route 53

Retrieves the number of hosted zones that are associated with the current AWS account.

Request Syntax

GET /2013-04-01/hostedzonecount HTTP/1.1

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request does not have a request body.

Response Syntax

HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<GetHostedZoneCountResponse>
  <HostedZoneCount>long</HostedZoneCount>
</GetHostedZoneCountResponse>

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

GetHostedZoneCountResponse (p. 142)
  Root level tag for the GetHostedZoneCountResponse parameters.

    Required: Yes

HostedZoneCount (p. 142)
  The total number of public and private hosted zones that are associated with the current AWS account.

    Type: Long

Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).

InvalidInput
  The input is not valid.

    HTTP Status Code: 400
Examples

Example Request
This example illustrates one usage of GetHostedZoneCount.

GET /2013-04-01/hostedzonecount

Example Response
This example illustrates one usage of GetHostedZoneCount.

HTTP/1.1 200 OK
<?xml version="1.0" encoding="UTF-8"?>
  <HostedZoneCount>42</HostedZoneCount>
</GetHostedZoneCountResponse>

See Also
For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
GetHostedZoneLimit

Service: Amazon Route 53

GET /2013-04-01/hostedzonelimit/Id/Type HTTP/1.1

URI Request Parameters

The request uses the following URI parameters.

**Id** *(p. 144)*

- The ID of the hosted zone that you want to get a limit for.
  - Length Constraints: Maximum length of 32.
  - Required: Yes

**Type** *(p. 144)*

- The limit that you want to get. Valid values include the following:
  - `MAX_RRSETS_BY_ZONE`: The maximum number of records that you can create in the specified hosted zone.
  - `MAX_VPCS_ASSOCIATED_BY_ZONE`: The maximum number of Amazon VPCs that you can associate with the specified private hosted zone.

Valid Values: `MAX_RRSETS_BY_ZONE` | `MAX_VPCS_ASSOCIATED_BY_ZONE`

Required: Yes

Response Syntax

HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<GetHostedZoneLimitResponse>
  <Count>long</Count>
  <Limit>
    <Type>string</Type>
    <Value>long</Value>
  </Limit>
</GetHostedZoneLimitResponse>

Response Elements

If the action is successful, the service sends back an HTTP 200 response.
The following data is returned in XML format by the service.

**GetHostedZoneLimitResponse (p. 144)**

Root level tag for the GetHostedZoneLimitResponse parameters.

Required: Yes

**Count (p. 144)**

The current number of entities that you have created of the specified type. For example, if you specified `MAX_RRSETS_BY_ZONE` for the value of `Type` in the request, the value of `Count` is the current number of records that you have created in the specified hosted zone.

Type: Long

Valid Range: Minimum value of 0.

**Limit (p. 144)**

The current setting for the specified limit. For example, if you specified `MAX_RRSETS_BY_ZONE` for the value of `Type` in the request, the value of `Limit` is the maximum number of records that you can create in the specified hosted zone.

Type: `HostedZoneLimit (p. 617)` object

**Errors**

For information about the errors that are common to all actions, see Common Errors (p. 714).

**HostedZoneNotPrivate**

The specified hosted zone is a public hosted zone, not a private hosted zone.

HTTP Status Code: 400

**InvalidInput**

The input is not valid.

HTTP Status Code: 400

**NoSuchHostedZone**

No hosted zone exists with the ID that you specified.

HTTP Status Code: 404

**See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
• AWS SDK for Python
• AWS SDK for Ruby V3
GetQueryLoggingConfig
Service: Amazon Route 53

Gets information about a specified configuration for DNS query logging.

For more information about DNS query logs, see CreateQueryLoggingConfig and Logging DNS Queries.

Request Syntax

GET /2013-04-01/queryloggingconfig/Id HTTP/1.1

URI Request Parameters

The request uses the following URI parameters.

Id  (p. 147)

The ID of the configuration for DNS query logging that you want to get information about.


Required: Yes

Request Body

The request does not have a request body.

Response Syntax

HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<GetQueryLoggingConfigResponse>
  <QueryLoggingConfig>
    <CloudWatchLogsLogGroupArn>string</CloudWatchLogsLogGroupArn>
    <HostedZoneId>string</HostedZoneId>
    <Id>string</Id>
  </QueryLoggingConfig>
</GetQueryLoggingConfigResponse>

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

GetQueryLoggingConfigResponse  (p. 147)

Root level tag for the GetQueryLoggingConfigResponse parameters.

Required: Yes

QueryLoggingConfig  (p. 147)

A complex type that contains information about the query logging configuration that you specified in a GetQueryLoggingConfig request.
Type: `QueryLoggingConfig` (p. 625) object

Errors

For information about the errors that are common to all actions, see "Common Errors" (p. 714).

**InvalidInput**

The input is not valid.

HTTP Status Code: 400

**NoSuchQueryLoggingConfig**

There is no DNS query logging configuration with the specified ID.

HTTP Status Code: 404

Examples

**Example Request**

The following request gets information about the configuration with the ID `87654321-dcba-1234-abcd-1a2b3c4d5e6f`.

```xml
GET /2013-04-01/queryloggingconfig HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
  <Id>87654321-dcba-1234-abcd-1a2b3c4d5e6f</Id>
</GetQueryLoggingConfigRequest>
```

**Example Response**

This example illustrates one usage of `GetQueryLoggingConfig`.

```xml
HTTP/1.1 200 OK
<?xml version="1.0" encoding="UTF-8"?>
  <QueryLoggingConfig>
    <Id>87654321-dcba-1234-abcd-1a2b3c4d5e6f</Id>
    <HostedZoneId>Z1D633PJN98FT9</HostedZoneId>
  </QueryLoggingConfig>
</GetQueryLoggingConfigResponse>
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
Amazon Route 53 API Reference
GetQueryLoggingConfig

- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
GetReusableDelegationSet

Service: Amazon Route 53

Retrieves information about a specified reusable delegation set, including the four name servers that are assigned to the delegation set.

Request Syntax

```
GET /2013-04-01/delegationset/Id HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

**Id (p. 150)**

The ID of the reusable delegation set that you want to get a list of name servers for.

Length Constraints: Maximum length of 32.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<GetReusableDelegationSetResponse>
  <DelegationSet>
    <CallerReference>string</CallerReference>
    <Id>string</Id>
    <NameServers>
      <NameServer>string</NameServer>
    </NameServers>
  </DelegationSet>
</GetReusableDelegationSetResponse>
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

**GetReusableDelegationSetResponse (p. 150)**

Root level tag for the GetReusableDelegationSetResponse parameters.

Required: Yes

**DelegationSet (p. 150)**

A complex type that contains information about the reusable delegation set.

Type: DelegationSet (p. 595) object
Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).

DelegationSetNotReusable

A reusable delegation set with the specified ID does not exist.

HTTP Status Code: 400

InvalidInput

The input is not valid.

HTTP Status Code: 400

NoSuchDelegationSet

A reusable delegation set with the specified ID does not exist.

HTTP Status Code: 400

Examples

Example Request

This example illustrates one usage of GetReusableDelegationSet.

GET /2013-04-01/delegationset/N1PA6795SAMPLE

Example Response

This example illustrates one usage of GetReusableDelegationSet.

```xml
<?xml version="1.0" encoding="UTF-8"?>
  <DelegationSet>
    <Id>/delegationset/N1PA6795SAMPLE</Id>
    <CallerReference>2014-10-13T16:30:01Z</CallerReference>
    <NameServers>
      <NameServer>ns-2048.awsdns-64.com</NameServer>
      <NameServer>ns-2049.awsdns-65.net</NameServer>
      <NameServer>ns-2050.awsdns-66.org</NameServer>
      <NameServer>ns-2051.awsdns-67.co.uk</NameServer>
    </NameServers>
  </DelegationSet>
</GetReusableDelegationSetResponse>
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
GetReusableDelegationSetLimit

Service: Amazon Route 53

Gets the maximum number of hosted zones that you can associate with the specified reusable delegation set.

For the default limit, see Limits in the Amazon Route 53 Developer Guide. To request a higher limit, open a case.

Request Syntax

GET /2013-04-01/reusabledelegationsetlimit/Id/Type HTTP/1.1

URI Request Parameters

The request uses the following URI parameters.

Id (p. 153)

The ID of the delegation set that you want to get the limit for.

Length Constraints: Maximum length of 32.

Required: Yes

Type (p. 153)

Specify MAX_ZONES_BY_REUSEABLE_DELEGATION_SET to get the maximum number of hosted zones that you can associate with the specified reusable delegation set.

Valid Values: MAX_ZONES_BY_REUSEABLE_DELEGATION_SET

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<GetReusableDelegationSetLimitResponse>
  <Count>long</Count>
  <Limit>
    <Type>string</Type>
    <Value>long</Value>
  </Limit>
</GetReusableDelegationSetLimitResponse>

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.
GetReusableDelegationSetLimitResponse (p. 153)

Root level tag for the GetReusableDelegationSetLimitResponse parameters.

Required: Yes

Count (p. 153)

The current number of hosted zones that you can associate with the specified reusable delegation set.

Type: Long

Valid Range: Minimum value of 0.

Limit (p. 153)

The current setting for the limit on hosted zones that you can associate with the specified reusable delegation set.

Type: ReusableDelegationSetLimit (p. 636) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).

InvalidInput

The input is not valid.

HTTP Status Code: 400

NoSuchDelegationSet

A reusable delegation set with the specified ID does not exist.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
GetTrafficPolicy
Service: Amazon Route 53

Gets information about a specific traffic policy version.

For information about how of deleting a traffic policy affects the response from GetTrafficPolicy, see DeleteTrafficPolicy.

Request Syntax

GET /2013-04-01/trafficpolicy/Id/Version HTTP/1.1

URI Request Parameters

The request uses the following URI parameters.

Id (p. 155)

The ID of the traffic policy that you want to get information about.


Required: Yes

Version (p. 155)

The version number of the traffic policy that you want to get information about.

Valid Range: Minimum value of 1. Maximum value of 1000.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<GetTrafficPolicyResponse>
  <TrafficPolicy>
    <Comment>string</Comment>
    <Document>string</Document>
    <Id>string</Id>
    <Name>string</Name>
    <Type>string</Type>
    <Version>integer</Version>
  </TrafficPolicy>
</GetTrafficPolicyResponse>

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.
GetTrafficPolicyResponse (p. 155)

Root level tag for the GetTrafficPolicyResponse parameters.

Required: Yes

TrafficPolicy (p. 155)

A complex type that contains settings for the specified traffic policy.

Type: TrafficPolicy (p. 639) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).

InvalidInput

The input is not valid.

HTTP Status Code: 400

NoSuchTrafficPolicy

No traffic policy exists with the specified ID.

HTTP Status Code: 404

Examples

Example Request

This example illustrates one usage of GetTrafficPolicy.

GET /2013-04-01/trafficpolicy/12345678-abcd-9876-fedc-1a2b3c4de5f6/2

Example Response

This example illustrates one usage of GetTrafficPolicy.

HTTP/1.1 200 OK
<?xml version="1.0" encoding="UTF-8"?>
    <TrafficPolicy>
        <Id>12345678-abcd-9876-fedc-1a2b3c4de5f6</Id>
        <Version>2</Version>
        <Name>MyTrafficPolicy</Name>
        <Type>A</Type>
        <Document>traffic policy definition in JSON format</Document>
        <Comment>New traffic policy version</Comment>
    </TrafficPolicy>
</GetTrafficPolicyResponse>

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
GetTrafficPolicyInstance
Service: Amazon Route 53

Gets information about a specified traffic policy instance.

Note
After you submit a CreateTrafficPolicyInstance or an UpdateTrafficPolicyInstance request, there's a brief delay while Amazon Route 53 creates the resource record sets that are specified in the traffic policy definition. For more information, see the State response element.

Note
In the Route 53 console, traffic policy instances are known as policy records.

Request Syntax

GET /2013-04-01/trafficpolicyinstance/Id HTTP/1.1

URI Request Parameters

The request uses the following URI parameters.

Id (p. 158)

The ID of the traffic policy instance that you want to get information about.


Required: Yes

Request Body

The request does not have a request body.

Response Syntax

HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<GetTrafficPolicyInstanceResponse>
  <TrafficPolicyInstance>
    <HostedZoneId>string</HostedZoneId>
    <Id>string</Id>
    <Message>string</Message>
    <Name>string</Name>
    <State>string</State>
    <TrafficPolicyId>string</TrafficPolicyId>
    <TrafficPolicyType>string</TrafficPolicyType>
    <TrafficPolicyVersion>integer</TrafficPolicyVersion>
    <TTL>long</TTL>
  </TrafficPolicyInstance>
</GetTrafficPolicyInstanceResponse>

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.
GetTrafficPolicyInstanceResponse (p. 158)

Root level tag for the GetTrafficPolicyInstanceResponse parameters.

Required: Yes

TrafficPolicyInstance (p. 158)

A complex type that contains settings for the traffic policy instance.

Type: TrafficPolicyInstance (p. 641) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).

InvalidInput

The input is not valid.

HTTP Status Code: 400

NoSuchTrafficPolicyInstance

No traffic policy instance exists with the specified ID.

HTTP Status Code: 404

Examples

Example Request

This example illustrates one usage of GetTrafficPolicyInstance.

GET /2013-04-01/trafficpolicyinstance/12131415-abac-5432-caba-6f5e4d3c2b1a

Example Response

This example illustrates one usage of GetTrafficPolicyInstance.

HTTP/1.1 200 OK
<?xml version="1.0" encoding="UTF-8"?>
<TrafficPolicyInstance>
  <Id>12131415-abac-5432-caba-6f5e4d3c2b1a</Id>
  <HostedZoneId>Z1D633PJN98FT9</HostedZoneId>
  <Name>www.example.com</Name>
  <TTL>300</TTL>
  <State>Applied</State>
  <Message/>
  <TrafficPolicyId>12345678-abcd-9876-fedc-1a2b3c4de5f6</TrafficPolicyId>
  <TrafficPolicyType>A</TrafficPolicyType>
</TrafficPolicyInstance>
</GetTrafficPolicyInstanceResponse>

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:
• AWS Command Line Interface
• AWS SDK for .NET
• AWS SDK for C++
• AWS SDK for Go
• AWS SDK for Java V2
• AWS SDK for JavaScript
• AWS SDK for PHP V3
• AWS SDK for Python
• AWS SDK for Ruby V3
GetTrafficPolicyInstanceCount
Service: Amazon Route 53

Gets the number of traffic policy instances that are associated with the current AWS account.

Request Syntax

```
GET /2013-04-01/trafficpolicyinstancecount HTTP/1.1
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<GetTrafficPolicyInstanceCountResponse>
<TrafficPolicyInstanceCount>integer</TrafficPolicyInstanceCount>
</GetTrafficPolicyInstanceCountResponse>
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

- **GetTrafficPolicyInstanceCountResponse** (p. 161)
  
  Root level tag for the GetTrafficPolicyInstanceCountResponse parameters.

  Required: Yes

- **TrafficPolicyInstanceCount** (p. 161)
  
  The number of traffic policy instances that are associated with the current AWS account.

  Type: Integer

Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).

Examples

Example Request

This example illustrates one usage of GetTrafficPolicyInstanceCount.

```
GET /2013-04-01/trafficpolicyinstancecount/
```
Example Response

This example illustrates one usage of GetTrafficPolicyInstanceCount.

HTTP/1.1 200 OK
<?xml version="1.0" encoding="UTF-8"?>
  <TrafficPolicyInstanceCount>42</TrafficPolicyInstanceCount>
</GetTrafficPolicyInstanceCountResponse>

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
ListGeoLocations
Service: Amazon Route 53

Retrieves a list of supported geographic locations.

Countries are listed first, and continents are listed last. If Amazon Route 53 supports subdivisions for a country (for example, states or provinces), the subdivisions for that country are listed in alphabetical order immediately after the corresponding country.

Route 53 does not perform authorization for this API because it retrieves information that is already available to the public.

For a list of supported geolocation codes, see the GeoLocation data type.

Request Syntax

```
GET /2013-04-01/geolocations?
HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

**maxitems** (p. 163)

(Optional) The maximum number of geolocations to be included in the response body for this request. If more than maxitems geolocations remain to be listed, then the value of the IsTruncated element in the response is true.

**startcontinentcode** (p. 163)

The code for the continent with which you want to start listing locations that Amazon Route 53 supports for geolocation. If Route 53 has already returned a page or more of results, if IsTruncated is true, and if NextContinentCode from the previous response has a value, enter that value in startcontinentcode to return the next page of results.

Include startcontinentcode only if you want to list continents. Don't include startcontinentcode when you're listing countries or countries with their subdivisions.

Length Constraints: Fixed length of 2.

**startcountrycode** (p. 163)

The code for the country with which you want to start listing locations that Amazon Route 53 supports for geolocation. If Route 53 has already returned a page or more of results, if IsTruncated is true, and if NextCountryCode from the previous response has a value, enter that value in startcountrycode to return the next page of results.


**startsubdivisioncode** (p. 163)

The code for the state of the United States with which you want to start listing locations that Amazon Route 53 supports for geolocation. If Route 53 has already returned a page or more of results, if IsTruncated is true, and if NextSubdivisionCode from the previous response has a value, enter that value in startsubdivisioncode to return the next page of results.

To list subdivisions (U.S. states), you must include both startcountrycode and startsubdivisioncode.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<ListGeoLocationsResponse>
  <GeoLocationDetailsList>
    <GeoLocationDetails>
      <ContinentCode>string</ContinentCode>
      <ContinentName>string</ContinentName>
      <CountryCode>string</CountryCode>
      <CountryName>string</CountryName>
      <SubdivisionCode>string</SubdivisionCode>
      <SubdivisionName>string</SubdivisionName>
    </GeoLocationDetails>
  </GeoLocationDetailsList>
  <IsTruncated>boolean</IsTruncated>
  <MaxItems>string</MaxItems>
  <NextContinentCode>string</NextContinentCode>
  <NextCountryCode>string</NextCountryCode>
  <NextSubdivisionCode>string</NextSubdivisionCode>
</ListGeoLocationsResponse>
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

**ListGeoLocationsResponse (p. 164)**

Root level tag for the ListGeoLocationsResponse parameters.

Required: Yes

**GeoLocationDetailsList (p. 164)**

A complex type that contains one GeoLocationDetails element for each location that Amazon Route 53 supports for geolocation.

Type: Array of GeoLocationDetails (p. 601) objects

**IsTruncated (p. 164)**

A value that indicates whether more locations remain to be listed after the last location in this response. If so, the value of IsTruncated is true. To get more values, submit another request and include the values of NextContinentCode, NextCountryCode, and NextSubdivisionCode in the startcontinentcode, startcountrycode, and startsubdivisioncode, as applicable.

Type: Boolean

**MaxItems (p. 164)**

The value that you specified for MaxItems in the request.

Type: String
NextContinentCode (p. 164)

If IsTruncated is true, you can make a follow-up request to display more locations. Enter the value of NextContinentCode in the startcontinentcode parameter in another ListGeoLocations request.

Type: String

Length Constraints: Fixed length of 2.

NextCountryCode (p. 164)

If IsTruncated is true, you can make a follow-up request to display more locations. Enter the value of NextCountryCode in the startcountrycode parameter in another ListGeoLocations request.

Type: String


NextSubdivisionCode (p. 164)

If IsTruncated is true, you can make a follow-up request to display more locations. Enter the value of NextSubdivisionCode in the startsubdivisioncode parameter in another ListGeoLocations request.

Type: String


Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).

InvalidInput

The input is not valid.

HTTP Status Code: 400

Examples

Example Request

The following request lists locations beginning with the United States state of Oregon.

GET /2013-04-01/geolocations?startcountrycode=US&startsubdivisioncode=OR&maxitems=2

Example Response

This example illustrates one usage of ListGeoLocations.

HTTP/1.1 200 OK
<?xml version="1.0" encoding="UTF-8"?>
>  <GeoLocationDetailsList>
    <GeoLocationDetails>
      <CountryName>USA</CountryName>
    </GeoLocationDetails>
  </GeoLocationDetailsList>
</ListGeoLocationsResponse>
Example Follow-up Request

This example shows the follow-up request to the previous request. In this request, the value of NextCountryCode from the previous response is specified as the value for startcountrycode, and NextSubdivisionCode is specified as the value for startsubdivisioncode.


Example Follow-up Response

This example illustrates one usage of ListGeoLocations.

HTTP/1.1 200 OK
<?xml version="1.0" encoding="UTF-8"?>
    <GeoLocationDetailsList>
        <GeoLocationDetails>
            <CountryName>USA</CountryName>
            <SubdivisionCode>RI</SubdivisionCode>
            <SubdivisionName>Rhode Island</SubdivisionName>
        </GeoLocationDetails>
        <GeoLocationDetails>
            <CountryName>USA</CountryName>
            <SubdivisionCode>SC</SubdivisionCode>
            <SubdivisionName>South Carolina</SubdivisionName>
        </GeoLocationDetails>
    </GeoLocationDetailsList>
    <IsTruncated>true</IsTruncated>
    <NextSubdivisionCode>SD</NextSubdivisionCode>
    <MaxItems>2</MaxItems>
</ListGeoLocationsResponse>

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
• AWS SDK for Java V2
• AWS SDK for JavaScript
• AWS SDK for PHP V3
• AWS SDK for Python
• AWS SDK for Ruby V3
ListHealthChecks
Service: Amazon Route 53
Retrieve a list of the health checks that are associated with the current AWS account.

Request Syntax
GET /2013-04-01/healthcheck?marker=Marker&maxitems=MaxItems HTTP/1.1

URI Request Parameters
The request uses the following URI parameters.

marker (p. 168)
If the value of IsTruncated in the previous response was true, you have more health checks. To get another group, submit another ListHealthChecks request.
For the value of marker, specify the value of NextMarker from the previous response, which is the ID of the first health check that Amazon Route 53 will return if you submit another request.
If the value of IsTruncated in the previous response was false, there are no more health checks to get.
Length Constraints: Maximum length of 64.

maxitems (p. 168)
The maximum number of health checks that you want ListHealthChecks to return in response to the current request. Amazon Route 53 returns a maximum of 100 items. If you set MaxItems to a value greater than 100, Route 53 returns only the first 100 health checks.

Request Body
The request does not have a request body.

Response Syntax
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<ListHealthChecksResponse>
<HealthChecks>
  <HealthCheck>
    <CallerReference>string</CallerReference>
    <CloudWatchAlarmConfiguration>
      <ComparisonOperator>string</ComparisonOperator>
      <Dimensions>
        <Dimension>
          <Name>string</Name>
          <Value>string</Value>
        </Dimension>
      </Dimensions>
      <EvaluationPeriods>integer</EvaluationPeriods>
      <MetricName>string</MetricName>
      <Namespace>string</Namespace>
      <Period>integer</Period>
      <Statistic>string</Statistic>
      <Threshold>double</Threshold>
    </CloudWatchAlarmConfiguration>
  </HealthCheck>
</HealthChecks>
</ListHealthChecksResponse>
Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

**ListHealthChecksResponse (p. 168)**

Root level tag for the ListHealthChecksResponse parameters.

Required: Yes

**HealthChecks (p. 168)**

A complex type that contains one HealthCheck element for each health check that is associated with the current AWS account.

Type: Array of HealthCheck (p. 603) objects

**IsTruncated (p. 168)**

A flag that indicates whether there are more health checks to be listed. If the response was truncated, you can get the next group of health checks by submitting another ListHealthChecks request and specifying the value of NextMarker in the marker parameter.
Type: Boolean

**Marker (p. 168)**

For the second and subsequent calls to `ListHealthChecks`, Marker is the value that you specified for the marker parameter in the previous request.

Type: String

Length Constraints: Maximum length of 64.

**MaxItems (p. 168)**

The value that you specified for the maxitems parameter in the call to `ListHealthChecks` that produced the current response.

Type: String

**NextMarker (p. 168)**

If IsTruncated is true, the value of NextMarker identifies the first health check that Amazon Route 53 returns if you submit another `ListHealthChecks` request and specify the value of NextMarker in the marker parameter.

Type: String

Length Constraints: Maximum length of 64.

**Errors**

For information about the errors that are common to all actions, see Common Errors (p. 714).

**IncompatibleVersion**

The resource you're trying to access is unsupported on this Amazon Route 53 endpoint.

HTTP Status Code: 400

**InvalidInput**

The input is not valid.

HTTP Status Code: 400

**Examples**

**Example Request**

This example illustrates one usage of `ListHealthChecks`.

```
GET /2013-04-01/healthcheck?maxitems=1
```

**Example Response**

This example illustrates one usage of `ListHealthChecks`.

```
HTTP/1.1 200 OK
<?xml version="1.0" encoding="UTF-8"?>
                         <HealthChecks>
```
<HealthCheck>
  <Id>abcdef11-2222-3333-4444-555555fedcba</Id>
  <CallerReference>example.com 192.0.2.17</CallerReference>
  <HealthCheckConfig>
    <IPAddress>192.0.2.17</IPAddress>
    <Port>80</Port>
    <Type>HTTP</Type>
    <ResourcePath>/docs/route-53-health-check.html</ResourcePath>
    <FullyQualifiedDomainName>example.com</FullyQualifiedDomainName>
    <RequestInterval>30</RequestInterval>
    <FailureThreshold>3</FailureThreshold>
    <MeasureLatency>true</MeasureLatency>
    <EnableSNI>true</EnableSNI>
    <Inverted>false</Inverted>
  </HealthCheckConfig>
  <HealthCheckVersion>2</HealthCheckVersion>
</HealthCheck>

<HealthChecks>
  <IsTruncated>true</IsTruncated>
  <NextMarker>aaaaaaaa-1234-5678-9012-bbbbbbcccccc</NextMarker>
  <MaxItems>1</MaxItems>
</HealthChecks>
</ListHealthChecksResponse>

### See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
ListHostedZones
Service: Amazon Route 53

Retrieves a list of the public and private hosted zones that are associated with the current AWS account. The response includes a HostedZones child element for each hosted zone.

Amazon Route 53 returns a maximum of 100 items in each response. If you have a lot of hosted zones, you can use the maxitems parameter to list them in groups of up to 100.

Request Syntax

GET /2013-04-01/hostedzone?delegationsetid=DelegationSetId&marker=Marker&maxitems=MaxItems
HTTP/1.1

URI Request Parameters

The request uses the following URI parameters.

delegationsetid (p. 172)

If you're using reusable delegation sets and you want to list all of the hosted zones that are associated with a reusable delegation set, specify the ID of that reusable delegation set.

Length Constraints: Maximum length of 32.

marker (p. 172)

If the value of IsTruncated in the previous response was true, you have more hosted zones. To get more hosted zones, submit another ListHostedZones request.

For the value of marker, specify the value of NextMarker from the previous response, which is the ID of the first hosted zone that Amazon Route 53 will return if you submit another request.

If the value of IsTruncated in the previous response was false, there are no more hosted zones to get.

Length Constraints: Maximum length of 64.

maxitems (p. 172)

(Optional) The maximum number of hosted zones that you want Amazon Route 53 to return. If you have more than maxitems hosted zones, the value of IsTruncated in the response is true, and the value of NextMarker is the hosted zone ID of the first hosted zone that Route 53 will return if you submit another request.

Request Body

The request does not have a request body.

Response Syntax

HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<ListHostedZonesResponse>
  <HostedZones>
    <HostedZone>
      <CallerReference>string</CallerReference>
      <Config>
Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

**ListHostedZonesResponse (p. 172)**

Root level tag for the ListHostedZonesResponse parameters.

Required: Yes

**HostedZones (p. 172)**

A complex type that contains general information about the hosted zone.

Type: Array of HostedZone (p. 614) objects

**IsTruncated (p. 172)**

A flag indicating whether there are more hosted zones to be listed. If the response was truncated, you can get more hosted zones by submitting another ListHostedZones request and specifying the value of NextMarker in the marker parameter.

Type: Boolean

**Marker (p. 172)**

For the second and subsequent calls to ListHostedZones, Marker is the value that you specified for the marker parameter in the request that produced the current response.

Type: String

Length Constraints: Maximum length of 64.

**MaxItems (p. 172)**

The value that you specified for the maxitems parameter in the call to ListHostedZones that produced the current response.

Type: String

**NextMarker (p. 172)**

If IsTruncated is true, the value of NextMarker identifies the first hosted zone in the next group of hosted zones. Submit another ListHostedZones request, and specify the value of NextMarker from the response in the marker parameter.
This element is present only if `IsTruncated` is true.

Type: String

Length Constraints: Maximum length of 64.

Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).

**DelegationSetNotReusable**

A reusable delegation set with the specified ID does not exist.

HTTP Status Code: 400

**InvalidInput**

The input is not valid.

HTTP Status Code: 400

**NoSuchDelegationSet**

A reusable delegation set with the specified ID does not exist.

HTTP Status Code: 400

Examples

Example Request

This example illustrates one usage of ListHostedZones.

```html
GET /2013-04-01/hostedzone?maxitems=1
```

Example Response

This example illustrates one usage of ListHostedZones.

```html
HTTP/1.1 200 OK
<?xml version="1.0" encoding="UTF-8"?>
  <HostedZones>
    <HostedZone>
      <Id>/hostedzone/Z111111QQQQQQQ</Id>
      <Name>example.com.</Name>
      <CallerReference>MyUniqueIdentifier1</CallerReference>
      <Config>
        <Comment>This is my first hosted zone.</Comment>
        <PrivateZone>false</PrivateZone>
      </Config>
      <ResourceRecordSetCount>42</ResourceRecordSetCount>
    </HostedZone>
  </HostedZones>
  <IsTruncated>true</IsTruncated>
  <NextMarker>Z222222VVVVVVV</NextMarker>
  <MaxItems>1</MaxItems>
</ListHostedZonesResponse>
```
See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
ListHostedZonesByName

Service: Amazon Route 53

Retrieves a list of your hosted zones in lexicographic order. The response includes a HostedZones child element for each hosted zone created by the current AWS account.

ListHostedZonesByName sorts hosted zones by name with the labels reversed. For example:

com.example.www.

Note the trailing dot, which can change the sort order in some circumstances.

If the domain name includes escape characters or Punycode, ListHostedZonesByName alphabetizes the domain name using the escaped or Punycoded value, which is the format that Amazon Route 53 saves in its database. For example, to create a hosted zone for exämple.com, you specify ex\344mple.com for the domain name. ListHostedZonesByName alphabetizes it as:

com.ex\344mple.

The labels are reversed and alphabetized using the escaped value. For more information about valid domain name formats, including internationalized domain names, see DNS Domain Name Format in the Amazon Route 53 Developer Guide.

Route 53 returns up to 100 items in each response. If you have a lot of hosted zones, use the MaxItems parameter to list them in groups of up to 100. The response includes values that help navigate from one group of MaxItems hosted zones to the next:

- The DNSName and HostedZoneId elements in the response contain the values, if any, specified for the dnsname and hostedzoneid parameters in the request that produced the current response.
- The MaxItems element in the response contains the value, if any, that you specified for the maxitems parameter in the request that produced the current response.
- If the value of IsTruncated in the response is true, there are more hosted zones associated with the current AWS account.
- If IsTruncated is false, this response includes the last hosted zone that is associated with the current account. The NextDNSName element and NextHostedZoneId elements are omitted from the response.
- The NextDNSName and NextHostedZoneId elements in the response contain the domain name and the hosted zone ID of the next hosted zone that is associated with the current AWS account. If you want to list more hosted zones, make another call to ListHostedZonesByName, and specify the value of NextDNSName and NextHostedZoneId in the dnsname and hostedzoneid parameters, respectively.

Request Syntax

GET /2013-04-01/hostedzonesbyname?
dnsname=DNSName&hostedzoneid=HostedZoneId&maxitems=MaxItems HTTP/1.1

URI Request Parameters

The request uses the following URI parameters.

dnsname  (p. 176)

(Optional) For your first request to ListHostedZonesByName, include the dnsname parameter only if you want to specify the name of the first hosted zone in the response. If you don’t include
the dnsname parameter, Amazon Route 53 returns all of the hosted zones that were created by
the current AWS account, in ASCII order. For subsequent requests, include both dnsname and
hostedzoneid parameters. For dnsname, specify the value of NextDNSName from the previous
response.

Length Constraints: Maximum length of 1024.

hostedzoneid (p. 176)

(Optional) For your first request to ListHostedZonesByName, do not include the hostedzoneid
parameter.

If you have more hosted zones than the value of maxitems, ListHostedZonesByName returns
only the first maxitems hosted zones. To get the next group of maxitems hosted zones, submit
another request to ListHostedZonesByName and include both dnsname and hostedzoneid
parameters. For the value of hostedzoneid, specify the value of the NextHostedZoneId element
from the previous response.

Length Constraints: Maximum length of 32.

maxitems (p. 176)

The maximum number of hosted zones to be included in the response body for this request. If
you have more than maxitems hosted zones, then the value of the IsTruncated element in the
response is true, and the values of NextDNSName and NextHostedZoneId specify the first hosted
zone in the next group of maxitems hosted zones.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<ListHostedZonesByNameResponse>
  <DNSName>string</DNSName>
  <HostedZoneId>string</HostedZoneId>
  <HostedZones>
    <HostedZone>
      <CallerReference>string</CallerReference>
      <Config>
        <Comment>string</Comment>
        <PrivateZone>boolean</PrivateZone>
      </Config>
      <Id>string</Id>
      <LinkedService>
        <Description>string</Description>
        <ServicePrincipal>string</ServicePrincipal>
      </LinkedService>
      <Name>string</Name>
      <ResourceRecordSetCount>long</ResourceRecordSetCount>
    </HostedZone>
  </HostedZones>
  <IsTruncated>boolean</IsTruncated>
  <MaxItems>string</MaxItems>
  <NextDNSName>string</NextDNSName>
  <NextHostedZoneId>string</NextHostedZoneId>
</ListHostedZonesByNameResponse>
```
Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

ListHostedZonesByNameResponse (p. 177)

Root level tag for the ListHostedZonesByNameResponse parameters.

Required: Yes

DNSName (p. 177)

For the second and subsequent calls to ListHostedZonesByName, DNSName is the value that you specified for the dnsname parameter in the request that produced the current response.

Type: String

Length Constraints: Maximum length of 1024.

HostedZoneId (p. 177)

The ID that Amazon Route 53 assigned to the hosted zone when you created it.

Type: String

Length Constraints: Maximum length of 32.

HostedZones (p. 177)

A complex type that contains general information about the hosted zone.

Type: Array of HostedZone (p. 614) objects

IsTruncated (p. 177)

A flag that indicates whether there are more hosted zones to be listed. If the response was truncated, you can get the next group of maxitems hosted zones by calling ListHostedZonesByName again and specifying the values of NextDNSName and NextHostedZoneId elements in the dnsname and hostedzoneid parameters.

Type: Boolean

MaxItems (p. 177)

The value that you specified for the maxitems parameter in the call to ListHostedZonesByName that produced the current response.

Type: String

NextDNSName (p. 177)

If IsTruncated is true, the value of NextDNSName is the name of the first hosted zone in the next group of maxitems hosted zones. Call ListHostedZonesByName again and specify the value of NextDNSName and NextHostedZoneId in the dnsname and hostedzoneid parameters, respectively.

This element is present only if IsTruncated is true.

Type: String

Length Constraints: Maximum length of 1024.
NextHostedZoneId (p. 177)

If IsTruncated is true, the value of NextHostedZoneId identifies the first hosted zone in the next group of maxitems hosted zones. Call ListHostedZonesByName again and specify the value of NextDNSName and NextHostedZoneId in the dnsname and hostedzoneid parameters, respectively.

This element is present only if IsTruncated is true.

Type: String

Length Constraints: Maximum length of 32.

Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).

InvalidDomainName

The specified domain name is not valid.

HTTP Status Code: 400

InvalidInput

The input is not valid.

HTTP Status Code: 400

Examples

Example Request

This example illustrates one usage of ListHostedZonesByName.

GET /2013-04-01/hostedzonesbyname?maxitems=1

Example Response

This example illustrates one usage of ListHostedZonesByName.

HTTP/1.1 200 OK
<?xml version="1.0" encoding="UTF-8"?>
<ListHostedZonesByNameResponse xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <HostedZones>
    <HostedZone>
      <Id>/hostedzone/Z111111QQQQQQQ</Id>
      <Name>example.com.</Name>
      <CallerReference>MyUniqueIdentifier1</CallerReference>
      <Config>
        <Comment>This is my first hosted zone.</Comment>
        <PrivateZone>false</PrivateZone>
      </Config>
      <ResourceRecordSetCount>42</ResourceRecordSetCount>
    </HostedZone>
  </HostedZones>
  <IsTruncated>true</IsTruncated>
  <NextDNSName>example2.com</NextDNSName>
</ListHostedZonesByNameResponse>
See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
**ListHostedZonesByVPC**

**Service:** Amazon Route 53

Lists all the private hosted zones that a specified VPC is associated with, regardless of which AWS account or AWS service owns the hosted zones. The `HostedZoneOwner` structure in the response contains one of the following values:

- An `OwningAccount` element, which contains the account number of either the current AWS account or another AWS account. Some services, such as AWS Cloud Map, create hosted zones using the current account.
- An `OwningService` element, which identifies the AWS service that created and owns the hosted zone. For example, if a hosted zone was created by Amazon Elastic File System (Amazon EFS), the value of Owner is `efs.amazonaws.com`.

**Request Syntax**

```
GET /2013-04-01/hostedzonesbyvpc?
maxitems=MaxItems&nexttoken=NextToken&vpcid=VPCId&vpcregion=VPCRegion HTTP/1.1
```

**URI Request Parameters**

The request uses the following URI parameters.

- **maxitems** *(p. 181)*
  
  (Optional) The maximum number of hosted zones that you want Amazon Route 53 to return. If the specified VPC is associated with more than `MaxItems` hosted zones, the response includes a `NextToken` element. `NextToken` contains an encrypted token that identifies the first hosted zone that Route 53 will return if you submit another request.

- **nexttoken** *(p. 181)*
  
  If the previous response included a `NextToken` element, the specified VPC is associated with more hosted zones. To get more hosted zones, submit another `ListHostedZonesByVPC` request.

  For the value of `NextToken`, specify the value of `NextToken` from the previous response.

  If the previous response didn't include a `NextToken` element, there are no more hosted zones to get.

  Length Constraints: Maximum length of 1024.

- **vpcid** *(p. 181)*
  
  The ID of the Amazon VPC that you want to list hosted zones for.

  Length Constraints: Maximum length of 1024.

  Required: Yes

- **vpcregion** *(p. 181)*
  
  For the Amazon VPC that you specified for `VPCId`, the AWS Region that you created the VPC in.

  Length Constraints: Minimum length of 1. Maximum length of 64.

  **Valid Values:** `us-east-1` | `us-east-2` | `us-west-1` | `us-west-2` | `eu-west-1` | `eu-west-2` | `eu-west-3` | `eu-central-1` | `ap-east-1` | `me-south-1` | `us-gov-west-1`
Amazon Route 53 API Reference
ListHostedZonesByVPC

| us-gov-east-1 | us-iso-east-1 | us-isob-east-1 | ap-southeast-1 | ap-southeast-2 | ap-south-1 | ap-northeast-1 | ap-northeast-2 | ap-northeast-3 | eu-north-1 | sa-east-1 | ca-central-1 | cn-north-1 | af-south-1 | eu-south-1 |

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<ListHostedZonesByVPCResponse>
 <HostedZoneSummaries>
  <HostedZoneSummary>
   <HostedZoneId>string</HostedZoneId>
   <Name>string</Name>
   <Owner>
    <OwningAccount>string</OwningAccount>
    <OwningService>string</OwningService>
   </Owner>
  </HostedZoneSummary>
 </HostedZoneSummaries>
 <MaxItems>string</MaxItems>
 <NextToken>string</NextToken>
</ListHostedZonesByVPCResponse>
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

**ListHostedZonesByVPCResponse (p. 182)**

Root level tag for the ListHostedZonesByVPCResponse parameters.

Required: Yes

**HostedZoneSummaries (p. 182)**

A list that contains one HostedZoneSummary element for each hosted zone that the specified Amazon VPC is associated with. Each HostedZoneSummary element contains the hosted zone name and ID, and information about who owns the hosted zone.

Type: Array of HostedZoneSummary (p. 619) objects

**MaxItems (p. 182)**

The value that you specified for MaxItems in the most recent ListHostedZonesByVPC request.

Type: String

**NextToken (p. 182)**

The value that you will use for NextToken in the next ListHostedZonesByVPC request.

Type: String
Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).

InvalidInput

The input is not valid.

HTTP Status Code: 400

InvalidPaginationToken

The value that you specified to get the second or subsequent page of results is invalid.

HTTP Status Code: 400

Examples

Example Request

This example illustrates one usage of ListHostedZonesByVPC.

GET /2013-04-01/hostedzonesbyvpc?maxitems=10&vpcid=vpc-a1b2c3d4e5&vpcregion=us-west-1
HTTP/1.1

Example Response

This example illustrates one usage of ListHostedZonesByVPC.

HTTP/1.1 200 OK
<?xml version="1.0" encoding="UTF-8"?>
  <HostedZoneSummaries>
    <HostedZoneSummary>
      <HostedZoneId>Z111111QQQQQQQ</HostedZoneId>
      <Name>example.com</Name>
      <Owner>
        <OwningAccount>123456789012</OwningAccount>
      </Owner>
    </HostedZoneSummary>
    <HostedZoneSummary>
      <HostedZoneId>Z222222RRRRRRR</HostedZoneId>
      <Name>example.net</Name>
      <Owner>
        <OwningAccount>111122223333</OwningAccount>
      </Owner>
    </HostedZoneSummary>
    <HostedZoneSummary>
      <HostedZoneId>Z333333SSSSSSS</HostedZoneId>
      <Name>example.org</Name>
      <Owner>
        <OwningService>efs.amazonaws.com</OwningService>
      </Owner>
    </HostedZoneSummary>
  </HostedZoneSummaries>
  <MaxItems>10</MaxItems>
</ListHostedZonesByVPCResponse>
See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
ListQueryLoggingConfigs

Service: Amazon Route 53

Lists the configurations for DNS query logging that are associated with the current AWS account or the configuration that is associated with a specified hosted zone.

For more information about DNS query logs, see CreateQueryLoggingConfig. Additional information, including the format of DNS query logs, appears in Logging DNS Queries in the Amazon Route 53 Developer Guide.

Request Syntax

```
GET /2013-04-01/queryloggingconfig?
hostedzoneid=HostedZoneId&maxresults=MaxResults&nexttoken=NextToken
HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

- **hostedzoneid** (p. 185)
  
  (Optional) If you want to list the query logging configuration that is associated with a hosted zone, specify the ID in HostedZoneId.

  If you don't specify a hosted zone ID, ListQueryLoggingConfigs returns all of the configurations that are associated with the current AWS account.

  Length Constraints: Maximum length of 32.

- **maxresults** (p. 185)
  
  (Optional) The maximum number of query logging configurations that you want Amazon Route 53 to return in response to the current request. If the current AWS account has more than MaxResults configurations, use the value of NextToken in the response to get the next page of results.

  If you don't specify a value for MaxResults, Route 53 returns up to 100 configurations.

- **nexttoken** (p. 185)
  
  (Optional) If the current AWS account has more than MaxResults query logging configurations, use NextToken to get the second and subsequent pages of results.

  For the first ListQueryLoggingConfigs request, omit this value.

  For the second and subsequent requests, get the value of NextToken from the previous response and specify that value for NextToken in the request.

  Length Constraints: Maximum length of 1024.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
```
Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

**ListQueryLoggingConfigsResponse (p. 185)**

Root level tag for the ListQueryLoggingConfigsResponse parameters.

Required: Yes

**NextToken (p. 185)**

If a response includes the last of the query logging configurations that are associated with the current AWS account, NextToken doesn't appear in the response.

If a response doesn't include the last of the configurations, you can get more configurations by submitting another ListQueryLoggingConfigs request. Get the value of NextToken that Amazon Route 53 returned in the previous response and include it in NextToken in the next request.

Type: String

Length Constraints: Maximum length of 1024.

**QueryLoggingConfigs (p. 185)**

An array that contains one QueryLoggingConfig element for each configuration for DNS query logging that is associated with the current AWS account.

Type: Array of QueryLoggingConfig (p. 625) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).

**InvalidInput**

The input is not valid.

HTTP Status Code: 400

**InvalidPaginationToken**

The value that you specified to get the second or subsequent page of results is invalid.

HTTP Status Code: 400

**NoSuchHostedZone**

No hosted zone exists with the ID that you specified.
HTTP Status Code: 404

Examples

Example Request

The following request gets the configuration that is associated with the hosted zone Z1D633PJN98FT9.

```xml
GET /2013-04-01/queryloggingconfig HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
    <HostedZoneId>Z1D633PJN98FT9</HostedZoneId>
    <MaxResults>1</MaxResults>
</ListQueryLoggingConfigsRequest>
```

Example Response

This example illustrates one usage of ListQueryLoggingConfigs.

```xml
HTTP/1.1 200 OK
<?xml version="1.0" encoding="UTF-8"?>
    <NextToken>87654321-dcba-1234-abcd-1a2b3c4d5e70</NextToken>
    <QueryLoggingConfigs>
        <QueryLoggingConfig>
            <Id>87654321-dcba-1234-abcd-1a2b3c4d5e6f</Id>
            <HostedZoneId>Z1D633PJN98FT9</HostedZoneId>
        </QueryLoggingConfig>
    </QueryLoggingConfigs>
</ListQueryLoggingConfigsResponse>
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
ListResourceRecordSets

Service: Amazon Route 53

Lists the resource record sets in a specified hosted zone.

ListResourceRecordSets returns up to 300 resource record sets at a time in ASCII order, beginning at a position specified by the name and type elements.

Sort order

ListResourceRecordSets sorts results first by DNS name with the labels reversed, for example:
com.example.www.

Note the trailing dot, which can change the sort order when the record name contains characters that appear before . (decimal 46) in the ASCII table. These characters include the following: ! " # $ % & ' ( ) * + , -

When multiple records have the same DNS name, ListResourceRecordSets sorts results by the record type.

Specifying where to start listing records

You can use the name and type elements to specify the resource record set that the list begins with:

If you do not specify Name or Type

The results begin with the first resource record set that the hosted zone contains.

If you specify Name but not Type

The results begin with the first resource record set in the list whose name is greater than or equal to Name.

If you specify Type but not Name

Amazon Route 53 returns the InvalidInput error.

If you specify both Name and Type

The results begin with the first resource record set in the list whose name is greater than or equal to Name, and whose type is greater than or equal to Type.

Resource record sets that are PENDING

This action returns the most current version of the records. This includes records that are PENDING, and that are not yet available on all Route 53 DNS servers.

Changing resource record sets

To ensure that you get an accurate listing of the resource record sets for a hosted zone at a point in time, do not submit a ChangeResourceRecordSets request while you're paging through the results of a ListResourceRecordSets request. If you do, some pages may display results without the latest changes while other pages display results with the latest changes.

Displaying the next page of results

If a ListResourceRecordSets command returns more than one page of results, the value of IsTruncated is true. To display the next page of results, get the values of NextRecordName, NextRecordType, and NextRecordIdentifier (if any) from the response. Then submit
another ListResourceRecordSets request, and specify those values for StartRecordName, StartRecordType, and StartRecordIdentifier.

**Request Syntax**

```plaintext
GET /2013-04-01/hostedzone/Id/rrset?
identifier=StartRecordIdentifier&maxitems=MaxItems&name=StartRecordName&
type=StartRecordType
HTTP/1.1
```

**URI Request Parameters**

The request uses the following URI parameters.

**Id** *(p. 189)*

The ID of the hosted zone that contains the resource record sets that you want to list.

Length Constraints: Maximum length of 32.

Required: Yes

**identifier** *(p. 189)*

*Resource record sets that have a routing policy other than simple:* If results were truncated for a given DNS name and type, specify the value of NextRecordIdentifier from the previous response to get the next resource record set that has the current DNS name and type.


**maxitems** *(p. 189)*

(Optional) The maximum number of resource record sets to include in the response body for this request. If the response includes more than maxitems resource record sets, the value of the IsTruncated element in the response is true, and the values of the NextRecordName and NextRecordType elements in the response identify the first resource record set in the next group of maxitems resource record sets.

**name** *(p. 189)*

The first name in the lexicographic ordering of resource record sets that you want to list. If the specified record name doesn't exist, the results begin with the first resource record set that has a name greater than the value of name.

Length Constraints: Maximum length of 1024.

**type** *(p. 189)*

The type of resource record set to begin the record listing from.

Valid values for basic resource record sets: A | AAAA | CNAME | MX | NAPTR | NS | PTR | SOA | SPF | SRV | TXT

Values for weighted, latency, geolocation, and failover resource record sets: A | AAAA | CNAME | MX | NAPTR | PTR | SPF | SRV | TXT

Values for alias resource record sets:

- **API Gateway custom regional API or edge-optimized API:** A
- **CloudFront distribution:** A or AAAA
- **Elastic Beanstalk environment that has a regionalized subdomain:** A
• **Elastic Load Balancing load balancer**: A | AAAA
• **S3 bucket**: A
• **VPC interface VPC endpoint**: A
• **Another resource record set in this hosted zone**: The type of the resource record set that the alias references.

Constraint: Specifying type without specifying name returns an InvalidInput error.

Valid Values: SOA | A | TXT | NS | CNAME | MX | NAPTR | PTR | SRV | SPF | AAAA | CAA | DS

**Request Body**

The request does not have a request body.

**Response Syntax**

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<ListResourceRecordSetsResponse>
  <IsTruncated>boolean</IsTruncated>
  <MaxItems>string</MaxItems>
  <NextRecordIdentifier>string</NextRecordIdentifier>
  <NextRecordName>string</NextRecordName>
  <NextRecordType>string</NextRecordType>
  <ResourceRecordSets>
    <ResourceRecordSet>
      <AliasTarget>
        <DNSName>string</DNSName>
        <EvaluateTargetHealth>boolean</EvaluateTargetHealth>
        <HostedZoneId>string</HostedZoneId>
      </AliasTarget>
      <Failover>string</Failover>
      <GeoLocation>
        <ContinentCode>string</ContinentCode>
        <CountryCode>string</CountryCode>
        <SubdivisionCode>string</SubdivisionCode>
      </GeoLocation>
      <HealthCheckId>string</HealthCheckId>
      <MultiValueAnswer>boolean</MultiValueAnswer>
      <Name>string</Name>
      <Region>string</Region>
      <ResourceRecords>
        <ResourceRecord>
          <Value>string</Value>
        </ResourceRecord>
        <ResourceRecords>
          <SetIdentifier>string</SetIdentifier>
          <TrafficPolicyInstanceId>string</TrafficPolicyInstanceId>
          <TTL>long</TTL>
          <Type>string</Type>
          <Weight>long</Weight>
        </ResourceRecordSet>
      </ResourceRecordSets>
    </ResourceRecordSet>
  </ResourceRecordSets>
</ListResourceRecordSetsResponse>
```

**Response Elements**

If the action is successful, the service sends back an HTTP 200 response.
The following data is returned in XML format by the service.

**ListResourceRecordSetsResponse (p. 190)**

Root level tag for the ListResourceRecordSetsResponse parameters.

Required: Yes

**IsTruncated (p. 190)**

A flag that indicates whether more resource record sets remain to be listed. If your results were truncated, you can make a follow-up pagination request by using the `NextRecordName` element.

Type: Boolean

**MaxItems (p. 190)**

The maximum number of records you requested.

Type: String

**NextRecordIdentifier (p. 190)**

*Resource record sets that have a routing policy other than simple:* If results were truncated for a given DNS name and type, the value of `SetIdentifier` for the next resource record set that has the current DNS name and type.

For information about routing policies, see Choosing a Routing Policy in the Amazon Route 53 Developer Guide.

Type: String


**NextRecordName (p. 190)**

If the results were truncated, the name of the next record in the list.

This element is present only if `IsTruncated` is true.

Type: String

Length Constraints: Maximum length of 1024.

**NextRecordType (p. 190)**

If the results were truncated, the type of the next record in the list.

This element is present only if `IsTruncated` is true.

Type: String

Valid Values: SOA | A | TXT | NS | CNAME | MX | NAPTR | PTR | SRV | SPF | AAAA | CAA | DS

**ResourceRecordSets (p. 190)**

Information about multiple resource record sets.

Type: Array of `ResourceRecordSet (p. 627)` objects

**Errors**

For information about the errors that are common to all actions, see Common Errors (p. 714).
InvalidInput

The input is not valid.

HTTP Status Code: 400

NoSuchHostedZone

No hosted zone exists with the ID that you specified.

HTTP Status Code: 404

Examples

Example Request

This example illustrates one usage of ListResourceRecordSets.

GET /2013-04-01/hostedzone/Z1PA6795UKMFR9/rrset?maxitems=1

Example Response

This example illustrates one usage of ListResourceRecordSets.

HTTP/1.1 200 OK
<?xml version="1.0" encoding="UTF-8"?>
  <ResourceRecordSets>
    <ResourceRecordSet>
      <Name>example.com.</Name>
      <Type>SOA</Type>
      <TTL>900</TTL>
      <ResourceRecords>
        <ResourceRecord>
          <Value>ns-2048.awsdns-64.net. hostmaster.awsdns.com. 1 7200 900 1209600
192
</Value>
        </ResourceRecord>
      </ResourceRecords>
    </ResourceRecordSet>
  </ResourceRecordSets>
  <IsTruncated>true</IsTruncated>
  <MaxItems>1</MaxItems>
  <NextRecordName>example.com.</NextRecordName>
  <NextRecordType>NS</NextRecordType>
</ListResourceRecordSetsResponse>

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
ListReusableDelegationSets
Service: Amazon Route 53

Retrieves a list of the reusable delegation sets that are associated with the current AWS account.

Request Syntax

GET /2013-04-01/delegationset?marker=Marker&maxitems=MaxItems HTTP/1.1

URI Request Parameters

The request uses the following URI parameters.

**marker (p. 194)**

If the value of IsTruncated in the previous response was true, you have more reusable delegation sets. To get another group, submit another ListReusableDelegationSets request.

For the value of marker, specify the value of NextMarker from the previous response, which is the ID of the first reusable delegation set that Amazon Route 53 will return if you submit another request.

If the value of IsTruncated in the previous response was false, there are no more reusable delegation sets to get.

Length Constraints: Maximum length of 64.

**maxitems (p. 194)**

The number of reusable delegation sets that you want Amazon Route 53 to return in the response to this request. If you specify a value greater than 100, Route 53 returns only the first 100 reusable delegation sets.

Request Body

The request does not have a request body.

Response Syntax

HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<ListReusableDelegationSetsResponse>
  <DelegationSets>
    <DelegationSet>
      <CallerReference>string</CallerReference>
      <Id>string</Id>
      <NameServers>
        <NameServer>string</NameServer>
      </NameServers>
    </DelegationSet>
  </DelegationSets>
  <IsTruncated>boolean</IsTruncated>
  <Marker>string</Marker>
  <MaxItems>string</MaxItems>
  <NextMarker>string</NextMarker>
</ListReusableDelegationSetsResponse>
Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

**ListReusableDelegationSetsResponse (p. 194)**

- Root level tag for the ListReusableDelegationSetsResponse parameters.
  - Required: Yes

**DelegationSets (p. 194)**

- A complex type that contains one DelegationSet element for each reusable delegation set that was created by the current AWS account.
  - Type: Array of DelegationSet (p. 595) objects

**IsTruncated (p. 194)**

- A flag that indicates whether there are more reusable delegation sets to be listed.
  - Type: Boolean

**Marker (p. 194)**

- For the second and subsequent calls to ListReusableDelegationSets, Marker is the value that you specified for the marker parameter in the request that produced the current response.
  - Type: String
  - Length Constraints: Maximum length of 64.

**MaxItems (p. 194)**

- The value that you specified for the maxitems parameter in the call to ListReusableDelegationSets that produced the current response.
  - Type: String

**NextMarker (p. 194)**

- If IsTruncated is true, the value of NextMarker identifies the next reusable delegation set that Amazon Route 53 will return if you submit another ListReusableDelegationSets request and specify the value of NextMarker in the marker parameter.
  - Type: String
  - Length Constraints: Maximum length of 64.

Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).

**InvalidInput**

- The input is not valid.

HTTP Status Code: 400
Examples

Example Request

This example illustrates one usage of ListReusableDelegationSets.

GET /2013-04-01/delegationset?maxitems=2

Example Response

This example illustrates one usage of ListReusableDelegationSets.

HTTP/1.1 200 OK
<?xml version="1.0" encoding="UTF-8"?>
  DelegationSets>
  <DelegationSet>
    <Id>/delegationset/N1PA6795SAMPLE</Id>
    <CallerReference>2017-03-15T01:36:41.958Z</CallerReference>
    <NameServers>
      <NameServer>ns-2042.awsdns-64.com</NameServer>
      <NameServer>ns-2043.awsdns-65.net</NameServer>
      <NameServer>ns-2044.awsdns-66.org</NameServer>
      <NameServer>ns-2045.awsdns-67.co.uk</NameServer>
    </NameServers>
  </DelegationSet>
  <DelegationSet>
    <Id>/delegationset/N1PA7000SAMPLE</Id>
    <CallerReference>2017-03-16T01:37:42.959Z</CallerReference>
    <NameServers>
      <NameServer>ns-2046.awsdns-68.com</NameServer>
      <NameServer>ns-2047.awsdns-69.net</NameServer>
      <NameServer>ns-2048.awsdns-70.org</NameServer>
      <NameServer>ns-2049.awsdns-71.co.uk</NameServer>
    </NameServers>
  </DelegationSet>
</DelegationSets>
<IsTruncated>true</IsTruncated>
<NextMarker>N1PA6797SAMPLE</NextMarker>
<MaxItems>2</MaxItems>
</ListReusableDelegationSetsResponse>

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
**ListTagsForResource**

Service: Amazon Route 53

Lists tags for one health check or hosted zone.

For information about using tags for cost allocation, see Using Cost Allocation Tags in the AWS Billing and Cost Management User Guide.

**Request Syntax**

```
GET /2013-04-01/tags/ResourceType/ResourceId HTTP/1.1
```

**URI Request Parameters**

The request uses the following URI parameters.

**ResourceId (p. 197)**

The ID of the resource for which you want to retrieve tags.

Length Constraints: Maximum length of 64.

Required: Yes

**ResourceType (p. 197)**

The type of the resource.

- The resource type for health checks is `healthcheck`.
- The resource type for hosted zones is `hostedzone`.

Valid Values: `healthcheck` | `hostedzone`

Required: Yes

**Request Body**

The request does not have a request body.

**Response Syntax**

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<ListTagsForResourceResponse>
  <ResourceTagSet>
    <ResourceId>string</ResourceId>
    <ResourceType>string</ResourceType>
    <Tags>
      <Tag>
        <Key>string</Key>
        <Value>string</Value>
      </Tag>
    </Tags>
  </ResourceTagSet>
</ListTagsForResourceResponse>
```
Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

**ListTagsForResourceResponse (p. 197)**

Root level tag for the ListTagsForResourceResponse parameters.

Required: Yes

**ResourceTagSet (p. 197)**

A `ResourceTagSet` containing tags associated with the specified resource.

Type: `ResourceTagSet` (p. 635) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).

**InvalidInput**

The input is not valid.

HTTP Status Code: 400

**NoSuchHealthCheck**

No health check exists with the specified ID.

HTTP Status Code: 404

**NoSuchHostedZone**

No hosted zone exists with the ID that you specified.

HTTP Status Code: 404

**PriorRequestNotComplete**

If Amazon Route 53 can't process a request before the next request arrives, it will reject subsequent requests for the same hosted zone and return an HTTP 400 error (Bad request). If Route 53 returns this error repeatedly for the same request, we recommend that you wait, in intervals of increasing duration, before you try the request again.

HTTP Status Code: 400

**ThrottlingException**

The limit on the number of requests per second was exceeded.

HTTP Status Code: 400

Examples

**Example Request**

This example illustrates one usage of ListTagsForResource.
Example Response

This example illustrates one usage of ListTagsForResource.

```xml
HTTP/1.1 200 OK
<?xml version="1.0" encoding="UTF-8"?>
  <ResourceTagSet>
    <ResourceType>healthcheck</ResourceType>
    <ResourceId>abcdef11-2222-3333-4444-555555fedcba</ResourceId>
    <Tags>
      <Tag>
        <Key>Owner</Key>
        <Value>dbadmin</Value>
      </Tag>
      <Tag>
        <Key>Cost Center</Key>
        <Value>80432</Value>
      </Tag>
    </Tags>
  </ResourceTagSet>
</ListTagsForResourceResponse>
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
ListTagsForResources

Service: Amazon Route 53

Lists tags for up to 10 health checks or hosted zones.

For information about using tags for cost allocation, see Using Cost Allocation Tags in the AWS Billing and Cost Management User Guide.

Request Syntax

```
POST /2013-04-01/tags/<ResourceType> HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
<ListTagsForResourcesRequest xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <ResourceIds>
    <ResourceId>string</ResourceId>
  </ResourceIds>
</ListTagsForResourcesRequest>
```

URI Request Parameters

The request uses the following URI parameters.

**ResourceType (p. 200)**

The type of the resources.

- The resource type for health checks is `healthcheck`.
- The resource type for hosted zones is `hostedzone`.

Valid Values: `healthcheck` | `hostedzone`

Required: Yes

Request Body

The request accepts the following data in XML format.

**ListTagsForResourcesRequest (p. 200)**

Root level tag for the ListTagsForResourcesRequest parameters.

Required: Yes

**ResourceIds (p. 200)**

A complex type that contains the Resourceld element for each resource for which you want to get a list of tags.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 10 items.

Length Constraints: Maximum length of 64.

Required: Yes

Response Syntax

```
HTTP/1.1 200
```
<?xml version="1.0" encoding="UTF-8"?>
<ListTagsForResourcesResponse>
  <ResourceTagSets>
    <ResourceTagSet>
      <ResourceId>string</ResourceId>
      <ResourceType>string</ResourceType>
      <Tags>
        <Tag>
          <Key>string</Key>
          <Value>string</Value>
        </Tag>
      </Tags>
    </ResourceTagSet>
  </ResourceTagSets>
</ListTagsForResourcesResponse>

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

**ListTagsForResourcesResponse (p. 200)**

Root level tag for the ListTagsForResourcesResponse parameters.

Required: Yes

**ResourceTagSets (p. 200)**

A list of ResourceTagSets containing tags associated with the specified resources.

Type: Array of ResourceTagSet (p. 635) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).

**InvalidInput**

The input is not valid.

HTTP Status Code: 400

**NoSuchHealthCheck**

No health check exists with the specified ID.

HTTP Status Code: 404

**NoSuchHostedZone**

No hosted zone exists with the ID that you specified.

HTTP Status Code: 404

**PriorRequestNotComplete**

If Amazon Route 53 can't process a request before the next request arrives, it will reject subsequent requests for the same hosted zone and return an HTTP 400 error (Bad request). If Route 53 returns this error repeatedly for the same request, we recommend that you wait, in intervals of increasing duration, before you try the request again.
HTTP Status Code: 400

ThrottlingException

The limit on the number of requests per second was exceeded.

HTTP Status Code: 400

Examples

Example Request

This example illustrates one usage of ListTagsForResources.

```
GET /2013-04-01/tags/healthcheck HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
<ListTagsForResourcesRequest xmlns="https://route53.amazonaws.com/doc/2013-04-01/"
    <ResourceIds>
        <ResourceId>abcdef11-2222-3333-4444-555555fedcba</ResourceId>
        <ResourceId>aaaaaaaa-1234-5678-9012-bbbbbbcccccc</ResourceId>
    </ResourceIds>
</ListTagsForResourcesRequest>
```

Example Response

This example illustrates one usage of ListTagsForResources.

```
HTTP/1.1 200 OK
<?xml version="1.0" encoding="UTF-8"?>
<ListTagsForResourcesResponse xmlns="https://route53.amazonaws.com/doc/2013-04-01/"
    <ResourceTagSets>
        <ResourceTagSet>
            <ResourceType>healthcheck</ResourceType>
            <ResourceId>abcdef11-2222-3333-4444-555555fedcba</ResourceId>
            <Tags>
                <Tag>
                    <Key>Owner</Key>
                    <Value>dbadmin</Value>
                </Tag>
            </Tags>
        </ResourceTagSet>
        <ResourceTagSet>
            <ResourceType>healthcheck</ResourceType>
            <ResourceId>aaaaaaaa-1234-5678-9012-bbbbbbcccccc</ResourceId>
            <Tags>
                <Tag>
                    <Key>Cost Center</Key>
                    <Value>80432</Value>
                </Tag>
            </Tags>
        </ResourceTagSet>
    </ResourceTagSets>
</ListTagsForResourcesResponse>
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
• AWS SDK for C++
• AWS SDK for Go
• AWS SDK for Java V2
• AWS SDK for JavaScript
• AWS SDK for PHP V3
• AWS SDK for Python
• AWS SDK for Ruby V3
ListTrafficPolicies

Service: Amazon Route 53

Gets information about the latest version for every traffic policy that is associated with the current AWS account. Policies are listed in the order that they were created in.

For information about how of deleting a traffic policy affects the response from ListTrafficPolicies, see DeleteTrafficPolicy.

Request Syntax

GET /2013-04-01/trafficpolicies?maxitems=MaxItems&trafficpolicyid=TrafficPolicyIdMarker
HTTP/1.1

URI Request Parameters

The request uses the following URI parameters.

maxitems (p. 204)

(Optional) The maximum number of traffic policies that you want Amazon Route 53 to return in response to this request. If you have more than MaxItems traffic policies, the value of IsTruncated in the response is true, and the value of TrafficPolicyIdMarker is the ID of the first traffic policy that Route 53 will return if you submit another request.

trafficpolicyid (p. 204)

(Conditional) For your first request to ListTrafficPolicies, don't include the TrafficPolicyIdMarker parameter.

If you have more traffic policies than the value of MaxItems, ListTrafficPolicies returns only the first MaxItems traffic policies. To get the next group of policies, submit another request to ListTrafficPolicies. For the value of TrafficPolicyIdMarker, specify the value of TrafficPolicyIdMarker that was returned in the previous response.


Request Body

The request does not have a request body.

Response Syntax

HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<ListTrafficPoliciesResponse>
  <IsTruncated>boolean</IsTruncated>
  <MaxItems:string</MaxItems>
  <TrafficPolicyIdMarker>string</TrafficPolicyIdMarker>
  <TrafficPolicySummaries>
    <TrafficPolicySummary>
      <Id:string</Id>
      <LatestVersion>integer</LatestVersion>
      <Name:string</Name>
      <TrafficPolicyCount>integer</TrafficPolicyCount>
      <Type:string</Type>
    </TrafficPolicySummary>
  </TrafficPolicySummaries>
</ListTrafficPoliciesResponse>
Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

**ListTrafficPoliciesResponse (p. 204)**

Root level tag for the ListTrafficPoliciesResponse parameters.

- **IsTruncated (p. 204)**
  
  A flag that indicates whether there are more traffic policies to be listed. If the response was truncated, you can get the next group of traffic policies by submitting another ListTrafficPolicies request and specifying the value of TrafficPolicyIdMarker in the TrafficPolicyIdMarker request parameter.

  Type: Boolean

- **MaxItems (p. 204)**
  
  The value that you specified for the MaxItems parameter in the ListTrafficPolicies request that produced the current response.

  Type: String

- **TrafficPolicyIdMarker (p. 204)**
  
  If the value of IsTruncated is true, TrafficPolicyIdMarker is the ID of the first traffic policy in the next group of MaxItems traffic policies.

  Type: String


- **TrafficPolicySummaries (p. 204)**

  A list that contains one TrafficPolicySummary element for each traffic policy that was created by the current AWS account.

  Type: Array of TrafficPolicySummary (p. 644) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).

**InvalidInput**

The input is not valid.

HTTP Status Code: 400

Examples

Example Request

This example illustrates one usage of ListTrafficPolicies.
Example Response

This example illustrates one usage of ListTrafficPolicies.

HTTP/1.1 200 OK
<?xml version="1.0" encoding="UTF-8"?>
  <TrafficPolicySummaries>
    <TrafficPolicySummary>
      <Id>12345678-abcd-9876-fedc-1a2b3c4de5f6</Id>
      <Name>MyTrafficPolicy</Name>
      <Type>A</Type>
      <LatestVersion>77</LatestVersion>
      <TrafficPolicyCount>44</TrafficPolicyCount>
    </TrafficPolicySummary>
  </TrafficPolicySummaries>
  <IsTruncated>true</IsTruncated>
  <TrafficPolicyIdMarker>12345678-abcd-9876-fedc-1a2b3c4de5f7</TrafficPolicyIdMarker>
  <MaxItems>1</MaxItems>
</ListTrafficPoliciesResponse>

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
ListTrafficPolicyInstances
Service: Amazon Route 53

Gets information about the traffic policy instances that you created by using the current AWS account.

**Note**
After you submit an UpdateTrafficPolicyInstance request, there's a brief delay while Amazon Route 53 creates the resource record sets that are specified in the traffic policy definition. For more information, see the State response element.

Route 53 returns a maximum of 100 items in each response. If you have a lot of traffic policy instances, you can use the MaxItems parameter to list them in groups of up to 100.

**Request Syntax**

GET /2013-04-01/trafficpolicyinstances?
hostedzoneid=HostedZoneIdMarker&maxitems=MaxItems&trafficpolicyinstancename=TrafficPolicyInstanceNameMarker&trafficpolicyinstancetype=TrafficPolicyInstanceTypeMarker

**HTTP/1.1**

**URI Request Parameters**

The request uses the following URI parameters.

**hostedzoneid** *(p. 207)*

If the value of IsTruncated in the previous response was true, you have more traffic policy instances. To get more traffic policy instances, submit another ListTrafficPolicyInstances request. For the value of HostedZoneId, specify the value of HostedZoneIdMarker from the previous response, which is the hosted zone ID of the first traffic policy instance in the next group of traffic policy instances.

If the value of IsTruncated in the previous response was false, there are no more traffic policy instances to get.

Length Constraints: Maximum length of 32.

**maxitems** *(p. 207)*

The maximum number of traffic policy instances that you want Amazon Route 53 to return in response to a ListTrafficPolicyInstances request. If you have more than MaxItems traffic policy instances, the value of the IsTruncated element in the response is true, and the values of HostedZoneIdMarker, TrafficPolicyInstanceNameMarker, and TrafficPolicyInstanceTypeMarker represent the first traffic policy instance in the next group of MaxItems traffic policy instances.

**trafficpolicyinstancename** *(p. 207)*

If the value of IsTruncated in the previous response was true, you have more traffic policy instances. To get more traffic policy instances, submit another ListTrafficPolicyInstances request. For the value of trafficpolicyinstancename, specify the value of TrafficPolicyInstanceNameMarker from the previous response, which is the name of the first traffic policy instance in the next group of traffic policy instances.

If the value of IsTruncated in the previous response was false, there are no more traffic policy instances to get.

Length Constraints: Maximum length of 1024.
**trafficpolicyinstancetype (p. 207)**

If the value of `IsTruncated` in the previous response was true, you have more traffic policy instances. To get more traffic policy instances, submit another `ListTrafficPolicyInstances` request. For the value of `trafficpolicyinstancetype`, specify the value of `TrafficPolicyInstanceTypeMarker` from the previous response, which is the type of the first traffic policy instance in the next group of traffic policy instances.

If the value of `IsTruncated` in the previous response was false, there are no more traffic policy instances to get.

Valid Values: SOA | A | TXT | NS | CNAME | MX | NAPTR | PTR | SRV | SPF | AAAA | CAA | DS

**Request Body**

The request does not have a request body.

**Response Syntax**

```xml
<http/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<ListTrafficPolicyInstancesResponse>
  <HostedZoneIdMarker>string</HostedZoneIdMarker>
  <IsTruncated>boolean</IsTruncated>
  <MaxItems>string</MaxItems>
  <TrafficPolicyInstanceNameMarker>string</TrafficPolicyInstanceNameMarker>
  <TrafficPolicyInstances>
    <TrafficPolicyInstance>
      <HostedZoneId>string</HostedZoneId>
      <Id>string</Id>
      <Message>string</Message>
      <Name>string</Name>
      <State>string</State>
      <TrafficPolicyId>string</TrafficPolicyId>
      <TrafficPolicyType>string</TrafficPolicyType>
      <TrafficPolicyVersion>integer</TrafficPolicyVersion>
      <TTL>long</TTL>
    </TrafficPolicyInstance>
  </TrafficPolicyInstances>
  <TrafficPolicyInstanceTypeMarker>string</TrafficPolicyInstanceTypeMarker>
</ListTrafficPolicyInstancesResponse>
```

**Response Elements**

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

**ListTrafficPolicyInstancesResponse (p. 208)**

Root level tag for the ListTrafficPolicyInstancesResponse parameters.

Required: Yes

**HostedZoneIdMarker (p. 208)**

If `IsTruncated` is true, `HostedZoneIdMarker` is the ID of the hosted zone of the first traffic policy instance that Route 53 will return if you submit another `ListTrafficPolicyInstances` request.
Type: String

Length Constraints: Maximum length of 32.

**IsTruncated** *(p. 208)*

A flag that indicates whether there are more traffic policy instances to be listed. If the response was truncated, you can get more traffic policy instances by calling `ListTrafficPolicyInstances` again and specifying the values of the `HostedZoneIdMarker`, `TrafficPolicyInstanceNameMarker`, and `TrafficPolicyInstanceTypeMarker` in the corresponding request parameters.

Type: Boolean

**MaxItems** *(p. 208)*

The value that you specified for the `MaxItems` parameter in the call to `ListTrafficPolicyInstances` that produced the current response.

Type: String

**TrafficPolicyInstanceNameMarker** *(p. 208)*

If `IsTruncated` is true, `TrafficPolicyInstanceNameMarker` is the name of the first traffic policy instance that Route 53 will return if you submit another `ListTrafficPolicyInstances` request.

Type: String

Length Constraints: Maximum length of 1024.

**TrafficPolicyInstances** *(p. 208)*

A list that contains one `TrafficPolicyInstance` element for each traffic policy instance that matches the elements in the request.

Type: Array of `TrafficPolicyInstance` *(p. 641)* objects

**TrafficPolicyInstanceTypeMarker** *(p. 208)*

If `IsTruncated` is true, `TrafficPolicyInstanceTypeMarker` is the DNS type of the resource record sets that are associated with the first traffic policy instance that Amazon Route 53 will return if you submit another `ListTrafficPolicyInstances` request.

Type: String

Valid Values: SOA | A | TXT | NS | CNAME | MX | NAPTR | PTR | SRV | SPF | AAAA | CAA | DS

**Errors**

For information about the errors that are common to all actions, see Common Errors *(p. 714).*

**InvalidInput**

The input is not valid.

HTTP Status Code: 400

**NoSuchTrafficPolicyInstance**

No traffic policy instance exists with the specified ID.

HTTP Status Code: 404
Examples

Example Request

The following example shows a request after the first request. (For the first request, you’d specify only the maxitems parameter.)

```
GET /2013-04-01/trafficpolicyinstances?hostedzoneid=Z1D633PJN98FT9
&trafficpolicyinstancename=www.example.com
&trafficpolicyinstancetype=A
&maxitems=1
```

Example Response

This example illustrates one usage of ListTrafficPolicyInstances.

```
HTTP/1.1 200 OK
<?xml version="1.0" encoding="UTF-8"?>
  <TrafficPolicyInstances>
    <TrafficPolicyInstance>
      <Id>12131415-abac-5432-caba-6f5e4d3c2b1a</Id>
      <HostedZoneId>Z1D633PJN98FT9</HostedZoneId>
      <Name>www.example.com</Name>
      <TTL>300</TTL>
      <State>Applied</State>
      <Message/>
      <TrafficPolicyId>12345678-abcd-9876-fedc-1a2b3c4de5f6</TrafficPolicyId>
      <TrafficPolicyType>A</TrafficPolicyType>
    </TrafficPolicyInstance>
  </TrafficPolicyInstances>
  <HostedZoneIdMarker>Z217DLHR85079R</HostedZoneIdMarker>
  <TrafficPolicyInstanceNameMarker>www.example.net</TrafficPolicyInstanceNameMarker>
  <TrafficPolicyInstanceTypeMarker>A</TrafficPolicyInstanceTypeMarker>
  <IsTruncated>true</IsTruncated>
  <MaxItems>1</MaxItems>
</ListTrafficPolicyInstancesResponse>
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
ListTrafficPolicyInstancesByHostedZone

Service: Amazon Route 53

Gets information about the traffic policy instances that you created in a specified hosted zone.

**Note**

After you submit a CreateTrafficPolicyInstance or an UpdateTrafficPolicyInstance request, there's a brief delay while Amazon Route 53 creates the resource record sets that are specified in the traffic policy definition. For more information, see the State response element.

Route 53 returns a maximum of 100 items in each response. If you have a lot of traffic policy instances, you can use the MaxItems parameter to list them in groups of up to 100.

**Request Syntax**

```
GET /2013-04-01/trafficpolicyinstances/hostedzone?
id=HostedZoneId&maxitems=MaxItems&trafficpolicyinstancename=TrafficPolicyInstanceNameMarker&trafficpolicyinstancetype=TrafficPolicyInstanceTypeMarker
```

**HTTP/1.1**

**URI Request Parameters**

The request uses the following URI parameters.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>The ID of the hosted zone that you want to list traffic policy instances for.</td>
</tr>
<tr>
<td></td>
<td>Length Constraints: Maximum length of 32.</td>
</tr>
<tr>
<td></td>
<td>Required: Yes</td>
</tr>
<tr>
<td>maxitems</td>
<td>The maximum number of traffic policy instances to be included in the response body for this request.</td>
</tr>
<tr>
<td></td>
<td>If you have more than MaxItems traffic policy instances, the value of the IsTruncated element in the response is true, and the values of HostedZoneIdMarker, TrafficPolicyInstanceNameMarker, and TrafficPolicyInstanceTypeMarker represent the first traffic policy instance that Amazon Route 53 will return if you submit another request.</td>
</tr>
<tr>
<td>trafficpolicyinstancename</td>
<td>If the value of IsTruncated in the previous response is true, you have more traffic policy instances. To get more traffic policy instances, submit another ListTrafficPolicyInstances request. For the value of trafficpolicyinstancename, specify the value of TrafficPolicyInstanceNameMarker from the previous response, which is the name of the first traffic policy instance in the next group of traffic policy instances.</td>
</tr>
<tr>
<td></td>
<td>If the value of IsTruncated in the previous response was false, there are no more traffic policy instances to get.</td>
</tr>
<tr>
<td></td>
<td>Length Constraints: Maximum length of 1024.</td>
</tr>
<tr>
<td>trafficpolicyinstancetype</td>
<td>If the value of IsTruncated in the previous response is true, you have more traffic policy instances. To get more traffic policy instances, submit another ListTrafficPolicyInstances request. For the value of trafficpolicyinstancetype, specify the value of TrafficPolicyInstanceTypeMarker from the previous response, which is the type of the first traffic policy instance in the next group of traffic policy instances.</td>
</tr>
</tbody>
</table>

211
If the value of `IsTruncated` in the previous response was `false`, there are no more traffic policy instances to get.

Valid Values: SOA | A | TXT | NS | CNAME | MX | NAPTR | PTR | SRV | SPF | AAAA | CAA | DS

**Request Body**

The request does not have a request body.

**Response Syntax**

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<ListTrafficPolicyInstancesByHostedZoneResponse>
  <IsTruncated>boolean</IsTruncated>
  <MaxItems>string</MaxItems>
  <TrafficPolicyInstanceNameMarker>string</TrafficPolicyInstanceNameMarker>
  <TrafficPolicyInstances>
    <TrafficPolicyInstance>
      <HostedZoneId>string</HostedZoneId>
      <Id>string</Id>
      <Message>string</Message>
      <Name>string</Name>
      <State>string</State>
      <TrafficPolicyId>string</TrafficPolicyId>
      <TrafficPolicyType>string</TrafficPolicyType>
      <TrafficPolicyVersion>integer</TrafficPolicyVersion>
      <TTL>long</TTL>
    </TrafficPolicyInstance>
  </TrafficPolicyInstances>
  <TrafficPolicyInstanceTypeMarker>string</TrafficPolicyInstanceTypeMarker>
</ListTrafficPolicyInstancesByHostedZoneResponse>
```

**Response Elements**

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

`ListTrafficPolicyInstancesByHostedZoneResponse` (p. 212)

Root level tag for the `ListTrafficPolicyInstancesByHostedZoneResponse` parameters.

**Required:** Yes

`IsTruncated` (p. 212)

A flag that indicates whether there are more traffic policy instances to be listed. If the response was truncated, you can get the next group of traffic policy instances by submitting another `ListTrafficPolicyInstancesByHostedZone` request and specifying the values of `HostedZoneIdMarker`, `TrafficPolicyInstanceNameMarker`, and `TrafficPolicyInstanceTypeMarker` in the corresponding request parameters.

**Type:** Boolean

`MaxItems` (p. 212)

The value that you specified for the `MaxItems` parameter in the `ListTrafficPolicyInstancesByHostedZone` request that produced the current response.
Type: String

**TrafficPolicyInstanceNameMarker (p. 212)**

If `IsTruncated` is true, `TrafficPolicyInstanceNameMarker` is the name of the first traffic policy instance in the next group of traffic policy instances.

Type: String

Length Constraints: Maximum length of 1024.

**TrafficPolicyInstances (p. 212)**

A list that contains one `TrafficPolicyInstance` element for each traffic policy instance that matches the elements in the request.

Type: Array of `TrafficPolicyInstance` (p. 641) objects

**TrafficPolicyInstanceTypeMarker (p. 212)**

If `IsTruncated` is true, `TrafficPolicyInstanceTypeMarker` is the DNS type of the resource record sets that are associated with the first traffic policy instance in the next group of traffic policy instances.

Type: String

Valid Values: SOA | A | TXT | NS | CNAME | MX | NAPTR | PTR | SRV | SPF | AAAA | CAA | DS

**Errors**

For information about the errors that are common to all actions, see Common Errors (p. 714).

**InvalidInput**

The input is not valid.

HTTP Status Code: 400

**NoSuchHostedZone**

No hosted zone exists with the ID that you specified.

HTTP Status Code: 404

**NoSuchTrafficPolicyInstance**

No traffic policy instance exists with the specified ID.

HTTP Status Code: 404

**Examples**

**Example Request**

The following example shows a request after the first request. For the first request, you'd specify only the `maxitems` parameter or no parameters at all.

```
GET /2013-04-01/trafficpolicyinstances/hostedzone?id=Z1D633PJN98FT9
&trafficpolicyinstancename=www.example.com
&trafficpolicyinstancetype=A
```
Example Response

This example illustrates one usage of ListTrafficPolicyInstancesByHostedZone.

HTTP/1.1 200 OK
<?xml version="1.0" encoding="UTF-8"?>
<TrafficPolicyInstances>
<TrafficPolicyInstance>
<Id>12131415-abac-5432-caba-6f5e4d3c2b1a</Id>
<HostedZoneId>Z1D633PJN98FT9</HostedZoneId>
>Name>www.example.com</Name>
<TTL>300</TTL>
<State>Applied</State>
<Message/>
<TrafficPolicyId>12345678-abcd-9876-fedc-1a2b3c4de5f6</TrafficPolicyId>
<TrafficPolicyType>A</TrafficPolicyType>
</TrafficPolicyInstance>
</TrafficPolicyInstances>
<HostedZoneIdMarker>Z217DLHR85079R</HostedZoneIdMarker>
<TrafficPolicyInstanceNameMarker>wwwtest.example.com</TrafficPolicyInstanceNameMarker>
<TrafficPolicyInstanceTypeMarker>A</TrafficPolicyInstanceTypeMarker>
<IsTruncated>true</IsTruncated>
<MaxItems>1</MaxItems>
</ListTrafficPolicyInstancesByHostedZoneResponse>

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
ListTrafficPolicyInstancesByPolicy

Service: Amazon Route 53

Gets information about the traffic policy instances that you created by using a specify traffic policy version.

**Note**

After you submit a CreateTrafficPolicyInstance or an UpdateTrafficPolicyInstance request, there's a brief delay while Amazon Route 53 creates the resource record sets that are specified in the traffic policy definition. For more information, see the State response element.

Route 53 returns a maximum of 100 items in each response. If you have a lot of traffic policy instances, you can use the MaxItems parameter to list them in groups of up to 100.

**Request Syntax**

```
GET /2013-04-01/trafficpolicyinstances/trafficpolicy?
hostedzoneid=HostedZoneIdMarker&Id=TrafficPolicyId&maxitems=MaxItems&trafficpolicyinstancename=TrafficPolicyInstanceNameMarker&trafficpolicyinstancetype=TrafficPolicyInstanceTypeMarker&version=TrafficPolicyVersion
HTTP/1.1
```

**URI Request Parameters**

The request uses the following URI parameters.

**hostedzoneid** (p. 215)

If the value of IsTruncated in the previous response was true, you have more traffic policy instances. To get more traffic policy instances, submit another ListTrafficPolicyInstancesByPolicy request.

For the value of hostedzoneid, specify the value of HostedZoneIdMarker from the previous response, which is the hosted zone ID of the first traffic policy instance that Amazon Route 53 will return if you submit another request.

If the value of IsTruncated in the previous response was false, there are no more traffic policy instances to get.

Length Constraints: Maximum length of 32.

**id** (p. 215)

The ID of the traffic policy for which you want to list traffic policy instances.


Required: Yes

**maxitems** (p. 215)

The maximum number of traffic policy instances to be included in the response body for this request. If you have more than MaxItems traffic policy instances, the value of the IsTruncated element in the response is true, and the values of HostedZoneIdMarker, TrafficPolicyInstanceNameMarker, and TrafficPolicyInstanceTypeMarker represent the first traffic policy instance that Amazon Route 53 will return if you submit another request.

**trafficpolicyinstancename** (p. 215)

If the value of IsTruncated in the previous response was true, you have more traffic policy instances. To get more traffic policy instances, submit another ListTrafficPolicyInstancesByPolicy request.
For the value of trafficpolicyinstancename, specify the value of TrafficPolicyInstanceNameMarker from the previous response, which is the name of the first traffic policy instance that Amazon Route 53 will return if you submit another request.

If the value of IsTruncated in the previous response was false, there are no more traffic policy instances to get.

Length Constraints: Maximum length of 1024.

trafficpolicyinstancetype (p. 215)

If the value of IsTruncated in the previous response was true, you have more traffic policy instances. To get more traffic policy instances, submit another ListTrafficPolicyInstancesByPolicy request.

For the value of trafficpolicyinstancetype, specify the value of TrafficPolicyInstanceTypeMarker from the previous response, which is the name of the first traffic policy instance that Amazon Route 53 will return if you submit another request.

If the value of IsTruncated in the previous response was false, there are no more traffic policy instances to get.

Valid Values: SOA | A | TXT | NS | CNAME | MX | NAPTR | PTR | SRV | SPF | AAAA | CAA | DS

version (p. 215)

The version of the traffic policy for which you want to list traffic policy instances. The version must be associated with the traffic policy that is specified by TrafficPolicyId.

Valid Range: Minimum value of 1. Maximum value of 1000.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<ListTrafficPolicyInstancesByPolicyResponse>
  <HostedZoneIdMarker>string</HostedZoneIdMarker>
  <IsTruncated>boolean</IsTruncated>
  <MaxItems>string</MaxItems>
  <TrafficPolicyInstanceNameMarker>string</TrafficPolicyInstanceNameMarker>
  <TrafficPolicyInstances>
    <TrafficPolicyInstance>
      <HostedZoneId>string</HostedZoneId>
      <Id>string</Id>
      <Message>string</Message>
      <Name>string</Name>
      <State>string</State>
      <TrafficPolicyId>string</TrafficPolicyId>
      <TrafficPolicyType>string</TrafficPolicyType>
      <TrafficPolicyVersion>integer</TrafficPolicyVersion>
      <TTL>long</TTL>
    </TrafficPolicyInstance>
  </TrafficPolicyInstances>
</ListTrafficPolicyInstancesByPolicyResponse>
Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

ListTrafficPolicyInstancesByPolicyResponse (p. 216)

Root level tag for the ListTrafficPolicyInstancesByPolicyResponse parameters.

Required: Yes

HostedZoneIdMarker (p. 216)

If IsTruncated is true, HostedZoneIdMarker is the ID of the hosted zone of the first traffic policy instance in the next group of traffic policy instances.

Type: String

Length Constraints: Maximum length of 32.

IsTruncated (p. 216)

A flag that indicates whether there are more traffic policy instances to be listed. If the response was truncated, you can get the next group of traffic policy instances by calling ListTrafficPolicyInstancesByPolicy again and specifying the values of the HostedZoneIdMarker, TrafficPolicyInstanceNameMarker, and TrafficPolicyInstanceTypeMarker elements in the corresponding request parameters.

Type: Boolean

MaxItems (p. 216)

The value that you specified for the MaxItems parameter in the call to ListTrafficPolicyInstancesByPolicy that produced the current response.

Type: String

TrafficPolicyInstanceNameMarker (p. 216)

If IsTruncated is true, TrafficPolicyInstanceNameMarker is the name of the first traffic policy instance in the next group of MaxItems traffic policy instances.

Type: String

Length Constraints: Maximum length of 1024.

TrafficPolicyInstances (p. 216)

A list that contains one TrafficPolicyInstance element for each traffic policy instance that matches the elements in the request.

Type: Array of TrafficPolicyInstance (p. 641) objects

TrafficPolicyInstanceTypeMarker (p. 216)

If IsTruncated is true, TrafficPolicyInstanceTypeMarker is the DNS type of the resource record sets that are associated with the first traffic policy instance in the next group of MaxItems traffic policy instances.

Type: String
Valid Values: SOA | A | TXT | NS | CNAME | MX | NAPTR | PTR | SRV | SPF | AAAA | CAA | DS

Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).

InvalidInput

The input is not valid.

HTTP Status Code: 400

NoSuchTrafficPolicy

No traffic policy exists with the specified ID.

HTTP Status Code: 404

NoSuchTrafficPolicyInstance

No traffic policy instance exists with the specified ID.

HTTP Status Code: 404

Examples

Example Request

The following example shows a request after the first request. For the first request, you'd specify only the TrafficPolicyId, TrafficPolicyVersion, and (optionally) MaxItems parameters.

```
GET /2013-04-01/trafficpolicyinstances/trafficpolicy?id=12345678-abcd-9876-fedc-1a2b3c4de5f6
&version=42
&hostedzoneid=Z1D633PJN98FT9
&trafficpolicyinstancename=www.example.com
&trafficpolicyinstancetype=A
&maxitems=1
```

Example Response

This example illustrates one usage of ListTrafficPolicyInstancesByPolicy.

```
HTTP/1.1 200 OK
<?xml version="1.0" encoding="UTF-8"?>
  <TrafficPolicyInstances>
    <TrafficPolicyInstance>
      <Id>12131415-abac-5432-caba-6f5e4d3c2b1a</Id>
      <HostedZoneId>Z1D633PJN98FT9</HostedZoneId>
      <Name>www.example.com</Name>
      <TTL>300</TTL>
      <State>Applied</State>
      <Message/>
      <TrafficPolicyId>12345678-abcd-9876-fedc-1a2b3c4de5f6</TrafficPolicyId>
      <TrafficPolicyVersion>42</TrafficPolicyVersion>
      <TrafficPolicyType>A</TrafficPolicyType>
    </TrafficPolicyInstance>
  </TrafficPolicyInstances>
</ListTrafficPolicyInstancesByPolicyResponse>
```
See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
ListTrafficPolicyVersions
Service: Amazon Route 53

Gets information about all of the versions for a specified traffic policy.
Traffic policy versions are listed in numerical order by VersionNumber.

Request Syntax

GET /2013-04-01/trafficpolicies/Id/versions?
maxitems=MaxItems&trafficpolicyversion=TrafficPolicyVersionMarker HTTP/1.1

URI Request Parameters

The request uses the following URI parameters.

Id (p. 220)
Specify the value of Id of the traffic policy for which you want to list all versions.
Required: Yes

maxitems (p. 220)
The maximum number of traffic policy versions that you want Amazon Route 53 to include in the response body for this request. If the specified traffic policy has more than MaxItems versions, the value of IsTruncated in the response is true, and the value of the TrafficPolicyVersionMarker element is the ID of the first version that Route 53 will return if you submit another request.

trafficpolicyversion (p. 220)
For your first request to ListTrafficPolicyVersions, don't include the TrafficPolicyVersionMarker parameter.
If you have more traffic policy versions than the value of MaxItems, ListTrafficPolicyVersions returns only the first group of MaxItems versions. To get more traffic policy versions, submit another ListTrafficPolicyVersions request. For the value of TrafficPolicyVersionMarker, specify the value of TrafficPolicyVersionMarker in the previous response.
Length Constraints: Maximum length of 4.

Request Body

The request does not have a request body.

Response Syntax

HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<ListTrafficPolicyVersionsResponse>
  <IsTruncated>boolean</IsTruncated>
  <MaxItems>string</MaxItems>
  <TrafficPolicies>
    <TrafficPolicy>
Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

**ListTrafficPolicyVersionsResponse (p. 220)**

Root level tag for the ListTrafficPolicyVersionsResponse parameters.

- **IsTruncated (p. 220)**
  
  A flag that indicates whether there are more traffic policies to be listed. If the response was truncated, you can get the next group of traffic policies by submitting another ListTrafficPolicyVersions request and specifying the value of NextMarker in the marker parameter.

  Type: Boolean

- **MaxItems (p. 220)**
  
  The value that you specified for the maxitems parameter in the ListTrafficPolicyVersions request that produced the current response.

  Type: String

- **TrafficPolicies (p. 220)**
  
  A list that contains one TrafficPolicy element for each traffic policy version that is associated with the specified traffic policy.

  Type: Array of TrafficPolicy (p. 639) objects

- **TrafficPolicyVersionMarker (p. 220)**
  
  If IsTruncated is true, the value of TrafficPolicyVersionMarker identifies the first traffic policy that Amazon Route 53 will return if you submit another request. Call ListTrafficPolicyVersions again and specify the value of TrafficPolicyVersionMarker in the TrafficPolicyVersionMarker request parameter.

  This element is present only if IsTruncated is true.

  Type: String

  Length Constraints: Maximum length of 4.

**Errors**

For information about the errors that are common to all actions, see Common Errors (p. 714).
InvalidInput
The input is not valid.
HTTP Status Code: 400

NoSuchTrafficPolicy
No traffic policy exists with the specified ID.
HTTP Status Code: 404

Examples

Example Request
This example illustrates one usage of ListTrafficPolicyVersions.

GET /2013-04-01/trafficpolicy/12345678-abcd-9876-fedc-1a2b3c4de5f6/versions?maxitems=1

Example Response
This example illustrates one usage of ListTrafficPolicyVersions.

HTTP/1.1 200 OK
<?xml version="1.0" encoding="UTF-8"?>
  <TrafficPolicies>
    <TrafficPolicy>
      <Id>12345678-abcd-9876-fedc-1a2b3c4de5f6</Id>
      <VersionNumber>77</VersionNumber>
      <Name>MyTrafficPolicy</Name>
      <Type>A</Type>
      <Document>JSON-formatted definition of this traffic policy</Document>
      <Comment>First traffic policy</Comment>
    </TrafficPolicy>
  </TrafficPolicies>
  <IsTruncated>true</IsTruncated>
  <TrafficPolicyVersionMarker>12345678-abcd-9876-fedc-1a2b3c4de5f7</TrafficPolicyVersionMarker>
  <MaxItems>1</MaxItems>
</ListTrafficPolicyVersionsResponse>

See Also
For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
ListVPCAssociationAuthorizations
Service: Amazon Route 53

Gets a list of the VPCs that were created by other accounts and that can be associated with a specified hosted zone because you've submitted one or more CreateVPCAssociationAuthorization requests.

The response includes a VPCs element with a VPC child element for each VPC that can be associated with the hosted zone.

Request Syntax

```
GET /2013-04-01/hostedzone/Id/authorizevpcassociation?
maxresults=MaxResults&nexttoken=NextToken  HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

Id (p. 224)

The ID of the hosted zone for which you want a list of VPCs that can be associated with the hosted zone.

Length Constraints: Maximum length of 32.

Required: Yes

maxresults (p. 224)

Optional: An integer that specifies the maximum number of VPCs that you want Amazon Route 53 to return. If you don't specify a value for MaxResults, Route 53 returns up to 50 VPCs per page.

nexttoken (p. 224)

Optional: If a response includes a NextToken element, there are more VPCs that can be associated with the specified hosted zone. To get the next page of results, submit another request, and include the value of NextToken from the response in the nexttoken parameter in another ListVPCAssociationAuthorizations request.

Length Constraints: Maximum length of 1024.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<ListVPCAssociationAuthorizationsResponse>
<HostedZoneId>string</HostedZoneId>
<NextToken>string</NextToken>
<VPCs>
    <VPC>
        <VPCId>string</VPCId>
        <VPCRegion>string</VPCRegion>
    </VPC>
</VPCs>
</ListVPCAssociationAuthorizationsResponse>
```
Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

ListVPCAssociationAuthorizationsResponse (p. 224)

Root level tag for the ListVPCAssociationAuthorizationsResponse parameters.

Required: Yes

HostedZoneId (p. 224)

The ID of the hosted zone that you can associate the listed VPCs with.

Type: String

Length Constraints: Maximum length of 32.

NextToken (p. 224)

When the response includes a NextToken element, there are more VPCs that can be associated with the specified hosted zone. To get the next page of VPCs, submit another ListVPCAssociationAuthorizations request, and include the value of the NextToken element from the response in the nextToken request parameter.

Type: String

Length Constraints: Maximum length of 1024.

VPCs (p. 224)

The list of VPCs that are authorized to be associated with the specified hosted zone.

Type: Array of VPC (p. 646) objects

Array Members: Minimum number of 1 item.

Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).

InvalidInput

The input is not valid.

HTTP Status Code: 400

InvalidPaginationToken

The value that you specified to get the second or subsequent page of results is invalid.

HTTP Status Code: 400

NoSuchHostedZone

No hosted zone exists with the ID that you specified.
HTTP Status Code: 404

Examples

Example Request
This example illustrates one usage of ListVPCAssociationAuthorizations.

GET /2013-04-01/hostedzone/Z1PA6795UKMFR9/authorizevpcassociation&maxresults=1 HTTP/1.1

Example Response
This example illustrates one usage of ListVPCAssociationAuthorizations.

HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<ListVPCAssociationAuthorizationsResponse>
  <HostedZoneId>Z1PA6795UKMFR9</HostedZoneId>
  <NextToken>Z222222VVVVVVV</NextToken>
  <VPCs>
    <VPC>
      <VPCId>vpc-a1b2c3d4e5</VPCId>
      <VPCRegion>us-east-2</VPCRegion>
    </VPC>
  </VPCs>
</ListVPCAssociationAuthorizationsResponse>

See Also
For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
TestDNSAnswer
Service: Amazon Route 53

Gets the value that Amazon Route 53 returns in response to a DNS request for a specified record name and type. You can optionally specify the IP address of a DNS resolver, an EDNS0 client subnet IP address, and a subnet mask.

This call only supports querying public hosted zones.

Request Syntax

```
GET /2013-04-01/testdnsanswer?
edns0clientsubnetip=EDNS0ClientSubnetIP&
edns0clientsubnetmask=EDNS0ClientSubnetMask&
hostedzoneid=HostedZoneId&
recordname=RecordName&
recordtype=RecordType&
resolverip=ResolverIP
```

HTTP/1.1

URI Request Parameters

The request uses the following URI parameters.

**edns0clientsubnetip** (p. 227)

If the resolver that you specified for resolverip supports EDNS0, specify the IPv4 or IPv6 address of a client in the applicable location, for example, 192.0.2.44 or 2001:db8:85a3::8a2e:370:7334.

Length Constraints: Maximum length of 45.

[0-9]|1[0-9][0-9][0-9]|2[0-4][0-9]|25[0-5]))$|((0-9a-fA-F)[1,4]):(7,7)(0-9a-
fa-F){1,4}((0-9a-fA-F)[1,4]):(1,7):((0-9a-fA-F)[1,4]):(1,6):(0-9a-fA-F]
{1,4}((0-9a-fA-F)[1,4]):(1,5):((0-9a-fA-F)[1,4])(1,2):((0-9a-fA-F)[1,4]):
{1,4}((0-9a-fA-F)[1,4])(1,3):((0-9a-fA-F)[1,4])(1,3):((0-9a-fA-F)[1,4])
{1,4}((0-9a-fA-F)[1,4])(1,2):((0-9a-fA-F)[1,4])(1,5):(0-9a-fA-F)[1,4]:
((0-9a-fA-F)[1,4])(1,6):((0-9a-fA-F)[1,4])(1,7):):fe80:(0-9a-fA-F]
{0,4}){0,4}%[0-9a-fA-Z]{1,1}:((ffff:0{1,4})(0,1):{0,1}((25[0-5]|2[0-4]|1
0,1][0-9])0,1)(0,1)[0-9])\.(3,3)(25[0-5]|2[0-4]|10,1|0-9])0,1)(0,1)[0-9])
((0-9a-fA-F)[1,4]:{1,4}((0-9a-fA-F)[1,4])(25[0-5]|2[0-4]|10,1|0-9])0,1)(0,1)
(0,1)[0-9]).\{3,3}(25[0-5]|2[0-4]|10,1|0-9])0,1)(0,1)[0-9])$`

**edns0clientsubnetmask** (p. 227)

If you specify an IP address for edns0clientsubnetip, you can optionally specify the number of bits of the IP address that you want the checking tool to include in the DNS query. For example, if you specify 192.0.2.44 for edns0clientsubnetip and 24 for edns0clientsubnetmask, the checking tool will simulate a request from 192.0.2.0/24. The default value is 24 bits for IPv4 addresses and 64 bits for IPv6 addresses.

The range of valid values depends on whether edns0clientsubnetip is an IPv4 or an IPv6 address:

- **IPv4**: Specify a value between 0 and 32
- **IPv6**: Specify a value between 0 and 128

Length Constraints: Minimum length of 0. Maximum length of 3.

**hostedzoneid** (p. 227)

The ID of the hosted zone that you want Amazon Route 53 to simulate a query for.

Length Constraints: Maximum length of 32.
Required: Yes
**recordname** (p. 227)

The name of the resource record set that you want Amazon Route 53 to simulate a query for.

Length Constraints: Maximum length of 1024.

Required: Yes
**recordtype** (p. 227)

The type of the resource record set.

Valid Values: SOA | A | TXT | NS | CNAME | MX | NAPTR | PTR | SRV | SPF | AAAA | CAA | DS

Required: Yes
**resolverip** (p. 227)

If you want to simulate a request from a specific DNS resolver, specify the IP address for that resolver. If you omit this value, `TestDNSAnswer` uses the IP address of a DNS resolver in the AWS US East (N. Virginia) Region (us-east-1).

Length Constraints: Maximum length of 45.

Pattern:
```
:^(\([0-9\-\.]*\)|([1-9]{1,3}\.){1,3}[0-9]{1,3}\.\d+)$
```

**Request Body**

The request does not have a request body.

**Response Syntax**

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<TestDNSAnswerResponse>
  <Nameserver>string</Nameserver>
  <Protocol>string</Protocol>
  <RecordData>
    <RecordDataEntry>string</RecordDataEntry>
  </RecordData>
  <RecordName>string</RecordName>
  <RecordType>string</RecordType>
  <ResponseCode>string</ResponseCode>
</TestDNSAnswerResponse>
```

**Response Elements**

If the action is successful, the service sends back an HTTP 200 response.
The following data is returned in XML format by the service.

**TestDNSAnswerResponse** (p. 228)

Root level tag for the TestDNSAnswerResponse parameters.

Required: Yes

**Nameserver** (p. 228)

The Amazon Route 53 name server used to respond to the request.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

**Protocol** (p. 228)

The protocol that Amazon Route 53 used to respond to the request, either **UDP** or **TCP**.

Type: String

**RecordData** (p. 228)

A list that contains values that Amazon Route 53 returned for this resource record set.

Type: Array of strings

Length Constraints: Minimum length of 0. Maximum length of 512.

**RecordName** (p. 228)

The name of the resource record set that you submitted a request for.

Type: String

Length Constraints: Maximum length of 1024.

**RecordType** (p. 228)

The type of the resource record set that you submitted a request for.

Type: String

Valid Values: **SOA** | **A** | **TXT** | **NS** | **CNAME** | **MX** | **NAPTR** | **PTR** | **SRV** | **SPF** | **AAAA** | **CAA** | **DS**

**ResponseCode** (p. 228)

A code that indicates whether the request is valid or not. The most common response code is **NOERROR**, meaning that the request is valid. If the response is not valid, Amazon Route 53 returns a response code that describes the error. For a list of possible response codes, see DNS RCODES on the IANA website.

Type: String

**Errors**

For information about the errors that are common to all actions, see Common Errors (p. 714).

**InvalidInput**

The input is not valid.

HTTP Status Code: 400
NoSuchHostedZone

No hosted zone exists with the ID that you specified.

HTTP Status Code: 404

Examples

Example Request

This example illustrates one usage of TestDNSAnswer.

GET /2013-04-01/testdnsanswer?
hostedzoneid=Z111111QQQQQQQ&recordname=www.example.com&recordtype=A&resolverip=192.0.2.44

Example Response

This example illustrates one usage of TestDNSAnswer.

```xml
<?xml version="1.0" encoding="UTF-8"?>
    <Nameserver>ns-2048.awsdns-64.com</Nameserver>
    <RecordName>www.example.com</RecordName>
    <RecordType>A</RecordType>
    <RecordData>
        <RecordDataEntry>198.51.100.222</RecordDataEntry>
    </RecordData>
    <ResponseCode>NOERROR</ResponseCode>
    <Protocol>UDP</Protocol>
</TestDnsAnswerResponse>
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
UpdateHealthCheck

Service: Amazon Route 53

Updates an existing health check. Note that some values can't be updated.

For more information about updating health checks, see Creating, Updating, and Deleting Health Checks in the Amazon Route 53 Developer Guide.

Request Syntax

```
POST /2013-04-01/healthcheck/HealthCheckId HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
  <AlarmIdentifier>
    <Name>string</Name>
    <Region>string</Region>
  </AlarmIdentifier>
  <ChildHealthChecks>
    <ChildHealthCheck>string</ChildHealthCheck>
  </ChildHealthChecks>
  <Disabled>boolean</Disabled>
  <EnableSNI>boolean</EnableSNI>
  <FailureThreshold>integer</FailureThreshold>
  <FullyQualifiedDomainName>string</FullyQualifiedDomainName>
  <HealthCheckVersion>long</HealthCheckVersion>
  <HealthThreshold>integer</HealthThreshold>
  <InsufficientDataHealthStatus>string</InsufficientDataHealthStatus>
  <Inverted>boolean</Inverted>
  <IPAddress>string</IPAddress>
  <Port>integer</Port>
  <Regions>
    <Region>string</Region>
  </Regions>
  <ResetElements>
    <ResettableElementName>string</ResettableElementName>
  </ResetElements>
  <ResourcePath>string</ResourcePath>
  <SearchString>string</SearchString>
</UpdateHealthCheckRequest>
```

URI Request Parameters

The request uses the following URI parameters.

**HealthCheckId (p. 231)**

The ID for the health check for which you want detailed information. When you created the health check, CreateHealthCheck returned the ID in the response, in the HealthCheckId element.

Length Constraints: Maximum length of 64.

Required: Yes

Request Body

The request accepts the following data in XML format.

**UpdateHealthCheckRequest (p. 231)**

Root level tag for the UpdateHealthCheckRequest parameters.
UpdateHealthCheck

Required: Yes

**AlarmIdentifier (p. 231)**

A complex type that identifies the CloudWatch alarm that you want Amazon Route 53 health checkers to use to determine whether the specified health check is healthy.

Type: AlarmIdentifier (p. 584) object

Required: No

**ChildHealthChecks (p. 231)**

A complex type that contains one ChildHealthCheck element for each health check that you want to associate with a CALCULATED health check.

Type: Array of strings

Array Members: Maximum number of 256 items.

Length Constraints: Maximum length of 64.

Required: No

**Disabled (p. 231)**

Stops Route 53 from performing health checks. When you disable a health check, here's what happens:

- **Health checks that check the health of endpoints:** Route 53 stops submitting requests to your application, server, or other resource.
- **Calculated health checks:** Route 53 stops aggregating the status of the referenced health checks.
- **Health checks that monitor CloudWatch alarms:** Route 53 stops monitoring the corresponding CloudWatch metrics.

After you disable a health check, Route 53 considers the status of the health check to always be healthy. If you configured DNS failover, Route 53 continues to route traffic to the corresponding resources. If you want to stop routing traffic to a resource, change the value of Inverted.

Charges for a health check still apply when the health check is disabled. For more information, see Amazon Route 53 Pricing.

Type: Boolean

Required: No

**EnableSNI (p. 231)**

Specify whether you want Amazon Route 53 to send the value of FullyQualifiedDomainName to the endpoint in the client_hello message during TLS negotiation. This allows the endpoint to respond to HTTPS health check requests with the applicable SSL/TLS certificate.

Some endpoints require that HTTPS requests include the host name in the client_hello message. If you don't enable SNI, the status of the health check will be SSL alert handshake_failure. A health check can also have that status for other reasons. If SNI is enabled and you're still getting the error, check the SSL/TLS configuration on your endpoint and confirm that your certificate is valid.

The SSL/TLS certificate on your endpoint includes a domain name in the Common Name field and possibly several more in the Subject Alternative Names field. One of the domain names in the certificate should match the value that you specify for FullyQualifiedDomainName. If the endpoint responds to the client_hello message with a certificate that does not include the domain name that you specified in FullyQualifiedDomainName, a health checker will retry the handshake. In the second attempt, the health checker will omit FullyQualifiedDomainName from the client_hello message.
Type: Boolean
Required: No

**FailureThreshold** *(p. 231)*

The number of consecutive health checks that an endpoint must pass or fail for Amazon Route 53 to change the current status of the endpoint from unhealthy to healthy or vice versa. For more information, see How Amazon Route 53 Determines Whether an Endpoint Is Healthy in the Amazon Route 53 Developer Guide.

If you don't specify a value for FailureThreshold, the default value is three health checks.

Type: Integer
Required: No

**FullyQualifiedDomainName** *(p. 231)*

Amazon Route 53 behavior depends on whether you specify a value for IPAddress.

*Note*
If a health check already has a value for IPAddress, you can change the value. However, you can't update an existing health check to add or remove the value of IPAddress.

**If you specify a value for IPAddress:**

Route 53 sends health check requests to the specified IPv4 or IPv6 address and passes the value of FullyQualifiedDomainName in the Host header for all health checks except TCP health checks. This is typically the fully qualified DNS name of the endpoint on which you want Route 53 to perform health checks.

When Route 53 checks the health of an endpoint, here is how it constructs the Host header:

- If you specify a value of 80 for Port and HTTP or HTTP_STR_MATCH for Type, Route 53 passes the value of FullyQualifiedDomainName to the endpoint in the Host header.
- If you specify a value of 443 for Port and HTTPS or HTTPS_STR_MATCH for Type, Route 53 passes the value of FullyQualifiedDomainName to the endpoint in the Host header.
- If you specify another value for Port and any value except TCP for Type, Route 53 passes FullyQualifiedDomainName:Port to the endpoint in the Host header.

If you don't specify a value for FullyQualifiedDomainName, Route 53 substitutes the value of IPAddress in the Host header in each of the above cases.

**If you don't specify a value for IPAddress:**

If you don't specify a value for IPAddress, Route 53 sends a DNS request to the domain that you specify in FullyQualifiedDomainName at the interval you specify in RequestInterval. Using an IPv4 address that is returned by DNS, Route 53 then checks the health of the endpoint.

*Note*
If you don't specify a value for IPAddress, Route 53 uses only IPv4 to send health checks to the endpoint. If there's no resource record set with a type of A for the name that you specify for FullyQualifiedDomainName, the health check fails with a "DNS resolution failed" error.

If you want to check the health of weighted, latency, or failover resource record sets and you choose to specify the endpoint only by FullyQualifiedDomainName, we recommend that you create a separate health check for each endpoint. For example, create a health check for each HTTP server that is serving content for www.example.com. For the value of FullyQualifiedDomainName,
specify the domain name of the server (such as us-east-2-www.example.com), not the name of the resource record sets (www.example.com).

**Important**
In this configuration, if the value of `FullyQualifiedDomainName` matches the name of the resource record sets and you then associate the health check with those resource record sets, health check results will be unpredictable.

In addition, if the value of `Type` is `HTTP`, `HTTPS`, `HTTP_STR_MATCH`, or `HTTPS_STR_MATCH`, Route 53 passes the value of `FullyQualifiedDomainName` in the `Host` header, as it does when you specify a value for `IPAddress`. If the value of `Type` is `TCP`, Route 53 doesn’t pass a `Host` header.

**Type:** `String`
**Length Constraints:** Maximum length of 255.
**Required:** No

**HealthCheckVersion** *(p. 231)*

A sequential counter that Amazon Route 53 sets to 1 when you create a health check and increments by 1 each time you update settings for the health check.

We recommend that you use `GetHealthCheck` or `ListHealthChecks` to get the current value of `HealthCheckVersion` for the health check that you want to update, and that you include that value in your `UpdateHealthCheck` request. This prevents Route 53 from overwriting an intervening update:

- If the value in the `UpdateHealthCheck` request matches the value of `HealthCheckVersion` in the health check, Route 53 updates the health check with the new settings.
- If the value of `HealthCheckVersion` in the health check is greater, the health check was changed after you got the version number. Route 53 does not update the health check, and it returns a `HealthCheckVersionMismatch` error.

**Type:** `Long`
**Valid Range:** Minimum value of 1.
**Required:** No

**HealthThreshold** *(p. 231)*

The number of child health checks that are associated with a `CALCULATED` health that Amazon Route 53 must consider healthy for the `CALCULATED` health check to be considered healthy. To specify the child health checks that you want to associate with a `CALCULATED` health check, use the `ChildHealthChecks` and `ChildHealthCheck` elements.

Note the following:

- If you specify a number greater than the number of child health checks, Route 53 always considers this health check to be unhealthy.
- If you specify 0, Route 53 always considers this health check to be healthy.

**Type:** `Integer`
**Valid Range:** Minimum value of 0. Maximum value of 256.
**Required:** No

**InsufficientDataHealthStatus** *(p. 231)*

When CloudWatch has insufficient data about the metric to determine the alarm state, the status that you want Amazon Route 53 to assign to the health check:
- **Healthy**: Route 53 considers the health check to be healthy.
- **Unhealthy**: Route 53 considers the health check to be unhealthy.
- **LastKnownStatus**: By default, Route 53 uses the status of the health check from the last time CloudWatch had sufficient data to determine the alarm state. For new health checks that have no last known status, the status for the health check is healthy.

Type: String

Valid Values: Healthy | Unhealthy | LastKnownStatus

Required: No

**Inverted (p. 231)**

Specify whether you want Amazon Route 53 to invert the status of a health check, for example, to consider a health check unhealthy when it otherwise would be considered healthy.

Type: Boolean

Required: No

**IPAddress (p. 231)**

The IPv4 or IPv6 IP address for the endpoint that you want Amazon Route 53 to perform health checks on. If you don't specify a value for IPAddress, Route 53 sends a DNS request to resolve the domain name that you specify in FullyQualifiedDomainName at the interval that you specify in RequestInterval. Using an IP address that is returned by DNS, Route 53 then checks the health of the endpoint.

Use one of the following formats for the value of IPAddress:

- **IPv4 address**: four values between 0 and 255, separated by periods (.), for example, 192.0.2.44.
- **IPv6 address**: eight groups of four hexadecimal values, separated by colons (:), for example, 2001:0db8:85a3:0000:0000:abcd:0001:2345. You can also shorten IPv6 addresses as described in RFC 5952, for example, 2001:db8:85a3::abcd:1:2345.

If the endpoint is an EC2 instance, we recommend that you create an Elastic IP address, associate it with your EC2 instance, and specify the Elastic IP address for IPAddress. This ensures that the IP address of your instance never changes. For more information, see the applicable documentation:

- **Linux**: Elastic IP Addresses (EIP) in the Amazon EC2 User Guide for Linux Instances
- **Windows**: Elastic IP Addresses (EIP) in the Amazon EC2 User Guide for Windows Instances

**Note**

If a health check already has a value for IPAddress, you can change the value. However, you can't update an existing health check to add or remove the value of IPAddress.

For more information, see FullyQualifiedDomainName.

Constraints: Route 53 can't check the health of endpoints for which the IP address is in local, private, non-routable, or multicast ranges. For more information about IP addresses for which you can't create health checks, see the following documents:

- **RFC 5735**, Special Use IPv4 Addresses
- **RFC 6598**, IANA-Reserved IPv4 Prefix for Shared Address Space
- **RFC 5156**, Special-Use IPv6 Addresses

Type: String

Length Constraints: Maximum length of 45.

Pattern: `^(((\[0-9\]|1-9)\|[0-9]\|[1-9]\|[0-9]\|[2][0-4]\|[0-9]\|[25][0-5]))(3)([0-9]\|[1-9]\|[0-9]\|[1-9]\|[0-9]\|[1-9]\|[0-9]\|[2][0-4]\|[0-9]\|[25][0-5])|\^[0-9a-fA-F]((1,4):(7,7)[0-9a-]`
Port (p. 231)

The port on the endpoint that you want Amazon Route 53 to perform health checks on.

**Note**

Don't specify a value for Port when you specify a value for Type of CLOUDWATCH_MGRETIC or CALCULATED.

Type: Integer


**Required**: No

Regions (p. 231)

A complex type that contains one Region element for each region that you want Amazon Route 53 health checkers to check the specified endpoint from.

Type: Array of strings

Array Members: Minimum number of 3 items. Maximum number of 64 items.

Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: us-east-1 | us-west-1 | us-west-2 | eu-west-1 | ap-southeast-1 | ap-southeast-2 | ap-northeast-1 | sa-east-1

**Required**: No

ResetElements (p. 231)

A complex type that contains one ResettableElementName element for each element that you want to reset to the default value. Valid values for ResettableElementName include the following:

- ChildHealthChecks: Amazon Route 53 resets ChildHealthChecks to null.
- FullyQualifiedDomainName: Route 53 resets FullyQualifiedDomainName to null.
- Regions: Route 53 resets the Regions list to the default set of regions.
- ResourcePath: Route 53 resets ResourcePath to null.

Type: Array of strings

Array Members: Maximum number of 64 items.

Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: FullyQualifiedDomainName | Regions | ResourcePath | ChildHealthChecks

**Required**: No
ResourcePath (p. 231)

The path that you want Amazon Route 53 to request when performing health checks. The path can be any value for which your endpoint will return an HTTP status code of 2xx or 3xx when the endpoint is healthy, for example the file /docs/route53-health-check.html. You can also include query string parameters, for example, /welcome.html?language=ja&login=y.

Specify this value only if you want to change it.

Type: String

Length Constraints: Maximum length of 255.

Required: No

SearchString (p. 231)

If the value of Type is HTTP_STR_MATCH or HTTPS_STR_MATCH, the string that you want Amazon Route 53 to search for in the response body from the specified resource. If the string appears in the response body, Route 53 considers the resource healthy. (You can’t change the value of Type when you update a health check.)

Type: String

Length Constraints: Maximum length of 255.

Required: No

Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<UpdateHealthCheckResponse>
  <HealthCheck>
    <CallerReference>string</CallerReference>
    <CloudWatchAlarmConfiguration>
      <ComparisonOperator>string</ComparisonOperator>
      <Dimensions>
        <Dimension>
          <Name>string</Name>
          <Value>string</Value>
        </Dimension>
      </Dimensions>
      <EvaluationPeriods>integer</EvaluationPeriods>
      <MetricName>string</MetricName>
      <Namespace>string</Namespace>
      <Period>integer</Period>
      <Statistic>string</Statistic>
      <Threshold>double</Threshold>
    </CloudWatchAlarmConfiguration>
    <HealthCheckConfig>
      <AlarmIdentifier>
        <Name>string</Name>
        <Region>string</Region>
      </AlarmIdentifier>
      <ChildHealthChecks>
        <ChildHealthCheck>string</ChildHealthCheck>
      </ChildHealthChecks>
      <Disabled>boolean</Disabled>
      <EnableSNI>boolean</EnableSNI>
      <FailureThreshold>integer</FailureThreshold>
      <FullyQualifiedDomainName>string</FullyQualifiedDomainName>
      <HealthThreshold>integer</HealthThreshold>
    </HealthCheckConfig>
  </HealthCheck>
</UpdateHealthCheckResponse>
```
Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

> **HealthCheck** (p. 237)

A complex type that contains the response to an `UpdateHealthCheck` request.

Type:  `HealthCheck` (p. 603) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).

> **HealthCheckVersionMismatch**

The value of `HealthCheckVersion` in the request doesn't match the value of `HealthCheckVersion` in the health check.

HTTP Status Code: 409

> **InvalidInput**

The input is not valid.

HTTP Status Code: 400

> **NoSuchHealthCheck**

No health check exists with the specified ID.

HTTP Status Code: 404
Examples

Request Syntax for HTTP[S], HTTP[S]_STR_MATCH, and TCP Health Checks

This example illustrates one usage of UpdateHealthCheck.

```xml
POST /2013-04-01/healthcheck/health check ID HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
  <EnableSNI>true | false</EnableSNI>
  <FailureThreshold>number of health checks that must pass or fail to change the status of the health check</FailureThreshold>
  <FullyQualifiedDomainName>domain name of the endpoint to check</FullyQualifiedDomainName>
  <HealthCheckVersion>sequential counter</HealthCheckVersion>
  <Inverted>true | false</Inverted>
  <IPAddress>IP address of the endpoint to check</IPAddress>
  <Port>port on the endpoint to check</Port>
  <Regions>
    <Region>us-west-1 | us-west-2 | us-east-1 | eu-west-1 | ap-southeast-1 | ap-southeast-2 | ap-northeast-1 | sa-east-1</Region>
    ...</Regions>
  <ResourcePath>path of the file that you want Route 53 to request</ResourcePath>
  <SearchString>if Type is HTTP_STR_MATCH or HTTPS_STR_MATCH, the string to search for in the response body from the specified resource</SearchString>
</UpdateHealthCheckRequest>
```

Response Syntax for HTTP[S], HTTP[S]_STR_MATCH, and TCP Health Checks

This example illustrates one usage of UpdateHealthCheck.

```xml
HTTP/1.1 201 Created
<?xml version="1.0" encoding="UTF-8"?>
  <HealthCheck>
    <Id>ID that Route 53 assigned to the health check when you created it</Id>
    <CallerReference>unique description</CallerReference>
    <HealthCheckConfig>
      <EnableSNI>true | false</EnableSNI>
      <FailureThreshold>number of health checks that must pass or fail to change the status of the health check</FailureThreshold>
      <FullyQualifiedDomainName>domain name of the endpoint to check</FullyQualifiedDomainName>
      <Inverted>true | false</Inverted>
      <IPAddress>IP address of the endpoint to check</IPAddress>
      <MeasureLatency>true | false</MeasureLatency>
      <Port>port on the endpoint to check</Port>
      <RequestInterval>10 | 30</RequestInterval>
      <ResourcePath>path of the file that you want Route 53 to request</ResourcePath>
      <SearchString>if Type is HTTP_STR_MATCH or HTTPS_STR_MATCH, the string to search for in the response body from the specified resource</SearchString>
      <Type>HTTP | HTTPS | HTTP_STR_MATCH | HTTPS_STR_MATCH | TCP</Type>
    </HealthCheckConfig>
    <HealthCheckVersion>sequential counter</HealthCheckVersion>
  </HealthCheck>
</UpdateHealthCheckResponse>
```

Request Syntax for CLOUDWATCH_METRIC Health Checks

This example illustrates one usage of UpdateHealthCheck.

```xml
239
**POST /2013-04-01/healthcheck/health check ID HTTP/1.1**

```xml
<?xml version="1.0" encoding="UTF-8"?>
    <AlarmIdentifier>
        <Name>name of CloudWatch alarm</Name>
        <Region>region that CloudWatch alarm was created in</Region>
    </AlarmIdentifier>
    <HealthCheckVersion>sequential counter</HealthCheckVersion>
    <InsufficientDataHealthStatus>Healthy | Unhealthy | LastKnownStatus</InsufficientDataHealthStatus>
    <Inverted>true | false</Inverted>
</UpdateHealthCheckRequest>
```

**Response Syntax for CLOUDWATCH_METRIC Health Checks**

This example illustrates one usage of UpdateHealthCheck.

```xml
<?xml version="1.0" encoding="UTF-8"?>
    <HealthCheck>
        <Id>ID that Route 53 assigned to the health check when you created it</Id>
        <CallerReference>unique description</CallerReference>
        <HealthCheckConfig>
            <AlarmIdentifier>
                <Name>name of CloudWatch alarm</Name>
                <Region>region of CloudWatch alarm</Region>
            </AlarmIdentifier>
            <InsufficientDataHealthStatus>Healthy | Unhealthy | LastKnownStatus</InsufficientDataHealthStatus>
            <Inverted>true | false</Inverted>
            <Type>CLOUDWATCH_METRIC</Type>
            <CloudWatchAlarmConfiguration>
                <EvaluationPeriods>number of periods that metric is compared to threshold</EvaluationPeriods>
                <Threshold>value the metric is compared with</Threshold>
                <ComparisonOperator>GreaterThanOrEqualToThreshold | GreaterThanThreshold | LessThanThreshold | LessThanOrEqualToThreshold</ComparisonOperator>
                <Period>duration of a period in seconds</Period>
                <MetricName>name of the metric that's associated with the alarm</MetricName>
                <Namespace>namespace of the metric that the alarm is associated with</Namespace>
                <Statistic>statistic applied to the CloudWatch metric</Statistic>
                <Dimensions>
                    <Dimension>
                        <Name>name of a dimension for the metric</Name>
                        <Value>value of a dimension for the metric</Value>
                    </Dimension>
                </Dimensions>
            </CloudWatchAlarmConfiguration>
            <HealthCheckVersion>sequential counter</HealthCheckVersion>
        </HealthCheck>
    </UpdateHealthCheckResponse>
```

**Request Syntax for CALCULATED Health Checks**

This example illustrates one usage of UpdateHealthCheck.

```xml
<?xml version="1.0" encoding="UTF-8"?>
    <AlarmIdentifier>
        <Name>name of CloudWatch alarm</Name>
        <Region>region that CloudWatch alarm was created in</Region>
    </AlarmIdentifier>
    <HealthCheckVersion>sequential counter</HealthCheckVersion>
    <InsufficientDataHealthStatus>Healthy | Unhealthy | LastKnownStatus</InsufficientDataHealthStatus>
    <Inverted>true | false</Inverted>
</UpdateHealthCheckRequest>
```
  <ChildHealthChecks>
    <ChildHealthCheck>health check ID</ChildHealthCheck>
    ...
  </ChildHealthChecks>
  <HealthCheckVersion>sequential counter</HealthCheckVersion>
  <HealthThreshold>number of health checks that are associated with a CALCULATED health check that must be healthy</HealthThreshold>
  <Inverted>true | false</Inverted>
</UpdateHealthCheckRequest>

Response Syntax for CALCULATED Health Checks

This example illustrates one usage of UpdateHealthCheck.

HTTP/1.1 201 Created
<?xml version="1.0" encoding="UTF-8"?>
  <HealthCheck>
    <Id>ID that Route 53 assigned to the health check when you created it</Id>
    <CallerReference>unique description</CallerReference>
    <HealthCheckConfig>
      <ChildHealthChecks>
        <ChildHealthCheck>health check ID</ChildHealthCheck>
        ...
      </ChildHealthChecks>
      <HealthThreshold>number of health checks associated with a CALCULATED health check that must be healthy</HealthThreshold>
      <Inverted>true | false</Inverted>
      <Type>CALCULATED</Type>
    </HealthCheckConfig>
    <HealthCheckVersion>sequential counter</HealthCheckVersion>
  </HealthCheck>
</UpdateHealthCheckResponse>

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
UpdateHostedZoneComment

Service: Amazon Route 53

Updates the comment for a specified hosted zone.

Request Syntax

POST /2013-04-01/hostedzone/{Id} HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
<UpdateHostedZoneCommentRequest xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <Comment>string</Comment>
</UpdateHostedZoneCommentRequest>

URI Request Parameters

The request uses the following URI parameters.

Id (p. 242)

The ID for the hosted zone that you want to update the comment for.

Length Constraints: Maximum length of 32.

Required: Yes

Request Body

The request accepts the following data in XML format.

UpdateHostedZoneCommentRequest (p. 242)

Root level tag for the UpdateHostedZoneCommentRequest parameters.

Required: Yes

Comment (p. 242)

The new comment for the hosted zone. If you don't specify a value for Comment, Amazon Route 53 deletes the existing value of the Comment element, if any.

Type: String

Length Constraints: Maximum length of 256.

Required: No

Response Syntax

HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<UpdateHostedZoneCommentResponse>
  <HostedZone>
    <CallerReference>string</CallerReference>
    <Config>
      <Comment>string</Comment>
      <PrivateZone>boolean</PrivateZone>
    </Config>
  </HostedZone>
</UpdateHostedZoneCommentResponse>
Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

UpdateHostedZoneCommentResponse (p. 242)

- Root level tag for the UpdateHostedZoneCommentResponse parameters.
  - Required: Yes

HostedZone (p. 242)

- A complex type that contains the response to the UpdateHostedZoneComment request.
  - Type: HostedZone (p. 614) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).

InvalidInput

- The input is not valid.
  - HTTP Status Code: 400

NoSuchHostedZone

- No hosted zone exists with the ID that you specified.
  - HTTP Status Code: 404

Examples

Example Request

This example illustrates one usage of UpdateHostedZoneComment.

```
POST /2013-04-01/hostedzone/hosted zone ID HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
<UpdateHostedZoneCommentRequest xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <Comment>for internal testing</Comment>
</UpdateHostedZoneCommentRequest>
```

Example Response

This example illustrates one usage of UpdateHostedZoneComment.
HTTP/1.1 200 OK
<?xml version="1.0" encoding="UTF-8"?>
  <HostedZone>
    <Id>/hostedzone/Z1D633PJN98FT9</Id>
    <Name>example.com</Name>
    <CallerReference>2014-10-15T01:36:41.958Z</CallerReference>
    <Config>
      <Comment>for internal testing</Comment>
      <PrivateZone>false</PrivateZone>
    </Config>
    <ResourceRecordSetCount>42</ResourceRecordSetCount>
  </HostedZone>
</UpdateHostedZoneCommentResponse>

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
UpdateTrafficPolicyComment
Service: Amazon Route 53

Updates the comment for a specified traffic policy version.

Request Syntax

```
POST /2013-04-01/trafficpolicy/Id/Version HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?
  <Comment>string</Comment>
</UpdateTrafficPolicyCommentRequest>
```

URI Request Parameters

The request uses the following URI parameters.

**Id (p. 245)**

The value of `Id` for the traffic policy that you want to update the comment for.


Required: Yes

**Version (p. 245)**

The value of `Version` for the traffic policy that you want to update the comment for.

Valid Range: Minimum value of 1. Maximum value of 1000.

Required: Yes

Request Body

The request accepts the following data in XML format.

**UpdateTrafficPolicyCommentRequest (p. 245)**

Root level tag for the `UpdateTrafficPolicyCommentRequest` parameters.

Required: Yes

**Comment (p. 245)**

The new comment for the specified traffic policy and version.

Type: String

Length Constraints: Maximum length of 1024.

Required: Yes

Response Syntax

```
HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
```
Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in XML format by the service.

**UpdateTrafficPolicyCommentResponse (p. 245)**

Root level tag for the UpdateTrafficPolicyCommentResponse parameters.

**TrafficPolicy (p. 245)**

A complex type that contains settings for the specified traffic policy.

Type: TrafficPolicy (p. 639) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).

**ConcurrentModification**

Another user submitted a request to create, update, or delete the object at the same time that you did. Retry the request.

HTTP Status Code: 400

**InvalidInput**

The input is not valid.

HTTP Status Code: 400

**NoSuchTrafficPolicy**

No traffic policy exists with the specified ID.

HTTP Status Code: 404

Examples

**Example Request**

This example illustrates one usage of UpdateTrafficPolicyComment.

```
POST /2013-04-01/trafficpolicy/12345678-abcd-9876-fedc-1a2b3c4de5f6/42 HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
```
Example Response

This example illustrates one usage of UpdateTrafficPolicyComment.

HTTP/1.1 200 OK
<?xml version="1.0" encoding="UTF-8"?>
  <Id>12345678-abcd-9876-fedc-1a2b3c4de5f6</Id>
  <VersionNumber>42</VersionNumber>
  <Name>MyTrafficPolicy</Name>
  <Type>A</Type>
  <Document>definition of the traffic policy</Document>
  <Comment>Updated comment</Comment>
</UpdateTrafficPolicyCommentResponse>

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
UpdateTrafficPolicyInstance
Service: Amazon Route 53

Updates the resource record sets in a specified hosted zone that were created based on the settings in a specified traffic policy version.

When you update a traffic policy instance, Amazon Route 53 continues to respond to DNS queries for the root resource record set name (such as example.com) while it replaces one group of resource record sets with another. Route 53 performs the following operations:

1. Route 53 creates a new group of resource record sets based on the specified traffic policy. This is true regardless of how significant the differences are between the existing resource record sets and the new resource record sets.
2. When all of the new resource record sets have been created, Route 53 starts to respond to DNS queries for the root resource record set name (such as example.com) by using the new resource record sets.
3. Route 53 deletes the old group of resource record sets that are associated with the root resource record set name.

Request Syntax

POST /2013-04-01/trafficpolicyinstance/Id HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
  <TrafficPolicyId>string</TrafficPolicyId>
  <TrafficPolicyVersion>integer</TrafficPolicyVersion>
  <TTL>long</TTL>
</UpdateTrafficPolicyInstanceRequest>

URI Request Parameters

The request uses the following URI parameters.

Id  (p. 248)

The ID of the traffic policy instance that you want to update.


Required: Yes

Request Body

The request accepts the following data in XML format.

UpdateTrafficPolicyInstanceRequest  (p. 248)

Root level tag for the UpdateTrafficPolicyInstanceRequest parameters.

Required: Yes

TrafficPolicyId  (p. 248)

The ID of the traffic policy that you want Amazon Route 53 to use to update resource record sets for the specified traffic policy instance.
UpdateTrafficPolicyInstance

Type: String
Required: Yes

TrafficPolicyVersion (p. 248)
The version of the traffic policy that you want Amazon Route 53 to use to update resource record sets for the specified traffic policy instance.
Type: Integer
Valid Range: Minimum value of 1. Maximum value of 1000.
Required: Yes

TTL (p. 248)
The TTL that you want Amazon Route 53 to assign to all of the updated resource record sets.
Type: Long
Valid Range: Minimum value of 0. Maximum value of 2147483647.
Required: Yes

Response Syntax

HTTP/1.1 200
<?xml version="1.0" encoding="UTF-8"?>
<UpdateTrafficPolicyInstanceResponse>
  <TrafficPolicyInstance>
    <HostedZoneId>string</HostedZoneId>
    <Id>string</Id>
    <Message>string</Message>
    <Name>string</Name>
    <State>string</State>
    <TrafficPolicyId>string</TrafficPolicyId>
    <TrafficPolicyType>string</TrafficPolicyType>
    <TrafficPolicyVersion>integer</TrafficPolicyVersion>
    <TTL>long</TTL>
  </TrafficPolicyInstance>
</UpdateTrafficPolicyInstanceResponse>

Response Elements
If the action is successful, the service sends back an HTTP 200 response.
The following data is returned in XML format by the service.

UpdateTrafficPolicyInstanceResponse (p. 249)
Root level tag for the UpdateTrafficPolicyInstanceResponse parameters.
Required: Yes

TrafficPolicyInstance (p. 249)
A complex type that contains settings for the updated traffic policy instance.
Type: TrafficPolicyInstance (p. 641) object
Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).

ConflictingTypes

You tried to update a traffic policy instance by using a traffic policy version that has a different DNS type than the current type for the instance. You specified the type in the JSON document in the CreateTrafficPolicy or CreateTrafficPolicyVersion request.

HTTP Status Code: 400

InvalidInput

The input is not valid.

HTTP Status Code: 400

NoSuchTrafficPolicy

No traffic policy exists with the specified ID.

HTTP Status Code: 404

NoSuchTrafficPolicyInstance

No traffic policy instance exists with the specified ID.

HTTP Status Code: 404

PriorRequestNotComplete

If Amazon Route 53 can't process a request before the next request arrives, it will reject subsequent requests for the same hosted zone and return an HTTP 400 error (Bad request). If Route 53 returns this error repeatedly for the same request, we recommend that you wait, in intervals of increasing duration, before you try the request again.

HTTP Status Code: 400

Examples

Example Request

This example illustrates one usage of UpdateTrafficPolicyInstance.

POST /2013-04-01/trafficpolicyinstance/12131415-abac-5432-caba-6f5e4d3c2b1a HTTP/1.1
<?xml version="1.0" encoding="UTF-8"?>
  <TTL>300</TTL>
  <TrafficPolicyId>12345678-abcd-9876-fedc-1a2b3c4d5e6f</TrafficPolicyId>
  <VersionNumber>7</VersionNumber>
</UpdateTrafficPolicyInstanceRequest>

Example Response

This example illustrates one usage of UpdateTrafficPolicyInstance.

HTTP/1.1 200 OK
<?xml version="1.0" encoding="UTF-8"?>
  <TrafficPolicyInstance>
    250
  </TrafficPolicyInstance>
Amazon Route 53 API Reference
Amazon Route 53 domain registration

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

Amazon Route 53 domain registration

The following actions are supported by Amazon Route 53 domain registration:

- AcceptDomainTransferFromAnotherAwsAccount (p. 253)
- CancelDomainTransferToAnotherAwsAccount (p. 256)
- CheckDomainAvailability (p. 259)
- CheckDomainTransferability (p. 263)
- DeleteTagsForDomain (p. 266)
- DisableDomainAutoRenew (p. 269)
- DisableDomainTransferLock (p. 271)
- EnableDomainAutoRenew (p. 274)
- EnableDomainTransferLock (p. 276)
- GetContactReachabilityStatus (p. 279)
- GetDomainDetail (p. 282)
- GetDomainSuggestions (p. 289)
- GetOperationDetail (p. 292)
- ListDomains (p. 295)
- ListOperations (p. 298)
- ListTagsForDomain (p. 301)
- RegisterDomain (p. 304)
- RejectDomainTransferFromAnotherAwsAccount (p. 311)
- RenewDomain (p. 314)
- ResendContactReachabilityEmail (p. 317)
- RetrieveDomainAuthCode (p. 320)
- TransferDomain (p. 323)
- TransferDomainToAnotherAwsAccount (p. 331)
- UpdateDomainContact (p. 334)
- UpdateDomainContactPrivacy (p. 339)
- UpdateDomainNameservers (p. 343)
- UpdateTagsForDomain (p. 346)
- ViewBilling (p. 349)
AcceptDomainTransferFromAnotherAwsAccount
Service: Amazon Route 53 domain registration

Accepts the transfer of a domain from another AWS account to the current AWS account. You initiate a transfer between AWS accounts using TransferDomainToAnotherAwsAccount.

If you use the AWS CLI command at accept-domain-transfer-from-another-aws-account, use JSON format as input instead of text because otherwise AWS CLI will throw an error from domain transfer input that includes single quotes.

Use either ListOperations or GetOperationDetail to determine whether the operation succeeded. GetOperationDetail provides additional information, for example, Domain Transfer from Aws Account 11122223333 has been cancelled.

Request Syntax

```
{
  "DomainName": "string",
  "Password": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 712).

The request accepts the following data in JSON format.

**DomainName** (p. 253)

The name of the domain that was specified when another AWS account submitted a TransferDomainToAnotherAwsAccount request.

Type: String

Length Constraints: Maximum length of 255.

Required: Yes

**Password** (p. 253)

The password that was returned by the TransferDomainToAnotherAwsAccount request.

Type: String

Required: Yes

Response Syntax

```
{
  "OperationId": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.
The following data is returned in JSON format by the service.

**OperationId (p. 253)**

Identifier for tracking the progress of the request. To query the operation status, use `GetOperationDetail`.

Type: String

Length Constraints: Maximum length of 255.

**Errors**

For information about the errors that are common to all actions, see [Common Errors (p. 714)].

**DomainLimitExceeded**

The number of domains has exceeded the allowed threshold for the account.

HTTP Status Code: 400

**InvalidInput**

The requested item is not acceptable. For example, for APIs that accept a domain name, the request might specify a domain name that doesn't belong to the account that submitted the request. For `AcceptDomainTransferFromAnotherAwsAccount`, the password might be invalid.

HTTP Status Code: 400

**OperationLimitExceeded**

The number of operations or jobs running exceeded the allowed threshold for the account.

HTTP Status Code: 400

**UnsupportedTLD**

Amazon Route 53 does not support this top-level domain (TLD).

HTTP Status Code: 400

**Examples**

**AcceptDomainTransferFromAnotherAwsAccount Example**

This example illustrates one usage of `AcceptDomainTransferFromAnotherAwsAccount`.

**Sample Request**

```plaintext
POST / HTTP/1.1
host:route53domains.us-east-1.amazonaws.com
x-amz-date:20200311T205230Z
authorization:AWS4-HMAC-SHA256
Credential=AKIAIOSFODNN7EXAMPLE/20140711/us-east-1/route53domains/
aws4_request,
SignedHeaders=content-length;content-type;host;user-agent;x-amz-date;x-amz-target,
Signature=[calculated-signature]
x-amz-target:Route53Domains_v20140515.AcceptDomainTransferFromAnotherAwsAccount
user-agent:aws-sdk-java/1.8.3 Linux/2.6.18-164.el5PAE Java_HotSpot(TM)_Server_VM/24.60-  
b09/1.7.0_60
```

254
AcceptDomainTransferFromAnotherAwsAccount

```
content-type: application/x-amz-json-1.1
content-length:[number of characters in the JSON string]
{
   "DomainName":"example.com",
   "Password":"CeT2Zxs-Example"
}
```

**Sample Response**

```
HTTP/1.1 200
Content-Length:[number of characters in the JSON string]
{
   "OperationId":"308c56712-faa4-40fe-94c8-b4230example"
}
```

**See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
CancelDomainTransferToAnotherAwsAccount
Service: Amazon Route 53 domain registration

Cancels the transfer of a domain from the current AWS account to another AWS account. You initiate a transfer between AWS accounts using TransferDomainToAnotherAwsAccount.

**Important**
You must cancel the transfer before the other AWS account accepts the transfer using AcceptDomainTransferFromAnotherAwsAccount.

Use either ListOperations or GetOperationDetail to determine whether the operation succeeded. GetOperationDetail provides additional information, for example, Domain Transfer from Aws Account 111122223333 has been cancelled.

**Request Syntax**

```json
{
   "DomainName": "string"
}
```

**Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 712).

The request accepts the following data in JSON format.

**DomainName (p. 256)**

The name of the domain for which you want to cancel the transfer to another AWS account.

Type: String

Length Constraints: Maximum length of 255.

Required: Yes

**Response Syntax**

```json
{
   "OperationId": "string"
}
```

**Response Elements**

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**OperationId (p. 256)**

The identifier that TransferDomainToAnotherAwsAccount returned to track the progress of the request. Because the transfer request was canceled, the value is no longer valid, and you can't use GetOperationDetail to query the operation status.

Type: String
Length Constraints: Maximum length of 255.

Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).

InvalidInput

The requested item is not acceptable. For example, for APIs that accept a domain name, the request might specify a domain name that doesn't belong to the account that submitted the request. For AcceptDomainTransferFromAnotherAwsAccount, the password might be invalid.

HTTP Status Code: 400

OperationLimitExceeded

The number of operations or jobs running exceeded the allowed threshold for the account.

HTTP Status Code: 400

UnsupportedTLD

Amazon Route 53 does not support this top-level domain (TLD).

HTTP Status Code: 400

Examples

CancelDomainTransferToAnotherAwsAccount Example

This example illustrates one usage of CancelDomainTransferToAnotherAwsAccount.

Sample Request

```plaintext
POST / HTTP/1.1
host:route53domains.us-east-1.amazonaws.com
x-amz-date:20200311T205230Z
authorization:AWS4-HMAC-SHA256
    Credential=AKIAIOSFODNN7EXAMPLE/20140711/us-east-1/route53domains/
    aws4_request,
    SignedHeaders=content-length;content-type;host;user-agent;x-amz-date;x-amz-
    target,
    Signature=[calculated-signature]
x-amz-target:Route53Domains_v20140515.CancelDomainTransferToAnotherAwsAccount
user-agent:aws-sdk-java/1.8.3 Linux/2.6.18-164.el5PAE Java_HotSpot(TM)_Server_VM/24.60-
b09/1.7.0_60
content-type:application/x-amz-json-1.1
content-length:[number of characters in the JSON string]
{
    "DomainName":"example.com"
}
```

Sample Response

```plaintext
HTTP/1.1 200
Content-Length:[number of characters in the JSON string]
{
    "OperationId":"308c56712-faa4-40fe-94c8-b4230example"
}
```
See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
CheckDomainAvailability
Service: Amazon Route 53 domain registration

This operation checks the availability of one domain name. Note that if the availability status of a domain is pending, you must submit another request to determine the availability of the domain name.

Request Syntax

```
{
   "DomainName": "string",
   "IdnLangCode": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 712).

The request accepts the following data in JSON format.

**DomainName** (p. 259)

The name of the domain that you want to get availability for. The top-level domain (TLD), such as .com, must be a TLD that Route 53 supports. For a list of supported TLDs, see Domains that You Can Register with Amazon Route 53 in the Amazon Route 53 Developer Guide.

The domain name can contain only the following characters:

- Letters a through z. Domain names are not case sensitive.
- Numbers 0 through 9.
- Hyphen (-). You can't specify a hyphen at the beginning or end of a label.
- Period (.) to separate the labels in the name, such as the . in example.com.

Internationalized domain names are not supported for some top-level domains. To determine whether the TLD that you want to use supports internationalized domain names, see Domains that You Can Register with Amazon Route 53. For more information, see Formatting Internationalized Domain Names.

Type: String

Length Constraints: Maximum length of 255.

Required: Yes

**IdnLangCode** (p. 259)

Reserved for future use.

Type: String

Length Constraints: Maximum length of 3.

Required: No

Response Syntax

```
{
}
```
"Availability": "string"
}

**Response Elements**

If the action is successful, the service sends back an HTTP 200 response. The following data is returned in JSON format by the service.

**Availability (p. 259)**

Whether the domain name is available for registering.

**Note**

You can register only domains designated as AVAILABLE.

Valid values:

- AVAILABLE
  - The domain name is available.
- AVAILABLE_RESERVED
  - The domain name is reserved under specific conditions.
- AVAILABLE_PREORDER
  - The domain name is available and can be preordered.
- DONT_KNOW
  - The TLD registry didn't reply with a definitive answer about whether the domain name is available. Route 53 can return this response for a variety of reasons, for example, the registry is performing maintenance. Try again later.
- PENDING
  - The TLD registry didn't return a response in the expected amount of time. When the response is delayed, it usually takes just a few extra seconds. You can resubmit the request immediately.
- RESERVED
  - The domain name has been reserved for another person or organization.
- UNAVAILABLE
  - The domain name is not available.
- UNAVAILABLE_PREMIUM
  - The domain name is not available.
- UNAVAILABLE_RESTRICTED
  - The domain name is forbidden.

Type: String

Valid Values: AVAILABLE | AVAILABLE_RESERVED | AVAILABLE_PREORDER | UNAVAILABLE | UNAVAILABLE_PREMIUM | UNAVAILABLE_RESTRICTED | RESERVED | DONT_KNOW

**Errors**

For information about the errors that are common to all actions, see Common Errors (p. 714).
InvalidInput

The requested item is not acceptable. For example, for APIs that accept a domain name, the request might specify a domain name that doesn't belong to the account that submitted the request. For AcceptDomainTransferFromAnotherAwsAccount, the password might be invalid.

HTTP Status Code: 400

UnsupportedTLD

Amazon Route 53 does not support this top-level domain (TLD).

HTTP Status Code: 400

Examples

CheckDomainAvailability Example

This example illustrates one usage of CheckDomainAvailability.

Sample Request

POST / HTTP/1.1
host:route53domains.us-east-1.amazonaws.com
x-amz-date:20140711T205225Z
authorization:AWS4-HMAC-SHA256
aws4_request,
    SignedHeaders=content-length;content-type;host;user-agent;x-amz-date;x-amz-target,
    Signature=[calculated-signature]
x-amz-target:Route53Domains_v20140515.CheckDomainAvailability
user-agent:aws-sdk-java/1.8.3 Linux/2.6.18-164.el5PAE Java_HotSpot(TM)_Server_VM/24.60-b09/1.7.0_60
content-type:application/x-amz-json-1.1
content-length:[number of characters in the JSON string]
connections:Keep-Alive
{
    "DomainName":"example.com"
}

Sample Response

HTTP/1.1 200
Content-Length:[number of characters in the JSON string]
{
    "Availability":"AVAILABLE"
}

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
• AWS SDK for JavaScript
• AWS SDK for PHP V3
• AWS SDK for Python
• AWS SDK for Ruby V3
CheckDomainTransferability
Service: Amazon Route 53 domain registration
Checks whether a domain name can be transferred to Amazon Route 53.

Request Syntax

```
{
  "AuthCode": "string",
  "DomainName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 712).

The request accepts the following data in JSON format.

**AuthCode (p. 263)**

If the registrar for the top-level domain (TLD) requires an authorization code to transfer the domain, the code that you got from the current registrar for the domain.

Type: String

Length Constraints: Maximum length of 1024.

Required: No

**DomainName (p. 263)**

The name of the domain that you want to transfer to Route 53. The top-level domain (TLD), such as .com, must be a TLD that Route 53 supports. For a list of supported TLDs, see Domains that You Can Register with Amazon Route 53 in the Amazon Route 53 Developer Guide.

The domain name can contain only the following characters:
• Letters a through z. Domain names are not case sensitive.
• Numbers 0 through 9.
• Hyphen (-). You can't specify a hyphen at the beginning or end of a label.
• Period (.) to separate the labels in the name, such as the . in example.com.

Type: String

Length Constraints: Maximum length of 255.

Required: Yes

Response Syntax

```
{
  "Transferability": {
    "Transferable": "string"
  }
}
```
Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**Transferability** (p. 263)

A complex type that contains information about whether the specified domain can be transferred to Route 53.

Type: [DomainTransferability](#) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).

**InvalidInput**

The requested item is not acceptable. For example, for APIs that accept a domain name, the request might specify a domain name that doesn't belong to the account that submitted the request. For AcceptDomainTransferFromAnotherAwsAccount, the password might be invalid.

HTTP Status Code: 400

**UnsupportedTLD**

Amazon Route 53 does not support this top-level domain (TLD).

HTTP Status Code: 400

Examples

**CheckDomainTransferability Example**

This example illustrates one usage of CheckDomainTransferability.

**Sample Request**

```
POST / HTTP/1.1
host:route53domains.us-east-1.amazonaws.com
x-amz-date:20140711T205225Z
authorization:AWS4-HMAC-SHA256
    Credential=AKIAIOSFODNN7EXAMPLE/20140711/us-east-1/route53domains/
    aws4_request,
    SignedHeaders=content-length;content-type;host;user-agent;x-amz-date;x-amz-target,
    Signature=[calculated-signature]
x-amz-target:Route53Domains_v20140515.CheckDomainTransferability
user-agent:aws-sdk-java/1.8.3 Linux/2.6.18-164.el5PAE Java_HotSpot (TM )_Server_VM/24.60-b09/1.7.0_60
content-type:application/x-amz-json-1.1
content-length:[number of characters in the JSON string]
connections:Keep-Alive
{
    "DomainName": "example.com",
    "AuthCode": "T92XJ38"
}
```
Sample Response

HTTP/1.1 200
Content-Length:[number of characters in the JSON string]  
{  
   "Transferability":  
   {"Transferable":"TRANSFERABLE"}  
}

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
DeleteTagsForDomain

Service: Amazon Route 53 domain registration

This operation deletes the specified tags for a domain.

All tag operations are eventually consistent; subsequent operations might not immediately represent all issued operations.

Request Syntax

```
{
  "DomainName": "string",
  "TagsToDelete": [ "string" ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 712).

The request accepts the following data in JSON format.

**DomainName**  (p. 266)

The domain for which you want to delete one or more tags.

Type: String

Length Constraints: Maximum length of 255.

Required: Yes

**TagsToDelete**  (p. 266)

A list of tag keys to delete.

Type: Array of strings

Required: Yes

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).

**InvalidInput**

The requested item is not acceptable. For example, for APIs that accept a domain name, the request might specify a domain name that doesn't belong to the account that submitted the request. For AcceptDomainTransferFromAnotherAwsAccount, the password might be invalid.

HTTP Status Code: 400

**OperationLimitExceeded**

The number of operations or jobs running exceeded the allowed threshold for the account.
HTTP Status Code: 400

UnsupportedTLD

Amazon Route 53 does not support this top-level domain (TLD).

HTTP Status Code: 400

Examples

DeleteTagsForDomain Example

This example illustrates one usage of DeleteTagsForDomain.

Sample Request

```
POST / HTTP/1.1
host:route53domains.us-east-1.amazonaws.com
x-amz-date:20140711T205230Z
authorization:AWS4-HMAC-SHA256
    Credential=AKIAIOSFODNN7EXAMPLE/20140711/us-east-1/route53domains/
aws4_request,
    SignedHeaders=content-length;content-type;host;user-agent;x-amz-date;x-amz-
target,
    Signature=[calculated-signature]
    x-amz-target:Route53Domains_v20140515.DeleteTagsForDomain
user-agent:aws-sdk-java/1.8.3 Linux/2.6.18-164.el5PAE Java_HotSpot (TM )_Server_VM/24.60-
b09/1.7.0_60
content-type:application/x-amz-json-1.1
content-length:[number of characters in the JSON string]
{
    "DomainName": "example.com",
    "TagsToDelete": ["foo",
                    "foo2"
                ]
}
```

Sample Response

```
HTTP/1.1 200
Content-Length:[number of characters in the JSON string]
{}
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
DisableDomainAutoRenew

Service: Amazon Route 53 domain registration

This operation disables automatic renewal of domain registration for the specified domain.

Request Syntax

```
{
   "DomainName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 712).

The request accepts the following data in JSON format.

DomainName (p. 269)

The name of the domain that you want to disable automatic renewal for.

Type: String

Length Constraints: Maximum length of 255.

Required: Yes

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).

InvalidInput

The requested item is not acceptable. For example, for APIs that accept a domain name, the request might specify a domain name that doesn't belong to the account that submitted the request. For AcceptDomainTransferFromAnotherAwsAccount, the password might be invalid.

HTTP Status Code: 400

UnsupportedTLD

Amazon Route 53 does not support this top-level domain (TLD).

HTTP Status Code: 400

Examples

DisableDomainAutoRenew Example

This example illustrates one usage of DisableDomainAutoRenew.
Sample Request

```plaintext
POST / HTTP/1.1
host:route53domains.us-east-1.amazonaws.com
x-amz-date:20140711T205230Z
authorization:AWS4-HMAC-SHA256

Credential=AKIAIOSFODNN7EXAMPLE/20140711/us-east-1/route53domains/
aws4_request,
    SignedHeaders=content-length;content-type;host;user-agent;x-amz-date;x-amz-
target,
    Signature=[calculated-signature]

x-amz-target:Route53Domains_v20140515.DisableDomainAutoRenew
user-agent:aws-sdk-java/1.8.3 Linux/2.6.18-164.el5PAE Java_HotSpot(TM)_Server_VM/24.60-
b09/1.7.0_60
content-type:application/x-amz-json-1.1
content-length:[number of characters in the JSON string]
{
    "DomainName":"example.com"
}
```

Sample Response

```plaintext
HTTP/1.1 200
Content-Length:[number of characters in the JSON string]{
}
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
DisableDomainTransferLock

Service: Amazon Route 53 domain registration

This operation removes the transfer lock on the domain (specifically the clientTransferProhibited status) to allow domain transfers. We recommend you refrain from performing this action unless you intend to transfer the domain to a different registrar. Successful submission returns an operation ID that you can use to track the progress and completion of the action. If the request is not completed successfully, the domain registrant will be notified by email.

Request Syntax

```
{
   "DomainName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 712).

The request accepts the following data in JSON format.

DomainName (p. 271)

- The name of the domain that you want to remove the transfer lock for.
- Type: String
- Length Constraints: Maximum length of 255.
- Required: Yes

Response Syntax

```
{
   "OperationId": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

OperationId (p. 271)

- Identifier for tracking the progress of the request. To query the operation status, use GetOperationDetail.
- Type: String
- Length Constraints: Maximum length of 255.

Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).
DuplicateRequest

The request is already in progress for the domain.

HTTP Status Code: 400

InvalidInput

The requested item is not acceptable. For example, for APIs that accept a domain name, the request might specify a domain name that doesn't belong to the account that submitted the request. For AcceptDomainTransferFromAnotherAwsAccount, the password might be invalid.

HTTP Status Code: 400

OperationLimitExceeded

The number of operations or jobs running exceeded the allowed threshold for the account.

HTTP Status Code: 400

TLDRulesViolation

The top-level domain does not support this operation.

HTTP Status Code: 400

UnsupportedTLD

Amazon Route 53 does not support this top-level domain (TLD).

HTTP Status Code: 400

Examples

DisableDomainTransferLock Example

This example illustrates one usage of DisableDomainTransferLock.

Sample Request

POST / HTTP/1.1
host:route53domains.us-east-1.amazonaws.com
x-amz-date:20140711T205230Z
authorization:AWS4-HMAC-SHA256
Credential=AKIAIOSFODNN7EXAMPLE/20140711/us-east-1/route53domains/
aws4_request,
SignedHeaders=content-length;content-type;host;user-agent;x-amz-date;x-amz-
target,
Signature=[calculated-signature]
x-amz-target:Route53Domains_v20140515.DisableDomainTransferLock
user-agent:aws-sdk-java/1.8.3 Linux/2.6.18-164.el5PAE Java HotSpot (TM) _Server_VM/24.60-
b09/1.7.0_60
content-type:application/x-amz-json-1.1
content-length:[number of characters in the JSON string]
{
"DomainName":"example.com"
}

Sample Response

HTTP/1.1 200
Content-Length:[number of characters in the JSON string]
{  
  "OperationId":"0b370c79-faa4-40fe-94c8-b423069de3f6"
}

**See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
EnableDomainAutoRenew
Service: Amazon Route 53 domain registration

This operation configures Amazon Route 53 to automatically renew the specified domain before the domain registration expires. The cost of renewing your domain registration is billed to your AWS account.

The period during which you can renew a domain name varies by TLD. For a list of TLDs and their renewal policies, see Domains That You Can Register with Amazon Route 53 in the Amazon Route 53 Developer Guide. Route 53 requires that you renew before the end of the renewal period so we can complete processing before the deadline.

Request Syntax

```
{
  "DomainName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 712).

The request accepts the following data in JSON format.

DomainName (p. 274)

The name of the domain that you want to enable automatic renewal for.

- Type: String
- Length Constraints: Maximum length of 255.
- Required: Yes

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).

InvalidInput

The requested item is not acceptable. For example, for APIs that accept a domain name, the request might specify a domain name that doesn't belong to the account that submitted the request. For AcceptDomainTransferFromAnotherAwsAccount, the password might be invalid.

HTTP Status Code: 400

TLDRulesViolation

The top-level domain does not support this operation.

HTTP Status Code: 400

UnsupportedTLD

Amazon Route 53 does not support this top-level domain (TLD).
HTTP Status Code: 400

Examples

EnableDomainAutoRenew Example

This example illustrates one usage of EnableDomainAutoRenew.

Sample Request

```plaintext
POST / HTTP/1.1
host:route53domains.us-east-1.amazonaws.com
x-amz-date:20140711T205230Z
authorization:AWS4-HMAC-SHA256
  Credential=AKIAIOSFODNN7EXAMPLE/20140711/us-east-1/route53domains/
  aws4_request,
    SignedHeaders=content-length;content-type;host;user-agent;x-amz-date;x-amz-
    target,
    Signature=[calculated-signature]
  x-amz-target:Route53Domains_v20140515.EnableDomainAutoRenew
user-agent:aws-sdk-java/1.8.3 Linux/2.6.18-164.el5PAE Java_HotSpot (TM)_Server_VM/24.60-
b09/1.7.0_60
content-type:application/x-amz-json-1.1
content-length:[number of characters in the JSON string]
{
  "DomainName":"example.com"
}
```

Sample Response

```plaintext
HTTP/1.1 200
Content-Length:[number of characters in the JSON string]{}
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
EnableDomainTransferLock
Service: Amazon Route 53 domain registration

This operation sets the transfer lock on the domain (specifically the clientTransferProhibited status) to prevent domain transfers. Successful submission returns an operation ID that you can use to track the progress and completion of the action. If the request is not completed successfully, the domain registrant will be notified by email.

Request Syntax

```
{
   "DomainName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 712).

The request accepts the following data in JSON format.

**DomainName** (p. 276)

The name of the domain that you want to set the transfer lock for.

- Type: String
- Length Constraints: Maximum length of 255.
- Required: Yes

Response Syntax

```
{
   "OperationId": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**OperationId** (p. 276)

Identifier for tracking the progress of the request. To use this ID to query the operation status, use GetOperationDetail.

- Type: String
- Length Constraints: Maximum length of 255.

Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).
DuplicateRequest

The request is already in progress for the domain.

HTTP Status Code: 400

InvalidInput

The requested item is not acceptable. For example, for APIs that accept a domain name, the request might specify a domain name that doesn't belong to the account that submitted the request. For AcceptDomainTransferFromAnotherAwsAccount, the password might be invalid.

HTTP Status Code: 400

OperationLimitExceeded

The number of operations or jobs running exceeded the allowed threshold for the account.

HTTP Status Code: 400

TLDRulesViolation

The top-level domain does not support this operation.

HTTP Status Code: 400

UnsupportedTLD

Amazon Route 53 does not support this top-level domain (TLD).

HTTP Status Code: 400

Examples

EnableDomainTransferLock Example

This example illustrates one usage of EnableDomainTransferLock.

Sample Request

```
POST / HTTP/1.1
host:route53domains.us-east-1.amazonaws.com
x-amz-date:20140711T205230Z
authorization:AWS4-HMAC-SHA256
Credential=AKIAIOSFODNN7EXAMPLE/20140711/us-east-1/route53domains/
aws4_request,
SignedHeaders=content-length;content-type;host;user-agent;x-amz-date;x-amz-
target,
Signature=[calculated-signature]
x-amz-target:Route53Domains_v20140515.EnableDomainTransferLock
user-agent:aws-sdk-java/1.8.3 Linux/2.6.18-164.el5PAE Java HotSpot (TM)_Server_VM/24.60-b09/1.7.0_60
content-type:application/x-amz-json-1.1
content-length:[number of characters in the JSON string]
{
  "DomainName":"example.com"
}
```

Sample Response

```
HTTP/1.1 200
Content-Length:[number of characters in the JSON string]
```
EnableDomainTransferLock

```json
{
  "OperationId":"0b370c79-faa4-40fe-94c8-b423069de3f6"
}
```

**See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
GetContactReachabilityStatus

Service: Amazon Route 53 domain registration

For operations that require confirmation that the email address for the registrant contact is valid, such as registering a new domain, this operation returns information about whether the registrant contact has responded.

If you want us to resend the email, use the ResendContactReachabilityEmail operation.

Request Syntax

```json
{
   "domainName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 712).

The request accepts the following data in JSON format.

**domainName (p. 279)**

The name of the domain for which you want to know whether the registrant contact has confirmed that the email address is valid.

Type: String

Length Constraints: Maximum length of 255.

Required: No

Response Syntax

```json
{
   "domainName": "string",
   "status": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**domainName (p. 279)**

The domain name for which you requested the reachability status.

Type: String

Length Constraints: Maximum length of 255.

**status (p. 279)**

Whether the registrant contact has responded. Values include the following:
**GetContactReachabilityStatus**

**Pending**
We sent the confirmation email and haven't received a response yet.

**Done**
We sent the email and got confirmation from the registrant contact.

**Expired**
The time limit expired before the registrant contact responded.

Type: String

Valid Values: PENDING | DONE | EXPIRED

**Errors**

For information about the errors that are common to all actions, see Common Errors (p. 714).

**InvalidInput**

The requested item is not acceptable. For example, for APIs that accept a domain name, the request might specify a domain name that doesn't belong to the account that submitted the request. For AcceptDomainTransferFromAnotherAwsAccount, the password might be invalid.

HTTP Status Code: 400

**OperationLimitExceeded**

The number of operations or jobs running exceeded the allowed threshold for the account.

HTTP Status Code: 400

**UnsupportedTLD**

Amazon Route 53 does not support this top-level domain (TLD).

HTTP Status Code: 400

**Examples**

**GetContactReachabilityStatus Example**

This example illustrates one usage of GetContactReachabilityStatus.

**Sample Request**

<table>
<thead>
<tr>
<th>POST / HTTP/1.1</th>
</tr>
</thead>
</table>
host:route53domains.us-east-1.amazonaws.com |
x-amz-date:20140711T205225Z |
authorization:AWS4-HMAC-SHA256 |
Credential=AKIAIOSFODNN7EXAMPLE/20140711/us-east-1/route53domains/
aws4_request, SignedHeaders=content-length;content-type;host:user-agent;x-amz-date;x-amz-target, |
Signature=[calculated-signature] |
x-amz-target:Route53Domains_v20140515.GetContactReachabilityStatus |
user-agent:aws-sdk-java/1.8.3 Linux/2.6.18-164.el5PAE Java_HotSpot(TM)_Server_VM/24.60-b09/1.7.0_60 |
content-type:application/x-amz-json-1.1 |
Sample Response

HTTP/1.1 200
Content-Length:[number of characters in the JSON string]
{
    "domainName":"example.com",
    "status":"PENDING"
}

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
GetDomainDetail
Service: Amazon Route 53 domain registration

This operation returns detailed information about a specified domain that is associated with the current AWS account. Contact information for the domain is also returned as part of the output.

Request Syntax

```json
{
   "DomainName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 712).

The request accepts the following data in JSON format.

**DomainName** (p. 282)

The name of the domain that you want to get detailed information about.

Type: String

Length Constraints: Maximum length of 255.

Required: Yes

Response Syntax

```json
{
   "AbuseContactEmail": "string",
   "AbuseContactPhone": "string",
   "AdminContact": {
      "AddressLine1": "string",
      "AddressLine2": "string",
      "City": "string",
      "ContactType": "string",
      "CountryCode": "string",
      "Email": "string",
      "ExtraParams": [
         {
            "Name": "string",
            "Value": "string"
         }
      ],
      "Fax": "string",
      "FirstName": "string",
      "LastName": "string",
      "OrganizationName": "string",
      "PhoneNumber": "string",
      "State": "string",
      "ZipCode": "string"
   },
   "AdminPrivacy": boolean,
   "AutoRenew": boolean,
   "CreationDate": number,
   "DnsSec": "string"
}
```
"DomainName": "string",
"ExpirationDate": number,
"Nameservers": [
  {
    "GlueIps": [ "string" ],
    "Name": "string"
  }
],
"RegistrantContact": {
  "AddressLine1": "string",
  "AddressLine2": "string",
  "City": "string",
  "ContactType": "string",
  "CountryCode": "string",
  "Email": "string",
  "ExtraParams": [
    {
      "Name": "string",
      "Value": "string"
    }
  ],
  "Fax": "string",
  "FirstName": "string",
  "LastName": "string",
  "OrganizationName": "string",
  "PhoneNumber": "string",
  "State": "string",
  "ZipCode": "string"
},
"RegistrantPrivacy": boolean,
"RegistrarName": "string",
"RegistrarUrl": "string",
"RegistryDomainId": "string",
"Reseller": "string",
"StatusList": [ "string" ],
"TechContact": {
  "AddressLine1": "string",
  "AddressLine2": "string",
  "City": "string",
  "ContactType": "string",
  "CountryCode": "string",
  "Email": "string",
  "ExtraParams": [
    {
      "Name": "string",
      "Value": "string"
    }
  ],
  "Fax": "string",
  "FirstName": "string",
  "LastName": "string",
  "OrganizationName": "string",
  "PhoneNumber": "string",
  "State": "string",
  "ZipCode": "string"
},
"TechPrivacy": boolean,
"UpdatedDate": number,
"WhoIsServer": "string"
}

Response Elements

If the action is successful, the service sends back an HTTP 200 response.
The following data is returned in JSON format by the service.

**AbuseContactEmail (p. 282)**

Email address to contact to report incorrect contact information for a domain, to report that the domain is being used to send spam, to report that someone is cybersquatting on a domain name, or report some other type of abuse.

Type: String

Length Constraints: Maximum length of 254.

**AbuseContactPhone (p. 282)**

Phone number for reporting abuse.

Type: String

Length Constraints: Maximum length of 30.

**AdminContact (p. 282)**

Provides details about the domain administrative contact.

Type: ContactDetail (p. 650) object

**AdminPrivacy (p. 282)**

Specifies whether contact information is concealed from WHOIS queries. If the value is true, WHOIS ("who is") queries return contact information either for Amazon Registrar (for .com, .net, and .org domains) or for our registrar associate, Gandi (for all other TLDs). If the value is false, WHOIS queries return the information that you entered for the admin contact.

Type: Boolean

**AutoRenew (p. 282)**

Specifies whether the domain registration is set to renew automatically.

Type: Boolean

**CreationDate (p. 282)**

The date when the domain was created as found in the response to a WHOIS query. The date and time is in Unix time format and Coordinated Universal time (UTC).

Type: Timestamp

**DnsSec (p. 282)**

Reserved for future use.

Type: String

**DomainName (p. 282)**

The name of a domain.

Type: String

Length Constraints: Maximum length of 255.

**ExpirationDate (p. 282)**

The date when the registration for the domain is set to expire. The date and time is in Unix time format and Coordinated Universal time (UTC).

Type: Timestamp
GetDomainDetail

Nameservers (p. 282)

The name of the domain.

Type: Array of Nameserver (p. 663) objects

RegistrantContact (p. 282)

Provides details about the domain registrant.

Type: ContactDetail (p. 650) object

RegistrantPrivacy (p. 282)

Specifies whether contact information is concealed from WHOIS queries. If the value is true, WHOIS ("who is") queries return contact information either for Amazon Registrar (for .com, .net, and .org domains) or for our registrar associate, Gandi (for all other TLDs). If the value is false, WHOIS queries return the information that you entered for the registrant contact (domain owner).

Type: Boolean

RegistrarName (p. 282)

Name of the registrar of the domain as identified in the registry. Domains with a .com, .net, or .org TLD are registered by Amazon Registrar. All other domains are registered by our registrar associate, Gandi. The value for domains that are registered by Gandi is "GANDI SAS".

Type: String

RegistrarUrl (p. 282)

Web address of the registrar.

Type: String

RegistryDomainId (p. 282)

Reserved for future use.

Type: String

Reseller (p. 282)

Reseller of the domain. Domains registered or transferred using Route 53 domains will have "Amazon" as the reseller.

Type: String

StatusList (p. 282)

An array of domain name status codes, also known as Extensible Provisioning Protocol (EPP) status codes.

ICANN, the organization that maintains a central database of domain names, has developed a set of domain name status codes that tell you the status of a variety of operations on a domain name, for example, registering a domain name, transferring a domain name to another registrar, renewing the registration for a domain name, and so on. All registrars use this same set of status codes.

For a current list of domain name status codes and an explanation of what each code means, go to the ICANN website and search for epp status codes. (Search on the ICANN website; web searches sometimes return an old version of the document.)

Type: Array of strings

TechContact (p. 282)

Provides details about the domain technical contact.
Type:  ContactDetail (p. 650) object

**TechPrivacy** (p. 282)

Specifies whether contact information is concealed from WHOIS queries. If the value is true, WHOIS ("who is") queries return contact information either for Amazon Registrar (for .com, .net, and .org domains) or for our registrar associate, Gandi (for all other TLDs). If the value is false, WHOIS queries return the information that you entered for the technical contact.

Type: Boolean

**UpdatedDate** (p. 282)

The last updated date of the domain as found in the response to a WHOIS query. The date and time is in Unix time format and Coordinated Universal time (UTC).

Type: Timestamp

**WhoIsServer** (p. 282)

The fully qualified name of the WHOIS server that can answer the WHOIS query for the domain.

Type: String

**Errors**

For information about the errors that are common to all actions, see Common Errors (p. 714).

**InvalidInput**

The requested item is not acceptable. For example, for APIs that accept a domain name, the request might specify a domain name that doesn't belong to the account that submitted the request. For AcceptDomainTransferFromAnotherAWSAccount, the password might be invalid.

HTTP Status Code: 400

**UnsupportedTLD**

Amazon Route 53 does not support this top-level domain (TLD).

HTTP Status Code: 400

**Examples**

**GetDomainDetail Example**

This example illustrates one usage of GetDomainDetail.

**Sample Request**

```
POST / HTTP/1.1
host:route53domains.us-east-1.amazonaws.com
x-amz-date:20140711T205230Z
authorization:AWS4-HMAC-SHA256
Credential=AKIAIOSFODNN7EXAMPLE/20140711/us-east-1/route53domains/
aws4_request,
    SignedHeaders=content-length;content-type;host;user-agent;x-amz-date;x-amz-target,
    Signature=[calculated-signature]
x-amz-target:Route53Domains_v20140515.GetDomainDetail
```
Sample Response

HTTP/1.1 200
Content-Length: [number of characters in the JSON string]
{
  "AbuseContactEmail":"abuse@support.gandi.net",
  "AbuseContactPhone": "+33.170377661",
  "AdminContact": {
    "AddressLine1": "1 Any Street",
    "AddressLine2": "",
    "City": "Anytown",
    "CountryCode": "US",
    "Email": "john@example.com",
    "FirstName": "John",
    "LastName": "Doe",
    "PhoneNumber": "+2065550100",
    "State": "WA",
    "ZipCode": "98101"
  },
  "AdminPrivacy": true,
  "AutoRenew": true,
  "CreationDate": 1400010459,
  "DomainName": "example.com",
  "ExpirationDate": 1431539259,
  "Nameservers": [
    { "Name": "ns-2048.awsdns-64.com" },
    { "Name": "ns-2051.awsdns-67.co.uk" },
    { "Name": "ns-2050.awsdns-66.org" },
    { "Name": "ns-2049.awsdns-65.net" }
  ],
  "RegistrantContact": {
    "AddressLine1": "1 Any Street",
    "AddressLine2": "",
    "City": "Anytown",
    "CountryCode": "US",
    "Email": "john@example.com",
    "FirstName": "John",
    "LastName": "Doe",
    "PhoneNumber": "+2065550100",
    "State": "WA",
    "ZipCode": "98101"
  }
}
"FirstName":"John",
"LastName":"Doe",
"PhoneNumber": "+2065550100",
"State":"WA",
"ZipCode":"98101"
},
"RegistrantPrivacy":true,
"RegistrarName":"GANDI SAS",
"RegistrarUrl":"http://www.gandi.net",
"Reseller":"Amazon",
"StatusList": ["clientTransferProhibited"],
"TechContact": {
    "AddressLine1":"1 Any Street",
    "AddressLine2": "",
    "City":"Anytown",
    "CountryCode":"US",
    "Email":"john@example.com",
    "ExtraParams": {
        "FirstName":"John",
        "LastName":"Doe",
        "PhoneNumber": "+2065550100",
        "State": "WA",
        "ZipCode": "98101"
    },
    "TechPrivacy":true,
    "UpdatedDate": 1400010459,
    "WhoIsServer": "whois.gandi.net"
}

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
GetDomainSuggestions
Service: Amazon Route 53 domain registration

The GetDomainSuggestions operation returns a list of suggested domain names.

Request Syntax

```json
{
    "DomainName": "string",
    "OnlyAvailable": boolean,
    "SuggestionCount": number
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 712).

The request accepts the following data in JSON format.

DomainName (p. 289)

A domain name that you want to use as the basis for a list of possible domain names. The top-level domain (TLD), such as .com, must be a TLD that Route 53 supports. For a list of supported TLDs, see Domains that You Can Register with Amazon Route 53 in the Amazon Route 53 Developer Guide.

The domain name can contain only the following characters:

- Letters a through z. Domain names are not case sensitive.
- Numbers 0 through 9.
- Hyphen (-). You can't specify a hyphen at the beginning or end of a label.
- Period (.) to separate the labels in the name, such as the . in example.com.

Internationalized domain names are not supported for some top-level domains. To determine whether the TLD that you want to use supports internationalized domain names, see Domains that You Can Register with Amazon Route 53.

Type: String

Length Constraints: Maximum length of 255.

Required: Yes

OnlyAvailable (p. 289)

If OnlyAvailable is true, Route 53 returns only domain names that are available. If OnlyAvailable is false, Route 53 returns domain names without checking whether they're available to be registered. To determine whether the domain is available, you can call checkDomainAvailability for each suggestion.

Type: Boolean

Required: Yes

SuggestionCount (p. 289)

The number of suggested domain names that you want Route 53 to return. Specify a value between 1 and 50.

Type: Integer
Required: Yes

Response Syntax

```
{
  "SuggestionsList": [
    {
      "Availability": "string",
      "DomainName": "string"
    }
  ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**SuggestionsList (p. 290)**

A list of possible domain names. If you specified `true` for `OnlyAvailable` in the request, the list contains only domains that are available for registration.

Type: Array of DomainSuggestion (p. 653) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).

**InvalidInput**

The requested item is not acceptable. For example, for APIs that accept a domain name, the request might specify a domain name that doesn't belong to the account that submitted the request. For AcceptDomainTransferFromAnotherAwsAccount, the password might be invalid.

HTTP Status Code: 400

**UnsupportedTLD**

Amazon Route 53 does not support this top-level domain (TLD).

HTTP Status Code: 400

Examples

**GetDomainSuggestions Example**

This example illustrates one usage of GetDomainSuggestions.

Sample Request

```plaintext
POST / HTTP/1.1
host:route53domains.us-east-1.amazonaws.com
x-amz-date:20140711T205230Z
authorization:AWS4-HMAC-SHA256
```
Credential=AKIAIOSFODNN7EXAMPLE/20140711/us-east-1/route53domains/
aws_request,
   SignedHeaders=content-length;content-type;host;user-agent;x-amz-date;x-amz-target,
   Signature=[calculated-signature]
x-amz-target:Route53Domains_v20140515.GetDomainSuggestions
user-agent:aws-sdk-java/1.8.3 Linux/2.6.18-164.el5PAE Java_HotSpot(TM)_Server_VM/24.60-b09/1.7.0_60
content-type:application/x-amz-json-1.1
content-length:[number of characters in the JSON string]
{
   "DomainName": "example.com",
   "SuggestionCount": 8,
   "OnlyAvailable": false
}

Sample Response

HTTP/1.1 200
Content-Length:[number of characters in the JSON string]
{
   "SuggestionsList":[
      {
         "DomainName": "example.net"},
      {
         "DomainName": "example.org"},
      {
         "DomainName": "example.io"},
      {
         "DomainName": "example.com.au"},
      {
         "DomainName": "example.co.uk"},
      {
         "DomainName": "example.de"},
      {
         "DomainName": "example.co"},
      {
         "DomainName": "example.info"
      }
   ]
}

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
GetOperationDetail
Service: Amazon Route 53 domain registration

This operation returns the current status of an operation that is not completed.

Request Syntax

```json
{
  "OperationId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 712).

The request accepts the following data in JSON format.

**OperationId (p. 292)**

The identifier for the operation for which you want to get the status. Route 53 returned the identifier in the response to the original request.

Type: String

Length Constraints: Maximum length of 255.

Required: Yes

Response Syntax

```json
{
  "DomainName": "string",
  "Message": "string",
  "OperationId": "string",
  "Status": "string",
  "SubmittedDate": number,
  "Type": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**DomainName (p. 292)**

The name of a domain.

Type: String

Length Constraints: Maximum length of 255.

**Message (p. 292)**

Detailed information on the status including possible errors.
Type: String

**OperationId** *(p. 292)*

The identifier for the operation.

Type: String

Length Constraints: Maximum length of 255.

**Status** *(p. 292)*

The current status of the requested operation in the system.

Type: String

Valid Values: SUBMITTED | IN_PROGRESS | ERROR | SUCCESSFUL | FAILED

**SubmittedDate** *(p. 292)*

The date when the request was submitted.

Type: Timestamp

**Type** *(p. 292)*

The type of operation that was requested.

Type: String

Valid Values: REGISTER_DOMAIN | DELETE_DOMAIN | TRANSFER_IN_DOMAIN | UPDATE_DOMAIN_CONTACT | UPDATE_NAMESERVER | CHANGE_PRIVACY_PROTECTION | DOMAIN_LOCK | ENABLE_AUTORENEW | DISABLE_AUTORENEW | ADD_DNSSEC | REMOVE_DNSSEC | EXPIRE_DOMAIN | TRANSFER_OUT_DOMAIN | CHANGE_DOMAIN_OWNER | RENEW_DOMAIN | PUSH_DOMAIN | INTERNAL_TRANSFER_OUT_DOMAIN | INTERNAL_TRANSFER_IN_DOMAIN

**Errors**

For information about the errors that are common to all actions, see Common Errors *(p. 714).*

**InvalidInput**

The requested item is not acceptable. For example, for APIs that accept a domain name, the request might specify a domain name that doesn't belong to the account that submitted the request. For AcceptDomainTransferFromAnotherAwsAccount, the password might be invalid.

HTTP Status Code: 400

**Examples**

**GetOperationDetail Example**

This example illustrates one usage of GetOperationDetail.

**Sample Request**

```
POST / HTTP/1.1
host:route53domains.us-east-1.amazonaws.com
x-amz-date:20140711T205230Z
authorization:AWS4-HMAC-SHA256
```
Credential=AKIAIOSFODNN7EXAMPLE/20140711/us-east-1/route53domains/
aws_request,
   SignedHeaders=content-length;content-type;host;user-agent;x-amz-date;x-amz-
target,
   Signature=[calculated-signature]
x-amz-target:Route53Domains_v20140515.GetOperationDetail
user-agent:aws-sdk-java/1.8.3 Linux/2.6.18-164.el5PAE Java_HotSpot(TM)_Server_VM/24.60-
b09/1.7.0_60
content-type:application/x-amz-json-1.1
content-length:[number of characters in the JSON string]
{
   "OperationId":"43884ce5-e30a-4801-858f-7aa86356c127"
}

Sample Response
HTTP/1.1 200
Content-Length:[number of characters in the JSON string]
{
   "DomainName":"happierdomain.ca",
   "OperationId":"43884ce5-e30a-4801-858f-7aa86356c127",
   "Status":"WORKFLOW_IN_PROGRESS",
   "SubmittedDate" : 1402630939.057,
   "Type" : "REGISTER_DOMAIN"
}

See Also
For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
ListDomains
Service: Amazon Route 53 domain registration

This operation returns all the domain names registered with Amazon Route 53 for the current AWS account.

Request Syntax

```json
{
    "Marker": "string",
    "MaxItems": number
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 712).

The request accepts the following data in JSON format.

**Marker (p. 295)**

For an initial request for a list of domains, omit this element. If the number of domains that are associated with the current AWS account is greater than the value that you specified for MaxItems, you can use Marker to return additional domains. Get the value of NextPageMarker from the previous response, and submit another request that includes the value of NextPageMarker in the Marker element.

Constraints: The marker must match the value specified in the previous request.

Type: String

Length Constraints: Maximum length of 4096.

Required: No

**MaxItems (p. 295)**

Number of domains to be returned.

Default: 20

Type: Integer

Valid Range: Maximum value of 100.

Required: No

Response Syntax

```json
{
    "Domains": [
        {
            "AutoRenew": boolean,
            "DomainName": "string",
            "Expiry": number,
            "TransferLock": boolean
        }
    ]
}
```
Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

Domains (p. 295)

A summary of domains.

Type: Array of DomainSummary (p. 655) objects

NextPageMarker (p. 295)

If there are more domains than you specified for MaxItems in the request, submit another request and include the value of NextPageMarker in the value of Marker.

Type: String

Length Constraints: Maximum length of 4096.

Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).

InvalidInput

The requested item is not acceptable. For example, for APIs that accept a domain name, the request might specify a domain name that doesn't belong to the account that submitted the request. For AcceptDomainTransferFromAnotherAwsAccount, the password might be invalid.

HTTP Status Code: 400

Examples

ListDomains Example

This example illustrates one usage of ListDomains.

Sample Request

```
POST / HTTP/1.1
host:route53domains.us-east-1.amazonaws.com
x-amz-date:20140711T205230Z
authorization:AWS4-HMAC-SHA256
Credential=AKIAIOSFODNN7EXAMPLE/20140711/us-east-1/route53domains/
aws4_request,
    SignedHeaders=content-length;content-type;host;user-agent;x-amz-date;x-amz-target,
    Signature=[calculated-signature]
x-amz-target:Route53Domains_v20140515.ListDomains
user-agent:aws-sdk-java/1.8.3 Linux/2.6.18-164.el5PAE Java_HotSpot (TM )_Server_VM/24.60-b09/1.7.0_60
content-type:application/x-amz-json-1.1
```
content-length:[number of characters in the JSON string]
{
  "Marker":"AxDAClaROQAXasf29GHWAIKPLA=",
  "MaxItems":20
}

Sample Response

HTTP/1.1 200
Content-Length:[number of characters in the JSON string]
{
  "Domains":[
    {
      "AutoRenew":false,
      "DomainName":"example.com",
      "Expiry":1431203765,
      "TransferLock":false
    },
    {
      "AutoRenew":false,
      "DomainName":"example.net",
      "Expiry":1431539260,
      "TransferLock":false
    },
    {
      "AutoRenew":false,
      "DomainName":"example.org",
      "Expiry":1431240024,
      "TransferLock":false
    },
    {
      "AutoRenew":false,
      "DomainName":"example.test",
      "Expiry":1431539259,
      "TransferLock":false
    }
  ]
}

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
ListOperations
Service: Amazon Route 53 domain registration

Returns information about all of the operations that return an operation ID and that have ever been performed on domains that were registered by the current account.

This command runs only in the us-east-1 Region.

Request Syntax

```json
{
    "Marker": "string",
    "MaxItems": number,
    "SubmittedSince": number
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 712).

The request accepts the following data in JSON format.

**Marker (p. 298)**

For an initial request for a list of operations, omit this element. If the number of operations that are not yet complete is greater than the value that you specified for MaxItems, you can use Marker to return additional operations. Get the value of NextPageMarker from the previous response, and submit another request that includes the value of NextPageMarker in the Marker element.

Type: String

Length Constraints: Maximum length of 4096.

Required: No

**MaxItems (p. 298)**

Number of domains to be returned.

Default: 20

Type: Integer

Valid Range: Maximum value of 100.

Required: No

**SubmittedSince (p. 298)**

An optional parameter that lets you get information about all the operations that you submitted after a specified date and time. Specify the date and time in Unix time format and Coordinated Universal time (UTC).

Type: Timestamp

Required: No
Response Syntax

```json
{
   "NextPageMarker": "string",
   "Operations": [
      {
         "OperationId": "string",
         "Status": "string",
         "SubmittedDate": number,
         "Type": "string"
      }
   ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**NextPageMarker (p. 299)**

If there are more operations than you specified for MaxItems in the request, submit another request and include the value of `NextPageMarker` in the value of Marker.

Type: String

Length Constraints: Maximum length of 4096.

**Operations (p. 299)**

Lists summaries of the operations.

Type: Array of `OperationSummary (p. 664)` objects

Errors

For information about the errors that are common to all actions, see [Common Errors (p. 714)].

**InvalidInput**

The requested item is not acceptable. For example, for APIs that accept a domain name, the request might specify a domain name that doesn't belong to the account that submitted the request. For `AcceptDomainTransferFromAnotherAwsAccount`, the password might be invalid.

HTTP Status Code: 400

Examples

**ListOperations Example**

This example illustrates one usage of ListOperations.

**Sample Request**

```plaintext
POST / HTTP/1.1
host: route53domains.us-east-1.amazonaws.com
```
Sample Response

```
HTTP/1.1 200
Content-Length: [number of characters in the JSON string]
{
    "Operations": [
        {
            "OperationId": "4ced3d4a-e011-45ee-b94f-1e2d73477562",
            "Status": "WORKFLOW_IN_PROGRESS",
            "SubmittedDate": 1403548979.088,
            "Type": "CHANGE_PRIVACY_PROTECTION"
        },
        {
            "OperationId": "2e3ac45b-89b3-47ea-a042-f56dcd1b6883",
            "Status": "WORKFLOW_IN_PROGRESS",
            "SubmittedDate": 1403548986.429,
            "Type": "DOMAIN_LOCK"
        }
    ]
}
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
ListTagsForDomain
Service: Amazon Route 53 domain registration

This operation returns all of the tags that are associated with the specified domain.

All tag operations are eventually consistent; subsequent operations might not immediately represent all issued operations.

Request Syntax

```json
{
  "DomainName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 712).

The request accepts the following data in JSON format.

**DomainName** (p. 301)

  The domain for which you want to get a list of tags.

  Type: String

  Length Constraints: Maximum length of 255.

  Required: Yes

Response Syntax

```json
{
  "TagList": [
    {
      "Key": "string",
      "Value": "string"
    }
  ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**TagList** (p. 301)

  A list of the tags that are associated with the specified domain.

  Type: Array of Tag (p. 665) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).
InvalidInput

The requested item is not acceptable. For example, for APIs that accept a domain name, the request might specify a domain name that doesn't belong to the account that submitted the request. For AcceptDomainTransferFromAnotherAwsAccount, the password might be invalid.

HTTP Status Code: 400

OperationLimitExceeded

The number of operations or jobs running exceeded the allowed threshold for the account.

HTTP Status Code: 400

UnsupportedTLD

Amazon Route 53 does not support this top-level domain (TLD).

HTTP Status Code: 400

Examples

ListTagsForDomain Example

This example illustrates one usage of ListTagsForDomain.

Sample Request

```
POST / HTTP/1.1
host:route53domains.us-east-1.amazonaws.com
x-amz-date:20140711T205230Z
authorization:AWS4-HMAC-SHA256
Credential=AKIAIOSFODNN7EXAMPLE/20140711/us-east-1/route53domains/
aws4_request,
    SignedHeaders=content-length;content-type;host;user-agent;x-amz-date;x-amz-
target,
    Signature=[calculated-signature]
x-amz-target:Route53Domains_v20140515.ListTagsForDomain
user-agent:aws-sdk-java/1.8.3 Linux/2.6.18-164.el5PAE Java_HotSpot (TM )_Server_VM/24.60-
b09/1.7.0_60
content-type:application/x-amz-json-1.1
content-length:[number of characters in the JSON string]
{
    "DomainName":"example.com"
}
```

Sample Response

```
HTTP/1.1 200
Content-Length:[number of characters in the JSON string]
{
    "tagList": [ 
        { 
            "Key": "foo",
            "Value": "bar"
        }, 
        { 
            "Key": "foo2",
            "Value": ""
        }
    ]
}
```
See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
RegisterDomain

Service: Amazon Route 53 domain registration

This operation registers a domain. Domains are registered either by Amazon Registrar (for .com, .net, and .org domains) or by our registrar associate, Gandi (for all other domains). For some top-level domains (TLDs), this operation requires extra parameters.

When you register a domain, Amazon Route 53 does the following:

- Creates a Route 53 hosted zone that has the same name as the domain. Route 53 assigns four name servers to your hosted zone and automatically updates your domain registration with the names of these name servers.
- Enables autorenew, so your domain registration will renew automatically each year. We'll notify you in advance of the renewal date so you can choose whether to renew the registration.
- Optionally enables privacy protection, so WHOIS queries return contact information either for Amazon Registrar (for .com, .net, and .org domains) or for our registrar associate, Gandi (for all other TLDs). If you don't enable privacy protection, WHOIS queries return the information that you entered for the administrative, registrant, and technical contacts.

   **Note**
   You must specify the same privacy setting for the administrative, registrant, and technical contacts.

- If registration is successful, returns an operation ID that you can use to track the progress and completion of the action. If the request is not completed successfully, the domain registrant is notified by email.
- Charges your AWS account an amount based on the top-level domain. For more information, see Amazon Route 53 Pricing.

**Request Syntax**

```json
{
    "AdminContact": {
        "AddressLine1": "string",
        "AddressLine2": "string",
        "City": "string",
        "ContactType": "string",
        "CountryCode": "string",
        "Email": "string",
        "ExtraParams": [{
            "Name": "string",
            "Value": "string"
        }],
        "Fax": "string",
        "FirstName": "string",
        "LastName": "string",
        "OrganizationName": "string",
        "PhoneNumber": "string",
        "State": "string",
        "ZipCode": "string"
    },
    "AutoRenew": boolean,
    "DomainName": "string",
    "DurationInYears": number,
    "IdnLangCode": "string",
    "PrivacyProtectAdminContact": boolean,
    "PrivacyProtectRegistrantContact": boolean,
    "PrivacyProtectTechContact": boolean,
```
"RegistrantContact": {  
    "AddressLine1": "string",
    "AddressLine2": "string",
    "City": "string",
    "ContactType": "string",
    "CountryCode": "string",
    "Email": "string",
    "ExtraParams": [
      {
        "Name": "string",
        "Value": "string"
      }
    ],
    "Fax": "string",
    "FirstName": "string",
    "LastName": "string",
    "OrganizationName": "string",
    "PhoneNumber": "string",
    "State": "string",
    "ZipCode": "string"
  },

  "TechContact": {  
    "AddressLine1": "string",
    "AddressLine2": "string",
    "City": "string",
    "ContactType": "string",
    "CountryCode": "string",
    "Email": "string",
    "ExtraParams": [
      {
        "Name": "string",
        "Value": "string"
      }
    ],
    "Fax": "string",
    "FirstName": "string",
    "LastName": "string",
    "OrganizationName": "string",
    "PhoneNumber": "string",
    "State": "string",
    "ZipCode": "string"
  }
}

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 712).

The request accepts the following data in JSON format.

AdminContact  (p. 304)

 Provides detailed contact information. For information about the values that you specify for each element, see ContactDetail.

Type:  ContactDetail  (p. 650) object

Required: Yes

AutoRenew  (p. 304)

 Indicates whether the domain will be automatically renewed (true) or not (false). Autorenewal only takes effect after the account is charged.
RegisterDomain

Default: true
Type: Boolean
Required: No

DomainName (p. 304)
The domain name that you want to register. The top-level domain (TLD), such as .com, must be a TLD that Route 53 supports. For a list of supported TLDs, see Domains that You Can Register with Amazon Route 53 in the Amazon Route 53 Developer Guide.

The domain name can contain only the following characters:
- Letters a through z. Domain names are not case sensitive.
- Numbers 0 through 9.
- Hyphen (-). You can't specify a hyphen at the beginning or end of a label.
- Period (.) to separate the labels in the name, such as the . in example.com.

Internationalized domain names are not supported for some top-level domains. To determine whether the TLD that you want to use supports internationalized domain names, see Domains that You Can Register with Amazon Route 53. For more information, see Formatting Internationalized Domain Names.

Type: String
Length Constraints: Maximum length of 255.
Required: Yes

DurationInYears (p. 304)
The number of years that you want to register the domain for. Domains are registered for a minimum of one year. The maximum period depends on the top-level domain. For the range of valid values for your domain, see Domains that You Can Register with Amazon Route 53 in the Amazon Route 53 Developer Guide.

Default: 1
Type: Integer
Required: Yes

IdnLangCode (p. 304)
Reserved for future use.
Type: String
Length Constraints: Maximum length of 3.
Required: No

PrivacyProtectAdminContact (p. 304)
Whether you want to conceal contact information from WHOIS queries. If you specify true, WHOIS ("who is") queries return contact information either for Amazon Registrar (for .com, .net, and .org domains) or for our registrar associate, Gandi (for all other TLDs). If you specify false, WHOIS queries return the information that you entered for the admin contact.
**Note**
You must specify the same privacy setting for the administrative, registrant, and technical contacts.

Default: `true`
Type: Boolean
Required: No

**PrivacyProtectRegistrantContact (p. 304)**

Whether you want to conceal contact information from WHOIS queries. If you specify `true`, WHOIS ("who is") queries return contact information either for Amazon Registrar (for .com, .net, and .org domains) or for our registrar associate, Gandi (for all other TLDs). If you specify `false`, WHOIS queries return the information that you entered for the registrant contact (the domain owner).

**Note**
You must specify the same privacy setting for the administrative, registrant, and technical contacts.

Default: `true`
Type: Boolean
Required: No

**PrivacyProtectTechContact (p. 304)**

Whether you want to conceal contact information from WHOIS queries. If you specify `true`, WHOIS ("who is") queries return contact information either for Amazon Registrar (for .com, .net, and .org domains) or for our registrar associate, Gandi (for all other TLDs). If you specify `false`, WHOIS queries return the information that you entered for the technical contact.

**Note**
You must specify the same privacy setting for the administrative, registrant, and technical contacts.

Default: `true`
Type: Boolean
Required: No

**RegistrantContact (p. 304)**

Provides detailed contact information. For information about the values that you specify for each element, see `ContactDetail`.

Type: `ContactDetail (p. 650)` object
Required: Yes

**TechContact (p. 304)**

Provides detailed contact information. For information about the values that you specify for each element, see `ContactDetail`.

Type: `ContactDetail (p. 650)` object
Required: Yes
Response Syntax

```json
{
   "OperationId": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**OperationId (p. 308)**

Identifier for tracking the progress of the request. To query the operation status, use `GetOperationDetail`.

- Type: String
- Length Constraints: Maximum length of 255.

Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).

**DomainLimitExceeded**

The number of domains has exceeded the allowed threshold for the account.

- HTTP Status Code: 400

**DuplicateRequest**

The request is already in progress for the domain.

- HTTP Status Code: 400

**InvalidInput**

The requested item is not acceptable. For example, for APIs that accept a domain name, the request might specify a domain name that doesn't belong to the account that submitted the request. For `AcceptDomainTransferFromAnotherAwsAccount`, the password might be invalid.

- HTTP Status Code: 400

**OperationLimitExceeded**

The number of operations or jobs running exceeded the allowed threshold for the account.

- HTTP Status Code: 400

**TLDRulesViolation**

The top-level domain does not support this operation.

- HTTP Status Code: 400

**UnsupportedTLD**

Amazon Route 53 does not support this top-level domain (TLD).

- HTTP Status Code: 400
Examples

RegisterDomain Example

This example illustrates one usage of RegisterDomain.

Sample Request

```
POST / HTTP/1.1
host: route53domains.us-east-1.amazonaws.com
x-amz-date: 20140711T205230Z
authorization: AWS4-HMAC-SHA256
    Credential=AKIAIOSFODNN7EXAMPLE/20140711/us-east-1/route53domains/
    SignedHeaders=content-length;content-type;host;user-agent;x-amz-date;x-amz-
target,
    Signature=[calculated-signature]
    x-amz-target: Route53Domains_v20140515.RegisterDomain
user-agent: aws-sdk-java/1.8.3 Linux/2.6.18-164.el5PAE Java_HotSpot(TM)_Server_VM/24.60-
b09/1.7.0_60
content-type: application/x-amz-json-1.1
content-length:[number of characters in the JSON string]
{
    "DomainName": "example.com",
    "DurationInYears": 1,
    "AutoRenew": true,
    "AdminContact": {
        "FirstName": "John",
        "MiddleName": "Richard",
        "LastName": "Doe",
        "ContactType": "PERSON",
        "OrganizationName": "",
        "AddressLine1": "123 Any Street",
        "AddressLine2": "",
        "City": "Any Town",
        "State": "WA",
        "CountryCode": "US",
        "ZipCode": "98101",
        "PhoneNumber": "+2065550100",
        "Email": "john@example.com",
        "Fax": "+2065550101"
    },
    "RegistrantContact": {
        "FirstName": "John",
        "MiddleName": "Richard",
        "LastName": "Doe",
        "ContactType": "PERSON",
        "OrganizationName": "",
        "AddressLine1": "123 Any Street",
        "AddressLine2": "",
        "City": "Any Town",
        "State": "WA",
        "CountryCode": "US",
        "ZipCode": "98101",
        "PhoneNumber": "+2065550100",
        "Email": "john@example.com",
        "Fax": "+2065550101"
    },
    "TechContact": {
        "FirstName": "John",
        "MiddleName": "Richard",
        "LastName": "Doe",
        "ContactType": "PERSON",
        "OrganizationName": "",
```

309
"AddressLine1":"123 Any Street",
"AddressLine2":"
"City":"Any Town",
"State":"WA",
"CountryCode":"US",
"ZipCode":"98101",
"PhoneNumber":"+2065550100",
"Email":"john@example.com",
"Fax":"
"PrivacyProtectAdminContact":true,
"PrivacyProtectRegistrantContact":true,
"PrivacyProtectTechContact":true
}

Sample Response

HTTP/1.1 200
Content-Length:[number of characters in the JSON string]
{
  "OperationId":"308c56712-faa4-40fe-94c8-b423069de3f6"
}

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
RejectDomainTransferFromAnotherAwsAccount

Service: Amazon Route 53 domain registration

Rejects the transfer of a domain from another AWS account to the current AWS account. You initiate a transfer between AWS accounts using TransferDomainToAnotherAwsAccount.

Use either ListOperations or GetOperationDetail to determine whether the operation succeeded. GetOperationDetail provides additional information, for example, Domain Transfer from Aws Account 111122223333 has been cancelled.

Request Syntax

```json
{
   "DomainName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 712).

The request accepts the following data in JSON format.

DomainName (p. 311)

   The name of the domain that was specified when another AWS account submitted a TransferDomainToAnotherAwsAccount request.

   Type: String

   Length Constraints: Maximum length of 255.

   Required: Yes

Response Syntax

```json
{
   "OperationId": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

OperationId (p. 311)

   The identifier that TransferDomainToAnotherAwsAccount returned to track the progress of the request. Because the transfer request was rejected, the value is no longer valid, and you can't use GetOperationDetail to query the operation status.

   Type: String

   Length Constraints: Maximum length of 255.
Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).

InvalidInput

The requested item is not acceptable. For example, for APIs that accept a domain name, the request might specify a domain name that doesn't belong to the account that submitted the request. For AcceptDomainTransferFromAnotherAwsAccount, the password might be invalid.

HTTP Status Code: 400

OperationLimitExceeded

The number of operations or jobs running exceeded the allowed threshold for the account.

HTTP Status Code: 400

UnsupportedTLD

Amazon Route 53 does not support this top-level domain (TLD).

HTTP Status Code: 400

Examples

RejectDomainTransferFromAnotherAwsAccount Example

This example illustrates one usage of RejectDomainTransferFromAnotherAwsAccount.

Sample Request

```
POST / HTTP/1.1
host:route53domains.us-east-1.amazonaws.com
x-amz-date:20200311T205230Z
authorization:AWS4-HMAC-SHA256
    Credential=AKIAIOSFODNN7EXAMPLE/20140711/us-east-1/route53domains/
    aws4_request,
    SignedHeaders=content-length;content-type;host;user-agent;x-amz-date;x-amz-
target,
    Signature=[calculated-signature]
x-amz-target:Route53Domains_v20140515.RejectDomainTransferFromAnotherAwsAccount
user-agent:aws-sdk-java/1.8.3 Linux/2.6.18-164.el5PAE Java_HotSpot (TM )_Server_VM/24.60-
b09/1.7.0_60
content-type:application/x-amz-json-1.1
content-length:[number of characters in the JSON string]
{
    "DomainName":"example.com"
}
```

Sample Response

```
HTTP/1.1 200
Content-Length:[number of characters in the JSON string]
{
    "OperationId":"308c56712-faa4-40fe-94c8-b4230example"
}
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:
• AWS Command Line Interface
• AWS SDK for .NET
• AWS SDK for C++
• AWS SDK for Go
• AWS SDK for Java V2
• AWS SDK for JavaScript
• AWS SDK for PHP V3
• AWS SDK for Python
• AWS SDK for Ruby V3
RenewDomain
Service: Amazon Route 53 domain registration

This operation renews a domain for the specified number of years. The cost of renewing your domain is billed to your AWS account.

We recommend that you renew your domain several weeks before the expiration date. Some TLD registries delete domains before the expiration date if you haven't renewed far enough in advance. For more information about renewing domain registration, see Renewing Registration for a Domain in the Amazon Route 53 Developer Guide.

Request Syntax

```json
{
   "CurrentExpiryYear": number,
   "DomainName": "string",
   "DurationInYears": number
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 712).

The request accepts the following data in JSON format.

CurrentExpiryYear (p. 314)

The year when the registration for the domain is set to expire. This value must match the current expiration date for the domain.

Type: Integer

Required: Yes

DomainName (p. 314)

The name of the domain that you want to renew.

Type: String

Length Constraints: Maximum length of 255.

Required: Yes

DurationInYears (p. 314)

The number of years that you want to renew the domain for. The maximum number of years depends on the top-level domain. For the range of valid values for your domain, see Domains that You Can Register with Amazon Route 53 in the Amazon Route 53 Developer Guide.

Default: 1

Type: Integer


Required: No

314
Response Syntax

```json
{
   "OperationId": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**OperationId (p. 315)**

Identifier for tracking the progress of the request. To query the operation status, use `GetOperationDetail`.

Type: String

Length Constraints: Maximum length of 255.

Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).

**DuplicateRequest**

The request is already in progress for the domain.

HTTP Status Code: 400

**InvalidInput**

The requested item is not acceptable. For example, for APIs that accept a domain name, the request might specify a domain name that doesn't belong to the account that submitted the request. For `AcceptDomainTransferFromAnotherAwsAccount`, the password might be invalid.

HTTP Status Code: 400

**OperationLimitExceeded**

The number of operations or jobs running exceeded the allowed threshold for the account.

HTTP Status Code: 400

**TLDRulesViolation**

The top-level domain does not support this operation.

HTTP Status Code: 400

**UnsupportedTLD**

Amazon Route 53 does not support this top-level domain (TLD).

HTTP Status Code: 400

Examples

**RenewDomain Example**

This example illustrates one usage of RenewDomain.
Sample Request

POST / HTTP/1.1
host:route53domains.us-east-1.amazonaws.com
x-amz-date:20140711T205230Z
authorization:AWS4-HMAC-SHA256

credential=AKIAIOSFODNN7EXAMPLE/20140711/us-east-1/route53domains/
aws4_request,
SignedHeaders=content-length;content-type;host;user-agent;x-amz-date;x-amz-
target,
Signature=[calculated-signature]
x-amz-target:Route53Domains_v20140515.RenewDomain
user-agent:aws-sdk-java/1.8.3 Linux/2.6.18-164.el5PAE Java_HotSpot
(TM )_Server_VM/24.60-b09/1.7.0_60
content-type:application/x-amz-json-1.1
content-length:[number of characters in the JSON string]
{
  "DomainName":"example.com",
  "DurationInYears":"6",
  "CurrentExpiryYear":"2017"
}

Sample Response

HTTP/1.1 200
Content-Length:[number of characters in the JSON string]{

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
ResendContactReachabilityEmail
Service: Amazon Route 53 domain registration

For operations that require confirmation that the email address for the registrant contact is valid, such as registering a new domain, this operation resends the confirmation email to the current email address for the registrant contact.

Request Syntax

```json
{
    "domainName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 712).

The request accepts the following data in JSON format.

domainName (p. 317)

The name of the domain for which you want Route 53 to resend a confirmation email to the registrant contact.

Type: String

Length Constraints: Maximum length of 255.

Required: No

Response Syntax

```json
{
    "domainName": "string",
    "emailAddress": "string",
    "isAlreadyVerified": boolean
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

domainName (p. 317)

The domain name for which you requested a confirmation email.

Type: String

Length Constraints: Maximum length of 255.

emailAddress (p. 317)

The email address for the registrant contact at the time that we sent the verification email.
Type: String  
Length Constraints: Maximum length of 254.

isAlreadyVerified (p. 317)

True if the email address for the registrant contact has already been verified, and false otherwise. If the email address has already been verified, we don't send another confirmation email.

Type: Boolean

Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).

InvalidInput

The requested item is not acceptable. For example, for APIs that accept a domain name, the request might specify a domain name that doesn't belong to the account that submitted the request. For AcceptDomainTransferFromAnotherAwsAccount, the password might be invalid.

HTTP Status Code: 400

OperationLimitExceeded

The number of operations or jobs running exceeded the allowed threshold for the account.

HTTP Status Code: 400

UnsupportedTLD

Amazon Route 53 does not support this top-level domain (TLD).

HTTP Status Code: 400

Examples

ResendContactReachabilityEmail Example

This example illustrates one usage of ResendContactReachabilityEmail.

Sample Request

```plaintext
POST / HTTP/1.1
host:route53domains.us-east-1.amazonaws.com
x-amz-date:20140711T205225Z
authorization:AWS4-HMAC-SHA256
Credential=AKIAIOSFODNN7EXAMPLE/20140711/us-east-1/route53domains/
aws4_request,
SignedHeaders=content-length;content-type;host;user-agent;x-amz-date;x-amz-target,
Signature=[calculated-signature]
x-amz-target:Route53Domains_v20140515.ResendContactReachabilityEmail
user-agent:aws-sdk-java/1.8.3 Linux/2.6.18-164.el5PAE Java_HotSpot(TM)_Server_VM/24.60-b09/1.7.0_60
content-type:application/x-amz-json-1.1
content-length:[number of characters in the JSON string]
connections:Keep-Alive
{
"domainName":"example.com"
}
```


Sample Response

HTTP/1.1 200
Content-Length:[number of characters in the JSON string]
{
    "domainName":"example.com",
    "emailAddress":"jdoe@example.com",
    "status":"PENDING"
}

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
RetrieveDomainAuthCode

Service: Amazon Route 53 domain registration

This operation returns the AuthCode for the domain. To transfer a domain to another registrar, you provide this value to the new registrar.

Request Syntax

```json
{
    "DomainName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 712).

The request accepts the following data in JSON format.

**DomainName** (p. 320)

The name of the domain that you want to get an authorization code for.

Type: String

Length Constraints: Maximum length of 255.

Required: Yes

Response Syntax

```json
{
    "AuthCode": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**AuthCode** (p. 320)

The authorization code for the domain.

Type: String

Length Constraints: Maximum length of 1024.

Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).
InvalidInput

The requested item is not acceptable. For example, for APIs that accept a domain name, the request might specify a domain name that doesn't belong to the account that submitted the request. For AcceptDomainTransferFromAnotherAwsAccount, the password might be invalid.

HTTP Status Code: 400

UnsupportedTLD

Amazon Route 53 does not support this top-level domain (TLD).

HTTP Status Code: 400

Examples

RetrieveDomainAuthCode Example

This example illustrates one usage of RetrieveDomainAuthCode.

Sample Request

```
POST / HTTP/1.1
host:route53domains.us-east-1.amazonaws.com
x-amz-date:20140711T205230Z
authorization:AWS4-HMAC-SHA256
  Credential=AKIAIOSFODNN7EXAMPLE/20140711/us-east-1/route53domains/
aws4_request,
  SignedHeaders=content-length;content-type;host;user-agent;x-amz-date;x-amz-
target,
  Signature=[calculated-signature]
x-amz-target:Route53Domains_v20140515.RetrieveDomainAuthCode
user-agent:aws-sdk-java/1.8.3 Linux/2.6.18-164.el5PAE Java_HotSpot (TM )_Server_VM/24.60-
b09/1.7.0_60
content-type:application/x-amz-json-1.1
content-length:[number of characters in the JSON string]
{
  "DomainName":"example.com"
}
```

Sample Response

```
HTTP/1.1 200
Content-Length:[number of characters in the JSON string]
{
  "AuthCode":"rqL3*REjYH"
}
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
• AWS SDK for JavaScript
• AWS SDK for PHP V3
• AWS SDK for Python
• AWS SDK for Ruby V3
TransferDomain
Service: Amazon Route 53 domain registration

Transfers a domain from another registrar to Amazon Route 53. When the transfer is complete, the
domain is registered either with Amazon Registrar (for .com, .net, and .org domains) or with our registrar
associate, Gandi (for all other TLDs).

For more information about transferring domains, see the following topics:

- For transfer requirements, a detailed procedure, and information about viewing the status of a domain
  that you’re transferring to Route 53, see Transferring Registration for a Domain to Amazon Route 53 in
  the Amazon Route 53 Developer Guide.
- For information about how to transfer a domain from one AWS account to another, see
  TransferDomainToAnotherAwsAccount.
- For information about how to transfer a domain to another domain registrar, see Transferring a
  Domain from Amazon Route 53 to Another Registrar in the Amazon Route 53 Developer Guide.

If the registrar for your domain is also the DNS service provider for the domain, we highly recommend
that you transfer your DNS service to Route 53 or to another DNS service provider before you transfer
your registration. Some registrars provide free DNS service when you purchase a domain registration.
When you transfer the registration, the previous registrar will not renew your domain registration and
could end your DNS service at any time.

Important
If the registrar for your domain is also the DNS service provider for the domain and you
don't transfer DNS service to another provider, your website, email, and the web applications
associated with the domain might become unavailable.

If the transfer is successful, this method returns an operation ID that you can use to track the progress
and completion of the action. If the transfer doesn't complete successfully, the domain registrant will be
notified by email.

Request Syntax

```json
{
   "AdminContact": {
      "AddressLine1": "string",
      "AddressLine2": "string",
      "City": "string",
      "ContactType": "string",
      "CountryCode": "string",
      "Email": "string",
      "ExtraParams": [
         {
            "Name": "string",
            "Value": "string"
         }
      ],
      "Fax": "string",
      "FirstName": "string",
      "LastName": "string",
      "OrganizationName": "string",
      "PhoneNumber": "string",
      "State": "string",
      "ZipCode": "string"
   },
   "AuthCode": "string",
   "AutoRenew": boolean,
   "DomainName": "string",
   "DurationInYears": number,
```
"IdnLangCode": "string",
"Nameservers": [
  {
    "GlueIps": [ "string" ],
    "Name": "string"
  }
],
"PrivacyProtectAdminContact": boolean,
"PrivacyProtectRegistrantContact": boolean,
"PrivacyProtectTechContact": boolean,
"RegistrantContact": {
  "AddressLine1": "string",
  "AddressLine2": "string",
  "City": "string",
  "ContactType": "string",
  "CountryCode": "string",
  "Email": "string",
  "ExtraParams": [
    {
      "Name": "string",
      "Value": "string"
    }
  ],
  "Fax": "string",
  "FirstName": "string",
  "LastName": "string",
  "OrganizationName": "string",
  "PhoneNumber": "string",
  "State": "string",
  "ZipCode": "string"
},
"TechContact": {
  "AddressLine1": "string",
  "AddressLine2": "string",
  "City": "string",
  "ContactType": "string",
  "CountryCode": "string",
  "Email": "string",
  "ExtraParams": [
    {
      "Name": "string",
      "Value": "string"
    }
  ],
  "Fax": "string",
  "FirstName": "string",
  "LastName": "string",
  "OrganizationName": "string",
  "PhoneNumber": "string",
  "State": "string",
  "ZipCode": "string"
}

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 712).

The request accepts the following data in JSON format.

AdminContact (p. 323)

Provides detailed contact information.
Type:  ContactDetail  (p. 650) object

Required: Yes

AuthCode (p. 323)

The authorization code for the domain. You get this value from the current registrar.

Type: String

Length Constraints: Maximum length of 1024.

Required: No

AutoRenew (p. 323)

Indicates whether the domain will be automatically renewed (true) or not (false). Autorenewal only takes effect after the account is charged.

Default: true

Type: Boolean

Required: No

DomainName (p. 323)

The name of the domain that you want to transfer to Route 53. The top-level domain (TLD), such as .com, must be a TLD that Route 53 supports. For a list of supported TLDs, see Domains that You Can Register with Amazon Route 53 in the Amazon Route 53 Developer Guide.

The domain name can contain only the following characters:

• Letters a through z. Domain names are not case sensitive.
• Numbers 0 through 9.
• Hyphen (-). You can't specify a hyphen at the beginning or end of a label.
• Period (.) to separate the labels in the name, such as the . in example.com.

Type: String

Length Constraints: Maximum length of 255.

Required: Yes

DurationInYears (p. 323)

The number of years that you want to register the domain for. Domains are registered for a minimum of one year. The maximum period depends on the top-level domain.

Default: 1

Type: Integer


Required: Yes

IdnLangCode (p. 323)

Reserved for future use.

Type: String

Length Constraints: Maximum length of 3.
Required: No

**Nameservers (p. 323)**

Contains details for the host and glue IP addresses.

Type: Array of Nameserver (p. 663) objects

Required: No

**PrivacyProtectAdminContact (p. 323)**

Whether you want to conceal contact information from WHOIS queries. If you specify `true`, WHOIS ("who is") queries return contact information either for Amazon Registrar (for .com, .net, and .org domains) or for our registrar associate, Gandi (for all other TLDs). If you specify `false`, WHOIS queries return the information that you entered for the admin contact.

*Note*
You must specify the same privacy setting for the administrative, registrant, and technical contacts.

Default: `true`

Type: Boolean

Required: No

**PrivacyProtectRegistrantContact (p. 323)**

Whether you want to conceal contact information from WHOIS queries. If you specify `true`, WHOIS ("who is") queries return contact information either for Amazon Registrar (for .com, .net, and .org domains) or for our registrar associate, Gandi (for all other TLDs). If you specify `false`, WHOIS queries return the information that you entered for the registrant contact (domain owner).

*Note*
You must specify the same privacy setting for the administrative, registrant, and technical contacts.

Default: `true`

Type: Boolean

Required: No

**PrivacyProtectTechContact (p. 323)**

Whether you want to conceal contact information from WHOIS queries. If you specify `true`, WHOIS ("who is") queries return contact information either for Amazon Registrar (for .com, .net, and .org domains) or for our registrar associate, Gandi (for all other TLDs). If you specify `false`, WHOIS queries return the information that you entered for the technical contact.

*Note*
You must specify the same privacy setting for the administrative, registrant, and technical contacts.

Default: `true`

Type: Boolean

Required: No

**RegistrantContact (p. 323)**

Provides detailed contact information.
Type: `ContactDetail (p. 650)` object

Required: Yes

**TechContact (p. 323)**

Provides detailed contact information.

Type: `ContactDetail (p. 650)` object

Required: Yes

**Response Syntax**

```json
{
   "OperationId": "string"
}
```

**Response Elements**

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**OperationId (p. 327)**

Identifier for tracking the progress of the request. To query the operation status, use `GetOperationDetail`.

Type: String

Length Constraints: Maximum length of 255.

**Errors**

For information about the errors that are common to all actions, see `Common Errors (p. 714)`.

**DomainLimitExceeded**

The number of domains has exceeded the allowed threshold for the account.

HTTP Status Code: 400

**DuplicateRequest**

The request is already in progress for the domain.

HTTP Status Code: 400

**InvalidInput**

The requested item is not acceptable. For example, for APIs that accept a domain name, the request might specify a domain name that doesn't belong to the account that submitted the request. For `AcceptDomainTransferFromAnotherAwsAccount`, the password might be invalid.

HTTP Status Code: 400

**OperationLimitExceeded**

The number of operations or jobs running exceeded the allowed threshold for the account.
HTTP Status Code: 400

**TLDRulesViolation**

The top-level domain does not support this operation.

HTTP Status Code: 400

**UnsupportedTLD**

Amazon Route 53 does not support this top-level domain (TLD).

HTTP Status Code: 400

**Examples**

**TransferDomain Example**

This example illustrates one usage of TransferDomain.

**Sample Request**

```plaintext
POST / HTTP/1.1
host:route53domains.us-east-1.amazonaws.com
x-amz-date:20140711T205230Z
authorization:AWS4-HMAC-SHA256
   Credential=AKIAIOSFODNN7EXAMPLE/20140711/us-east-1/route53domains/
aws4_request,
   SignedHeaders=content-length;content-type;host;user-agent;x-amz-date;x-amz-
target,
   Signature=[calculated-signature]
x-amz-target:Route53Domains_v20140515.TransferDomain
user-agent:aws-sdk-java/1.8.3 Linux/2.6.18-164.el5PAE Java HotSpot (TM)_Server_VM/24.60-
b09/1.7.0_60
content-type:application/x-amz-json-1.1
content-length:[number of characters in the JSON string]
{
   "DomainName":"example.com",
   "DurationInYears":1,
   "Nameservers":[
      {
         "Name":"ns-2048.awsdns-64.com",
         "GlueIps":[
            "192.0.2.11"
         ]
      },
      {
         "Name":"ns-2049.awsdns-65.net",
         "GlueIps":[
            "192.0.2.12"
         ]
      }
   ],
   "AuthCode":"a42qxjz1",
   "AutoRenew":true,
   "AdminContact":{
      "FirstName":"John",
      "MiddleName":"Richard",
      "LastName":"Doe",
      "ContactType":"PERSON",
      "OrganizationName":"
      "AddressLine1":"123 Any Street",
      "AddressLine2":"
      "City":"Any Town",
      "State":"
      "ZipCode":"
      "Country":"
      "Phone":"
      "Fax":
      "Email":"
   }
```
"RegistrantContact":{
  "FirstName":"John",
  "MiddleName":"Richard",
  "LastName":"Doe",
  "ContactType":"PERSON",
  "OrganizationName":"",
  "AddressLine1":"123 Any Street",
  "AddressLine2":"",
  "City":"Any Town",
  "State":"WA",
  "CountryCode":"US",
  "ZipCode":"98101",
  "PhoneNumber":"+2065550100",
  "Email":"john@example.com",
  "Fax":"+206555-0101"
},
"TechContact":{
  "FirstName":"John",
  "MiddleName":"Richard",
  "LastName":"Doe",
  "ContactType":"PERSON",
  "OrganizationName":"",
  "AddressLine1":"123 Any Street",
  "AddressLine2":"",
  "City":"Any Town",
  "State":"WA",
  "CountryCode":"US",
  "ZipCode":"98101",
  "PhoneNumber":"+2065550100",
  "Email":"john@example.com",
  "Fax":"+206555-0101"
},
"PrivacyProtectAdminContact":true,
"PrivacyProtectRegistrantContact":true,
"PrivacyProtectTechContact":true,
}

Sample Response

HTTP/1.1 200
Content-Length:[number of characters in the JSON string]
{
  "OperationId":"308c56712-faa4-40fe-94c8-b423069de3f6"
}

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
TransferDomainToAnotherAwsAccount
Service: Amazon Route 53 domain registration

Transfers a domain from the current AWS account to another AWS account. Note the following:

- The AWS account that you’re transferring the domain to must accept the transfer. If the other account doesn’t accept the transfer within 3 days, we cancel the transfer. See AcceptDomainTransferFromAnotherAwsAccount.
- You can cancel the transfer before the other account accepts it. See CancelDomainTransferToAnotherAwsAccount.
- The other account can reject the transfer. See RejectDomainTransferFromAnotherAwsAccount.

Important
When you transfer a domain from one AWS account to another, Route 53 doesn’t transfer the hosted zone that is associated with the domain. DNS resolution isn’t affected if the domain and the hosted zone are owned by separate accounts, so transferring the hosted zone is optional. For information about transferring the hosted zone to another AWS account, see Migrating a Hosted Zone to a Different AWS Account in the Amazon Route 53 Developer Guide.

Use either ListOperations or GetOperationDetail to determine whether the operation succeeded. GetOperationDetail provides additional information, for example, Domain Transfer from Aws Account 111122223333 has been cancelled.

Request Syntax

```json
{
    "AccountId": "string",
    "DomainName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 712).

The request accepts the following data in JSON format.

Accountld (p. 331)

The account ID of the AWS account that you want to transfer the domain to, for example, 111122223333.

Type: String

Pattern: ^\d{12}$

Required: Yes

DomainName (p. 331)

The name of the domain that you want to transfer from the current AWS account to another account.

Type: String

Length Constraints: Maximum length of 255.
Required: Yes

Response Syntax

```
{
   "OperationId": "string",
   "Password": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**OperationId (p. 332)**

Identifier for tracking the progress of the request. To query the operation status, use GetOperationDetail.

Type: String

Length Constraints: Maximum length of 255.

**Password (p. 332)**

To finish transferring a domain to another AWS account, the account that the domain is being transferred to must submit an AcceptDomainTransferFromAnotherAwsAccount request. The request must include the value of the Password element that was returned in the TransferDomainToAnotherAwsAccount response.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).

**DuplicateRequest**

The request is already in progress for the domain.

HTTP Status Code: 400

**InvalidInput**

The requested item is not acceptable. For example, for APIs that accept a domain name, the request might specify a domain name that doesn't belong to the account that submitted the request. For AcceptDomainTransferFromAnotherAwsAccount, the password might be invalid.

HTTP Status Code: 400

**OperationLimitExceeded**

The number of operations or jobs running exceeded the allowed threshold for the account.

HTTP Status Code: 400

**UnsupportedTLD**

Amazon Route 53 does not support this top-level domain (TLD).
HTTP Status Code: 400

Examples

TransferDomainToAnotherAwsAccount Example

This example illustrates one usage of TransferDomainToAnotherAwsAccount.

Sample Request

```
POST / HTTP/1.1
host:route53domains.us-east-1.amazonaws.com
x-amz-date:20200311T205230Z
authorization:AWS4-HMAC-SHA256
    Credential=AKIAIOSFODNN7EXAMPLE/20140711/us-east-1/route53domains/
aws4_request,
    SignedHeaders=content-length;content-type;host;user-agent;x-amz-date;x-amz-
target,
    Signature=[calculated-signature]
x-amz-target:Route53Domains_v20140515.TransferDomainToAnotherAwsAccount
user-agent:aws-sdk-java/1.8.3 Linux/2.6.18-164.el5PAE Java_HotSpot (TM )_Server_VM/24.60-
b09/1.7.0_60
content-type:application/x-amz-json-1.1
content-length:[number of characters in the JSON string]
{
    "DomainName":"example.com",
    "AccountId":"111122223333"
}
```

Sample Response

```
HTTP/1.1 200
Content-Length:[number of characters in the JSON string]
{
    "OperationId":"308c56711faa4-40fe-94c8-b4230example",
    "Password":"CeT2Zxs~Example"
}
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
**UpdateDomainContact**

Service: Amazon Route 53 domain registration

This operation updates the contact information for a particular domain. You must specify information for at least one contact: registrant, administrator, or technical.

If the update is successful, this method returns an operation ID that you can use to track the progress and completion of the action. If the request is not completed successfully, the domain registrant will be notified by email.

**Request Syntax**

```json
{
    "AdminContact": {
        "AddressLine1": "string",
        "AddressLine2": "string",
        "City": "string",
        "CountryCode": "string",
        "ContactType": "string",
        "Email": "string",
        "ExtraParams": [
            {
                "Name": "string",
                "Value": "string"
            }
        ],
        "Fax": "string",
        "FirstName": "string",
        "LastName": "string",
        "OrganizationName": "string",
        "PhoneNumber": "string",
        "State": "string",
        "ZipCode": "string"
    },
    "DomainName": "string",
    "RegistrantContact": {
        "AddressLine1": "string",
        "AddressLine2": "string",
        "City": "string",
        "CountryCode": "string",
        "ContactType": "string",
        "Email": "string",
        "ExtraParams": [
            {
                "Name": "string",
                "Value": "string"
            }
        ],
        "Fax": "string",
        "FirstName": "string",
        "LastName": "string",
        "OrganizationName": "string",
        "PhoneNumber": "string",
        "State": "string",
        "ZipCode": "string"
    },
    "TechContact": {
        "AddressLine1": "string",
        "AddressLine2": "string",
        "City": "string",
        "CountryCode": "string",
        "Email": "string"
    }
}
```
"ExtraParams": [
    {
        "Name": "string",
        "Value": "string"
    }
  ],
"Fax": "string",
"FirstName": "string",
"LastName": "string",
"OrganizationName": "string",
"PhoneNumber": "string",
"State": "string",
"ZipCode": "string"}
}

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 712).

The request accepts the following data in JSON format.

AdminContact (p. 334)

Provides detailed contact information.

Type: ContactDetail (p. 650) object

Required: No

DomainName (p. 334)

The name of the domain that you want to update contact information for.

Type: String

Length Constraints: Maximum length of 255.

Required: Yes

RegistrantContact (p. 334)

Provides detailed contact information.

Type: ContactDetail (p. 650) object

Required: No

TechContact (p. 334)

Provides detailed contact information.

Type: ContactDetail (p. 650) object

Required: No

Response Syntax

{  "OperationId": "string"}
Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**OperationId** *(p. 335)*

Identifier for tracking the progress of the request. To query the operation status, use `GetOperationDetail`.

  Type: String
  Length Constraints: Maximum length of 255.

Errors

For information about the errors that are common to all actions, see Common Errors *(p. 714).*

**DuplicateRequest**

The request is already in progress for the domain.

  HTTP Status Code: 400

**InvalidInput**

The requested item is not acceptable. For example, for APIs that accept a domain name, the request might specify a domain name that doesn't belong to the account that submitted the request. For `AcceptDomainTransferFromAnotherAwsAccount`, the password might be invalid.

  HTTP Status Code: 400

**OperationLimitExceeded**

The number of operations or jobs running exceeded the allowed threshold for the account.

  HTTP Status Code: 400

**TLDRulesViolation**

The top-level domain does not support this operation.

  HTTP Status Code: 400

**UnsupportedTLD**

Amazon Route 53 does not support this top-level domain (TLD).

  HTTP Status Code: 400

Examples

**UpdateDomainContact Example**

This example illustrates one usage of `UpdateDomainContact`. 
Sample Request

POST / HTTP/1.1
host:route53domains.us-east-1.amazonaws.com
x-amz-date:20140711T205230Z
authorization:AWS4-HMAC-SHA256
  Credential=AKIAIOSFODNN7EXAMPLE/20140711/us-east-1/route53domains/
  SignedHeaders=content-length;content-type;host;user-agent;x-amz-date;x-amz-target,
  Signature=[calculated-signature]
x-amz-target:Route53Domains_v20140515.UpdateDomainContact
user-agent:aws-sdk-java/1.8.3 Linux/2.6.18-164.el5PAE Java_HotSpot (TM)_Server_VM/24.60-b09/1.7.0_60
content-type:application/x-amz-json-1.1
content-length:[number of characters in the JSON string]
{
  "DomainName":"example.com",
  "RegistrantContact":{
    "FirstName":"John",
    "MiddleName":"Richard",
    "LastName":"Doe",
    "ContactType":"PERSON",
    "OrganizationName":"",
    "AddressLine1":"123 Any Street",
    "AddressLine2":"",
    "City":"Any Town",
    "State":"WA",
    "CountryCode":"US",
    "ZipCode":"98101",
    "PhoneNumber":"+2065550100",
    "Email":"john@example.com",
    "Fax":"+2065550101"
  },
  "AdminContact":{
    "FirstName":"John",
    "MiddleName":"Richard",
    "LastName":"Doe",
    "ContactType":"PERSON",
    "OrganizationName":"",
    "AddressLine1":"123 Any Street",
    "AddressLine2":"",
    "City":"Any Town",
    "State":"WA",
    "CountryCode":"US",
    "ZipCode":"98101",
    "PhoneNumber":"+2065550100",
    "Email":"john@example.com",
    "Fax":"+2065550101"
  },
  "TechContact":{
    "FirstName":"John",
    "MiddleName":"Richard",
    "LastName":"Doe",
    "ContactType":"PERSON",
    "OrganizationName":"",
    "AddressLine1":"123 Any Street",
    "AddressLine2":"",
    "City":"Any Town",
    "State":"WA",
    "CountryCode":"US",
    "ZipCode":"98101",
    "PhoneNumber":"+2065550100",
    "Email":"john@example.com",
    "Fax":"+2065550101"
}
Sample Response

```
HTTP/1.1 200
Content-Length:[number of characters in the JSON string]
{
  "OperationId": "308c56712-faa4-40fe-94c8-b423069de3f6"
}
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
UpdateDomainContactPrivacy
Service: Amazon Route 53 domain registration

This operation updates the specified domain contact's privacy setting. When privacy protection is enabled, contact information such as email address is replaced either with contact information for Amazon Registrar (for .com, .net, and .org domains) or with contact information for our registrar associate, Gandi.

Note
You must specify the same privacy setting for the administrative, registrant, and technical contacts.

This operation affects only the contact information for the specified contact type (administrative, registrant, or technical). If the request succeeds, Amazon Route 53 returns an operation ID that you can use with GetOperationDetail to track the progress and completion of the action. If the request doesn't complete successfully, the domain registrant will be notified by email.

Important
By disabling the privacy service via API, you consent to the publication of the contact information provided for this domain via the public WHOIS database. You certify that you are the registrant of this domain name and have the authority to make this decision. You may withdraw your consent at any time by enabling privacy protection using either UpdateDomainContactPrivacy or the Route 53 console. Enabling privacy protection removes the contact information provided for this domain from the WHOIS database. For more information on our privacy practices, see https://aws.amazon.com/privacy/.

Request Syntax

```
{
  "AdminPrivacy": boolean,
  "DomainName": "string",
  "RegistrantPrivacy": boolean,
  "TechPrivacy": boolean
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 712).

The request accepts the following data in JSON format.

AdminPrivacy (p. 339)

Whether you want to conceal contact information from WHOIS queries. If you specify true, WHOIS ("who is") queries return contact information either for Amazon Registrar (for .com, .net, and .org domains) or for our registrar associate, Gandi (for all other TLDs). If you specify false, WHOIS queries return the information that you entered for the admin contact.

Note
You must specify the same privacy setting for the administrative, registrant, and technical contacts.

Type: Boolean
Required: No

DomainName (p. 339)

The name of the domain that you want to update the privacy setting for.
Type: String
Length Constraints: Maximum length of 255.
Required: Yes

RegistrantPrivacy (p. 339)

Whether you want to conceal contact information from WHOIS queries. If you specify true, WHOIS ("who is") queries return contact information either for Amazon Registrar (for .com, .net, and .org domains) or for our registrar associate, Gandi (for all other TLDs). If you specify false, WHOIS queries return the information that you entered for the registrant contact (domain owner).

Note
You must specify the same privacy setting for the administrative, registrant, and technical contacts.

Type: Boolean
Required: No

TechPrivacy (p. 339)

Whether you want to conceal contact information from WHOIS queries. If you specify true, WHOIS ("who is") queries return contact information either for Amazon Registrar (for .com, .net, and .org domains) or for our registrar associate, Gandi (for all other TLDs). If you specify false, WHOIS queries return the information that you entered for the technical contact.

Note
You must specify the same privacy setting for the administrative, registrant, and technical contacts.

Type: Boolean
Required: No

Response Syntax

```json
{
   "OperationId": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

OperationId (p. 340)

Identifier for tracking the progress of the request. To use this ID to query the operation status, use GetOperationDetail.

Type: String
Length Constraints: Maximum length of 255.

Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).
**DuplicateRequest**

The request is already in progress for the domain.

HTTP Status Code: 400

**InvalidInput**

The requested item is not acceptable. For example, for APIs that accept a domain name, the request might specify a domain name that doesn't belong to the account that submitted the request. For AcceptDomainTransferFromAnotherAwsAccount, the password might be invalid.

HTTP Status Code: 400

**OperationLimitExceeded**

The number of operations or jobs running exceeded the allowed threshold for the account.

HTTP Status Code: 400

**TLDRulesViolation**

The top-level domain does not support this operation.

HTTP Status Code: 400

**UnsupportedTLD**

Amazon Route 53 does not support this top-level domain (TLD).

HTTP Status Code: 400

**Examples**

**UpdateDomainContactPrivacy Example**

This example illustrates one usage of UpdateDomainContactPrivacy.

**Sample Request**

```
POST / HTTP/1.1
host:route53domains.us-east-1.amazonaws.com
x-amz-date:20140711T205230Z
authorization:AWS4-HMAC-SHA256
Credential=AKIAIOSFODNN7EXAMPLE/20140711/us-east-1/route53domains/
aws4_request, SignedHeaders=content-length;content-type;host;user-agent;x-amz-date;x-amz-
target,
Signature=[calculated-signature]
x-amz-target:Route53Domains_v20140515.UpdateDomainContactPrivacy
user-agent:aws-sdk-java/1.8.3 Linux/2.6.18-164.el5PAE Java_HotSpot (TM)_Server_VM/24.60-
b09/1.7.0_60
content-type:application/x-amz-json-1.1
content-length:[number of characters in the JSON string]
{
 "DomainName":"example.com",
 "AdminPrivacy":true,
 "RegistrantPrivacy":true,
 "TechPrivacy":true,
}
```

**Sample Response**

```
HTTP/1.1 200
```
Content-Length:[number of characters in the JSON string]
{
  "OperationId":"777bc5da-fbf7-482c-b2ba-8946884a7dd6"
}

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
UpdateDomainNameservers
Service: Amazon Route 53 domain registration

This operation replaces the current set of name servers for the domain with the specified set of name servers. If you use Amazon Route 53 as your DNS service, specify the four name servers in the delegation set for the hosted zone for the domain.

If successful, this operation returns an operation ID that you can use to track the progress and completion of the action. If the request is not completed successfully, the domain registrant will be notified by email.

Request Syntax

```
{
    "DomainName": "string",
    "FIAuthKey": "string",
    "Nameservers": [ 
        { 
            "GlueIps": [ "string" ],
            "Name": "string"
        }
    ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 712).

The request accepts the following data in JSON format.

**DomainName (p. 343)**

The name of the domain that you want to change name servers for.

Type: String

Length Constraints: Maximum length of 255.

Required: Yes

**FIAuthKey (p. 343)**

*This parameter has been deprecated.*

The authorization key for .fi domains

Type: String

Required: No

**Nameservers (p. 343)**

A list of new name servers for the domain.

Type: Array of Nameserver (p. 663) objects

Required: Yes
Response Syntax

```
{
  "OperationId": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response. The following data is returned in JSON format by the service.

**OperationId (p. 344)**

Identifier for tracking the progress of the request. To query the operation status, use `GetOperationDetail`.

- Type: String
- Length Constraints: Maximum length of 255.

Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).

**DuplicateRequest**

The request is already in progress for the domain.

HTTP Status Code: 400

**InvalidInput**

The requested item is not acceptable. For example, for APIs that accept a domain name, the request might specify a domain name that doesn't belong to the account that submitted the request. For `AcceptDomainTransferFromAnotherAwsAccount`, the password might be invalid.

HTTP Status Code: 400

**OperationLimitExceeded**

The number of operations or jobs running exceeded the allowed threshold for the account.

HTTP Status Code: 400

**TLDRulesViolation**

The top-level domain does not support this operation.

HTTP Status Code: 400

**UnsupportedTLD**

Amazon Route 53 does not support this top-level domain (TLD).

HTTP Status Code: 400

Examples

**UpdateDomainNameservers Example**

This example illustrates one usage of UpdateDomainNameservers.
Sample Request

POST / HTTP/1.1
host: route53domains.us-east-1.amazonaws.com
x-amz-date:20140711T205230Z
authorization:AWS4-HMAC-SHA256
Credential=AKIAIOSFODNN7EXAMPLE/20140711/us-east-1/route53domains/
aws4_request,
    SignedHeaders=content-length;content-type;host;user-agent;x-amz-date;x-amz-
target,
    Signature=[calculated-signature]
x-amz-target:Route53Domains_v20140515.UpdateDomainNameservers
user-agent:aws-sdk-java/1.8.3 Linux/2.6.18-164.el5PAE Java_HotSpot (TM )_Server_VM/24.60-
b09/1.7.0_60
content-type:application/x-amz-json-1.1
content-length:[number of characters in the JSON string]
{
    "DomainName":"example.com",
    "Nameservers":[
        {
            "Name":"ns1.example.net"
        },
        {
            "Name":"ns1.example.com",
            "GlueIps":[
                "192.0.2.44"
            ]
        }
    ]
}

Sample Response

HTTP/1.1 200
Content-Length:[number of characters in the JSON string]
{
    "OperationId":"0b370c79-faa4-40fe-94c8-b423069de3f6"
}

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
**UpdateTagsForDomain**

Service: Amazon Route 53 domain registration

This operation adds or updates tags for a specified domain.

All tag operations are eventually consistent; subsequent operations might not immediately represent all issued operations.

**Request Syntax**

```json
{
   "DomainName": "string",
   "TagsToUpdate": [
      {
         "Key": "string",
         "Value": "string"
      }
   ]
}
```

**Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 712).

The request accepts the following data in JSON format.

**DomainName** (p. 346)

The domain for which you want to add or update tags.

- Type: String
- Length Constraints: Maximum length of 255.
- Required: Yes

**TagsToUpdate** (p. 346)

A list of the tag keys and values that you want to add or update. If you specify a key that already exists, the corresponding value will be replaced.

- Type: Array of Tag (p. 665) objects
- Required: No

**Response Elements**

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

**Errors**

For information about the errors that are common to all actions, see Common Errors (p. 714).

**InvalidInput**

The requested item is not acceptable. For example, for APIs that accept a domain name, the request might specify a domain name that doesn't belong to the account that submitted the request. For AcceptDomainTransferFromAnotherAwsAccount, the password might be invalid.
HTTP Status Code: 400

**OperationLimitExceeded**

The number of operations or jobs running exceeded the allowed threshold for the account.

HTTP Status Code: 400

**UnsupportedTLD**

Amazon Route 53 does not support this top-level domain (TLD).

HTTP Status Code: 400

## Examples

### UpdateTagsForDomain Example

This example illustrates one usage of UpdateTagsForDomain.

#### Sample Request

```
POST / HTTP/1.1
host:route53domains.us-east-1.amazonaws.com
x-amz-date:20140711T205230Z
authorization:AWS4-HMAC-SHA256
aws4_request,
    SignedHeaders=content-length;content-type;host;user-agent;x-amz-date;x-amz-
target,
    Signature=[calculated-signature]
x-amz-target:Route53Domain_v20140515.UpdateTagsForDomain
user-agent:aws-sdk-java/1.8.3 Linux/2.6.18-164.el5PAE Java_HotSpot (TM )_Server_VM/24.60-
b09/1.7.0_60
content-type:application/x-amz-json-1.1
content-length:[number of characters in the JSON string]
{
    "DomainName": "example.com",
    "TagsToUpdate": [
        { "Key": "foo", "Value": "bar" },
        { "Key": "foo2", "Value": "" }
    ]
}
```

#### Sample Response

```
HTTP/1.1 200
Content-Length:[number of characters in the JSON string]
{}
```

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
ViewBilling
Service: Amazon Route 53 domain registration
Returns all the domain-related billing records for the current AWS account for a specified period

Request Syntax

```json
{
  "End": number,
  "Marker": "string",
  "MaxItems": number,
  "Start": number
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 712).

The request accepts the following data in JSON format.

**End (p. 349)**

The end date and time for the time period for which you want a list of billing records. Specify the date and time in Unix time format and Coordinated Universal time (UTC).

Type: Timestamp

Required: No

**Marker (p. 349)**

For an initial request for a list of billing records, omit this element. If the number of billing records that are associated with the current AWS account during the specified period is greater than the value that you specified for MaxItems, you can use Marker to return additional billing records. Get the value of NextPageMarker from the previous response, and submit another request that includes the value of NextPageMarker in the Marker element.

Constraints: The marker must match the value of NextPageMarker that was returned in the previous response.

Type: String

Length Constraints: Maximum length of 4096.

Required: No

**MaxItems (p. 349)**

The number of billing records to be returned.

Default: 20

Type: Integer

Valid Range: Maximum value of 100.

Required: No

**Start (p. 349)**

The beginning date and time for the time period for which you want a list of billing records. Specify the date and time in Unix time format and Coordinated Universal time (UTC).
ViewBilling

Type: Timestamp
Required: No

Response Syntax

```
{
  "BillingRecords": [
    {
      "BillDate": number,
      "DomainName": "string",
      "InvoiceId": "string",
      "Operation": "string",
      "Price": number
    },
    ...
  ],
  "NextPageMarker": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**BillingRecords (p. 350)**

A summary of billing records.

Type: Array of **BillingRecord (p. 648)** objects

**NextPageMarker (p. 350)**

If there are more billing records than you specified for **MaxItems** in the request, submit another request and include the value of **NextPageMarker** in the value of **Marker**.

Type: String

Length Constraints: Maximum length of 4096.

Errors

For information about the errors that are common to all actions, see [Common Errors (p. 714)](Common Errors (p. 714)).

**InvalidInput**

The requested item is not acceptable. For example, for APIs that accept a domain name, the request might specify a domain name that doesn't belong to the account that submitted the request. For **AcceptDomainTransferFromAnotherAwsAccount**, the password might be invalid.

HTTP Status Code: 400

Examples

ViewBilling Example

This example illustrates one usage of ViewBilling.
Sample Request

POST / HTTP/1.1
host: route53domains.us-east-1.amazonaws.com
x-amz-date: 20140711T205230Z
authorization: AWS4-HMAC-SHA256
Credential=AKIAIOSFODNN7EXAMPLE/20140711/us-east-1/route53domains/
aws4_request,
    SignedHeaders=content-length;content-type;host;user-agent;x-amz-date;x-amz-
target,
    Signature=[calculated-signature]
x-amz-target: Route53Domains_v20140515.ViewBilling
user-agent: aws-sdk-java/1.8.3 Linux/2.6.18-164.el5PAE Java_HotSpot (TM)_Server_VM/24.60-
b09/1.7.0_60
content-type: application/x-amz-json-1.1
content-length: [number of characters in the JSON string]
{
    "Start": 1461006299,
    "End": 1463598304,
    "MaxItems": 20
}

Sample Response

HTTP/1.1 200
Content-Length: [number of characters in the JSON string]
{
    "BillingRecords": [
        {
            "BillDate": 1431211111,
            "DomainName": "example.net",
            "InvoiceId": "1111111111",
            "Operation": "REGISTER_DOMAIN",
            "Price": 12
        },
        {
            "BillDate": 1431222222,
            "DomainName": "example.com",
            "InvoiceId": "2222222222",
            "Operation": "TRANSFER_IN_DOMAIN",
            "Price": 12
        },
        {
            "BillDate": 1431233333,
            "DomainName": "example.org",
            "InvoiceId": "3333333333",
            "Operation": "RENEW_DOMAIN",
            "Price": 12
        }
    ]
}

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
Amazon Route 53 Resolver

The following actions are supported by Amazon Route 53 Resolver:

- AssociateFirewallRuleGroup (p. 354)
- AssociateResolverEndpointIpAddress (p. 358)
- AssociateResolverQueryLogConfig (p. 362)
- AssociateResolverRule (p. 366)
- CreateFirewallDomainList (p. 370)
- CreateFirewallRule (p. 373)
- CreateFirewallRuleGroup (p. 377)
- CreateResolverEndpoint (p. 380)
- CreateResolverQueryLogConfig (p. 385)
- CreateResolverRule (p. 390)
- DeleteFirewallDomainList (p. 395)
- DeleteFirewallRule (p. 397)
- DeleteFirewallRuleGroup (p. 399)
- DeleteResolverEndpoint (p. 401)
- DeleteResolverQueryLogConfig (p. 404)
- DeleteResolverRule (p. 408)
- DisassociateFirewallRuleGroup (p. 411)
- DisassociateResolverEndpointIpAddress (p. 413)
- DisassociateResolverQueryLogConfig (p. 417)
- DisassociateResolverRule (p. 421)
- GetFirewallConfig (p. 424)
- GetFirewallDomainList (p. 426)
- GetFirewallRuleGroup (p. 428)
- GetFirewallRuleGroupAssociation (p. 430)
- GetFirewallRuleGroupPolicy (p. 432)
- GetResolverConfig (p. 434)
- GetResolverDnssecConfig (p. 436)
- GetResolverEndpoint (p. 438)
- GetResolverQueryLogConfig (p. 441)
- GetResolverQueryLogConfigAssociation (p. 444)
- GetResolverQueryLogConfigPolicy (p. 447)
- GetResolverRule (p. 450)
- GetResolverRuleAssociation (p. 453)
- GetResolverRulePolicy (p. 456)
- ImportFirewallDomains (p. 459)
- ListFirewallConfigs (p. 462)
- ListFirewallDomainLists (p. 465)
• ListFirewallDomains (p. 468)
• ListFirewallRuleGroupAssociations (p. 471)
• ListFirewallRuleGroups (p. 475)
• ListFirewallRules (p. 478)
• ListResolverConfigs (p. 482)
• ListResolverDnssecConfigs (p. 485)
• ListResolverEndpointIpAddresses (p. 488)
• ListResolverEndpoints (p. 492)
• ListResolverQueryLogConfigAssociations (p. 496)
• ListResolverQueryLogConfigs (p. 501)
• ListResolverRuleAssociations (p. 506)
• ListResolverRules (p. 510)
• ListTagsForResource (p. 514)
• PutFirewallRuleGroupPolicy (p. 518)
• PutResolverQueryLogConfigPolicy (p. 520)
• PutResolverRulePolicy (p. 524)
• TagResource (p. 527)
• UntagResource (p. 530)
• UpdateFirewallConfig (p. 533)
• UpdateFirewallDomains (p. 536)
• UpdateFirewallRule (p. 539)
• UpdateFirewallRuleGroupAssociation (p. 543)
• UpdateResolverConfig (p. 546)
• UpdateResolverDnssecConfig (p. 549)
• UpdateResolverEndpoint (p. 552)
• UpdateResolverRule (p. 555)
AssociateFirewallRuleGroup
Service: Amazon Route 53 Resolver

Associates a FirewallRuleGroup (p. 680) with a VPC, to provide DNS filtering for the VPC.

Request Syntax

```json
{
    "CreatorRequestId": "string",
    "FirewallRuleGroupId": "string",
    "MutationProtection": "string",
    "Name": "string",
    "Priority": number,
    "Tags": [
        {
            "Key": "string",
            "Value": "string"
        }
    ],
    "VpcId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 712).

The request accepts the following data in JSON format.

CreatorRequestId (p. 354)

A unique string that identifies the request and that allows failed requests to be retried without the risk of running the operation twice. CreatorRequestId can be any unique string, for example, a date/time stamp.

Type: String
Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

FirewallRuleGroupId (p. 354)

The unique identifier of the firewall rule group.

Type: String
Length Constraints: Minimum length of 1. Maximum length of 64.

Required: Yes

MutationProtection (p. 354)

If enabled, this setting disallows modification or removal of the association, to help prevent against accidentally altering DNS firewall protections. When you create the association, the default setting is DISABLED.

Type: String
Valid Values: ENABLED | DISABLED

354
**Required: No**

**Name (p. 354)**

A name that lets you identify the association, to manage and use it.

Type: String

Length Constraints: Maximum length of 64.

Pattern: (?![0-9]+$)(([a-zA-Z0-9-\-_ ']+))

**Required: Yes**

**Priority (p. 354)**

The setting that determines the processing order of the rule group among the rule groups that you associate with the specified VPC. DNS Firewall filters VPC traffic starting from the rule group with the lowest numeric priority setting.

You must specify a unique priority for each rule group that you associate with a single VPC. To make it easier to insert rule groups later, leave space between the numbers, for example, use 101, 200, and so on. You can change the priority setting for a rule group association after you create it.

The allowed values for **Priority** are between 100 and 9900.

Type: Integer

**Required: Yes**

**Tags (p. 354)**

A list of the tag keys and values that you want to associate with the rule group association.

Type: Array of **Tag (p. 710)** objects

Array Members: Maximum number of 200 items.

**Required: No**

**VpcId (p. 354)**

The unique identifier of the VPC that you want to associate with the rule group.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

**Required: Yes**

**Response Syntax**

```json
{
  "FirewallRuleGroupAssociation": {
    "Arn": "string",
    "CreationTime": "string",
    "CreatorRequestId": "string",
    "FirewallRuleGroupId": "string",
    "Id": "string",
    "ManagedOwnerName": "string",
    "ModificationTime": "string",
    "MutationProtection": "string",
    "Name": "string",
  }
}
```
"Priority": number,
"Status": "string",
"StatusMessage": "string",
"VpcId": "string"
}

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

FirewallRuleGroupAssociation (p. 355)

The association that you just created. The association has an ID that you can use to identify it in other requests, like update and delete.

Type: FirewallRuleGroupAssociation (p. 683) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).

AccessDeniedException

The current account doesn't have the IAM permissions required to perform the specified Resolver operation.

HTTP Status Code: 400

ConflictException

The requested state transition isn't valid. For example, you can't delete a firewall domain list if it is in the process of being deleted, or you can't import domains into a domain list that is in the process of being deleted.

HTTP Status Code: 400

InternalServerErrorException

We encountered an unknown error. Try again in a few minutes.

HTTP Status Code: 400

LimitExceededException

The request caused one or more limits to be exceeded.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource doesn't exist.

HTTP Status Code: 400

ThrottlingException

The request was throttled. Try again in a few minutes.

HTTP Status Code: 400
ValidationException

You have provided an invalid command. Supported values are ADD, REMOVE, or REPLACE a domain.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
AssociateResolverEndpointIpAddress

Service: Amazon Route 53 Resolver

Adds IP addresses to an inbound or an outbound Resolver endpoint. If you want to add more than one IP address, submit one AssociateResolverEndpointIpAddress request for each IP address.

To remove an IP address from an endpoint, see DisassociateResolverEndpointIpAddress.

Request Syntax

```
{
   "IpAddress": {
      "Ip": "string",
      "IpId": "string",
      "SubnetId": "string"
   },
   "ResolverEndpointId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 712).

The request accepts the following data in JSON format.

IpAddress (p. 358)

Either the IPv4 address that you want to add to a Resolver endpoint or a subnet ID. If you specify a subnet ID, Resolver chooses an IP address for you from the available IPs in the specified subnet.

Type: IpAddressUpdate (p. 691) object

Required: Yes

ResolverEndpointId (p. 358)

The ID of the Resolver endpoint that you want to associate IP addresses with.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Required: Yes

Response Syntax

```
{
   "ResolverEndpoint": {
      "Arn": "string",
      "CreationTime": "string",
      "CreatorRequestId": "string",
      "Direction": "string",
      "HostVPCId": "string",
      "Id": "string",
      "IpAddressCount": number,
      "ModificationTime": "string",
      "Name": "string"
   }
}
```
"SecurityGroupIds": [ "string" ],
"Status": "string",
"StatusMessage": "string"
}

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**ResolverEndpoint (p. 358)**

The response to an `AssociateResolverEndpointIpAddress` request.

Type: [ResolverEndpoint (p. 696)]

Errors

For information about the errors that are common to all actions, see [Common Errors (p. 714)].

**InternalServiceErrorException**

We encountered an unknown error. Try again in a few minutes.

HTTP Status Code: 400

**InvalidParameterException**

One or more parameters in this request are not valid.

HTTP Status Code: 400

**InvalidRequestException**

The request is invalid.

HTTP Status Code: 400

**LimitExceededException**

The request caused one or more limits to be exceeded.

HTTP Status Code: 400

**ResourceExistsException**

The resource that you tried to create already exists.

HTTP Status Code: 400

**ResourceNotFoundException**

The specified resource doesn't exist.

HTTP Status Code: 400

**ThrottlingException**

The request was throttled. Try again in a few minutes.

HTTP Status Code: 400
Examples

AssociateResolverEndpointIpAddress Example

This example illustrates one usage of AssociateResolverEndpointIpAddress.

Sample Request

```
POST / HTTP/1.1
Host: route53resolver.us-east-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 107
X-Amz-Target: Route53Resolver.AssociateResolverEndpointIpAddress
X-Amz-Date: 20181101T185222Z
User-Agent: aws-cli/1.16.45 Python/2.7.10 Darwin/16.7.0 botocore/1.12.35
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256

aws4_request,
  SignedHeaders=content-type;host;x-amz-date;x-amz-target,
  Signature=[calculated-signature]

{
  "IpAddress": {
    "SubnetId": "subnet-02f91e0e98example"
  },
  "ResolverEndpointId": "rslvr-in-60b9fd8fdbexample"
}
```

Sample Response

```
HTTP/1.1 200 OK
Date: Thu, 01 Nov 2018 18:52:22 GMT
Content-Type: application/x-amz-json-1.1
Content-Length: 479
x-amzn-RequestId: bda80f7b-0f2c-41d1-9043-f36d3example
Connection: keep-alive

{
  "ResolverEndpoint": {
    "CreationTime": "2018-11-01T18:44:50.372Z",
    "CreatorRequestId": "1234",
    "Direction": "INBOUND",
    "HostVPCId": "vpc-03cf94c75example",
    "Id": "rslvr-in-60b9fd8fdbexample",
    "IpAddressCount": 3,
    "ModificationTime": "2018-11-01T18:44:50.372Z",
    "Name": "MyInbound",
    "SecurityGroupId": ["sg-020a3554example"],
    "Status": "UPDATING",
    "StatusMessage": "Updating the Resolver Endpoint"
  }
}
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:
- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
AssociateResolverQueryLogConfig

Service: Amazon Route 53 Resolver

Associates an Amazon VPC with a specified query logging configuration. Route 53 Resolver logs DNS queries that originate in all of the Amazon VPCs that are associated with a specified query logging configuration. To associate more than one VPC with a configuration, submit one AssociateResolverQueryLogConfig request for each VPC.

**Note**
The VPCs that you associate with a query logging configuration must be in the same Region as the configuration.

To remove a VPC from a query logging configuration, see DisassociateResolverQueryLogConfig.

**Request Syntax**

```json
{
  "ResolverQueryLogConfigId": "string",
  "ResourceId": "string"
}
```

**Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 712).

The request accepts the following data in JSON format.

**ResolverQueryLogConfigId (p. 362)**

The ID of the query logging configuration that you want to associate a VPC with.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Required: Yes

**ResourceId (p. 362)**

The ID of an Amazon VPC that you want this query logging configuration to log queries for.

**Note**
The VPCs and the query logging configuration must be in the same Region.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Required: Yes

**Response Syntax**

```json
{
  "ResolverQueryLogConfigAssociation": {
    "CreationTime": "string",
    "Error": "string",
    "ErrorMessage": "string",
    "Id": "string"
  }
}
```
"ResolverQueryLogConfigId": "string",
"ResourceId": "string",
"Status": "string"
}

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

ResolverQueryLogConfigAssociation  (p. 362)

A complex type that contains settings for a specified association between an Amazon VPC and a query logging configuration.

Type:  ResolverQueryLogConfigAssociation  (p. 702) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).

AccessDeniedException

The current account doesn't have the IAM permissions required to perform the specified Resolver operation.

HTTP Status Code: 400

InternalServiceErrorException

We encountered an unknown error. Try again in a few minutes.

HTTP Status Code: 400

InvalidParameterException

One or more parameters in this request are not valid.

HTTP Status Code: 400

InvalidRequestException

The request is invalid.

HTTP Status Code: 400

LimitExceededException

The request caused one or more limits to be exceeded.

HTTP Status Code: 400

ResourceExistsException

The resource that you tried to create already exists.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource doesn't exist.

HTTP Status Code: 400
ThrottlingException

The request was throttled. Try again in a few minutes.

HTTP Status Code: 400

Examples

AssociateResolverQueryLogConfig Example

This example illustrates one usage of AssociateResolverQueryLogConfig.

Sample Request

```
POST / HTTP/1.1
Host: route53resolver.us-east-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 107
X-Amz-Target: Route53Resolver.AssociateResolverQueryLogConfig
X-Amz-Date: 20200415T185222Z
User-Agent: aws-cli/1.16.45 Python/2.7.10 Darwin/16.7.0 botocore/1.12.35
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256

Credential=AKIAJJ2SONIPEXAMPLE/20200415/us-east-2/route53resolver/
aws4_request,
SignedHeaders=content-type;host;x-amz-date;x-amz-target,
Signature=[calculated-signature]

{
  "ResolverQueryLogConfigId": "rqlc-8ca61fe7cexample",
  "Resource": {
    "VpcId": "vpc-03cf94c75cexample"
  }
}
```

Sample Response

```
HTTP/1.1 200 OK
Date: Thu, 01 Nov 2018 18:52:22 GMT
Content-Type: application/x-amz-json-1.1
Content-Length: 479
x-amzn-RequestId: bda80f7b-0f2c-41d1-9043-f36d3example
Connection: keep-alive

{
  "ResolverQueryLogConfigAssociation":{
    "CreationTime": "2020-04-15T18:52:23.30Z",
    "Error": "",
    "ErrorMessage": "",
    "Id": "rqlca-ff85e1ffexample",
    "ResolverQueryLogConfigId": "rqlc-8ca61fe7cexample",
    "Resource": "vpc-03cf94c75cexample",
    "Status": "CREATED"
  }
}
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:
• AWS Command Line Interface
• AWS SDK for .NET
• AWS SDK for C++
• AWS SDK for Go
• AWS SDK for Java V2
• AWS SDK for JavaScript
• AWS SDK for PHP V3
• AWS SDK for Python
• AWS SDK for Ruby V3
AssociateResolverRule

Service: Amazon Route 53 Resolver

Associates a Resolver rule with a VPC. When you associate a rule with a VPC, Resolver forwards all DNS queries for the domain name that is specified in the rule and that originate in the VPC. The queries are forwarded to the IP addresses for the DNS resolvers that are specified in the rule. For more information about rules, see CreateResolverRule.

Request Syntax

```json
{
    "Name": "string",
    "ResolverRuleId": "string",
    "VPCId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 712).

The request accepts the following data in JSON format.

**Name** (p. 366)

A name for the association that you're creating between a Resolver rule and a VPC.

Type: String

Length Constraints: Maximum length of 64.

Pattern: (?![0-9]+)(([a-zA-Z0-9-]+\-[` ']+)+)

Required: No

**ResolverRuleId** (p. 366)

The ID of the Resolver rule that you want to associate with the VPC. To list the existing Resolver rules, use ListResolverRules.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Required: Yes

**VPCId** (p. 366)

The ID of the VPC that you want to associate the Resolver rule with.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Required: Yes

Response Syntax

```json
{
}
```
"ResolverRuleAssociation": {
  "Id": "string",
  "Name": "string",
  "ResolverRuleId": "string",
  "Status": "string",
  "StatusMessage": "string",
  "VPCId": "string"
}

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

ResolverRuleAssociation  (p. 366)

Information about the AssociateResolverRule request, including the status of the request.

Type: ResolverRuleAssociation  (p. 707) object

Errors

For information about the errors that are common to all actions, see Common Errors  (p. 714).

InternalServiceErrorException

We encountered an unknown error. Try again in a few minutes.

HTTP Status Code: 400

InvalidParameterException

One or more parameters in this request are not valid.

HTTP Status Code: 400

InvalidRequestException

The request is invalid.

HTTP Status Code: 400

LimitExceededException

The request caused one or more limits to be exceeded.

HTTP Status Code: 400

ResourceExistsException

The resource that you tried to create already exists.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource doesn't exist.

HTTP Status Code: 400

ResourceUnavailableException

The specified resource isn't available.
HTTP Status Code: 400

**ThrottlingException**

The request was throttled. Try again in a few minutes.

HTTP Status Code: 400

## Examples

### AssociateResolverRule Example

This example illustrates one usage of AssociateResolverRule.

#### Sample Request

```
POST / HTTP/1.1
Host: route53resolver.us-east-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 82
X-Amz-Target: Route53Resolver.AssociateResolverRule
X-Amz-Date: 20181101T192826Z
User-Agent: aws-cli/1.16.45 Python/2.7.10 Darwin/16.7.0 botocore/1.12.35
Authorization: AWS4-HMAC-SHA256
Credential=AKIAJJ2SONIPEXAMPLE/20181101/us-east-2/route53resolver/
aws4_request,
SignedHeaders=content-type;host;x-amz-date;x-amz-target,
Signature=[calculated-signature]
{
  "VPCId": "vpc-03cf94c75cexample",
  "ResolverRuleId": "rslvr-rr-5328a0899aexample"
}
```

#### Sample Response

```
HTTP/1.1 200 OK
Date: Thu, 01 Nov 2018 19:28:27 GMT
Content-Type: application/x-amz-json-1.1
Content-Length: 258
x-amzn-RequestId: 9827eb40-87e6-44d6-bee7-a1116example
Connection: keep-alive
{
  "ResolverRuleAssociation":{
    "Id": "rslvr-rrassoc-97242eaf88example",
    "Name": "forward example.com for gamma VPC",
    "ResolverRuleId": "rslvr-rr-5328a0899aexample",
    "Status": "CREATING",
    "StatusMessage": "[Trace id: 1-5bdb53db-75f3852c8384ad30fexample], Creating the association."
  },
  "VPCId": "vpc-03cf94c75cexample"
}
```

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:
• AWS Command Line Interface
• AWS SDK for .NET
• AWS SDK for C++
• AWS SDK for Go
• AWS SDK for Java V2
• AWS SDK for JavaScript
• AWS SDK for PHP V3
• AWS SDK for Python
• AWS SDK for Ruby V3
CreateFirewallDomainList
Service: Amazon Route 53 Resolver

Creates an empty firewall domain list for use in DNS Firewall rules. You can populate the domains for the new list with a file, using ImportFirewallDomains (p. 459), or with domain strings, using UpdateFirewallDomains (p. 536).

Request Syntax

```json
{
    "CreatorRequestId": "string",
    "Name": "string",
    "Tags": [
    {
        "Key": "string",
        "Value": "string"
    }
    ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 712).

The request accepts the following data in JSON format.

**CreatorRequestId (p. 370)**

A unique string that identifies the request and that allows you to retry failed requests without the risk of running the operation twice. CreatorRequestId can be any unique string, for example, a date/time stamp.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

**Name (p. 370)**

A name that lets you identify the domain list to manage and use it.

Type: String

Length Constraints: Maximum length of 64.

Pattern: (?!:^[0-9]+$)([a-zA-Z0-9\-\_\.' ]+)

Required: Yes

**Tags (p. 370)**

A list of the tag keys and values that you want to associate with the domain list.

Type: Array of Tag (p. 710) objects

Array Members: Maximum number of 200 items.

Required: No
Response Syntax

```json
{
    "FirewallDomainList": {
        "Arn": "string",
        "CreationTime": "string",
        "CreatorRequestId": "string",
        "DomainCount": number,
        "Id": "string",
        "ManagedOwnerName": "string",
        "ModificationTime": "string",
        "Name": "string",
        "Status": "string",
        "StatusMessage": "string"
    }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**FirewallDomainList (p. 371)**

The domain list that you just created.

Type: FirewallDomainList (p. 672) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).

**AccessDeniedException**

The current account doesn't have the IAM permissions required to perform the specified Resolver operation.

HTTP Status Code: 400

**InternalServerErrorException**

We encountered an unknown error. Try again in a few minutes.

HTTP Status Code: 400

**LimitExceededException**

The request caused one or more limits to be exceeded.

HTTP Status Code: 400

**ThrottlingException**

The request was throttled. Try again in a few minutes.

HTTP Status Code: 400

**ValidationException**

You have provided an invalid command. Supported values are ADD, REMOVE, or REPLACE a domain.
HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
CreateFirewallRule
Service: Amazon Route 53 Resolver

Creates a single DNS Firewall rule in the specified rule group, using the specified domain list.

Request Syntax

```
{
   "Action": "string",
   "BlockOverrideDnsType": "string",
   "BlockOverrideDomain": "string",
   "BlockOverrideTtl": number,
   "BlockResponse": "string",
   "CreatorRequestId": "string",
   "FirewallDomainListId": "string",
   "FirewallRuleGroupId": "string",
   "Name": "string",
   "Priority": number
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 712).

The request accepts the following data in JSON format.

Action (p. 373)

The action that DNS Firewall should take on a DNS query when it matches one of the domains in the rule's domain list:

- **ALLOW** - Permit the request to go through.
- **ALERT** - Permit the request and send metrics and logs to Cloud Watch.
- **BLOCK** - Disallow the request. This option requires additional details in the rule's BlockResponse.

Type: String

Valid Values: ALLOW | BLOCK | ALERT

Required: Yes

BlockOverrideDnsType (p. 373)

The DNS record's type. This determines the format of the record value that you provided in BlockOverrideDomain. Used for the rule action BLOCK with a BlockResponse setting of OVERRIDE.

This setting is required if the BlockResponse setting is OVERRIDE.

Type: String

Valid Values: CNAME

Required: No

BlockOverrideDomain (p. 373)

The custom DNS record to send back in response to the query. Used for the rule action BLOCK with a BlockResponse setting of OVERRIDE.
This setting is required if the `BlockResponse` setting is `OVERRIDE`.

**Type:** String

**Length Constraints:** Minimum length of 1. Maximum length of 255.

**Required:** No

**BlockOverrideTtl** *(p. 373)*

The recommended amount of time, in seconds, for the DNS resolver or web browser to cache the provided override record. Used for the rule action `BLOCK` with a `BlockResponse` setting of `OVERRIDE`.

This setting is required if the `BlockResponse` setting is `OVERRIDE`.

**Type:** Integer

**Valid Range:** Minimum value of 0. Maximum value of 604800.

**Required:** No

**BlockResponse** *(p. 373)*

The way that you want DNS Firewall to block the request, used with the rule action setting `BLOCK`.

- **NODATA** - Respond indicating that the query was successful, but no response is available for it.
- **NXDOMAIN** - Respond indicating that the domain name that's in the query doesn't exist.
- **OVERRIDE** - Provide a custom override in the response. This option requires custom handling details in the rule's `BlockOverride*` settings.

This setting is required if the rule action setting is `BLOCK`.

**Type:** String

**Valid Values:** NODATA | NXDOMAIN | OVERRIDE

**Required:** No

**CreatorRequestId** *(p. 373)*

A unique string that identifies the request and that allows you to retry failed requests without the risk of running the operation twice. `CreatorRequestId` can be any unique string, for example, a date/time stamp.

**Type:** String

**Length Constraints:** Minimum length of 1. Maximum length of 255.

**Required:** Yes

**FirewallDomainListId** *(p. 373)*

The ID of the domain list that you want to use in the rule.

**Type:** String

**Length Constraints:** Minimum length of 1. Maximum length of 64.

**Required:** Yes

**FirewallRuleGroupId** *(p. 373)*

The unique identifier of the firewall rule group where you want to create the rule.
CreateFirewallRule

**Type**: String

**Length Constraints**: Minimum length of 1. Maximum length of 64.

**Required**: Yes

**Name** *(p. 373)*

A name that lets you identify the rule in the rule group.

**Type**: String

**Length Constraints**: Maximum length of 64.

**Pattern**: (?![0-9]+$)(([a-zA-Z0-9\-` \']+)*)

**Required**: Yes

**Priority** *(p. 373)*

The setting that determines the processing order of the rule in the rule group. DNS Firewall processes the rules in a rule group by order of priority, starting from the lowest setting.

You must specify a unique priority for each rule in a rule group. To make it easier to insert rules later, leave space between the numbers, for example, use 100, 200, and so on. You can change the priority setting for the rules in a rule group at any time.

**Type**: Integer

**Required**: Yes

**Response Syntax**

```
{
  "FirewallRule": {
    "Action": "string",
    "BlockOverrideDnsType": "string",
    "BlockOverrideDomain": "string",
    "BlockOverrideTtl": number,
    "BlockResponse": "string",
    "CreationTime": "string",
    "CreatorRequestId": "string",
    "FirewallDomainListId": "string",
    "FirewallRuleGroupId": "string",
    "ModificationTime": "string",
    "Name": "string",
    "Priority": number
  }
}
```

**Response Elements**

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**FirewallRule** *(p. 375)*

The firewall rule that you just created.

**Type**: FirewallRule *(p. 677)* object
Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).

AccessDeniedException

The current account doesn't have the IAM permissions required to perform the specified Resolver operation.

HTTP Status Code: 400

InternalServiceErrorException

We encountered an unknown error. Try again in a few minutes.

HTTP Status Code: 400

LimitExceededException

The request caused one or more limits to be exceeded.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource doesn't exist.

HTTP Status Code: 400

ThrottlingException

The request was throttled. Try again in a few minutes.

HTTP Status Code: 400

ValidationException

You have provided an invalid command. Supported values are ADD, REMOVE, or REPLACE a domain.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
CreateFirewallRuleGroup
Service: Amazon Route 53 Resolver

Creates an empty DNS Firewall rule group for filtering DNS network traffic in a VPC. You can add rules to the new rule group by calling CreateFirewallRule (p. 373).

Request Syntax

```json
{
  "CreatorRequestId": "string",
  "Name": "string",
  "Tags": [
    {
      "Key": "string",
      "Value": "string"
    }
  ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 712).

The request accepts the following data in JSON format.

**CreatorRequestId** (p. 377)

A unique string defined by you to identify the request. This allows you to retry failed requests without the risk of running the operation twice. This can be any unique string, for example, a timestamp.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

**Name** (p. 377)

A name that lets you identify the rule group, to manage and use it.

Type: String

Length Constraints: Maximum length of 64.

Pattern: (?![0-9]+$)([a-zA-Z0-9\-_ ']+)

Required: Yes

**Tags** (p. 377)

A list of the tag keys and values that you want to associate with the rule group.

Type: Array of Tag (p. 710) objects

Array Members: Maximum number of 200 items.

Required: No
Response Syntax

```
{
  "FirewallRuleGroup": {
    "Arn": "string",
    "CreationTime": "string",
    "CreatorRequestId": "string",
    "Id": "string",
    "ModificationTime": "string",
    "Name": "string",
    "OwnerId": "string",
    "RuleCount": number,
    "ShareStatus": "string",
    "Status": "string",
    "StatusMessage": "string"
  }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**FirewallRuleGroup (p. 378)**

A collection of rules used to filter DNS network traffic.

Type: FirewallRuleGroup (p. 680) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).

**AccessDeniedException**

The current account doesn't have the IAM permissions required to perform the specified Resolver operation.

HTTP Status Code: 400

**InternalServiceErrorException**

We encountered an unknown error. Try again in a few minutes.

HTTP Status Code: 400

**LimitExceededException**

The request caused one or more limits to be exceeded.

HTTP Status Code: 400

**ThrottlingException**

The request was throttled. Try again in a few minutes.

HTTP Status Code: 400

**ValidationException**

You have provided an invalid command. Supported values are ADD, REMOVE, or REPLACE a domain.
HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
CreateResolverEndpoint
Service: Amazon Route 53 Resolver

Creates a Resolver endpoint. There are two types of Resolver endpoints, inbound and outbound:

- An inbound Resolver endpoint forwards DNS queries to the DNS service for a VPC from your network.
- An outbound Resolver endpoint forwards DNS queries from the DNS service for a VPC to your network.

Request Syntax

```json
{
    "CreatorRequestId": "string",
    "Direction": "string",
    "IpAddresses": [
        {
            "Ip": "string",
            "SubnetId": "string"
        }
    ],
    "Name": "string",
    "SecurityGroupIds": [ "string" ],
    "Tags": [
        {
            "Key": "string",
            "Value": "string"
        }
    ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 712).

The request accepts the following data in JSON format.

- **CreatorRequestId (p. 380)**
  A unique string that identifies the request and that allows failed requests to be retried without the risk of running the operation twice. CreatorRequestId can be any unique string, for example, a date/time stamp.
  
  Type: String
  
  Length Constraints: Minimum length of 1. Maximum length of 255.
  
  Required: Yes

- **Direction (p. 380)**
  
  Specify the applicable value:
  
  - INBOUND: Resolver forwards DNS queries to the DNS service for a VPC from your network
  - OUTBOUND: Resolver forwards DNS queries from the DNS service for a VPC to your network
  
  Type: String
  
  Valid Values: INBOUND | OUTBOUND
  
  Required: Yes
IpAddresses (p. 380)

The subnets and IP addresses in your VPC that DNS queries originate from (for outbound endpoints) or that you forward DNS queries to (for inbound endpoints). The subnet ID uniquely identifies a VPC.

Type: Array of IpAddressRequest (p. 688) objects

Array Members: Minimum number of 1 item. Maximum number of 10 items.

Required: Yes

Name (p. 380)

A friendly name that lets you easily find a configuration in the Resolver dashboard in the Route 53 console.

Type: String

Length Constraints: Maximum length of 64.

Pattern: (?![0-9]+$)(([a-zA-Z0-9-\_\ ']+)+)

Required: No

SecurityGroupIds (p. 380)

The ID of one or more security groups that you want to use to control access to this VPC. The security group that you specify must include one or more inbound rules (for inbound Resolver endpoints) or outbound rules (for outbound Resolver endpoints). Inbound and outbound rules must allow TCP and UDP access. For inbound access, open port 53. For outbound access, open the port that you're using for DNS queries on your network.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 64.

Required: Yes

Tags (p. 380)

A list of the tag keys and values that you want to associate with the endpoint.

Type: Array of Tag (p. 710) objects

Array Members: Maximum number of 200 items.

Required: No

Response Syntax

```json
{
  "ResolverEndpoint": {
    "Arn": "string",
    "CreationTime": "string",
    "CreatorRequestId": "string",
    "Direction": "string",
    "HostVPCId": "string",
    "Id": "string",
    "IpAddressCount": number,
    "ModificationTime": "string",
    "Name": "string",
    "SecurityGroupIds": [ "string" ],
```
"Status": "string",
"StatusMessage": "string"
}
}

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

ResolverEndpoint (p. 381)

Information about the CreateResolverEndpoint request, including the status of the request.

Type: ResolverEndpoint (p. 696) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).

InternalServiceErrorException

We encountered an unknown error. Try again in a few minutes.

HTTP Status Code: 400

InvalidParameterException

One or more parameters in this request are not valid.

HTTP Status Code: 400

InvalidRequestException

The request is invalid.

HTTP Status Code: 400

LimitExceedededException

The request caused one or more limits to be exceeded.

HTTP Status Code: 400

ResourceExistsException

The resource that you tried to create already exists.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource doesn't exist.

HTTP Status Code: 400

ThrottlingException

The request was throttled. Try again in a few minutes.

HTTP Status Code: 400
Examples

CreateResolverEndpoint Example

This example illustrates one usage of CreateResolverEndpoint.

Sample Request

POST / HTTP/1.1
Host: route53resolver.us-east-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 283
X-Amz-Target: Route53Resolver.CreateResolverEndpoint
X-Amz-Date: 20181101T191344Z
User-Agent: aws-cli/1.16.45 Python/2.7.10 Darwin/16.7.0 botocore/1.12.35
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256

Credential=AKIAJJ2SONIPEXAMPLE/20181101/us-east-2/route53resolver/
aws4_request,

SignedHeaders=content-type;host;x-amz-date;x-amz-target,
Signature=[calculated-signature]

{
  "Direction": "OUTBOUND",
  "Name": "MyOutbound",
  "Tags": [
    {
      "Key": "LineOfBusiness",
      "Value": "Engineering"
    }
  ],
  "CreatorRequestId": "5678",
  "SecurityGroupIds": [
    "sg-071b99f42example"
  ],
  "IpAddresses": [
    { "SubnetId": "subnet-0bca4d363dexample" }
  ]
}

Sample Response

HTTP/1.1 200 OK
Date: Thu, 01 Nov 2018 19:13:44 GMT
Content-Type: application/x-amz-json-1.1
Content-Length: 531
x-amzn-RequestId: 08afd081-9d67-4281-a277-b3880example
Connection: keep-alive

{
  "ResolverEndpoint": {
    "CreationTime": "2018-11-01T19:13:44.830Z",
    "CreatorRequestId": "5678",
    "Direction": "OUTBOUND",
    "HostVPCId": "vpc-08d415a0edexample",
  }
}
"Id": "rslvr-out-fdc049932dexample",
"IpAddressCount": 2,
"ModificationTime": "2018-11-01T19:13:44.830Z",
"Name": "MyOutbound",
"SecurityGroupIds": [
  "sg-071b99f42example"
],
"Status": "CREATING",
"StatusMessage": "[Trace id: 1-5bdb5068-e0bd4d232b1a3fe9c944c10] Creating the Resolver Endpoint"
}

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
CreateResolverQueryLogConfig

Service: Amazon Route 53 Resolver

Creates a Resolver query logging configuration, which defines where you want Resolver to save DNS query logs that originate in your VPCs. Resolver can log queries only for VPCs that are in the same Region as the query logging configuration.

To specify which VPCs you want to log queries for, you use AssociateResolverQueryLogConfig. For more information, see AssociateResolverQueryLogConfig.

You can optionally use AWS Resource Access Manager (AWS RAM) to share a query logging configuration with other AWS accounts. The other accounts can then associate VPCs with the configuration. The query logs that Resolver creates for a configuration include all DNS queries that originate in all VPCs that are associated with the configuration.

Request Syntax

```json
{
   "CreatorRequestId": "string",
   "DestinationArn": "string",
   "Name": "string",
   "Tags": [
      {
         "Key": "string",
         "Value": "string"
      }
   ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 712).

The request accepts the following data in JSON format.

CreatorRequestId (p. 385)

A unique string that identifies the request and that allows failed requests to be retried without the risk of running the operation twice. CreatorRequestId can be any unique string, for example, a date/time stamp.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

DestinationArn (p. 385)

The ARN of the resource that you want Resolver to send query logs. You can send query logs to an S3 bucket, a CloudWatch Logs log group, or a Kinesis Data Firehose delivery stream. Examples of valid values include the following:

- **S3 bucket**:

  arn:aws:s3:::examplebucket

  You can optionally append a file prefix to the end of the ARN.
CloudWatch Logs log group:

arn:aws:logs:us-west-1:123456789012:log-group:/mystack-testgroup-12ABC1A12B1:*

Kinesis Data Firehose delivery stream:

arn:aws:kinesis:us-east-2:0123456789:stream/my_stream_name

Name (p. 385)

The name that you want to give the query logging configuration.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: (?![0-9]+$)(([a-zA-Z0-9-\-_ ])+)

Tags (p. 385)

A list of the tag keys and values that you want to associate with the query logging configuration.

Type: Array of Tag (p. 710) objects

Array Members: Maximum number of 200 items.

Required: No

Response Syntax

```json
{
  "ResolverQueryLogConfig": {
    "Arn": "string",
    "AssociationCount": number,
    "CreationTime": "string",
    "CreatorRequestId": "string",
    "DestinationArn": "string",
    "Id": "string",
    "Name": "string",
    "OwnerId": "string",
    "ShareStatus": "string",
    "Status": "string"
  }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.
**ResolverQueryLogConfig (p. 386)**

Information about the CreateResolverQueryLogConfig request, including the status of the request.

Type: `ResolverQueryLogConfig (p. 699)` object

**Errors**

For information about the errors that are common to all actions, see Common Errors (p. 714).

**AccessDeniedException**

The current account doesn't have the IAM permissions required to perform the specified Resolver operation.

HTTP Status Code: 400

**InternalServiceErrorException**

We encountered an unknown error. Try again in a few minutes.

HTTP Status Code: 400

**InvalidParameterException**

One or more parameters in this request are not valid.

HTTP Status Code: 400

**InvalidRequestException**

The request is invalid.

HTTP Status Code: 400

**LimitExceededException**

The request caused one or more limits to be exceeded.

HTTP Status Code: 400

**ResourceExistsException**

The resource that you tried to create already exists.

HTTP Status Code: 400

**ResourceNotFoundException**

The specified resource doesn't exist.

HTTP Status Code: 400

**ThrottlingException**

The request was throttled. Try again in a few minutes.

HTTP Status Code: 400

**Examples**

**CreateResolverQueryLogConfig Example**

This example illustrates one usage of CreateResolverQueryLogConfig.
Sample Request

POST / HTTP/1.1
Host: route53resolver.us-east-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 283
X-Amz-Target: Route53Resolver.CreateResolverQueryLogConfig
X-Amz-Date: 20200415T191344Z
User-Agent: aws-cli/1.16.45 Python/2.7.10 Darwin/16.7.0 botocore/1.12.35
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256

```

{
  "CreatorRequestId": "ramirez-20200415T191001Z",
  "DestinationArn": "arn:aws:s3:::examplebucket/development/",
  "Name": "MyQueryLog",
  "Tags": [
    {
      "Key": "LineOfBusiness",
      "Value": "Engineering"
    }
  ]
}
```

Sample Response

HTTP/1.1 200 OK
Date: Thu, 01 Nov 2018 19:13:44 GMT
Content-Type: application/x-amz-json-1.1
Content-Length: 531
x-amzn-RequestId: 08afd081-9d67-4281-a277-b3880example
Connection: keep-alive

```

{
  "ResolverQueryLogConfig": {
    "AssociationCount": "1",
    "CreationTime": "20200415T191604Z",
    "CreatorRequestId": "ramirez-20200415T191001Z",
    "DestinationArn": "arn:aws:s3:::examplebucket/development/",
    "Id": "rqlc-8ca61fe7cexample",
    "Name": "MyQueryLog",
    "OwnerId": "111122223333",
    "ShareStatus": "NOT_SHARED",
    "Status": "CREATING"
  }
}
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
• AWS SDK for Java V2
• AWS SDK for JavaScript
• AWS SDK for PHP V3
• AWS SDK for Python
• AWS SDK for Ruby V3
CreateResolverRule

Service: Amazon Route 53 Resolver

For DNS queries that originate in your VPCs, specifies which Resolver endpoint the queries pass through, one domain name that you want to forward to your network, and the IP addresses of the DNS resolvers in your network.

Request Syntax

```json
{
    "CreatorRequestId": "string",
    "DomainName": "string",
    "Name": "string",
    "ResolverEndpointId": "string",
    "RuleType": "string",
    "Tags": [ {
        "Key": "string",
        "Value": "string"
    } ],
    "TargetIps": [ {
        "Ip": "string",
        "Port": number
    } ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 712).

The request accepts the following data in JSON format.

**CreatorRequestId (p. 390)**

A unique string that identifies the request and that allows failed requests to be retried without the risk of running the operation twice. CreatorRequestId can be any unique string, for example, a date/time stamp.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

**DomainName (p. 390)**

DNS queries for this domain name are forwarded to the IP addresses that you specify in TargetIps. If a query matches multiple Resolver rules (example.com and www.example.com), outbound DNS queries are routed using the Resolver rule that contains the most specific domain name (www.example.com).

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Required: Yes
**Name** *(p. 390)*

A friendly name that lets you easily find a rule in the Resolver dashboard in the Route 53 console.

Type: String

Length Constraints: Maximum length of 64.

Pattern: `(?![0-9]+$)([a-zA-Z0-9\-'_ ]+)`

Required: No

**ResolverEndpointId** *(p. 390)*

The ID of the outbound Resolver endpoint that you want to use to route DNS queries to the IP addresses that you specify in `TargetIps`.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Required: No

**RuleType** *(p. 390)*

When you want to forward DNS queries for specified domain name to resolvers on your network, specify `FORWARD`. When you have a forwarding rule to forward DNS queries for a domain to your network and you want Resolver to process queries for a subdomain of that domain, specify `SYSTEM`.

For example, to forward DNS queries for example.com to resolvers on your network, you create a rule and specify `FORWARD` for `RuleType`. To then have Resolver process queries for apex.example.com, you create a rule and specify `SYSTEM` for `RuleType`.

Currently, only Resolver can create rules that have a value of `RECURSIVE` for `RuleType`.

Type: String

Valid Values: `FORWARD` | `SYSTEM` | `RECURSIVE`

Required: Yes

**Tags** *(p. 390)*

A list of the tag keys and values that you want to associate with the endpoint.

Type: Array of `Tag` *(p. 710)* objects

Array Members: Maximum number of 200 items.

Required: No

**TargetIps** *(p. 390)*

The IPs that you want Resolver to forward DNS queries to. You can specify only IPv4 addresses. Separate IP addresses with a space.

`TargetIps` is available only when the value of `RuleType` is `FORWARD`.

Type: Array of `TargetAddress` *(p. 711)* objects

Array Members: Minimum number of 1 item.
Required: No

Response Syntax

```json
{
    "ResolverRule": {
        "Arn": "string",
        "CreationTime": "string",
        "CreatorRequestId": "string",
        "DomainName": "string",
        "Id": "string",
        "ModificationTime": "string",
        "Name": "string",
        "OwnerId": "string",
        "ResolverEndpointId": "string",
        "RuleType": "string",
        "ShareStatus": "string",
        "Status": "string",
        "StatusMessage": "string",
        "TargetIps": [
            {
                "Ip": "string",
                "Port": number
            }
        ]
    }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**ResolverRule (p. 392)**

Information about the CreateResolverRule request, including the status of the request.

Type: `ResolverRule` (p. 704) object

Errors

For information about the errors that are common to all actions, see [Common Errors (p. 714)](#).

**InternalServiceErrorException**

We encountered an unknown error. Try again in a few minutes.

HTTP Status Code: 400

**InvalidParameterException**

One or more parameters in this request are not valid.

HTTP Status Code: 400

**InvalidRequestException**

The request is invalid.
HTTP Status Code: 400

LimitExceededException

The request caused one or more limits to be exceeded.

HTTP Status Code: 400

ResourceExistsException

The resource that you tried to create already exists.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource doesn't exist.

HTTP Status Code: 400

ResourceUnavailableException

The specified resource isn't available.

HTTP Status Code: 400

ThrottlingException

The request was throttled. Try again in a few minutes.

HTTP Status Code: 400

Examples

CreateResolverRule Example

This example illustrates one usage of CreateResolverRule.

Sample Request

```plaintext
POST / HTTP/1.1
Host: route53resolver.us-east-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 170
X-Amz-Target: Route53Resolver.CreateResolverRule
X-Amz-Date: 20181101T192331Z
User-Agent: aws-cli/1.16.45 Python/2.7.10 Darwin/16.7.0 botocore/1.12.35
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256
Credential=AKIAJJ2SONIPEXAMPLE/20181101/us-east-2/route53resolver/ aws4_request,
SignedHeaders=content-type;host;x-amz-date;x-amz-target,
Signature=[calculated-signature]

{
  "CreatorRequestId": "999",
  "DomainName": "example.com",
  "Name": "MyRule",
  "ResolverEndpointId": "rslvr-out-fdc049932dexample",
  "RuleType": "FORWARD",
  "TargetIps": [
    { "Ip": "192.0.2.6" }
  ]
}
```
Sample Response

HTTP/1.1 200 OK
Date: Thu, 01 Nov 2018 19:23:31 GMT
Content-Type: application/x-amz-json-1.1
Content-Length: 464
x-amzn-RequestId: f51a7bc8-e9c6-4399-b408-086ecexample
Connection: keep-alive

{
   "ResolverRule": {
      "CreatorRequestId": "999",
      "DomainName": "example.com",
      "Id": "rslvr-rr-5328a0899aexample",
      "Name": "MyRule",
      "OwnerId": "123456789012",
      "ResolverEndpointId": "rslvr-out-fdc049932dexample",
      "RuleType": "FORWARD",
      "ShareStatus": "NOT_SHARED",
      "Status": "COMPLETE",
      "StatusMessage": "[Trace id: 1-5bdb52b3-68082ffe336d18153example] Successfully created Resolver Rule.",
      "TargetIps": [
         {
            "Ip": "192.0.2.6",
            "Port": 53
         }
      ]
   }
}

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
DeleteFirewallDomainList
Service: Amazon Route 53 Resolver

Deletes the specified domain list.

Request Syntax

```
{
   "FirewallDomainListId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 712).

The request accepts the following data in JSON format.

FirewallDomainListId (p. 395)

The ID of the domain list that you want to delete.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Required: Yes

Response Syntax

```
{
   "FirewallDomainList": {
      "Arn": "string",
      "CreationTime": "string",
      "CreatorRequestId": "string",
      "DomainCount": number,
      "Id": "string",
      "ManagedOwnerName": "string",
      "ModificationTime": "string",
      "Name": "string",
      "Status": "string",
      "StatusMessage": "string"
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

FirewallDomainList (p. 395)

The domain list that you just deleted.

Type: FirewallDomainList (p. 672) object
Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).

AccessDeniedException

The current account doesn't have the IAM permissions required to perform the specified Resolver operation.

HTTP Status Code: 400

ConflictException

The requested state transition isn't valid. For example, you can't delete a firewall domain list if it is in the process of being deleted, or you can't import domains into a domain list that is in the process of being deleted.

HTTP Status Code: 400

InternalServiceErrorException

We encountered an unknown error. Try again in a few minutes.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource doesn't exist.

HTTP Status Code: 400

ThrottlingException

The request was throttled. Try again in a few minutes.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
DeleteFirewallRule
Service: Amazon Route 53 Resolver

Deletes the specified firewall rule.

Request Syntax

```json
{
  "FirewallDomainListId": "string",
  "FirewallRuleGroupId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 712).

The request accepts the following data in JSON format.

**FirewallDomainListId (p. 397)**

The ID of the domain list that's used in the rule.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Required: Yes

**FirewallRuleGroupId (p. 397)**

The unique identifier of the firewall rule group that you want to delete the rule from.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Required: Yes

Response Syntax

```json
{
  "FirewallRule": {
    "Action": "string",
    "BlockOverrideDnsType": "string",
    "BlockOverrideDomain": "string",
    "BlockOverrideTtl": number,
    "BlockResponse": "string",
    "CreationTime": "string",
    "CreatorRequestId": "string",
    "FirewallDomainListId": "string",
    "FirewallRuleGroupId": "string",
    "ModificationTime": "string",
    "Name": "string",
    "Priority": number
  }
}
```
Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**FirewallRule** *(p. 397)*

The specification for the firewall rule that you just deleted.

Type: **FirewallRule** *(p. 677)* object

Errors

For information about the errors that are common to all actions, see Common Errors *(p. 714).*

**AccessDeniedException**

The current account doesn't have the IAM permissions required to perform the specified Resolver operation.

HTTP Status Code: 400

**InternalServiceErrorException**

We encountered an unknown error. Try again in a few minutes.

HTTP Status Code: 400

**ResourceNotFoundException**

The specified resource doesn't exist.

HTTP Status Code: 400

**ThrottlingException**

The request was throttled. Try again in a few minutes.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
DeleteFirewallRuleGroup
Service: Amazon Route 53 Resolver

Deletes the specified firewall rule group.

Request Syntax

```
{
   "FirewallRuleGroupId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 712).

The request accepts the following data in JSON format.

**FirewallRuleGroupId (p. 399)**

The unique identifier of the firewall rule group that you want to delete.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Required: Yes

Response Syntax

```
{
   "FirewallRuleGroup": {
      "Arn": "string",
      "CreationTime": "string",
      "CreatorRequestId": "string",
      "Id": "string",
      "ModificationTime": "string",
      "Name": "string",
      "OwnerId": "string",
      "RuleCount": number,
      "ShareStatus": "string",
      "Status": "string",
      "StatusMessage": "string"
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**FirewallRuleGroup (p. 399)**

A collection of rules used to filter DNS network traffic.

Type: FirewallRuleGroup (p. 680) object
Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).

AccessDeniedException

The current account doesn't have the IAM permissions required to perform the specified Resolver operation.

HTTP Status Code: 400

ConflictException

The requested state transition isn't valid. For example, you can't delete a firewall domain list if it is in the process of being deleted, or you can't import domains into a domain list that is in the process of being deleted.

HTTP Status Code: 400

InternalServiceErrorException

We encountered an unknown error. Try again in a few minutes.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource doesn't exist.

HTTP Status Code: 400

ThrottlingException

The request was throttled. Try again in a few minutes.

HTTP Status Code: 400

ValidationException

You have provided an invalid command. Supported values are ADD, REMOVE, or REPLACE a domain.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
DeleteResolverEndpoint

Service: Amazon Route 53 Resolver

Deletes a Resolver endpoint. The effect of deleting a Resolver endpoint depends on whether it’s an inbound or an outbound Resolver endpoint:

- **Inbound**: DNS queries from your network are no longer routed to the DNS service for the specified VPC.
- **Outbound**: DNS queries from a VPC are no longer routed to your network.

Request Syntax

```json
{
   "ResolverEndpointId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 712).

The request accepts the following data in JSON format.

**ResolverEndpointId** *(p. 401)*

The ID of the Resolver endpoint that you want to delete.

- Type: String
- Length Constraints: Minimum length of 1. Maximum length of 64.
- Required: Yes

Response Syntax

```json
{
   "ResolverEndpoint": {
      "Arn": "string",
      "CreationTime": "string",
      "CreatorRequestId": "string",
      "Direction": "string",
      "HostVPCId": "string",
      "Id": "string",
      "IpAddressCount": number,
      "ModificationTime": "string",
      "Name": "string",
      "SecurityGroupIds": [ "string" ],
      "Status": "string",
      "StatusMessage": "string"
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.
The following data is returned in JSON format by the service.

**ResolverEndpoint (p. 401)**

Information about the `DeleteResolverEndpoint` request, including the status of the request.

Type: `ResolverEndpoint` (p. 696) object

**Errors**

For information about the errors that are common to all actions, see Common Errors (p. 714).

- **InternalServiceErrorException**
  
  We encountered an unknown error. Try again in a few minutes.

  HTTP Status Code: 400

- **InvalidParameterException**
  
  One or more parameters in this request are not valid.

  HTTP Status Code: 400

- **InvalidRequestException**
  
  The request is invalid.

  HTTP Status Code: 400

- **ResourceNotFoundException**
  
  The specified resource doesn't exist.

  HTTP Status Code: 400

- **ThrottlingException**
  
  The request was throttled. Try again in a few minutes.

  HTTP Status Code: 400

**Examples**

**DeleteResolverEndpoint Example**

This example illustrates one usage of `DeleteResolverEndpoint`.

**Sample Request**

```
POST / HTTP/1.1
Host: route53resolver.us-east-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 283
X-Amz-Target: Route53Resolver.DeleteResolverEndpoint
X-Amz-Date: 20181101T191344Z
User-Agent: aws-cli/1.16.45 Python/2.7.10 Darwin/16.7.0 botocore/1.12.35
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256
    Credential=AKIAJJ2SONIPEXAMPLE/20181101/us-east-2/route53resolver/
    aws4_request,
    SignedHeaders=content-type;host;x-amz-date;x-amz-target,
```
Signature=[calculated-signature]

{
   "ResolverEndpointId": "rslvr-out-fdc049932dexample"
}

Sample Response

HTTP/1.1 200 OK
Date: Thu, 01 Nov 2018 19:13:44 GMT
Content-Type: application/x-amz-json-1.1
Content-Length: 531
x-amzn-RequestId: 08afd081-9d67-4281-a277-b3880example
Connection: keep-alive

{
   "ResolverEndpoint": {
      "CreationTime": "2018-11-01T19:13:44.830Z",
      "CreatorRequestId": "5678",
      "Direction": "OUTBOUND",
      "HostVPCId": "vpc-0dd415a0edexample",
      "Id": "rslvr-out-fdc049932dexample",
      "IpAddressCount": 2,
      "ModificationTime": "2018-11-01T19:13:44.830Z",
      "Name": "MyOutbound",
      "SecurityGroupIds": [
         "sg-071b99f42example"
      ],
      "Status": "CREATING",
      "StatusMessage": "[Trace id: 1-5bdb5068-e0bdc4d32b1a3fe9c344c10] Successfully deleted Resolver Endpoint"
   }
}

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
DeleteResolverQueryLogConfig

Service: Amazon Route 53 Resolver

Deletes a query logging configuration. When you delete a configuration, Resolver stops logging DNS queries for all of the Amazon VPCs that are associated with the configuration. This also applies if the query logging configuration is shared with other AWS accounts, and the other accounts have associated VPCs with the shared configuration.

Before you can delete a query logging configuration, you must first disassociate all VPCs from the configuration. See DisassociateResolverQueryLogConfig.

If you used Resource Access Manager (RAM) to share a query logging configuration with other accounts, you must stop sharing the configuration before you can delete a configuration. The accounts that you shared the configuration with can first disassociate VPCs that they associated with the configuration, but that's not necessary. If you stop sharing the configuration, those VPCs are automatically disassociated from the configuration.

Request Syntax

```json
{
  "ResolverQueryLogConfigId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 712).

The request accepts the following data in JSON format.

**ResolverQueryLogConfigId (p. 404)**

The ID of the query logging configuration that you want to delete.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Required: Yes

Response Syntax

```json
{
  "ResolverQueryLogConfig": {
    "Arn": "string",
    "AssociationCount": number,
    "CreationTime": "string",
    "CreatorRequestId": "string",
    "DestinationArn": "string",
    "Id": "string",
    "Name": "string",
    "OwnerId": "string",
    "ShareStatus": "string",
    "Status": "string"
  }
}
```
Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

ResolverQueryLogConfig (p. 404)

Information about the query logging configuration that you deleted, including the status of the request.

Type: ResolverQueryLogConfig (p. 699) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).

AccessDeniedException

The current account doesn't have the IAM permissions required to perform the specified Resolver operation.

HTTP Status Code: 400

InternalServiceErrorException

We encountered an unknown error. Try again in a few minutes.

HTTP Status Code: 400

InvalidParameterException

One or more parameters in this request are not valid.

HTTP Status Code: 400

InvalidRequestException

The request is invalid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource doesn't exist.

HTTP Status Code: 400

ThrottlingException

The request was throttled. Try again in a few minutes.

HTTP Status Code: 400

Examples

DeleteResolverQueryLogConfig Example

This example illustrates one usage of DeleteResolverQueryLogConfig.
Sample Request

POST / HTTP/1.1  
Host: route53resolver.us-east-2.amazonaws.com  
Accept-Encoding: identity  
Content-Length: 283  
X-Amz-Target: Route53Resolver.DeleteResolverQueryLogConfig  
X-Amz-Date: 20200415T191344Z  
User-Agent: aws-cli/1.16.45 Python/2.7.10 Darwin/16.7.0 botocore/1.12.35  
Content-Type: application/x-amz-json-1.1  
Authorization: AWS4-HMAC-SHA256  

Credential=AKIAJJ2SONIPEXAMPLE/20181101/us-east-2/route53resolver/  
aws4_request,  
SignedHeaders=content-type;host;x-amz-date;x-amz-target,  
Signature=[calculated-signature]  

{
  "ResolverQueryLogConfigId": "rqlc-8ca61fe7cexample"
}

Sample Response

HTTP/1.1 200 OK  
Date: Thu, 01 Nov 2018 19:13:44 GMT  
Content-Type: application/x-amz-json-1.1  
Content-Length: 493  
x-amzn-RequestId: 08afd081-9d67-4281-a277-b3880example  
Connection: keep-alive  

{
  "ResolverQueryLogConfig": {
    "AssociationCount": "1",
    "CreationTime": "20200415T191604Z",
    "CreatorRequestId": "ramirez2-20200415T191001Z",
    "DestinationArn": "arn:aws:s3:::examplebucket/development/",
    "Id": "rqlc-8ca61fe7cexample",
    "Name": "MyQueryLog",
    "OwnerId": "111122223333",
    "ShareStatus": "NOT_SHARED",
    "Status": "DELETING"
  }
}

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
DeleteResolverRule
Service: Amazon Route 53 Resolver

Deletes a Resolver rule. Before you can delete a Resolver rule, you must disassociate it from all the VPCs that you associated the Resolver rule with. For more information, see DisassociateResolverRule.

Request Syntax

```json
{
   "ResolverRuleId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 712).

The request accepts the following data in JSON format.

**ResolverRuleId (p. 408)**

The ID of the Resolver rule that you want to delete.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Required: Yes

Response Syntax

```json
{
   "ResolverRule": {
      "Arn": "string",
      "CreationTime": "string",
      "CreatorRequestId": "string",
      "DomainName": "string",
      "Id": "string",
      "ModificationTime": "string",
      "Name": "string",
      "OwnerId": "string",
      "ResolverEndpointId": "string",
      "RuleType": "string",
      "ShareStatus": "string",
      "Status": "string",
      "StatusMessage": "string",
      "TargetIps": [
         {
            "Ip": "string",
            "Port": number
         }
      ]
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.
The following data is returned in JSON format by the service.

**ResolverRule (p. 408)**

Information about the `DeleteResolverRule` request, including the status of the request.

Type: **ResolverRule (p. 704)** object

**Errors**

For information about the errors that are common to all actions, see Common Errors (p. 714).

**InternalServiceErrorException**

We encountered an unknown error. Try again in a few minutes.

HTTP Status Code: 400

**InvalidParameterException**

One or more parameters in this request are not valid.

HTTP Status Code: 400

**ResourceInUseException**

The resource that you tried to update or delete is currently in use.

HTTP Status Code: 400

**ResourceNotFoundException**

The specified resource doesn't exist.

HTTP Status Code: 400

**ThrottlingException**

The request was throttled. Try again in a few minutes.

HTTP Status Code: 400

**Examples**

**DeleteResolverRule Example**

This example illustrates one usage of `DeleteResolverRule`.

**Sample Request**

```
POST / HTTP/1.1
Host: route53resolver.us-east-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 170
X-Amz-Target: Route53Resolver.DeleteResolverRule
X-Amz-Date: 20181101T192331Z
User-Agent: aws-cli/1.16.45 Python/2.7.10 Darwin/16.7.0 botocore/1.12.35
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256
   Credential=AKIAJJ2SONIPEXAMPLE/20181101/us-east-2/route53resolver/
aws4_request,
   SignedHeaders=content-type;host;x-amz-date;x-amz-target,
```

409
Signature=[calculated-signature]

{
    "ResolverRuleId": "rslvr-rr-5328a0899aexample"
}

Sample Response

HTTP/1.1 200 OK
Date: Thu, 01 Nov 2018 19:23:31 GMT
Content-Type: application/x-amz-json-1.1
Content-Length: 464
x-amzn-RequestId: f51a7bc8-e9c6-4399-b408-086ecexample
Connection: keep-alive

{
    "ResolverRule": {
        "CreatorRequestId": "999",
        "DomainName": "example.com",
        "Id": "rslvr-rr-5328a0899aexample",
        "OwnerId": "123456789012",
        "ResolverEndpointId": "rslvr-out-fdc049932dexample",
        "RuleType": "FORWARD",
        "Status": "COMPLETE",
        "StatusMessage": "[Trace id: 1-5bdb52b3-68082ff336d18153example] Successfully deleted Resolver Rule.",
        "TargetIps": [
            {
                "Ip": "192.0.2.6",
                "Port": 53
            }
        ]
    }
}

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
DisassociateFirewallRuleGroup

Service: Amazon Route 53 Resolver

Disassociates an FirewallRuleGroup (p. 680) from a VPC, to remove DNS filtering from the VPC.

Request Syntax

```json
{
    "FirewallRuleGroupAssociationId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 712).

The request accepts the following data in JSON format.

**FirewallRuleGroupAssociationId (p. 411)**

The identifier of the FirewallRuleGroupAssociation (p. 683).

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Required: Yes

Response Syntax

```json
{
    "FirewallRuleGroupAssociation": {
        "Arn": "string",
        "CreationTime": "string",
        "CreatorRequestId": "string",
        "FirewallRuleGroupId": "string",
        "Id": "string",
        "ManagedOwnerName": "string",
        "ModificationTime": "string",
        "MutationProtection": "string",
        "Name": "string",
        "Priority": number,
        "Status": "string",
        "StatusMessage": "string",
        "VpcId": "string"
    }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**FirewallRuleGroupAssociation (p. 411)**

The firewall rule group association that you just removed.
Type: FirewallRuleGroupAssociation (p. 683) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).

AccessDeniedException

The current account doesn't have the IAM permissions required to perform the specified Resolver operation.

HTTP Status Code: 400

ConflictException

The requested state transition isn't valid. For example, you can't delete a firewall domain list if it is in the process of being deleted, or you can't import domains into a domain list that is in the process of being deleted.

HTTP Status Code: 400

InternalServiceErrorException

We encountered an unknown error. Try again in a few minutes.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource doesn't exist.

HTTP Status Code: 400

ThrottlingException

The request was throttled. Try again in a few minutes.

HTTP Status Code: 400

ValidationException

You have provided an invalid command. Supported values are ADD, REMOVE, or REPLACE a domain.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
DisassociateResolverEndpointIpAddress

Service: Amazon Route 53 Resolver

Removes IP addresses from an inbound or an outbound Resolver endpoint. If you want to remove more than one IP address, submit one DisassociateResolverEndpointIpAddress request for each IP address.

To add an IP address to an endpoint, see AssociateResolverEndpointIpAddress.

Request Syntax

```json
{
    "IpAddress": {
        "Ip": "string",
        "IpId": "string",
        "SubnetId": "string"
    },
    "ResolverEndpointId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 712).

The request accepts the following data in JSON format.

IpAddress (p. 413)

The IPv4 address that you want to remove from a Resolver endpoint.

Type: IpAddressUpdate (p. 691) object

Required: Yes

ResolverEndpointId (p. 413)

The ID of the Resolver endpoint that you want to disassociate an IP address from.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Required: Yes

Response Syntax

```json
{
    "ResolverEndpoint": {
        "Arn": "string",
        "CreationTime": "string",
        "CreatorRequestId": "string",
        "Direction": "string",
        "HostVPCId": "string",
        "Id": "string",
        "IpAddressCount": number,
        "ModificationTime": "string",
        "Name": "string",
        "SecurityGroupIds": [ "string" ]
    }
}
```
**Response Elements**

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**ResolverEndpoint (p. 413)**

The response to a **DisassociateResolverEndpointIpAddress** request.

Type: **ResolverEndpoint (p. 696)** object

**Errors**

For information about the errors that are common to all actions, see [Common Errors (p. 714)](#).

**InternalServiceErrorException**

We encountered an unknown error. Try again in a few minutes.

HTTP Status Code: 400

**InvalidParameterException**

One or more parameters in this request are not valid.

HTTP Status Code: 400

**InvalidRequestException**

The request is invalid.

HTTP Status Code: 400

**ResourceExistsException**

The resource that you tried to create already exists.

HTTP Status Code: 400

**ResourceNotFoundException**

The specified resource doesn't exist.

HTTP Status Code: 400

**ThrottlingException**

The request was throttled. Try again in a few minutes.

HTTP Status Code: 400

**Examples**

**DisassociateResolverEndpointIpAddress Example**

This example illustrates one usage of DisassociateResolverEndpointIpAddress.
Sample Request

POST / HTTP/1.1
Host: route53resolver.us-east-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 107
X-Amz-Target: Route53Resolver.DisassociateResolverEndpointIpAddress
X-Amz-Date: 20181101T185222Z
User-Agent: aws-cli/1.16.45 Python/2.7.10 Darwin/16.7.0 botocore/1.12.35
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256

{
   "IpAddress": {
      "SubnetId": "subnet-02f91e0e98example"
   }
}

Sample Response

HTTP/1.1 200 OK
Date: Thu, 01 Nov 2018 18:52:22 GMT
Content-Type: application/x-amz-json-1.1
Content-Length: 479
x-amzn-RequestId: bda80f7b-0f2c-41d1-9043-f36d3example
Connection: keep-alive

{
   "ResolverEndpoint": {
      "CreationTime": "2018-11-01T18:44:50.372Z",
      "CreatorRequestId": "1234",
      "Direction": "INBOUND",
      "HostVPCId": "vpc-03cf94c75example",
      "Id": "rslvr-in-60b9fd8fdexample",
      "IpAddressCount": 3,
      "ModificationTime": "2018-11-01T18:44:50.372Z",
      "Name": "MyInbound",
      "SecurityGroupIds": [
         "sg-020a3554example"
      ],
      "Status": "UPDATING",
      "StatusMessage": "Disassociating a Resolver endpoint IP address"
   }
}

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
• AWS SDK for JavaScript
• AWS SDK for PHP V3
• AWS SDK for Python
• AWS SDK for Ruby V3
DisassociateResolverQueryLogConfig

Disassociates a VPC from a query logging configuration.

**Note**
Before you can delete a query logging configuration, you must first disassociate all VPCs from the configuration. If you used AWS Resource Access Manager (AWS RAM) to share a query logging configuration with other accounts, VPCs can be disassociated from the configuration in the following ways:

- The accounts that you shared the configuration with can disassociate VPCs from the configuration.
- You can stop sharing the configuration.

**Request Syntax**

```json
{
"ResolverQueryLogConfigId": "string",
"ResourceId": "string"
}
```

**Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 712).

The request accepts the following data in JSON format.

**ResolverQueryLogConfigId (p. 417)**

The ID of the query logging configuration that you want to disassociate a specified VPC from.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Required: Yes

**ResourceId (p. 417)**

The ID of the Amazon VPC that you want to disassociate from a specified query logging configuration.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Required: Yes

**Response Syntax**

```json
{
"ResolverQueryLogConfigAssociation": {
"CreationTime": "string"
}
}
```
"Error": "string",
"ErrorMessage": "string",
"Id": "string",
"ResolverQueryLogConfigId": "string",
"ResourceId": "string",
"Status": "string"
}

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

ResolverQueryLogConfigAssociation (p. 417)

A complex type that contains settings for the association that you deleted between an Amazon VPC and a query logging configuration.

Type: ResolverQueryLogConfigAssociation (p. 702) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).

AccessDeniedException

The current account doesn't have the IAM permissions required to perform the specified Resolver operation.

HTTP Status Code: 400

InternalServiceErrorException

We encountered an unknown error. Try again in a few minutes.

HTTP Status Code: 400

InvalidParameterException

One or more parameters in this request are not valid.

HTTP Status Code: 400

InvalidRequestException

The request is invalid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource doesn't exist.

HTTP Status Code: 400

ThrottlingException

The request was throttled. Try again in a few minutes.

HTTP Status Code: 400
Examples

DisassociateResolverQueryLogConfig Example

This example illustrates one usage of DisassociateResolverQueryLogConfig.

Sample Request

```plaintext
POST / HTTP/1.1
Host: route53resolver.us-east-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 107
X-Amz-Target: Route53Resolver.DisassociateResolverQueryLogConfig
X-Amz-Date: 20200415T185222Z
User-Agent: aws-cli/1.16.45 Python/2.7.10 Darwin/16.7.0 botocore/1.12.35
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256
    Credential=AKIAJJ2SONIPEXAMPLE/20200415/us-east-2/route53resolver/
    aws4_request,
    SignedHeaders=content-type;host;x-amz-date;x-amz-target,
    Signature=[calculated-signature]

{
    "ResolverQueryLogConfigId": "rqlc-8ca61fe7cexample",
    "Resource": {
        "VpcId": "vpc-03cf94c75cexample"
    }
}
```

Sample Response

```
HTTP/1.1 200 OK
Date: Thu, 01 Nov 2018 18:52:22 GMT
Content-Type: application/x-amz-json-1.1
Content-Length: 275
x-amzn-RequestId: bda80f7b-0f2c-41d1-9043-f36d3example
Connection: keep-alive

{
    "ResolverQueryLogConfigAssociation":{
        "CreationTime": "2020-04-15T18:52:23.30Z",
        "Error": ",",
        "ErrorMessage": ",",
        "Id": "rqlca-ff85e1ffexample",
        "ResolverQueryLogConfigId": "rqlc-8ca61fe7cexample",
        "Resource": "vpc-03cf94c75cexample",
        "Status": "DELETING"
    }
}
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
• AWS SDK for JavaScript
• AWS SDK for PHP V3
• AWS SDK for Python
• AWS SDK for Ruby V3
DisassociateResolverRule

Service: Amazon Route 53 Resolver

Removes the association between a specified Resolver rule and a specified VPC.

**Important**

If you disassociate a Resolver rule from a VPC, Resolver stops forwarding DNS queries for the domain name that you specified in the Resolver rule.

**Request Syntax**

```
{
  "ResolverRuleId": "string",
  "VPCId": "string"
}
```

**Request Parameters**

For information about the parameters that are common to all actions, see [Common Parameters](p. 712).

The request accepts the following data in JSON format.

**ResolverRuleId** (p. 421)

The ID of the Resolver rule that you want to disassociate from the specified VPC.

- **Type**: String
- **Length Constraints**: Minimum length of 1. Maximum length of 64.
- **Required**: Yes

**VPCId** (p. 421)

The ID of the VPC that you want to disassociate the Resolver rule from.

- **Type**: String
- **Length Constraints**: Minimum length of 1. Maximum length of 64.
- **Required**: Yes

**Response Syntax**

```
{
  "ResolverRuleAssociation": {
    "Id": "string",
    "Name": "string",
    "ResolverRuleId": "string",
    "Status": "string",
    "StatusMessage": "string",
    "VPCId": "string"
  }
}
```

**Response Elements**

If the action is successful, the service sends back an HTTP 200 response.
The following data is returned in JSON format by the service.

**ResolverRuleAssociation** *(p. 421)*

Information about the `DisassociateResolverRule` request, including the status of the request.

Type: `ResolverRuleAssociation` *(p. 707)* object

**Errors**

For information about the errors that are common to all actions, see `Common Errors` *(p. 714).*

**InternalServiceErrorException**

We encountered an unknown error. Try again in a few minutes.

HTTP Status Code: 400

**InvalidParameterException**

One or more parameters in this request are not valid.

HTTP Status Code: 400

**ResourceNotFoundException**

The specified resource doesn't exist.

HTTP Status Code: 400

**ThrottlingException**

The request was throttled. Try again in a few minutes.

HTTP Status Code: 400

**Examples**

**DisassociateResolverRule Example**

This example illustrates one usage of `DisassociateResolverRule`.

**Sample Request**

```
POST / HTTP/1.1
Host: route53resolver.us-east-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 82
X-Amz-Target: Route53Resolver.DisassociateResolverRule
X-Amz-Date: 20181101T192826Z
User-Agent: aws-cli/1.16.45 Python/2.7.10 Darwin/16.7.0 botocore/1.12.35
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256
  Credential=AKIAJJ2SONIPEXAMPLE/20181101/us-east-2/route53resolver/
  aws4_request,
  SignedHeaders=content-type;host;x-amz-date;x-amz-target,
  Signature=[calculated-signature]
{
  "ResolverRuleId": "rslvr-rr-5328a0899aexample"
  "VPCId": "vpc-03cf94c75ceexample",
```


Sample Response

HTTP/1.1 200 OK
Date: Thu, 01 Nov 2018 19:28:27 GMT
Content-Type: application/x-amz-json-1.1
Content-Length: 258
x-amzn-RequestId: 9827eb40-87e6-44d6-bee7-a116example
Connection: keep-alive

{
  "ResolverRuleAssociation":{
    "Id":"rslvr-rrassoc-97242eaf8example",
    "Name":"forward example.com for gamma VPC",
    "ResolverRuleId":"rslvr-rr-5328a0899example",
    "Status":"DELETING",
    "StatusMessage":"[Trace id: 1-5bdb53db-75f3852c8384ad30fexample], Deleting the association.",
    "VPCId":"vpc-03cf94c75example"
  }
}

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
GetFirewallConfig
Service: Amazon Route 53 Resolver

Retrieves the configuration of the firewall behavior provided by DNS Firewall for a single VPC from Amazon Virtual Private Cloud (Amazon VPC).

Request Syntax

```json
{
   "ResourceId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 712).

The request accepts the following data in JSON format.

ResourceId (p. 424)

The ID of the VPC from Amazon VPC that the configuration is for.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Required: Yes

Response Syntax

```json
{
   "FirewallConfig": {
      "FirewallFailOpen": "string",
      "Id": "string",
      "OwnerId": "string",
      "ResourceId": "string"
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

FirewallConfig (p. 424)

Configuration of the firewall behavior provided by DNS Firewall for a single VPC from Amazon VPC.

Type: FirewallConfig (p. 670) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).
AccessDeniedException

The current account doesn't have the IAM permissions required to perform the specified Resolver operation.

HTTP Status Code: 400

InternalServerErrorException

We encountered an unknown error. Try again in a few minutes.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource doesn't exist.

HTTP Status Code: 400

ThrottlingException

The request was throttled. Try again in a few minutes.

HTTP Status Code: 400

ValidationException

You have provided an invalid command. Supported values are ADD, REMOVE, or REPLACE a domain.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
GetFirewallDomainList

Service: Amazon Route 53 Resolver

Retrieves the specified firewall domain list.

Request Syntax

```json
{
    "FirewallDomainListId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 712).

The request accepts the following data in JSON format.

**FirewallDomainListId** (p. 426)

The ID of the domain list.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Required: Yes

Response Syntax

```json
{
    "FirewallDomainList": {
        "Arn": "string",
        "CreationTime": "string",
        "CreatorRequestId": "string",
        "DomainCount": number,
        "Id": "string",
        "ManagedOwnerName": "string",
        "ModificationTime": "string",
        "Name": "string",
        "Status": "string",
        "StatusMessage": "string"
    }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**FirewallDomainList** (p. 426)

The domain list that you requested.

Type: FirewallDomainList (p. 672) object
Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).

AccessDeniedException

The current account doesn't have the IAM permissions required to perform the specified Resolver operation.

HTTP Status Code: 400

InternalServerException

We encountered an unknown error. Try again in a few minutes.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource doesn't exist.

HTTP Status Code: 400

ThrottlingException

The request was throttled. Try again in a few minutes.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
GetFirewallRuleGroup
Service: Amazon Route 53 Resolver
Retrieves the specified firewall rule group.

Request Syntax

```json
{
  "FirewallRuleGroupId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 712).

The request accepts the following data in JSON format.

**FirewallRuleGroupId (p. 428)**

The unique identifier of the firewall rule group.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Required: Yes

Response Syntax

```json
{
  "FirewallRuleGroup": {
    "Arn": "string",
    "CreationTime": "string",
    "CreatorRequestId": "string",
    "Id": "string",
    "ModificationTime": "string",
    "Name": "string",
    "OwnerId": "string",
    "RuleCount": number,
    "ShareStatus": "string",
    "Status": "string",
    "StatusMessage": "string"
  }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**FirewallRuleGroup (p. 428)**

A collection of rules used to filter DNS network traffic.

Type: FirewallRuleGroup (p. 680) object
Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).

AccessDeniedException

The current account doesn't have the IAM permissions required to perform the specified Resolver operation.

HTTP Status Code: 400

InternalServiceErrorException

We encountered an unknown error. Try again in a few minutes.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource doesn't exist.

HTTP Status Code: 400

ThrottlingException

The request was throttled. Try again in a few minutes.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
GetFirewallRuleGroupAssociation

Service: Amazon Route 53 Resolver

Retrieves a firewall rule group association, which enables DNS filtering for a VPC with one rule group. A VPC can have more than one firewall rule group association, and a rule group can be associated with more than one VPC.

Request Syntax

```
{
  "FirewallRuleGroupAssociationId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 712).

The request accepts the following data in JSON format.

FirewallRuleGroupAssociationId (p. 430)

The identifier of the FirewallRuleGroupAssociation (p. 683).

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Required: Yes

Response Syntax

```
{
  "FirewallRuleGroupAssociation": {
    "Arn": "string",
    "CreationTime": "string",
    "CreatorRequestId": "string",
    "FirewallRuleGroupId": "string",
    "Id": "string",
    "ManagedOwnerName": "string",
    "ModificationTime": "string",
    "MutationProtection": "string",
    "Name": "string",
    "Priority": number,
    "Status": "string",
    "StatusMessage": "string",
    "VpcId": "string"
  }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.
FirewallRuleGroupAssociation (p. 430)

The association that you requested.

Type: FirewallRuleGroupAssociation (p. 683) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).

AccessDeniedException

The current account doesn't have the IAM permissions required to perform the specified Resolver operation.

HTTP Status Code: 400

InternalServiceErrorException

We encountered an unknown error. Try again in a few minutes.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource doesn't exist.

HTTP Status Code: 400

ThrottlingException

The request was throttled. Try again in a few minutes.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
GetFirewallRuleGroupPolicy

Service: Amazon Route 53 Resolver

Returns the AWS Identity and Access Management (AWS IAM) policy for sharing the specified rule group. You can use the policy to share the rule group using AWS Resource Access Manager (AWS RAM).

Request Syntax

```json
{
   "Arn": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 712).

The request accepts the following data in JSON format.

Arn (p. 432)

- The ARN (Amazon Resource Name) for the rule group.
- Type: String
- Required: Yes

Response Syntax

```json
{
   "FirewallRuleGroupPolicy": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

FirewallRuleGroupPolicy (p. 432)

- The AWS Identity and Access Management (AWS IAM) policy for sharing the specified rule group. You can use the policy to share the rule group using AWS Resource Access Manager (AWS RAM).
- Type: String
- Length Constraints: Maximum length of 5000.

Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).
AccessDeniedException

The current account doesn't have the IAM permissions required to perform the specified Resolver operation.

HTTP Status Code: 400

InternalServiceErrorException

We encountered an unknown error. Try again in a few minutes.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource doesn't exist.

HTTP Status Code: 400

ThrottlingException

The request was throttled. Try again in a few minutes.

HTTP Status Code: 400

ValidationException

You have provided an invalid command. Supported values are ADD, REMOVE, or REPLACE a domain.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
GetResolverConfig

Service: Amazon Route 53 Resolver

Retrieves the behavior configuration of Route 53 Resolver behavior for a single VPC from Amazon Virtual Private Cloud.

Request Syntax

```json
{
   "ResourceId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 712).

The request accepts the following data in JSON format.

ResourceId (p. 434)

Resource ID of the Amazon VPC that you want to get information about.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Required: Yes

Response Syntax

```json
{
   "ResolverConfig": {
      "AutodefinedReverse": "string",
      "Id": "string",
      "OwnerId": "string",
      "ResourceId": "string"
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

ResolverConfig (p. 434)

Information about the behavior configuration of Route 53 Resolver behavior for the VPC you specified in the GetResolverConfig request.

Type: ResolverConfig (p. 692) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).
AccessDeniedException

The current account doesn't have the IAM permissions required to perform the specified Resolver operation.

HTTP Status Code: 400

InternalServiceErrorException

We encountered an unknown error. Try again in a few minutes.

HTTP Status Code: 400

InvalidParameterException

One or more parameters in this request are not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource doesn't exist.

HTTP Status Code: 400

ThrottlingException

The request was throttled. Try again in a few minutes.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
GetResolverDnssecConfig
Service: Amazon Route 53 Resolver

Gets DNSSEC validation information for a specified resource.

Request Syntax

```
{
  "ResourceId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 712).

The request accepts the following data in JSON format.

ResourceId (p. 436)

The ID of the virtual private cloud (VPC) for the DNSSEC validation status.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Required: Yes

Response Syntax

```
{
  "ResolverDNSSECConfig": {
    "Id": "string",
    "OwnerId": "string",
    "ResourceId": "string",
    "ValidationStatus": "string"
  }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

ResolverDNSSECConfig (p. 436)

The information about a configuration for DNSSEC validation.

Type: ResolverDnssecConfig (p. 694) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).
AccessDeniedException

The current account doesn't have the IAM permissions required to perform the specified Resolver operation.

HTTP Status Code: 400

InternalServiceErrorException

We encountered an unknown error. Try again in a few minutes.

HTTP Status Code: 400

InvalidParameterException

One or more parameters in this request are not valid.

HTTP Status Code: 400

InvalidRequestException

The request is invalid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource doesn't exist.

HTTP Status Code: 400

ThrottlingException

The request was throttled. Try again in a few minutes.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
GetResolverEndpoint

Service: Amazon Route 53 Resolver

Gets information about a specified Resolver endpoint, such as whether it's an inbound or an outbound Resolver endpoint, and the current status of the endpoint.

Request Syntax

```
{
    "ResolverEndpointId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 712).

The request accepts the following data in JSON format.

ResolverEndpointId (p. 438)

The ID of the Resolver endpoint that you want to get information about.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Required: Yes

Response Syntax

```
{
    "ResolverEndpoint": {
        "Arn": "string",
        "CreationTime": "string",
        "CreatorRequestId": "string",
        "Direction": "string",
        "HostVPCId": "string",
        "Id": "string",
        "IpAddressCount": number,
        "ModificationTime": "string",
        "Name": "string",
        "SecurityGroupIds": [ "string" ],
        "Status": "string",
        "StatusMessage": "string"
    }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

ResolverEndpoint (p. 438)

Information about the Resolver endpoint that you specified in a GetResolverEndpoint request.
Type: ResolverEndpoint (p. 696) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).

InternalServiceErrorException

We encountered an unknown error. Try again in a few minutes.

HTTP Status Code: 400

InvalidParameterException

One or more parameters in this request are not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource doesn’t exist.

HTTP Status Code: 400

ThrottlingException

The request was throttled. Try again in a few minutes.

HTTP Status Code: 400

Examples

GetResolverEndpoint Example

This example illustrates one usage of GetResolverEndpoint.

Sample Request

```plaintext
POST / HTTP/1.1
Host: route53resolver.us-east-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 52
X-Amz-Target: Route53Resolver.GetResolverEndpoint
X-Amz-Date: 20181101T184736Z
User-Agent: aws-cli/1.16.45 Python/2.7.10 Darwin/16.7.0 botocore/1.12.35
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256
aws4_request, 
    Credential=AKIAJJ2SONIPEXAMPLE/20181101/us-east-2/route53resolver/
    SignedHeaders=content-type;host;x-amz-date;x-amz-target,
    Signature=[calculated-signature]

{"ResolverEndpointId": "rlsvr-in-60b9fd8fdexample"}
```

Sample Response

```plaintext
HTTP/1.1 200 OK
Date: Thu, 01 Nov 2018 18:47:36 GMT
Content-Type: application/x-amz-json-1.1
Content-Length: 490
```
x-amzn-RequestId: 98d13818-b790-4aa8-8ed8-87a1eexample
Connection: keep-alive

{
    "ResolverEndpoint": {
        "CreationTime": "2018-11-01T18:44:50.372Z",
        "CreatorRequestId": "1234",
        "Direction": "INBOUND",
        "HostVPCId": "vpc-03cf94c75example",
        "Id": "rslvr-in-60b9fd8fdexample",
        "IpAddressCount": 2,
        "ModificationTime": "2018-11-01T18:44:50.372Z",
        "Name": "MyInbound",
        "SecurityGroupIds": [
            "sg-020a3554aexample"
        ],
        "Status": "OPERATIONAL",
        "StatusMessage": "This Resolver Endpoint is operational."
    }
}

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
GetResolverQueryLogConfig

Service: Amazon Route 53 Resolver

Gets information about a specified Resolver query logging configuration, such as the number of VPCs that the configuration is logging queries for and the location that logs are sent to.

Request Syntax

```json
{
   "ResolverQueryLogConfigId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 712).

The request accepts the following data in JSON format.

**ResolverQueryLogConfigId (p. 441)**

The ID of the Resolver query logging configuration that you want to get information about.

- Type: String
- Length Constraints: Minimum length of 1. Maximum length of 64.
- Required: Yes

Response Syntax

```json
{
   "ResolverQueryLogConfig": {
      "Arn": "string",
      "AssociationCount": number,
      "CreationTime": "string",
      "CreatorRequestId": "string",
      "DestinationArn": "string",
      "Id": "string",
      "Name": "string",
      "OwnerId": "string",
      "ShareStatus": "string",
      "Status": "string"
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**ResolverQueryLogConfig (p. 441)**

Information about the Resolver query logging configuration that you specified in a GetQueryLogConfig request.
Type: **ResolverQueryLogConfig** *(p. 699)* object

**Errors**

For information about the errors that are common to all actions, see [Common Errors](p. 714).

**AccessDeniedException**

The current account doesn't have the IAM permissions required to perform the specified Resolver operation.

HTTP Status Code: 400

**InternalServiceErrorException**

We encountered an unknown error. Try again in a few minutes.

HTTP Status Code: 400

**InvalidParameterException**

One or more parameters in this request are not valid.

HTTP Status Code: 400

**InvalidRequestException**

The request is invalid.

HTTP Status Code: 400

**ResourceNotFoundException**

The specified resource doesn't exist.

HTTP Status Code: 400

**ThrottlingException**

The request was throttled. Try again in a few minutes.

HTTP Status Code: 400

**Examples**

**GetResolverQueryLogConfig Example**

This example illustrates one usage of GetResolverQueryLogConfig.

**Sample Request**

```
POST / HTTP/1.1
Host: route53resolver.us-east-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 48
X-Amz-Target: Route53Resolver.GetResolverQueryLogConfig
X-Amz-Date: 20200731T192652Z
User-Agent: aws-cli/1.16.45 Python/2.7.10 Darwin/16.7.0 botocore/1.12.35
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256
    Credential=AKIAJJ2SONIPEXAMPLE/20181101/us-east-2/route53resolver/
aws4_request,
```
SignedHeaders=content-type;host;x-amz-date;x-amz-target,
Signature=[calculated-signature]

{
    "ResolverQueryLogConfigId": "rqlc-8ca61fe7cexample"
}

**Sample Response**

HTTP/1.1 200 OK
Date: Thu, 01 Nov 2018 19:26:52 GMT
Content-Type: application/x-amz-json-1.1
Content-Length: 464
x-amzn-RequestId: 1d7c8aad-1c63-413d-88a9-bc7b0example
Connection: keep-alive

{
    "ResolverQueryLogConfig": {
        "AssociationCount": "1",
        "CreationTime": "20200731T191604Z",
        "CreatorRequestId": "ramirezd-20200731T191001Z",
        "DestinationArn": "arn:aws:s3:::examplebucket/development/",
        "Id": "rqlc-8ca61fe7c055415a",
        "Name": "MyQueryLog",
        "OwnerId": "111122223333",
        "ShareStatus": "NOT_SHARED",
        "Status": "CREATING"
    }
}

**See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
GetResolverQueryLogConfigAssociation

Service: Amazon Route 53 Resolver

Gets information about a specified association between a Resolver query logging configuration and an Amazon VPC. When you associate a VPC with a query logging configuration, Resolver logs DNS queries that originate in that VPC.

Request Syntax

```json
{
    "ResolverQueryLogConfigAssociationId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 712).

The request accepts the following data in JSON format.

**ResolverQueryLogConfigAssociationId (p. 444)**

The ID of the Resolver query logging configuration association that you want to get information about.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Required: Yes

Response Syntax

```json
{
    "ResolverQueryLogConfigAssociation": {
        "CreationTime": "string",
        "Error": "string",
        "ErrorMessage": "string",
        "Id": "string",
        "ResolverQueryLogConfigId": "string",
        "ResourceId": "string",
        "Status": "string"
    }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**ResolverQueryLogConfigAssociation (p. 444)**

Information about the Resolver query logging configuration association that you specified in a `GetQueryLogConfigAssociation` request.
Type: **ResolverQueryLogConfigAssociation** (p. 702) object

**Errors**

For information about the errors that are common to all actions, see Common Errors (p. 714).

**AccessDeniedException**

The current account doesn't have the IAM permissions required to perform the specified Resolver operation.

HTTP Status Code: 400

**InternalServiceErrorException**

We encountered an unknown error. Try again in a few minutes.

HTTP Status Code: 400

**InvalidParameterException**

One or more parameters in this request are not valid.

HTTP Status Code: 400

**InvalidRequestException**

The request is invalid.

HTTP Status Code: 400

**ResourceNotFoundException**

The specified resource doesn't exist.

HTTP Status Code: 400

**ThrottlingException**

The request was throttled. Try again in a few minutes.

HTTP Status Code: 400

**Examples**

**GetResolverQueryLogConfigAssociation Example**

This example illustrates one usage of GetResolverQueryLogConfigAssociation.

**Sample Request**

```
POST / HTTP/1.1
Host: route53resolver.us-east-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 48
X-Amz-Target: Route53Resolver.GetResolverQueryLogConfigAssociation
X-Amz-Date: 20200731T192652Z
User-Agent: aws-cli/1.16.45 Python/2.7.10 Darwin/16.7.0 botocore/1.12.35
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256
    Credential=AKIAJJ2SONIPEXAMPLE/20181101/us-east-2/route53resolver/
    aws4_request,
```
SignedHeaders=content-type;host;x-amz-date;x-amz-target,
Signature=[calculated-signature]

{
  "ResolverQueryLogConfigAssociationId": "rqlca-ff85e1ffexample"
}

Sample Response

HTTP/1.1 200 OK
Date: Thu, 01 Nov 2018 19:26:52 GMT
Content-Type: application/x-amz-json-1.1
Content-Length: 464
x-amzn-RequestId: 1d7c8aad-1c63-413d-88a9-bc7b0example
Connection: keep-alive

{
  "ResolverQueryLogConfigAssociation": {
    "CreationTime": "2020-07-31T18:52:23.30Z",
    "Error": "",
    "ErrorMessage": "",
    "Id": "rqlca-ff85e1ffexample",
    "ResolverQueryLogConfigId": "rqlc-8ca61fe7cexample",
    "Resource": "vpc-03cf94c75example",
    "Status": "CREATED"
  }
}

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
GetResolverQueryLogConfigPolicy

Service: Amazon Route 53 Resolver

Gets information about a query logging policy. A query logging policy specifies the Resolver query logging operations and resources that you want to allow another AWS account to be able to use.

Request Syntax

```json
{
    "Arn": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 712).

The request accepts the following data in JSON format.

**Arn** (p. 447)

The ARN of the query logging configuration that you want to get the query logging policy for.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

Response Syntax

```json
{
    "ResolverQueryLogConfigPolicy": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**ResolverQueryLogConfigPolicy** (p. 447)

Information about the query logging policy for the query logging configuration that you specified in a GetResolverQueryLogConfigPolicy request.

Type: String

Length Constraints: Maximum length of 5000.

Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).
AccessDeniedException

The current account doesn't have the IAM permissions required to perform the specified Resolver operation.

HTTP Status Code: 400

InternalServiceErrorException

We encountered an unknown error. Try again in a few minutes.

HTTP Status Code: 400

InvalidParameterException

One or more parameters in this request are not valid.

HTTP Status Code: 400

InvalidRequestException

The request is invalid.

HTTP Status Code: 400

UnknownResourceException

The specified resource doesn't exist.

HTTP Status Code: 400

Examples

GetResolverQueryLogConfigPolicy Example

This example illustrates one usage of GetResolverQueryLogConfigPolicy.

Sample Request

```plaintext
POST / HTTP/1.1
Host: route53resolver.us-east-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 48
X-Amz-Target: Route53Resolver.GetResolverQueryLogConfigPolicy
X-Amz-Date: 20181101T192652Z
User-Agent: aws-cli/1.16.45 Python/2.7.10 Darwin/16.7.0 botocore/1.12.35
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256
  Credential=AKIAJJ2SONIPEXAMPLE/20181101/us-east-2/route53resolver/
  SignedHeaders=content-type;host;x-amz-date;x-amz-target,
  Signature=[calculated-signature]
{
}
```

Sample Response

```plaintext
HTTP/1.1 200 OK
Date: Thu, 01 Nov 2018 19:26:52 GMT
```
Content-Type: application/x-amz-json-1.1
Content-Length: 314
x-amzn-RequestId: 1d7c8aad-1c63-413d-88a9-bc7b0example
Connection: keep-alive

{
    "ResolverQueryLogConfigPolicy": {
        "Version": "2012-10-17",
        "Statement": [
            {
                "Effect": "Allow",
                "Principal": {
                    "AWS": [
                        "123456789012"
                    ]
                },
                "Action": ["route53resolver:AssociateResolverQueryLogConfig",
                            "route53resolver:CreateResolverQueryLogConfig",
                            "route53resolver:DeleteResolverQueryLogConfig",
                            "route53resolver:DisassociateResolverQueryLogConfig",
                            "route53resolver:ListResolverQueryLogConfigAssociations",
                            "route53resolver:ListResolverQueryLogConfigs"
                        ],
                "Resource": [
                ]
            }
        ]
    }
}

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for Java V2
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
GetResolverRule
Service: Amazon Route 53 Resolver

Gets information about a specified Resolver rule, such as the domain name that the rule forwards DNS queries for and the ID of the outbound Resolver endpoint that the rule is associated with.

Request Syntax

```json
{
   "ResolverRuleId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 712).

The request accepts the following data in JSON format.

**ResolverRuleId (p. 450)**

The ID of the Resolver rule that you want to get information about.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Required: Yes

Response Syntax

```json
{
   "ResolverRule": {
      "Arn": "string",
      "CreationTime": "string",
      "CreatorRequestId": "string",
      "DomainName": "string",
      "Id": "string",
      "ModificationTime": "string",
      "Name": "string",
      "OwnerId": "string",
      "ResolverEndpointId": "string",
      "RuleType": "string",
      "ShareStatus": "string",
      "Status": "string",
      "StatusMessage": "string",
      "TargetIps": [
         {
            "Ip": "string",
            "Port": number
         }
      ]
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.
The following data is returned in JSON format by the service.

**ResolverRule (p. 450)**

Information about the Resolver rule that you specified in a GetResolverRule request.

Type: **ResolverRule (p. 704)** object

**Errors**

For information about the errors that are common to all actions, see **Common Errors (p. 714).**

**InternalServiceErrorException**

We encountered an unknown error. Try again in a few minutes.

HTTP Status Code: 400

**InvalidParameterException**

One or more parameters in this request are not valid.

HTTP Status Code: 400

**ResourceNotFoundException**

The specified resource doesn't exist.

HTTP Status Code: 400

**ThrottlingException**

The request was throttled. Try again in a few minutes.

HTTP Status Code: 400

**Examples**

**GetResolverRule Example**

This example illustrates one usage of GetResolverRule.

**Sample Request**

```json
POST / HTTP/1.1
Host: route53resolver.us-east-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 48
X-Amz-Target: Route53Resolver.GetResolverRule
X-Amz-Date: 20181101T192652Z
User-Agent: aws-cli/1.16.45 Python/2.7.10 Darwin/16.7.0 botocore/1.12.35
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256
        Credential=AKIAJJ2SONIPEXAMPLE/20181101/us-east-2/route53resolver/
        aws4_request,
        SignedHeaders=content-type;host;x-amz-date;x-amz-target,
        Signature=[calculated-signature]

{
    "ResolverRuleId": "rslvr-rr-5328a0899aexample"
}
```
Sample Response

HTTP/1.1 200 OK
Date: Thu, 01 Nov 2018 19:26:52 GMT
Content-Type: application/x-amz-json-1.1
Content-Length: 464
x-amzn-RequestId: 1d7c8aad-1c63-413d-88a9-bc7b0example
Connection: keep-alive

{
  "ResolverRule": {
    "CreatorRequestId": "999",
    "DomainName": "example.com",
    "Id": "rslvr-rr-5328a0899aexample",
    "OwnerId": "123456789012",
    "ResolverEndpointId": "rslvr-out-fdc049932dexample",
    "RuleType": "FORWARD",
    "Status": "COMPLETE",
    "StatusMessage": "[Trace id: 1-5bdb52b3-68082ff336d18153example] Successfully created Resolver Rule.",
    "TargetIps": [
      {
        "Ip": "192.0.2.6",
        "Port": 53
      }
    ]
  }
}

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
GetResolverRuleAssociation

Service: Amazon Route 53 Resolver

Gets information about an association between a specified Resolver rule and a VPC. You associate a Resolver rule and a VPC using AssociateResolverRule.

Request Syntax

```json
{
   "ResolverRuleAssociationId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 712).

The request accepts the following data in JSON format.

**ResolverRuleAssociationId (p. 453)**

The ID of the Resolver rule association that you want to get information about.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Required: Yes

Response Syntax

```json
{
   "ResolverRuleAssociation": {
      "Id": "string",
      "Name": "string",
      "ResolverRuleId": "string",
      "Status": "string",
      "StatusMessage": "string",
      "VPCId": "string"
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**ResolverRuleAssociation (p. 453)**

Information about the Resolver rule association that you specified in a GetResolverRuleAssociation request.

Type: ResolverRuleAssociation (p. 707) object
Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).

InternalServiceErrorException

We encountered an unknown error. Try again in a few minutes.

HTTP Status Code: 400

InvalidParameterException

One or more parameters in this request are not valid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource doesn't exist.

HTTP Status Code: 400

ThrottlingException

The request was throttled. Try again in a few minutes.

HTTP Status Code: 400

Examples

GetResolverRuleAssociation Example

This example illustrates one usage of GetResolverRuleAssociation.

Sample Request

```
POST / HTTP/1.1
Host: route53resolver.us-east-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 48
X-Amz-Target: Route53Resolver.GetResolverRuleAssociation
X-Amz-Date: 20181101T192652Z
User-Agent: aws-cli/1.16.45 Python/2.7.10 Darwin/16.7.0 botocore/1.12.35
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256
    Credential=AKIAJJ2SONIPEXAMPLE/20181101/us-east-2/route53resolver/
    aws4_request,
    SignedHeaders=content-type;host;x-amz-date;x-amz-target,
    Signature=[calculated-signature]

{
    "ResolverRuleAssociationId": "rslvr-rrassoc-97242eaf88example"
}
```

Sample Response

```
HTTP/1.1 200 OK
Date: Thu, 01 Nov 2018 19:26:52 GMT
Content-Type: application/x-amz-json-1.1
Content-Length: 314
x-amzn-RequestId: 1d7c8aad-1c63-413d-88a9-bc7b0example
```
Connection: keep-alive

{
   "ResolverRuleAssociation":{
      "Id":"rslvr-rrassoc-97242eaf88example",
      "Name":"forward example.com for gamma VPC",
      "ResolverRuleId":"rslvr-rr-5328a0899example",
      "Status":"CREATING",
      "StatusMessage":"[Trace id: 1-5bdb53db-75f3852c8384ad30fexample], Creating the association.",
      "VPCId":"vpc-03cf94c75cexample"
   }
}

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
GetResolverRulePolicy
Service: Amazon Route 53 Resolver

Gets information about the Resolver rule policy for a specified rule. A Resolver rule policy includes the rule that you want to share with another account, the account that you want to share the rule with, and the Resolver operations that you want to allow the account to use.

Request Syntax

{  "Arn": "string" }

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 712).

The request accepts the following data in JSON format.

Arn (p. 456)

The ID of the Resolver rule that you want to get the Resolver rule policy for.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

Response Syntax

{  "ResolverRulePolicy": "string" }

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

ResolverRulePolicy (p. 456)

The Resolver rule policy for the rule that you specified in a GetResolverRulePolicy request.

Type: String

Length Constraints: Maximum length of 5000.

Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).
InternalServiceErrorException

We encountered an unknown error. Try again in a few minutes.

HTTP Status Code: 400

InvalidParameterException

One or more parameters in this request are not valid.

HTTP Status Code: 400

UnknownResourceException

The specified resource doesn't exist.

HTTP Status Code: 400

Examples

GetResolverRulePolicy Example

This example illustrates one usage of GetResolverRulePolicy.

Sample Request

POST / HTTP/1.1
Host: route53resolver.us-east-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 48
X-Amz-Target: Route53Resolver.GetResolverRulePolicy
X-Amz-Date: 20181101T192652Z
User-Agent: aws-cli/1.16.45 Python/2.7.10 Darwin/16.7.0 botocore/1.12.35
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256

Credential=AKIAJJ2SONIPEXAMPLE/20181101/us-east-2/route53resolver/
aws4_request,
SignedHeaders=content-type;host;x-amz-date;x-amz-target,
Signature=[calculated-signature]

{
}

Sample Response

HTTP/1.1 200 OK
Date: Thu, 01 Nov 2018 19:26:52 GMT
Content-Type: application/x-amz-json-1.1
Content-Length: 314
x-amzn-RequestId: 1d7c8aad-1c63-413d-88a9-bc7b0example
Connection: keep-alive

{
  "ResolverRulePolicy":{
    "Version": "2012-10-17",
    "Statement": [
      {
        "Effect" : "Allow",
        "Principal" : {"AWS" : [ "123456789012" ] },
        "Action" : [
See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
ImportFirewallDomains
Service: Amazon Route 53 Resolver

Imports domain names from a file into a domain list, for use in a DNS firewall rule group.

Each domain specification in your domain list must satisfy the following requirements:

- It can optionally start with * (asterisk).
- With the exception of the optional starting asterisk, it must only contain the following characters: A–Z, a–z, 0–9, – (hyphen).
- It must be from 1-255 characters in length.

Request Syntax

```
{
    "DomainFileUrl": "string",
    "FirewallDomainListId": "string",
    "Operation": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 712).

The request accepts the following data in JSON format.

**DomainFileUrl** (p. 459)

The fully qualified URL or URI of the file stored in Amazon Simple Storage Service (Amazon S3) that contains the list of domains to import.

The file must be in an S3 bucket that's in the same Region as your DNS Firewall. The file must be a text file and must contain a single domain per line.

Type: String


Required: Yes

**FirewallDomainListId** (p. 459)

The ID of the domain list that you want to modify with the import operation.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Required: Yes

**Operation** (p. 459)

What you want DNS Firewall to do with the domains that are listed in the file. This must be set to REPLACE, which updates the domain list to exactly match the list in the file.

Type: String

Valid Values: REPLACE
Required: Yes

Response Syntax

```
{  
  "Id": "string",
  "Name": "string",
  "Status": "string",
  "StatusMessage": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**Id** *(p. 460)*

The Id of the firewall domain list that DNS Firewall just updated.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

**Name** *(p. 460)*

The name of the domain list.

Type: String

Length Constraints: Maximum length of 64.

Pattern: (?![0-9]+)(([a-zA-Z0-9\-\_\ ']+)

**Status** *(p. 460)*

Type: String

Valid Values: COMPLETE | COMPLETE_IMPORT_FAILED | IMPORTING | DELETING | UPDATING

**StatusMessage** *(p. 460)*

Additional information about the status of the list, if available.

Type: String

Length Constraints: Maximum length of 255.

Errors

For information about the errors that are common to all actions, see Common Errors *(p. 714).*

**AccessDeniedException**

The current account doesn't have the IAM permissions required to perform the specified Resolver operation.
HTTP Status Code: 400

**ConflictException**

The requested state transition isn't valid. For example, you can't delete a firewall domain list if it is in the process of being deleted, or you can't import domains into a domain list that is in the process of being deleted.

HTTP Status Code: 400

**InternalServiceErrorException**

We encountered an unknown error. Try again in a few minutes.

HTTP Status Code: 400

**LimitExceededException**

The request caused one or more limits to be exceeded.

HTTP Status Code: 400

**ResourceNotFoundException**

The specified resource doesn't exist.

HTTP Status Code: 400

**ThrottlingException**

The request was throttled. Try again in a few minutes.

HTTP Status Code: 400

**ValidationException**

You have provided an invalid command. Supported values are ADD, REMOVE, or REPLACE a domain.

HTTP Status Code: 400

**See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
ListFirewallConfigs
Service: Amazon Route 53 Resolver

Retrieves the firewall configurations that you have defined. DNS Firewall uses the configurations to manage firewall behavior for your VPCs.

A single call might return only a partial list of the configurations. For information, see MaxResults.

Request Syntax

```
{
  "MaxResults": number,
  "NextToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 712).

The request accepts the following data in JSON format.

MaxResults (p. 462)

The maximum number of objects that you want Resolver to return for this request. If more objects are available, in the response, Resolver provides a NextToken value that you can use in a subsequent call to get the next batch of objects.

If you don't specify a value for MaxResults, Resolver returns up to 100 objects.

Type: Integer


Required: No

NextToken (p. 462)

For the first call to this list request, omit this value.

When you request a list of objects, Resolver returns at most the number of objects specified in MaxResults. If more objects are available for retrieval, Resolver returns a NextToken value in the response. To retrieve the next batch of objects, use the token that was returned for the prior request in your next request.

Type: String

Required: No

Response Syntax

```
{
  "FirewallConfigs": [
    {
      "FirewallFailOpen": "string",
      "Id": "string",
      "OwnerId": "string",
      "ResourceId": "string"
    }
  ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

FirewallConfigs (p. 462)

The configurations for the firewall behavior provided by DNS Firewall for VPCs from Amazon Virtual Private Cloud (Amazon VPC).

Type: Array of FirewallConfig (p. 670) objects

NextToken (p. 462)

If objects are still available for retrieval, Resolver returns this token in the response. To retrieve the next batch of objects, provide this token in your next request.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).

AccessDeniedException

The current account doesn't have the IAM permissions required to perform the specified Resolver operation.

HTTP Status Code: 400

InternalServiceErrorException

We encountered an unknown error. Try again in a few minutes.

HTTP Status Code: 400

ThrottlingException

The request was throttled. Try again in a few minutes.

HTTP Status Code: 400

ValidationException

You have provided an invalid command. Supported values are ADD, REMOVE, or REPLACE a domain.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
• AWS SDK for C++
• AWS SDK for Go
• AWS SDK for Java V2
• AWS SDK for JavaScript
• AWS SDK for PHP V3
• AWS SDK for Python
• AWS SDK for Ruby V3
ListFirewallDomainLists
Service: Amazon Route 53 Resolver

Retrieves the firewall domain lists that you have defined. For each firewall domain list, you can retrieve the domains that are defined for a list by calling ListFirewallDomains (p. 468).

A single call to this list operation might return only a partial list of the domain lists. For information, see MaxResults.

Request Syntax

```
{
    "MaxResults": number,
    "NextToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 712).

The request accepts the following data in JSON format.

MaxResults (p. 465)

The maximum number of objects that you want Resolver to return for this request. If more objects are available, in the response, Resolver provides a NextToken value that you can use in a subsequent call to get the next batch of objects.

If you don't specify a value for MaxResults, Resolver returns up to 100 objects.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

NextToken (p. 465)

For the first call to this list request, omit this value.

When you request a list of objects, Resolver returns at most the number of objects specified in MaxResults. If more objects are available for retrieval, Resolver returns a NextToken value in the response. To retrieve the next batch of objects, use the token that was returned for the prior request in your next request.

Type: String

Required: No

Response Syntax

```
{
    "FirewallDomainLists": [
        {
            "Arn": "string",
            "CreatorRequestId": "string",
            "Id": "string",
            "Name": "string",
            "Status": "string",
            "StatusMessage": "string",
        }...
    ]
}
```

465
Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

FirewallDomainLists (p. 465)

A list of the domain lists that you have defined.

This might be a partial list of the domain lists that you've defined. For information, see MaxResults.

Type: Array of FirewallDomainListMetadata (p. 675) objects

NextToken (p. 465)

If objects are still available for retrieval, Resolver returns this token in the response. To retrieve the next batch of objects, provide this token in your next request.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).

AccessDeniedException

The current account doesn't have the IAM permissions required to perform the specified Resolver operation.

HTTP Status Code: 400

InternalServiceErrorException

We encountered an unknown error. Try again in a few minutes.

HTTP Status Code: 400

ThrottlingException

The request was throttled. Try again in a few minutes.

HTTP Status Code: 400

ValidationException

You have provided an invalid command. Supported values are ADD, REMOVE, or REPLACE a domain.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:
- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
ListFirewallDomains

Service: Amazon Route 53 Resolver

Retrieves the domains that you have defined for the specified firewall domain list.

A single call might return only a partial list of the domains. For information, see MaxResults.

Request Syntax

```
{
  "FirewallDomainListId": "string",
  "MaxResults": number,
  "NextToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 712).

The request accepts the following data in JSON format.

**FirewallDomainListId (p. 468)**

  The ID of the domain list whose domains you want to retrieve.

  Type: String

  Length Constraints: Minimum length of 1. Maximum length of 64.

  Required: Yes

**MaxResults (p. 468)**

  The maximum number of objects that you want Resolver to return for this request. If more objects are available, in the response, Resolver provides a NextToken value that you can use in a subsequent call to get the next batch of objects.

  If you don't specify a value for MaxResults, Resolver returns up to 100 objects.

  Type: Integer

  Valid Range: Minimum value of 1. Maximum value of 5000.

  Required: No

**NextToken (p. 468)**

  For the first call to this list request, omit this value.

  When you request a list of objects, Resolver returns at most the number of objects specified in MaxResults. If more objects are available for retrieval, Resolver returns a NextToken value in the response. To retrieve the next batch of objects, use the token that was returned for the prior request in your next request.

  Type: String

  Required: No
Response Syntax

```json
{
  "Domains": [ "string" ],
  "NextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**Domains (p. 469)**

A list of the domains in the firewall domain list.

This might be a partial list of the domains that you've defined in the domain list. For information, see `MaxResults`.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 255.

**NextToken (p. 469)**

If objects are still available for retrieval, Resolver returns this token in the response. To retrieve the next batch of objects, provide this token in your next request.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).

**AccessDeniedException**

The current account doesn't have the IAM permissions required to perform the specified Resolver operation.

HTTP Status Code: 400

**InternalServiceErrorException**

We encountered an unknown error. Try again in a few minutes.

HTTP Status Code: 400

**ResourceNotFoundException**

The specified resource doesn't exist.

HTTP Status Code: 400

**ThrottlingException**

The request was throttled. Try again in a few minutes.

HTTP Status Code: 400

**ValidationException**

You have provided an invalid command. Supported values are ADD, REMOVE, or REPLACE a domain.
HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
ListFirewallRuleGroupAssociations

Service: Amazon Route 53 Resolver

Retrieves the firewall rule group associations that you have defined. Each association enables DNS filtering for a VPC with one rule group.

A single call might return only a partial list of the associations. For information, see MaxResults.

Request Syntax

```json
{
    "FirewallRuleGroupId": "string",
    "MaxResults": number,
    "NextToken": "string",
    "Priority": number,
    "Status": "string",
    "VpcId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 712).

The request accepts the following data in JSON format.

**FirewallRuleGroupId** (p. 471)

The unique identifier of the firewall rule group that you want to retrieve the associations for. Leave this blank to retrieve associations for any rule group.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Required: No

**MaxResults** (p. 471)

The maximum number of objects that you want Resolver to return for this request. If more objects are available, in the response, Resolver provides a NextToken value that you can use in a subsequent call to get the next batch of objects.

If you don't specify a value for MaxResults, Resolver returns up to 100 objects.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

**NextToken** (p. 471)

For the first call to this list request, omit this value.

When you request a list of objects, Resolver returns at most the number of objects specified in MaxResults. If more objects are available for retrieval, Resolver returns a NextToken value in the response. To retrieve the next batch of objects, use the token that was returned for the prior request in your next request.
Type: String  
Required: No

Priority (p. 471)

The setting that determines the processing order of the rule group among the rule groups that are associated with a single VPC. DNS Firewall filters VPC traffic starting from the rule group with the lowest numeric priority setting.

Type: Integer  
Required: No

Status (p. 471)

The association Status setting that you want DNS Firewall to filter on for the list. If you don't specify this, then DNS Firewall returns all associations, regardless of status.

Type: String

Valid Values: COMPLETE | DELETING | UPDATING  
Required: No

VpcId (p. 471)

The unique identifier of the VPC that you want to retrieve the associations for. Leave this blank to retrieve associations for any VPC.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Required: No

Response Syntax

```json
{
    "FirewallRuleGroupAssociations": [
    {
        "Arn": "string",
        "CreationTime": "string",
        "CreatorRequestId": "string",
        "FirewallRuleGroupId": "string",
        "Id": "string",
        "ManagedOwnerName": "string",
        "ModificationTime": "string",
        "MutationProtection": "string",
        "Name": "string",
        "Priority": number,
        "Status": "string",
        "StatusMessage": "string",
        "VpcId": "string"
    }
    ],
    "NextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.
The following data is returned in JSON format by the service.

**FirewallRuleGroupAssociations (p. 472)**

A list of your firewall rule group associations.

This might be a partial list of the associations that you have defined. For information, see MaxResults.

Type: Array of FirewallRuleGroupAssociation (p. 683) objects

**NextToken (p. 472)**

If objects are still available for retrieval, Resolver returns this token in the response. To retrieve the next batch of objects, provide this token in your next request.

Type: String

**Errors**

For information about the errors that are common to all actions, see Common Errors (p. 714).

**AccessDeniedException**

The current account doesn't have the IAM permissions required to perform the specified Resolver operation.

HTTP Status Code: 400

**InternalServiceErrorException**

We encountered an unknown error. Try again in a few minutes.

HTTP Status Code: 400

**ThrottlingException**

The request was throttled. Try again in a few minutes.

HTTP Status Code: 400

**ValidationException**

You have provided an invalid command. Supported values are ADD, REMOVE, or REPLACE a domain.

HTTP Status Code: 400

**See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
• AWS SDK for Ruby V3
ListFirewallRuleGroups
Service: Amazon Route 53 Resolver

Retrieves the minimal high-level information for the rule groups that you have defined.
A single call might return only a partial list of the rule groups. For information, see MaxResults.

Request Syntax

```
{
  "MaxResults": number,
  "NextToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 712).

The request accepts the following data in JSON format.

MaxResults (p. 475)

The maximum number of objects that you want Resolver to return for this request. If more objects are available, in the response, Resolver provides a NextToken value that you can use in a subsequent call to get the next batch of objects.

If you don't specify a value for MaxResults, Resolver returns up to 100 objects.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

NextToken (p. 475)

For the first call to this list request, omit this value.

When you request a list of objects, Resolver returns at most the number of objects specified in MaxResults. If more objects are available for retrieval, Resolver returns a NextToken value in the response. To retrieve the next batch of objects, use the token that was returned for the prior request in your next request.

Type: String

Required: No

Response Syntax

```
{
  "FirewallRuleGroups": [
    {
      "Arn": "string",
      "CreatorRequestId": "string",
      "Id": "string",
      "Name": "string",
      "OwnerId": "string",
    }
  ]
}
```
Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

FirewallRuleGroups  (p. 475)

A list of your firewall rule groups.

This might be a partial list of the rule groups that you have defined. For information, see MaxResults.

Type: Array of FirewallRuleGroupMetadata (p. 686) objects

NextToken  (p. 475)

If objects are still available for retrieval, Resolver returns this token in the response. To retrieve the next batch of objects, provide this token in your next request.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).

AccessDeniedException

The current account doesn't have the IAM permissions required to perform the specified Resolver operation.

HTTP Status Code: 400

InternalServiceErrorException

We encountered an unknown error. Try again in a few minutes.

HTTP Status Code: 400

ThrottlingException

The request was throttled. Try again in a few minutes.

HTTP Status Code: 400

ValidationException

You have provided an invalid command. Supported values are ADD, REMOVE, or REPLACE a domain.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:
• AWS Command Line Interface
• AWS SDK for .NET
• AWS SDK for C++
• AWS SDK for Go
• AWS SDK for Java V2
• AWS SDK for JavaScript
• AWS SDK for PHP V3
• AWS SDK for Python
• AWS SDK for Ruby V3
ListFirewallRules
Service: Amazon Route 53 Resolver

Retrieves the firewall rules that you have defined for the specified firewall rule group. DNS Firewall uses the rules in a rule group to filter DNS network traffic for a VPC.

A single call might return only a partial list of the rules. For information, see MaxResults.

Request Syntax

```
{
   "Action": "string",
   "FirewallRuleGroupId": "string",
   "MaxResults": number,
   "NextToken": "string",
   "Priority": number
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 712).

The request accepts the following data in JSON format.

**Action (p. 478)**

Optional additional filter for the rules to retrieve.

The action that DNS Firewall should take on a DNS query when it matches one of the domains in the rule's domain list:

- **ALLOW** - Permit the request to go through.
- **ALERT** - Permit the request to go through but send an alert to the logs.
- **BLOCK** - Disallow the request. If this is specified, additional handling details are provided in the rule's BlockResponse setting.

Type: String

Valid Values: ALLOW | BLOCK | ALERT

Required: No

**FirewallRuleGroupId (p. 478)**

The unique identifier of the firewall rule group that you want to retrieve the rules for.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Required: Yes

**MaxResults (p. 478)**

The maximum number of objects that you want Resolver to return for this request. If more objects are available, in the response, Resolver provides a NextToken value that you can use in a subsequent call to get the next batch of objects.

If you don't specify a value for MaxResults, Resolver returns up to 100 objects.
Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

NextToken (p. 478)

For the first call to this list request, omit this value.

When you request a list of objects, Resolver returns at most the number of objects specified in MaxResults. If more objects are available for retrieval, Resolver returns a NextToken value in the response. To retrieve the next batch of objects, use the token that was returned for the prior request in your next request.

Type: String

Required: No

Priority (p. 478)

Optional additional filter for the rules to retrieve.

The setting that determines the processing order of the rules in a rule group. DNS Firewall processes the rules in a rule group by order of priority, starting from the lowest setting.

Type: Integer

Required: No

Response Syntax

```
{
  "FirewallRules": [
    {
      "Action": "string",
      "BlockOverrideDnsType": "string",
      "BlockOverrideDomain": "string",
      "BlockOverrideTtl": number,
      "BlockResponse": "string",
      "CreationTime": "string",
      "CreatorRequestId": "string",
      "FirewallDomainListId": "string",
      "FirewallRuleGroupId": "string",
      "ModificationTime": "string",
      "Name": "string",
      "Priority": number
    }
  ],
  "NextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

FirewallRules (p. 479)

A list of the rules that you have defined.
ListFirewallRules

This might be a partial list of the firewall rules that you've defined. For information, see MaxResults.

Type: Array of FirewallRule (p. 677) objects

NextToken (p. 479)

If objects are still available for retrieval, Resolver returns this token in the response. To retrieve the next batch of objects, provide this token in your next request.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).

AccessDeniedException

The current account doesn't have the IAM permissions required to perform the specified Resolver operation.

HTTP Status Code: 400

InternalServiceErrorException

We encountered an unknown error. Try again in a few minutes.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource doesn't exist.

HTTP Status Code: 400

ThrottlingException

The request was throttled. Try again in a few minutes.

HTTP Status Code: 400

ValidationException

You have provided an invalid command. Supported values are ADD, REMOVE, or REPLACE a domain.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
• AWS SDK for Ruby V3
ListResolverConfigs
Service: Amazon Route 53 Resolver

Retrieves the Resolver configurations that you have defined. Route 53 Resolver uses the configurations to manage DNS resolution behavior for your VPCs.

Request Syntax

```
{
   "MaxResults": number,
   "NextToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 712).

The request accepts the following data in JSON format.

**MaxResults (p. 482)**

The maximum number of Resolver configurations that you want to return in the response to a ListResolverConfigs request. If you don't specify a value for MaxResults, up to 100 Resolver configurations are returned.

Type: Integer

Valid Range: Minimum value of 5. Maximum value of 100.

Required: No

**NextToken (p. 482)**

(Optional) If the current AWS account has more than MaxResults Resolver configurations, use NextToken to get the second and subsequent pages of results.

For the first ListResolverConfigs request, omit this value.

For the second and subsequent requests, get the value of NextToken from the previous response and specify that value for NextToken in the request.

Type: String

Required: No

Response Syntax

```
{
   "NextToken": "string",
   "ResolverConfigs": [
   {"AutodefinedReverse": "string",
    "Id": "string",
    "OwnerId": "string",
    "ResourceId": "string"
   }
   ]
}
```
Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

NextToken (p. 482)

If a response includes the last of the Resolver configurations that are associated with the current AWS account, NextToken doesn't appear in the response.

If a response doesn't include the last of the configurations, you can get more configurations by submitting another ListResolverConfigs request. Get the value of NextToken that Amazon Route 53 returned in the previous response and include it in NextToken in the next request.

Type: String

ResolverConfigs (p. 482)

An array that contains one ResolverConfigs element for each Resolver configuration that is associated with the current AWS account.

Type: Array of ResolverConfig (p. 692) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).

AccessDeniedException

The current account doesn't have the IAM permissions required to perform the specified Resolver operation.

HTTP Status Code: 400

InternalServiceErrorException

We encountered an unknown error. Try again in a few minutes.

HTTP Status Code: 400

InvalidNextTokenException

The value that you specified for NextToken in a List request isn't valid.

HTTP Status Code: 400

InvalidParameterException

One or more parameters in this request are not valid.

HTTP Status Code: 400

InvalidRequestException

The request is invalid.

HTTP Status Code: 400

ThrottlingException

The request was throttled. Try again in a few minutes.
HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
**ListResolverDnssecConfigs**  
*Service: Amazon Route 53 Resolver*

Lists the configurations for DNSSEC validation that are associated with the current AWS account.

**Request Syntax**

```json
{
  "Filters": [
    {
      "Name": "string",
      "Values": [ "string" ]
    }
  ],
  "MaxResults": number,
  "NextToken": "string"
}
```

**Request Parameters**

For information about the parameters that are common to all actions, see [Common Parameters](p. 712).

The request accepts the following data in JSON format.

**Filters (p. 485)**

An optional specification to return a subset of objects.

Type: Array of [Filter](p. 667) objects

Required: No

**MaxResults (p. 485)**

*Optional:* An integer that specifies the maximum number of DNSSEC configuration results that you want Amazon Route 53 to return. If you don't specify a value for MaxResults, Route 53 returns up to 100 configuration per page.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

**NextToken (p. 485)**

(Optional) If the current AWS account has more than MaxResults DNSSEC configurations, use NextToken to get the second and subsequent pages of results.

For the first [ListResolverDnssecConfigs](p. 485) request, omit this value.

For the second and subsequent requests, get the value of NextToken from the previous response and specify that value for NextToken in the request.

Type: String

Required: No
Response Syntax

```json
{
  "NextToken": "string",
  "ResolverDnssecConfigs": [
    {
      "Id": "string",
      "OwnerId": "string",
      "ResourceId": "string",
      "ValidationStatus": "string"
    }
  ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**NextToken (p. 486)**

If a response includes the last of the DNSSEC configurations that are associated with the current
AWS account, `NextToken` doesn't appear in the response.

If a response doesn't include the last of the configurations, you can get more configurations by
submitting another `ListResolverDnssecConfigs` request. Get the value of `NextToken` that Amazon
Route 53 returned in the previous response and include it in `NextToken` in the next request.

Type: String

**ResolverDnssecConfigs (p. 486)**

An array that contains one `ResolverDnssecConfig` element for each configuration for DNSSEC
validation that is associated with the current AWS account.

Type: Array of `ResolverDnssecConfig` (p. 694) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).

**AccessDeniedException**

The current account doesn't have the IAM permissions required to perform the specified Resolver
operation.

HTTP Status Code: 400

**InternalServiceErrorException**

We encountered an unknown error. Try again in a few minutes.

HTTP Status Code: 400

**InvalidNextTokenException**

The value that you specified for `NextToken` in a `List` request isn't valid.

HTTP Status Code: 400
InvalidParameterException

One or more parameters in this request are not valid.

HTTP Status Code: 400

InvalidRequestException

The request is invalid.

HTTP Status Code: 400

ThrottlingException

The request was throttled. Try again in a few minutes.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
ListResolverEndpointIpAddresses

Service: Amazon Route 53 Resolver

Gets the IP addresses for a specified Resolver endpoint.

Request Syntax

```
{
  "MaxResults": number,
  "NextToken": "string",
  "ResolverEndpointId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 712).

The request accepts the following data in JSON format.

**MaxResults** (p. 488)

The maximum number of IP addresses that you want to return in the response to a ListResolverEndpointIpAddresses request. If you don't specify a value for MaxResults, Resolver returns up to 100 IP addresses.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

**NextToken** (p. 488)

For the first ListResolverEndpointIpAddresses request, omit this value.

If the specified Resolver endpoint has more than MaxResults IP addresses, you can submit another ListResolverEndpointIpAddresses request to get the next group of IP addresses. In the next request, specify the value of NextToken from the previous response.

Type: String

Required: No

**ResolverEndpointId** (p. 488)

The ID of the Resolver endpoint that you want to get IP addresses for.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Required: Yes

Response Syntax

```
{
  "IpAddresses": [ 

```
Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**IpAddresses (p. 488)**

Information about the IP addresses in your VPC that DNS queries originate from (for outbound endpoints) or that you forward DNS queries to (for inbound endpoints).

Type: Array of IpAddressResponse (p. 689) objects

**MaxResults (p. 488)**

The value that you specified for MaxResults in the request.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

**NextToken (p. 488)**

If the specified endpoint has more than MaxResults IP addresses, you can submit another ListResolverEndpointIpAddresses request to get the next group of IP addresses. In the next request, specify the value of NextToken from the previous response.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).

**InternalServiceErrorException**

We encountered an unknown error. Try again in a few minutes.

HTTP Status Code: 400

**InvalidNextTokenException**

The value that you specified for NextToken in a List request isn't valid.

HTTP Status Code: 400

**InvalidParameterException**

One or more parameters in this request are not valid.
HTTP Status Code: 400
ResourceNotFoundException
The specified resource doesn't exist.

HTTP Status Code: 400
ThrottlingException
The request was throttled. Try again in a few minutes.

HTTP Status Code: 400

Examples

ListResolverEndpointIpAddresses Example
This example illustrates one usage of ListResolverEndpointIpAddresses.

Sample Request

```plaintext
POST / HTTP/1.1
Host: route53resolver.us-east-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 52
X-Amz-Target: Route53Resolver.ListResolverEndpointIpAddresses
X-Amz-Date: 20181101T193143Z
User-Agent: aws-cli/1.16.45 Python/2.7.10 Darwin/16.7.0 botocore/1.12.35
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256
aws4_request,
   SignedHeaders=content-type;host;x-amz-date;x-amz-target,
   Signature=[calculated-signature]
{
   "ResolverEndpointId": "rslvr-in-60b9f8fd8fexample"
}
```

Sample Response

```plaintext
HTTP/1.1 200 OK
Date: Thu, 01 Nov 2018 19:31:43 GMT
Content-Type: application/x-amz-json-1.1
Content-Length: 780
x-amzn-RequestId: df6722d0-49a0-4300-a491-fe290example
Connection: keep-alive
{
   "IpAddresses": [
   {
      "CreationTime": "2018-11-01T18:44:50.375Z",
      "Ip": "192.0.2.42",
      "IpId": "rni-42ed238be6example",
      "ModificationTime": "2018-11-01T18:45:10.956Z",
      "Status": "ATTACHED",
      "StatusMessage": "This IP address is operational.",
      "SubnetId": "subnet-02f91e0e8example"
   },
   {
      "CreationTime": "2018-11-01T18:44:50.379Z",
```

490
"Ip": "192.0.2.18",
"IpId": "rni-2cf1fc97bfexample",
"ModificationTime": "2018-11-01T18:45:10.724Z",
"Status": "ATTACHED",
"StatusMessage": "This IP address is operational.",
"SubnetId": "subnet-02f91e0e98example"
},
{
"Ip": "192.0.2.40",
"IpId": "rni-e6b5flb6e6example",
"ModificationTime": "2018-11-01T18:52:45.886Z",
"Status": "ATTACHED",
"StatusMessage": "This IP address is operational.",
"SubnetId": "subnet-02f91e0e98example"
}
],
"MaxResults": 10
}

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
ListResolverEndpoints
Service: Amazon Route 53 Resolver

Lists all the Resolver endpoints that were created using the current AWS account.

Request Syntax

```json
{
    "Filters": [
        {
            "Name": "string",
            "Values": [ "string" ]
        }
    ],
    "MaxResults": number,
    "NextToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 712).

The request accepts the following data in JSON format.

**Filters** (p. 492)

An optional specification to return a subset of Resolver endpoints, such as all inbound Resolver endpoints.

**Note**

If you submit a second or subsequent ListResolverEndpoints request and specify the NextToken parameter, you must use the same values for Filters, if any, as in the previous request.

Type: Array of Filter (p. 667) objects

Required: No

**MaxResults** (p. 492)

The maximum number of Resolver endpoints that you want to return in the response to a ListResolverEndpoints request. If you don't specify a value for MaxResults, Resolver returns up to 100 Resolver endpoints.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

**NextToken** (p. 492)

For the first ListResolverEndpoints request, omit this value.

If you have more than MaxResults Resolver endpoints, you can submit another ListResolverEndpoints request to get the next group of Resolver endpoints. In the next request, specify the value of NextToken from the previous response.

Type: String

Required: No
Response Syntax

```json
{
  "MaxResults": number,
  "NextToken": "string",
  "ResolverEndpoints": [
    {
      "Arn": "string",
      "CreationTime": "string",
      "CreatorRequestId": "string",
      "Direction": "string",
      "HostVPCId": "string",
      "Id": "string",
      "IpAddressCount": number,
      "ModificationTime": "string",
      "Name": "string",
      "SecurityGroupIds": [ "string" ],
      "Status": "string",
      "StatusMessage": "string"
    }
  ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**MaxResults (p. 493)**

The value that you specified for `MaxResults` in the request.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

**NextToken (p. 493)**

If more than `MaxResults` IP addresses match the specified criteria, you can submit another `ListResolverEndpoint` request to get the next group of results. In the next request, specify the value of `NextToken` from the previous response.

Type: String

**ResolverEndpoints (p. 493)**

The Resolver endpoints that were created by using the current AWS account, and that match the specified filters, if any.

Type: Array of `ResolverEndpoint (p. 696)` objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).

**InternalServiceErrorException**

We encountered an unknown error. Try again in a few minutes.

HTTP Status Code: 400
InvalidNextTokenException

The value that you specified for NextToken in a List request isn't valid.

HTTP Status Code: 400

InvalidParameterException

One or more parameters in this request are not valid.

HTTP Status Code: 400

InvalidRequestException

The request is invalid.

HTTP Status Code: 400

ThrottlingException

The request was throttled. Try again in a few minutes.

HTTP Status Code: 400

Examples

ListResolverEndpoints Example

This example illustrates one usage of ListResolverEndpoints.

Sample Request

```
POST / HTTP/1.1
Host: route53resolver.us-east-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 2
X-Amz-Target: Route53Resolver.ListResolverEndpoints
X-Amz-Date: 20181101T191920Z
User-Agent: aws-cli/1.16.45 Python/2.7.10 Darwin/16.7.0 botocore/1.12.35
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256
    Credential=AKIAJJ2SONIPEXAMPLE/20181101/us-east-2/route53resolver/
    aws4_request,
    SignedHeaders=content-type;host;x-amz-date;x-amz-target,
    Signature=[calculated-signature]

{}
```

Sample Response

```
HTTP/1.1 200 OK
Date: Thu, 01 Nov 2018 19:19:20 GMT
Content-Type: application/x-amz-json-1.1
Content-Length: 983
x-amzn-RequestId: 35a62daa-889c-47e4-994e-5a4dbd9818fb
Connection: keep-alive

{
    "MaxResults": 10,
    "ResolverEndpoints": [
    {
```
"CreationTime": "2018-11-01T18:44:50.372Z",
"CreatorRequestId": "1234",
"Direction": "INBOUND",
"HostVPCId": "vpc-03cf94c75cexample",
"Id": "rslvr-in-60b9fd8fdexample",
"IpAddressCount": 3,
"ModificationTime": "2018-11-01T18:44:50.372Z",
"Name": "MyInbound",
"SecurityGroupIds": [
  "sg-020a3554aexample"
],
"Status": "OPERATIONAL",
"StatusMessage": "This Resolver Endpoint is operational."
},
{
  "CreationTime": "2018-11-01T19:13:44.830Z",
  "CreatorRequestId": "5678",
  "Direction": "OUTBOUND",
  "HostVPCId": "vpc-0dd415a0edexample",
  "Id": "rslvr-out-fdc049932dexample",
  "IpAddressCount": 2,
  "ModificationTime": "2018-11-01T19:13:44.830Z",
  "Name": "MyOutbound",
  "SecurityGroupIds": [
    "sg-071b99f42example"
  ],
  "Status": "OPERATIONAL",
  "StatusMessage": "This Resolver Endpoint is operational."
}

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
ListResolverQueryLogConfigAssociations
Service: Amazon Route 53 Resolver

Lists information about associations between Amazon VPCs and query logging configurations.

Request Syntax

```
{
   "Filters": [
      {
         "Name": "string",
         "Values": [ "string" ]
      }
   ],
   "MaxResults": number,
   "NextToken": "string",
   "SortBy": "string",
   "SortOrder": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 712).

The request accepts the following data in JSON format.

Filters (p. 496)

An optional specification to return a subset of query logging associations.

**Note**

If you submit a second or subsequent ListResolverQueryLogConfigAssociations request and specify the NextToken parameter, you must use the same values for Filters, if any, as in the previous request.

Type: Array of Filter (p. 667) objects

Required: No

MaxResults (p. 496)

The maximum number of query logging associations that you want to return in the response to a ListResolverQueryLogConfigAssociations request. If you don't specify a value for MaxResults, Resolver returns up to 100 query logging associations.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

NextToken (p. 496)

For the first ListResolverQueryLogConfigAssociations request, omit this value.

If there are more than MaxResults query logging associations that match the values that you specify for Filters, you can submit another ListResolverQueryLogConfigAssociations request to get the next group of associations. In the next request, specify the value of NextToken from the previous response.
**Type:** String

**Required:** No

### SortBy (p. 496)

The element that you want Resolver to sort query logging associations by.

**Note**

If you submit a second or subsequent `ListResolverQueryLogConfigAssociations` request and specify the `NextToken` parameter, you must use the same value for `SortBy`, if any, as in the previous request.

Valid values include the following elements:

- **CreationTime**: The ID of the query logging association.
- **Error**: If the value of `Status` is FAILED, the value of `Error` indicates the cause:
  - **DESTINATION_NOT_FOUND**: The specified destination (for example, an Amazon S3 bucket) was deleted.
  - **ACCESS_DENIED**: Permissions don't allow sending logs to the destination.

If `Status` is a value other than FAILED, `ERROR` is null.

- **Id**: The ID of the query logging association
- **ResolverQueryLogConfigId**: The ID of the query logging configuration
- **ResourceId**: The ID of the VPC that is associated with the query logging configuration
- **Status**: The current status of the configuration. Valid values include the following:
  - **CREATING**: Resolver is creating an association between an Amazon VPC and a query logging configuration.
  - **CREATED**: The association between an Amazon VPC and a query logging configuration was successfully created. Resolver is logging queries that originate in the specified VPC.
  - **DELETING**: Resolver is deleting this query logging association.
  - **FAILED**: Resolver either couldn't create or couldn't delete the query logging association. Here are two common causes:
    - The specified destination (for example, an Amazon S3 bucket) was deleted.
    - Permissions don't allow sending logs to the destination.

**Type:** String

**Length Constraints:** Minimum length of 1. Maximum length of 64.

**Required:** No

### SortOrder (p. 496)

If you specified a value for `SortBy`, the order that you want query logging associations to be listed in, **ASCENDING** or **DESCENDING**.

**Note**

If you submit a second or subsequent `ListResolverQueryLogConfigAssociations` request and specify the `NextToken` parameter, you must use the same value for `SortOrder`, if any, as in the previous request.

**Type:** String

**Valid Values:** **ASCENDING** | **DESCENDING**

**Required:** No
Response Syntax

```json
{
    "NextToken": "string",
    "ResolverQueryLogConfigAssociations": [
        {
            "CreationTime": "string",
            "Error": "string",
            "ErrorMessage": "string",
            "Id": "string",
            "ResolverQueryLogConfigId": "string",
            "ResourceId": "string",
            "Status": "string"
        }
    ],
    "TotalCount": number,
    "TotalFilteredCount": number
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**NextToken (p. 498)**

If there are more than `MaxResults` query logging associations, you can submit another `ListResolverQueryLogConfigAssociations` request to get the next group of associations. In the next request, specify the value of `NextToken` from the previous response.

Type: String

**ResolverQueryLogConfigAssociations (p. 498)**

A list that contains one `ResolverQueryLogConfigAssociation` element for each query logging association that matches the values that you specified for `Filter`.

Type: Array of `ResolverQueryLogConfigAssociation` (p. 702) objects

**TotalCount (p. 498)**

The total number of query logging associations that were created by the current account in the specified Region. This count can differ from the number of associations that are returned in a `ListResolverQueryLogConfigAssociations` response, depending on the values that you specify in the request.

Type: Integer

**TotalFilteredCount (p. 498)**

The total number of query logging associations that were created by the current account in the specified Region and that match the filters that were specified in the `ListResolverQueryLogConfigAssociations` request. For the total number of associations that were created by the current account in the specified Region, see `TotalCount`.

Type: Integer

**Errors**

For information about the errors that are common to all actions, see Common Errors (p. 714).
**AccessDeniedException**

The current account doesn't have the IAM permissions required to perform the specified Resolver operation.

HTTP Status Code: 400

**InternalServiceErrorException**

We encountered an unknown error. Try again in a few minutes.

HTTP Status Code: 400

**InvalidParameterException**

One or more parameters in this request are not valid.

HTTP Status Code: 400

**InvalidRequestException**

The request is invalid.

HTTP Status Code: 400

**LimitExceededException**

The request caused one or more limits to be exceeded.

HTTP Status Code: 400

**ThrottlingException**

The request was throttled. Try again in a few minutes.

HTTP Status Code: 400

---

**Examples**

**ListResolverQueryLogConfigAssociations Example**

This example illustrates one usage of ListResolverQueryLogConfigAssociations.

**Sample Request**

```plaintext
POST / HTTP/1.1
Host: route53resolver.us-east-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 283
X-Amz-Target: Route53Resolver.ListResolverQueryLogConfigAssociations
X-Amz-Date: 20200415T191344Z
User-Agent: aws-cli/1.16.45 Python/2.7.10 Darwin/16.7.0 botocore/1.12.35
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256
Credential=AKIAJJ2SONIPEXAMPLE/20181101/us-east-2/route53resolver/
aws4_request,
SignedHeaders=content-type;host;x-amz-date;x-amz-target,
Signature=[calculated-signature]

{
  "Filters": [
    {
      "Name": "Status",
      "Values": "CREATED"
    }
  ]
}
```

---

499
Sample Response

HTTP/1.1 200 OK
Date: Thu, 01 Nov 2018 19:13:44 GMT
Content-Type: application/x-amz-json-1.1
Content-Length: 531
x-amzn-RequestId: 08afd081-9d67-4281-a277-b3880example
Connection: keep-alive

{
  "MaxResults": 10,
  "ResolverQueryLogConfigAssociations": [
    {
      "CreationTime": "2020-04-15T18:52:23.30Z",
      "Error": "",
      "ErrorMessage": "",
      "Id": "rqlca-ff85e1ffexample",
      "ResolverQueryLogConfigId": "rqlc-8ca61fe7cexample",
      "Resource": "vpc-03cf94c75cexample",
      "Status": "CREATED"
    }
  ],
  "TotalCount": 10,
  "TotalFilteredCount": 1
}

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
ListResolverQueryLogConfigs
Service: Amazon Route 53 Resolver

Lists information about the specified query logging configurations. Each configuration defines where you want Resolver to save DNS query logs and specifies the VPCs that you want to log queries for.

Request Syntax

```
{
  "Filters": [
    {
      "Name": "string",
      "Values": [ "string" ]
    }
  ],
  "MaxResults": number,
  "NextToken": "string",
  "SortBy": "string",
  "SortOrder": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 712).

The request accepts the following data in JSON format.

**Filters** (p. 501)

An optional specification to return a subset of query logging configurations.

**Note**

If you submit a second or subsequent ListResolverQueryLogConfigs request and specify the NextToken parameter, you must use the same values for Filters, if any, as in the previous request.

*Type: Array of Filter (p. 667) objects*

*Required: No*

**MaxResults** (p. 501)

The maximum number of query logging configurations that you want to return in the response to a ListResolverQueryLogConfigs request. If you don’t specify a value for MaxResults, Resolver returns up to 100 query logging configurations.

*Type: Integer*

*Valid Range: Minimum value of 1. Maximum value of 100.*

*Required: No*

**NextToken** (p. 501)

For the first ListResolverQueryLogConfigs request, omit this value.

If there are more than MaxResults query logging configurations that match the values that you specify for Filters, you can submit another ListResolverQueryLogConfigs request to get the
next group of configurations. In the next request, specify the value of `NextToken` from the previous response.

Type: String

Required: No

**SortBy (p. 501)**

The element that you want Resolver to sort query logging configurations by.

**Note**

If you submit a second or subsequent `ListResolverQueryLogConfigs` request and specify the `NextToken` parameter, you must use the same value for `SortBy`, if any, as in the previous request.

Valid values include the following elements:

- **Arn**: The ARN of the query logging configuration
- **AssociationCount**: The number of VPCs that are associated with the specified configuration
- **CreationTime**: The date and time that Resolver returned when the configuration was created
- **CreatorRequestId**: The value that was specified for `CreatorRequestId` when the configuration was created
- **DestinationArn**: The location that logs are sent to
- **Id**: The ID of the configuration
- **Name**: The name of the configuration
- **OwnerId**: The AWS account number of the account that created the configuration
- **ShareStatus**: Whether the configuration is shared with other AWS accounts or shared with the current account by another AWS account. Sharing is configured through AWS Resource Access Manager (AWS RAM).
- **Status**: The current status of the configuration. Valid values include the following:
  - **CREATING**: Resolver is creating the query logging configuration.
  - **CREATED**: The query logging configuration was successfully created. Resolver is logging queries that originate in the specified VPC.
  - **DELETING**: Resolver is deleting this query logging configuration.
  - **FAILED**: Resolver either couldn't create or couldn't delete the query logging configuration. Here are two common causes:
    - The specified destination (for example, an Amazon S3 bucket) was deleted.
    - Permissions don't allow sending logs to the destination.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Required: No

**SortOrder (p. 501)**

If you specified a value for `SortBy`, the order that you want query logging configurations to be listed in, **ASCENDING** or **DESCENDING**.

**Note**

If you submit a second or subsequent `ListResolverQueryLogConfigs` request and specify the `NextToken` parameter, you must use the same value for `SortOrder`, if any, as in the previous request.

Type: String

Valid Values: **ASCENDING** | **DESCENDING**
Required: No

Response Syntax

```
{
  "NextToken": "string",
  "ResolverQueryLogConfigs": [
    {
      "Arn": "string",
      "AssociationCount": number,
      "CreationTime": "string",
      "CreatorRequestId": "string",
      "DestinationArn": "string",
      "Id": "string",
      "Name": "string",
      "OwnerId": "string",
      "ShareStatus": "string",
      "Status": "string"
    }
  ],
  "TotalCount": number,
  "TotalFilteredCount": number
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**NextToken (p. 503)**

If there are more than MaxResults query logging configurations, you can submit another ListResolverQueryLogConfigs request to get the next group of configurations. In the next request, specify the value of NextToken from the previous response.

Type: String

**ResolverQueryLogConfigs (p. 503)**

A list that contains one ResolverQueryLogConfig element for each query logging configuration that matches the values that you specified for Filter.

Type: Array of ResolverQueryLogConfig (p. 699) objects

**TotalCount (p. 503)**

The total number of query logging configurations that were created by the current account in the specified Region. This count can differ from the number of query logging configurations that are returned in a ListResolverQueryLogConfigs response, depending on the values that you specify in the request.

Type: Integer

**TotalFilteredCount (p. 503)**

The total number of query logging configurations that were created by the current account in the specified Region and that match the filters that were specified in the ListResolverQueryLogConfigs request. For the total number of query logging configurations that were created by the current account in the specified Region, see TotalCount.

Type: Integer
Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).

AccessDeniedException

The current account doesn't have the IAM permissions required to perform the specified Resolver operation.

HTTP Status Code: 400

InternalServiceErrorException

We encountered an unknown error. Try again in a few minutes.

HTTP Status Code: 400

InvalidNextTokenException

The value that you specified for NextToken in a List request isn't valid.

HTTP Status Code: 400

InvalidParameterException

One or more parameters in this request are not valid.

HTTP Status Code: 400

InvalidRequestException

The request is invalid.

HTTP Status Code: 400

ThrottlingException

The request was throttled. Try again in a few minutes.

HTTP Status Code: 400

Examples

ListResolverQueryLogConfigs Example

This example illustrates one usage of ListResolverQueryLogConfigs.

Sample Request

```plaintext
POST / HTTP/1.1
Host: route53resolver.us-east-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 283
X-Amz-Target: Route53Resolver.ListResolverQueryLogConfigs
X-Amz-Date: 20200415T191344Z
User-Agent: aws-cli/1.16.45 Python/2.7.10 Darwin/16.7.0 botocore/1.12.35
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256
aws4_request,
SignedHeaders=content-type;host;x-amz-date;x-amz-target,
Signature=[calculated-signature]
```
ListResolverQueryLogConfigs

```json
{
   "Filters": [
      {
         "Name": "ShareStatus",
         "Values": "SHARED_BY_ME"
      }
   ],
   "MaxResults": 10,
   "SortBy": "DestinationArn",
   "SortOrder": "ASCENDING"
}
```

Sample Response

```
HTTP/1.1 200 OK
Date: Thu, 01 Nov 2018 19:13:44 GMT
Content-Type: application/x-amz-json-1.1
Content-Length: 531
x-amzn-RequestId: 08af0d081-9d67-4281-a277-b3880example
Connection: keep-alive

{
   "MaxResults": 10,
   "ResolverQueryLogConfigs": [
      {
         "AssociationCount": "1",
         "CreationTime": "20200415T191604Z",
         "CreatorRequestId": "ramirez-20200415T191001Z",
         "DestinationArn": "arn:aws:s3:::examplebucket/development/",
         "Id": "rqlc-8ca61fe7c055415a",
         "Name": "MyQueryLog",
         "OwnerId": "111122223333",
         "ShareStatus": "SHARED_BY_ME",
         "Status": "CREATING"
      }
   ],
   "SortBy": "DestinationArn",
   "SortOrder": "ASCENDING",
   "TotalCount": 10,
   "TotalFilteredCount": 1
}
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
ListResolverRuleAssociations

Service: Amazon Route 53 Resolver

Lists the associations that were created between Resolver rules and VPCs using the current AWS account.

**Request Syntax**

```
{
    "Filters": [  
        {
            "Name": "string",
            "Values": [ "string" ]
        }
    ],
    "MaxResults": number,
    "NextToken": "string"
}
```

**Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 712).

The request accepts the following data in JSON format.

**Filters (p. 506)**

An optional specification to return a subset of Resolver rules, such as Resolver rules that are associated with the same VPC ID.

**Note**

If you submit a second or subsequent `ListResolverRuleAssociations` request and specify the `NextToken` parameter, you must use the same values for `Filters`, if any, as in the previous request.

Type: Array of `Filter (p. 667)` objects

Required: No

**MaxResults (p. 506)**

The maximum number of rule associations that you want to return in the response to a `ListResolverRuleAssociations` request. If you don't specify a value for `MaxResults`, Resolver returns up to 100 rule associations.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

**NextToken (p. 506)**

For the first `ListResolverRuleAssociation` request, omit this value.

If you have more than `MaxResults` rule associations, you can submit another `ListResolverRuleAssociation` request to get the next group of rule associations. In the next request, specify the value of `NextToken` from the previous response.

Type: String
Required: No

**Response Syntax**

```
{
   "MaxResults": number,
   "NextToken": "string",
   "ResolverRuleAssociations": [
      {
         "Id": "string",
         "Name": "string",
         "ResolverRuleId": "string",
         "Status": "string",
         "StatusMessage": "string",
         "VPCId": "string"
      }
   ]
}
```

**Response Elements**

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**MaxResults** *(p. 507)*

The value that you specified for `MaxResults` in the request.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

**NextToken** *(p. 507)*

If more than `MaxResults` rule associations match the specified criteria, you can submit another `ListResolverRuleAssociation` request to get the next group of results. In the next request, specify the value of `NextToken` from the previous response.

Type: String

**ResolverRuleAssociations** *(p. 507)*

The associations that were created between Resolver rules and VPCs using the current AWS account, and that match the specified filters, if any.

Type: Array of `ResolverRuleAssociation` *(p. 707)* objects

**Errors**

For information about the errors that are common to all actions, see Common Errors *(p. 714).*

**InternalServiceErrorException**

We encountered an unknown error. Try again in a few minutes.

HTTP Status Code: 400

**InvalidNextTokenException**

The value that you specified for `NextToken` in a `List` request isn't valid.
HTTP Status Code: 400
**InvalidParameterException**
One or more parameters in this request are not valid.

HTTP Status Code: 400
**InvalidRequestException**
The request is invalid.

HTTP Status Code: 400
**ThrottlingException**
The request was throttled. Try again in a few minutes.

**Examples**

**ListResolverRuleAssociations Example**
This example illustrates one usage of ListResolverRuleAssociations.

**Sample Request**

```plaintext
POST / HTTP/1.1
Host: route53resolver.us-east-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 2
X-Amz-Target: Route53Resolver.ListResolverRuleAssociations
X-Amz-Date: 20181101T193011Z
User-Agent: aws-cli/1.16.45 Python/2.7.10 Darwin/16.7.0 botocore/1.12.35
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256
  Credential=AKIAJJ2SONIPEXAMPLE/20181101/us-east-2/route53resolver/
  aws4_request,
  SignedHeaders=content-type;host;x-amz-date;x-amz-target,
  Signature=[calculated-signature]
{
}
```

**Sample Response**

```
HTTP/1.1 200 OK
Date: Thu, 01 Nov 2018 19:30:11 GMT
Content-Type: application/x-amz-json-1.1
Content-Length: 277
x-amzn-RequestId: 5ad8f14f-64c0-4cb0-a4f9-e5c48example
Connection: keep-alive
{
  "MaxResults": 30,
  "ResolverRuleAssociations": [
  {
    "Id": "rslvr-rrassoc-97242eaf88example",
    "Name": "forward example.com for gamma VPC",
    "ResolverRuleId": "rslvr-rr-5328a0899aexample",
    "Status": "COMPLETE",
    "StatusMessage": "[Trace id: 1-5bdb53db-75f3852c8384ad30fexample] Creating the association."
  }
  ]
}
```
See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
ListResolverRules
Service: Amazon Route 53 Resolver

Lists the Resolver rules that were created using the current AWS account.

Request Syntax

```
{
    "Filters": [
        {
            "Name": "string",
            "Values": [ "string" ]
        }
    ],
    "MaxResults": number,
    "NextToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 712).

The request accepts the following data in JSON format.

**Filters (p. 510)**

An optional specification to return a subset of Resolver rules, such as all Resolver rules that are associated with the same Resolver endpoint.

*Note*

If you submit a second or subsequent ListResolverRules request and specify the NextToken parameter, you must use the same values for Filters, if any, as in the previous request.

Type: Array of Filter (p. 667) objects

Required: No

**MaxResults (p. 510)**

The maximum number of Resolver rules that you want to return in the response to a ListResolverRules request. If you don't specify a value for MaxResults, Resolver returns up to 100 Resolver rules.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

**NextToken (p. 510)**

For the first ListResolverRules request, omit this value.

If you have more than MaxResults Resolver rules, you can submit another ListResolverRules request to get the next group of Resolver rules. In the next request, specify the value of NextToken from the previous response.

Type: String

Required: No
Response Syntax

```json
{
  "MaxResults": number,
  "NextToken": "string",
  "ResolverRules": [ 
    {
      "Arn": "string",
      "CreationTime": "string",
      "CreatorRequestId": "string",
      "DomainName": "string",
      "Id": "string",
      "ModificationTime": "string",
      "Name": "string",
      "OwnerId": "string",
      "ResolverEndpointId": "string",
      "RuleType": "string",
      "ShareStatus": "string",
      "Status": "string",
      "StatusMessage": "string",
      "TargetIps": [ 
        {
          "Ip": "string",
          "Port": number
        }
      ]
    }
  ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**MaxResults (p. 511)**

The value that you specified for `MaxResults` in the request.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

**NextToken (p. 511)**

If more than `MaxResults` Resolver rules match the specified criteria, you can submit another `ListResolverRules` request to get the next group of results. In the next request, specify the value of `NextToken` from the previous response.

Type: String

**ResolverRules (p. 511)**

The Resolver rules that were created using the current AWS account and that match the specified filters, if any.

Type: Array of `ResolverRule` (p. 704) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).
InternalServiceErrorException

We encountered an unknown error. Try again in a few minutes.

HTTP Status Code: 400

InvalidNextTokenException

The value that you specified for NextToken in a List request isn't valid.

HTTP Status Code: 400

InvalidParameterException

One or more parameters in this request are not valid.

HTTP Status Code: 400

InvalidRequestException

The request is invalid.

HTTP Status Code: 400

ThrottlingException

The request was throttled. Try again in a few minutes.

HTTP Status Code: 400

Examples

ListResolverRules Example

This example illustrates one usage of ListResolverRules.

Sample Request

```
POST / HTTP/1.1
Host: route53resolver.us-east-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 2
X-Amz-Target: Route53Resolver.ListResolverRules
X-Amz-Date: 20181101T192600Z
User-Agent: aws-cli/1.16.45 Python/2.7.10 Darwin/16.7.0 botocore/1.12.35
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256
    Credential=AKIAJJ2SONIPEXAMPLE/20181101/us-east-2/route53resolver/
    aws4_request,
    SignedHeaders=content-type;host;x-amz-date;x-amz-target,
    Signature=[calculated-signature]
{}
```

Sample Response

```
HTTP/1.1 200 OK
Date: Thu, 01 Nov 2018 19:26:00 GMT
Content-Type: application/x-amz-json-1.1
Content-Length: 483
x-amzn-RequestId: cfa09aaa-6619-40d4-8791-064c6example
Connection: keep-alive
```
See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
ListTagsForResource
Service: Amazon Route 53 Resolver

Lists the tags that you associated with the specified resource.

Request Syntax

```
{
   "MaxResults": number,
   "NextToken": "string",
   "ResourceArn": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 712).

The request accepts the following data in JSON format.

MaxResults  (p. 514)

The maximum number of tags that you want to return in the response to a ListTagsForResource request. If you don't specify a value for MaxResults, Resolver returns up to 100 tags.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

NextToken  (p. 514)

For the first ListTagsForResource request, omit this value.

If you have more than MaxResults tags, you can submit another ListTagsForResource request to get the next group of tags for the resource. In the next request, specify the value of NextToken from the previous response.

Type: String

Required: No

ResourceArn  (p. 514)

The Amazon Resource Name (ARN) for the resource that you want to list tags for.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

Response Syntax

```
{
   "NextToken": "string",
   "Tags": [
```

514
Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**NextToken (p. 514)**

If more than MaxResults tags match the specified criteria, you can submit another ListTagsForResource request to get the next group of results. In the next request, specify the value of NextToken from the previous response.

Type: String

**Tags (p. 514)**

The tags that are associated with the resource that you specified in the ListTagsForResource request.

Type: Array of Tag (p. 710) objects

Array Members: Maximum number of 200 items.

Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).

**InternalServiceErrorException**

We encountered an unknown error. Try again in a few minutes.

HTTP Status Code: 400

**InvalidNextTokenException**

The value that you specified for NextToken in a List request isn't valid.

HTTP Status Code: 400

**InvalidParameterException**

One or more parameters in this request are not valid.

HTTP Status Code: 400

**InvalidRequestException**

The request is invalid.

HTTP Status Code: 400

**ResourceNotFoundException**

The specified resource doesn't exist.

HTTP Status Code: 400
ThrottlingException

The request was throttled. Try again in a few minutes.

HTTP Status Code: 400

Examples

ListTagsForResource Example

This example illustrates one usage of ListTagsForResource.

Sample Request

```
POST / HTTP/1.1
Host: route53resolver.us-east-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 134
X-Amz-Target: Route53Resolver.ListTagsForResource
X-Amz-Date: 20181101T185222Z
User-Agent: aws-cli/1.16.45 Python/2.7.10 Darwin/16.7.0 botocore/1.12.35
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256
aws4_request,
SignedHeaders=content-type;host;x-amz-date;x-amz-target,
Signature=[calculated-signature]

{
"MaxResults": 10,
}
```

Sample Response

```
HTTP/1.1 200 OK
Date: Thu, 01 Nov 2018 18:52:22 GMT
Content-Type: application/x-amz-json-1.1
Content-Length: 107
x-amzn-RequestId: bda80f7b-0f2c-41d1-9043-f36d3example
Connection: keep-alive

{
"Tags": [
{
"Key": "account-id",
"Value": "12345"
}
]
}
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
PutFirewallRuleGroupPolicy
Service: Amazon Route 53 Resolver

Attaches an AWS Identity and Access Management (AWS IAM) policy for sharing the rule group. You can use the policy to share the rule group using AWS Resource Access Manager (AWS RAM).

Request Syntax

```
{
  "Arn": "string",
  "FirewallRuleGroupPolicy": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 712).

The request accepts the following data in JSON format.

**Arn (p. 518)**

The ARN (Amazon Resource Name) for the rule group that you want to share.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

**FirewallRuleGroupPolicy (p. 518)**

The AWS Identity and Access Management (AWS IAM) policy to attach to the rule group.

Type: String

Length Constraints: Maximum length of 5000.

Required: Yes

Response Syntax

```
{
  "ReturnValue": boolean
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response. The following data is returned in JSON format by the service.

**ReturnValue (p. 518)**

Type: Boolean
Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).

AccessDeniedException

The current account doesn't have the IAM permissions required to perform the specified Resolver operation.

HTTP Status Code: 400

InternalServiceErrorException

We encountered an unknown error. Try again in a few minutes.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource doesn't exist.

HTTP Status Code: 400

ThrottlingException

The request was throttled. Try again in a few minutes.

HTTP Status Code: 400

ValidationException

You have provided an invalid command. Supported values are ADD, REMOVE, or REPLACE a domain.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
PutResolverQueryLogConfigPolicy

Service: Amazon Route 53 Resolver

Specifies an AWS account that you want to share a query logging configuration with, the query logging configuration that you want to share, and the operations that you want the account to be able to perform on the configuration.

Request Syntax

```json
{
    "Arn": "string",
    "ResolverQueryLogConfigPolicy": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 712).

The request accepts the following data in JSON format.

Arn (p. 520)

The Amazon Resource Name (ARN) of the account that you want to share rules with.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

ResolverQueryLogConfigPolicy (p. 520)

An AWS Identity and Access Management policy statement that lists the query logging configurations that you want to share with another AWS account and the operations that you want the account to be able to perform. You can specify the following operations in the Actions section of the statement:

- route53resolver:AssociateResolverQueryLogConfig
- route53resolver:DisassociateResolverQueryLogConfig
- route53resolver:ListResolverQueryLogConfigAssociations
- route53resolver:ListResolverQueryLogConfigs

In the Resource section of the statement, you specify the ARNs for the query logging configurations that you want to share with the account that you specified in Arn.

Type: String

Length Constraints: Maximum length of 5000.

Required: Yes

Response Syntax

```json
{
    "ReturnValue": boolean
}
```
Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

ReturnValue (p. 520)

Whether the PutResolverQueryLogConfigPolicy request was successful.

Type: Boolean

Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).

AccessDeniedException

The current account doesn't have the IAM permissions required to perform the specified Resolver operation.

HTTP Status Code: 400

InternalServerErrorException

We encountered an unknown error. Try again in a few minutes.

HTTP Status Code: 400

InvalidParameterException

One or more parameters in this request are not valid.

HTTP Status Code: 400

InvalidPolicyDocument

The specified Resolver rule policy is invalid.

HTTP Status Code: 400

InvalidRequestException

The request is invalid.

HTTP Status Code: 400

UnknownResourceException

The specified resource doesn't exist.

HTTP Status Code: 400

Examples

PutResolverQueryLogConfigPolicy Example

This example illustrates one usage of PutResolverQueryLogConfigPolicy.
Sample Request

POST / HTTP/1.1  
Host: route53resolver.us-east-2.amazonaws.com  
Accept-Encoding: identity  
Content-Length: 2  
X-Amz-Target: Route53Resolver.PutResolverQueryLogConfigPolicy  
X-Amz-Date: 20181101T192600Z  
User-Agent: aws-cli/1.16.45 Python/2.7.10 Darwin/16.7.0 botocore/1.12.35  
Content-Type: application/x-amz-json-1.1  
Authorization: AWS4-HMAC-SHA256  

credential=AKIAJJ2SONIPEXAMPLE/20181101/us-east-2/route53resolver/  
aws4_request,  
SignedHeaders=content-type;host;x-amz-date;x-amz-target,  
Signature=[calculated-signature]

{
  " Arn": "[ARN for the account that you want to share query logging operations and resources with]",  
  "ResolverQueryLogConfigPolicy": {
    "Version": "2012-10-17",  
    "Statement": [
      {
        "Effect": "Allow",  
        "Principal": {
          "AWS": ["123456789012"]
        },  
        "Action": ["route53resolver:AssociateResolverQueryLogConfig",  
                    "route53resolver:CreateResolverQueryLogConfig",  
                    "route53resolver:DeleteResolverQueryLogConfig",  
                    "route53resolver:DisassociateResolverQueryLogConfig",  
                    "route53resolver:ListResolverQueryLogConfigAssociations",  
                    "route53resolver:ListResolverQueryLogConfigs"  
                  ],  
        "Resource": [
        ]
      }
    ]
  }
}

Sample Response

HTTP/1.1 200 OK  
Date: Thu, 01 Nov 2018 19:26:00 GMT  
Content-Type: application/x-amz-json-1.1  
Content-Length: 27  
x-amzn-RequestId: cfa09aaa-6619-40d4-8791-064c6example  
Connection: keep-alive

{
  "ReturnValue": true
}

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:
• AWS Command Line Interface
• AWS SDK for .NET
• AWS SDK for C++
• AWS SDK for Go
• AWS SDK for Java V2
• AWS SDK for JavaScript
• AWS SDK for PHP V3
• AWS SDK for Python
• AWS SDK for Ruby V3
PutResolverRulePolicy
Service: Amazon Route 53 Resolver

Specifies an AWS rule that you want to share with another account, the account that you want to share
the rule with, and the operations that you want the account to be able to perform on the rule.

Request Syntax

```
{
   "Arn": "string",
   "ResolverRulePolicy": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common
Parameters (p. 712).

The request accepts the following data in JSON format.

Arn (p. 524)

The Amazon Resource Name (ARN) of the rule that you want to share with another account.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

ResolverRulePolicy (p. 524)

An AWS Identity and Access Management policy statement that lists the rules that you want to share
with another AWS account and the operations that you want the account to be able to perform. You
can specify the following operations in the Action section of the statement:

- route53resolver:GetResolverRule
- route53resolver:AssociateResolverRule
- route53resolver:DisassociateResolverRule
- route53resolver:ListResolverRules
- route53resolver:ListResolverRuleAssociations

In the Resource section of the statement, specify the ARN for the rule that you want to share with
another account. Specify the same ARN that you specified in Arn.

Type: String

Length Constraints: Maximum length of 5000.

Required: Yes

Response Syntax

```
{
   "ReturnValue": boolean
}
```
Response Elements

If the action is successful, the service sends back an HTTP 200 response. The following data is returned in JSON format by the service.

**ReturnValue (p. 524)**

  Whether the `PutResolverRulePolicy` request was successful.

  Type: Boolean

Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).

**InternalServiceErrorException**

  We encountered an unknown error. Try again in a few minutes.

  HTTP Status Code: 400

**InvalidParameterException**

  One or more parameters in this request are not valid.

  HTTP Status Code: 400

**InvalidPolicyDocument**

  The specified Resolver rule policy is invalid.

  HTTP Status Code: 400

**UnknownResourceException**

  The specified resource doesn't exist.

  HTTP Status Code: 400

Examples

**PutResolverRulePolicy Example**

This example illustrates one usage of `PutResolverRulePolicy`.

**Sample Request**

```
POST / HTTP/1.1
Host: route53resolver.us-east-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 2
X-Amz-Target: Route53Resolver.PutResolverRulePolicy
X-Amz-Date: 20181101T192600Z
User-Agent: aws-cli/1.16.45 Python/2.7.10 Darwin/16.7.0 botocore/1.12.35
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256
  Credential=AKIAJJ2SONIPEXAMPLE/20181101/us-east-2/route53resolver/
  aws4_request,
  SignedHeaders=content-type;host;x-amz-date;x-amz-target,
```
Signature=[calculated-signature]

```
{
  "ResolverRulePolicy": "{ "Version": "2012-10-17",
    "Statement": [ {
      "Effect": "Allow",
      "Principal": { "AWS": [ "123456789012" ] },
      "Action": [ "route53resolver:GetResolverRule",
                  "route53resolver:AssociateResolverRule",
                  "route53resolver:DisassociateResolverRule",
                  "route53resolver:ListResolverRules",
                  "route53resolver:ListResolverRuleAssociations"
                ],
                  ]
    } ]
  }
```

Sample Response

```
HTTP/1.1 200 OK
Date: Thu, 01 Nov 2018 19:26:00 GMT
Content-Type: application/x-amz-json-1.1
Content-Length: 27
x-amzn-RequestId: cfa09aaa-6619-40d4-8791-064c6example
Connection: keep-alive

{
  "ReturnValue": true
}
```

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
TagResource
Service: Amazon Route 53 Resolver

Adds one or more tags to a specified resource.

Request Syntax

```json
{
  "ResourceArn": "string",
  "Tags": [
    {
      "Key": "string",
      "Value": "string"
    }
  ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 712).

The request accepts the following data in JSON format.

ResourceArn (p. 527)

The Amazon Resource Name (ARN) for the resource that you want to add tags to. To get the ARN for a resource, use the applicable Get or List command:

- GetResolverEndpoint
- GetResolverRule
- GetResolverRuleAssociation
- ListResolverEndpoints
- ListResolverRuleAssociations
- ListResolverRules

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

Tags (p. 527)

The tags that you want to add to the specified resource.

Type: Array of Tag (p. 710) objects

Array Members: Maximum number of 200 items.

Required: Yes

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.
Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).

InternalServerErrorException

We encountered an unknown error. Try again in a few minutes.

HTTP Status Code: 400

InvalidParameterException

One or more parameters in this request are not valid.

HTTP Status Code: 400

InvalidRequestException

The request is invalid.

HTTP Status Code: 400

InvalidTagException

The specified tag is invalid.

HTTP Status Code: 400

LimitExceededException

The request caused one or more limits to be exceeded.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource doesn't exist.

HTTP Status Code: 400

ThrottlingException

The request was throttled. Try again in a few minutes.

HTTP Status Code: 400

Examples

TagResource Example

This example illustrates one usage of TagResource.

Sample Request

```plaintext
POST / HTTP/1.1
Host: route53resolver.us-east-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 217
X-Amz-Target: Route53Resolver.TagResource
X-Amz-Date: 20181101T185222Z
User-Agent: aws-cli/1.16.45 Python/2.7.10 Darwin/16.7.0 botocore/1.12.35
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256
```
Credential=AKIAJJ2SONIPEXAMPLE/20181101/us-east-2/route53resolver/
aws4_request,
   SignedHeaders=content-type;host;x-amz-date;x-amz-target,
   Signature=[calculated-signature]

{
   "Tags": [
      {
         "Key": "account-id",
         "Value": "12345"
      }
   ]
}

Sample Response

HTTP/1.1 200 OK
Date: Thu, 01 Nov 2018 18:52:22 GMT
Content-Type: application/x-amz-json-1.1
Content-Length: 2
x-amzn-RequestId: bda80f7b-0f2c-41d1-9043-f36d3example
Connection: keep-alive

{}

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
UntagResource

Service: Amazon Route 53 Resolver

Removes one or more tags from a specified resource.

Request Syntax

```json
{
  "ResourceArn": "string",
  "TagKeys": [ "string" ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 712).

The request accepts the following data in JSON format.

**ResourceArn (p. 530)**

The Amazon Resource Name (ARN) for the resource that you want to remove tags from. To get the ARN for a resource, use the applicable Get or List command:

- GetResolverEndpoint
- GetResolverRule
- GetResolverRuleAssociation
- ListResolverEndpoints
- ListResolverRuleAssociations
- ListResolverRules

  Type: String

  Length Constraints: Minimum length of 1. Maximum length of 255.

  Required: Yes

**TagKeys (p. 530)**

The tags that you want to remove to the specified resource.

  Type: Array of strings

  Array Members: Maximum number of 200 items.


  Required: Yes

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).
InternalServiceErrorException

We encountered an unknown error. Try again in a few minutes.
HTTP Status Code: 400

InvalidParameterException

One or more parameters in this request are not valid.
HTTP Status Code: 400

InvalidRequestException

The request is invalid.
HTTP Status Code: 400

ResourceNotFoundException

The specified resource doesn't exist.
HTTP Status Code: 400

ThrottlingException

The request was throttled. Try again in a few minutes.
HTTP Status Code: 400

Examples

UntagResource Example

This example illustrates one usage of UntagResource.

Sample Request

```
POST / HTTP/1.1
Host: route53resolver.us-east-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 165
X-Amz-Target: Route53Resolver.UntagResource
X-Amz-Date: 20181101T185222Z
User-Agent: aws-cli/1.16.45 Python/2.7.10 Darwin/16.7.0 botocore/1.12.35
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256
aws4_request,
SignedHeaders=content-type;host;x-amz-date;x-amz-target,
Signature=[calculated-signature]

{
  "TagKeys": [
    { "Key": "account-id"
  ]
}
```

Sample Response

```
HTTP/1.1 200 OK
```

531
See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
UpdateFirewallConfig
Service: Amazon Route 53 Resolver

Updates the configuration of the firewall behavior provided by DNS Firewall for a single VPC from Amazon Virtual Private Cloud (Amazon VPC).

Request Syntax

```
{
   "FirewallFailOpen": "string",
   "ResourceId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 712).

The request accepts the following data in JSON format.

**FirewallFailOpen (p. 533)**

Determines how Route 53 Resolver handles queries during failures, for example when all traffic that is sent to DNS Firewall fails to receive a reply.

- By default, fail open is disabled, which means the failure mode is closed. This approach favors security over availability. DNS Firewall blocks queries that it is unable to evaluate properly.
- If you enable this option, the failure mode is open. This approach favors availability over security. DNS Firewall allows queries to proceed if it is unable to properly evaluate them.

This behavior is only enforced for VPCs that have at least one DNS Firewall rule group association.

Type: String

Valid Values: ENABLED | DISABLED

Required: Yes

**ResourceId (p. 533)**

The ID of the VPC that the configuration is for.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Required: Yes

Response Syntax

```
{
   "FirewallConfig": {
      "FirewallFailOpen": "string",
      "Id": "string",
      "OwnerId": "string",
      "ResourceId": "string"
   }
}
```
Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

FirewallConfig (p. 533)
   Configuration of the firewall behavior provided by DNS Firewall for a single VPC.
   Type: FirewallConfig (p. 670) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).

AccessDeniedException
   The current account doesn't have the IAM permissions required to perform the specified Resolver operation.
   HTTP Status Code: 400

InternalServiceErrorException
   We encountered an unknown error. Try again in a few minutes.
   HTTP Status Code: 400

ResourceNotFoundException
   The specified resource doesn't exist.
   HTTP Status Code: 400

ThrottlingException
   The request was throttled. Try again in a few minutes.
   HTTP Status Code: 400

ValidationException
   You have provided an invalid command. Supported values are ADD, REMOVE, or REPLACE a domain.
   HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
• AWS SDK for Ruby V3
UpdateFirewallDomains
Service: Amazon Route 53 Resolver

Updates the firewall domain list from an array of domain specifications.

Request Syntax

```json
{
   "Domains": [ "string" ],
   "FirewallDomainListId": "string",
   "Operation": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 712).

The request accepts the following data in JSON format.

Domains  (p. 536)

A list of domains to use in the update operation.

**Important**

There is a limit of 1000 domains per request.

Each domain specification in your domain list must satisfy the following requirements:

- It can optionally start with * (asterisk).
- With the exception of the optional starting asterisk, it must only contain the following characters: A–Z, a–z, 0–9, – (hyphen).
- It must be from 1-255 characters in length.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

FirewallDomainListId  (p. 536)

The ID of the domain list whose domains you want to update.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Required: Yes

Operation  (p. 536)

What you want DNS Firewall to do with the domains that you are providing:

- **ADD** - Add the domains to the ones that are already in the domain list.
- **REMOVE** - Search the domain list for the domains and remove them from the list.
- **REPLACE** - Update the domain list to exactly match the list that you are providing.

Type: String

Valid Values: ADD | REMOVE | REPLACE
Required: Yes

**Response Syntax**

```json
{
    "Id": "string",
    "Name": "string",
    "Status": "string",
    "StatusMessage": "string"
}
```

**Response Elements**

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**Id (p. 537)**

The ID of the firewall domain list that DNS Firewall just updated.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

**Name (p. 537)**

The name of the domain list.

Type: String

Length Constraints: Maximum length of 64.

Pattern: `(?!^[0-9]+$)([a-zA-Z0-9\-\_\ ']+)`

**Status (p. 537)**

Status of the UpdateFirewallDomains request.

Type: String

Valid Values: COMPLETE | COMPLETE_IMPORT_FAILED | IMPORTING | DELETING | UPDATING

**StatusMessage (p. 537)**

Additional information about the status of the list, if available.

Type: String

Length Constraints: Maximum length of 255.

**Errors**

For information about the errors that are common to all actions, see Common Errors (p. 714).

**AccessDeniedException**

The current account doesn't have the IAM permissions required to perform the specified Resolver operation.
HTTP Status Code: 400

**ConflictException**

The requested state transition isn't valid. For example, you can't delete a firewall domain list if it is in
the process of being deleted, or you can't import domains into a domain list that is in the process of
being deleted.

HTTP Status Code: 400

**InternalServiceErrorException**

We encountered an unknown error. Try again in a few minutes.

HTTP Status Code: 400

**LimitExceededException**

The request caused one or more limits to be exceeded.

HTTP Status Code: 400

**ResourceNotFoundException**

The specified resource doesn't exist.

HTTP Status Code: 400

**ThrottlingException**

The request was throttled. Try again in a few minutes.

HTTP Status Code: 400

**ValidationException**

You have provided an invalid command. Supported values are ADD, REMOVE, or REPLACE a domain.

HTTP Status Code: 400

**See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
UpdateFirewallRule
Service: Amazon Route 53 Resolver

Updates the specified firewall rule.

Request Syntax

```json
{
    "Action": "string",
    "BlockOverrideDnsType": "string",
    "BlockOverrideDomain": "string",
    "BlockOverrideTtl": number,
    "BlockResponse": "string",
    "FirewallDomainListId": "string",
    "FirewallRuleGroupId": "string",
    "Name": "string",
    "Priority": number
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 712).

The request accepts the following data in JSON format.

**Action (p. 539)**

The action that DNS Firewall should take on a DNS query when it matches one of the domains in the rule's domain list:

- **ALLOW** - Permit the request to go through.
- **ALERT** - Permit the request to go through but send an alert to the logs.
- **BLOCK** - Disallow the request. This option requires additional details in the rule's BlockResponse.

Type: String

Valid Values: ALLOW | BLOCK | ALERT

Required: No

**BlockOverrideDnsType (p. 539)**

The DNS record's type. This determines the format of the record value that you provided in BlockOverrideDomain. Used for the rule action BLOCK with a BlockResponse setting of OVERRIDE.

Type: String

Valid Values: CNAME

Required: No

**BlockOverrideDomain (p. 539)**

The custom DNS record to send back in response to the query. Used for the rule action BLOCK with a BlockResponse setting of OVERRIDE.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.
**BlockOverrideTtl (p. 539)**

The recommended amount of time, in seconds, for the DNS resolver or web browser to cache the provided override record. Used for the rule action BLOCK with a BlockResponse setting of OVERRIDE.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 604800.

Required: No

**BlockResponse (p. 539)**

The way that you want DNS Firewall to block the request. Used for the rule action setting BLOCK.

- **NODATA** - Respond indicating that the query was successful, but no response is available for it.
- **NXDOMAIN** - Respond indicating that the domain name that's in the query doesn't exist.
- **OVERRIDE** - Provide a custom override in the response. This option requires custom handling details in the rule's BlockOverride* settings.

Type: String

Valid Values: NODATA | NXDOMAIN | OVERRIDE

Required: No

**FirewallDomainListId (p. 539)**

The ID of the domain list to use in the rule.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Required: Yes

**FirewallRuleGroupId (p. 539)**

The unique identifier of the firewall rule group for the rule.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Required: Yes

**Name (p. 539)**

The name of the rule.

Type: String

Length Constraints: Maximum length of 64.

Pattern: (?!^[0-9]+$)([a-zA-Z0-9\-_\.]+)

Required: No

**Priority (p. 539)**

The setting that determines the processing order of the rule in the rule group. DNS Firewall processes the rules in a rule group by order of priority, starting from the lowest setting.
You must specify a unique priority for each rule in a rule group. To make it easier to insert rules later, leave space between the numbers, for example, use 100, 200, and so on. You can change the priority setting for the rules in a rule group at any time.

Type: Integer
Required: No

Response Syntax

```
{  
  "FirewallRule": {  
    "Action": "string",  
    "BlockOverrideDnsType": "string",  
    "BlockOverrideDomain": "string",  
    "BlockOverrideTtl": number,  
    "BlockResponse": "string",  
    "CreationTime": "string",  
    "CreatorRequestId": "string",  
    "FirewallDomainListId": "string",  
    "FirewallRuleGroupId": "string",  
    " ModificationTime": "string",  
    "Name": "string",  
    "Priority": number  
  }  
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**FirewallRule (p. 541)**

The firewall rule that you just updated.

Type: **FirewallRule (p. 677)** object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).

**AccessDeniedException**

The current account doesn't have the IAM permissions required to perform the specified Resolver operation.

HTTP Status Code: 400

**ConflictException**

The requested state transition isn't valid. For example, you can't delete a firewall domain list if it is in the process of being deleted, or you can't import domains into a domain list that is in the process of being deleted.

HTTP Status Code: 400
InternalServiceErrorException

We encountered an unknown error. Try again in a few minutes.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource doesn't exist.

HTTP Status Code: 400

ThrottlingException

The request was throttled. Try again in a few minutes.

HTTP Status Code: 400

ValidationException

You have provided an invalid command. Supported values are ADD, REMOVE, or REPLACE a domain.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
UpdateFirewallRuleGroupAssociation

Service: Amazon Route 53 Resolver

Changes the association of a FirewallRuleGroup (p. 680) with a VPC. The association enables DNS filtering for the VPC.

Request Syntax

```
{
  "FirewallRuleGroupAssociationId": "string",
  "MutationProtection": "string",
  "Name": "string",
  "Priority": number
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 712).

The request accepts the following data in JSON format.

**FirewallRuleGroupAssociationId (p. 543)**

The identifier of the FirewallRuleGroupAssociation (p. 683).

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Required: Yes

**MutationProtection (p. 543)**

If enabled, this setting disallows modification or removal of the association, to help prevent against accidentally altering DNS firewall protections.

Type: String

Valid Values: ENABLED | DISABLED

Required: No

**Name (p. 543)**

The name of the rule group association.

Type: String

Length Constraints: Maximum length of 64.

Pattern: (?!^[0-9]+$)([a-zA-Z0-9\-_'])*

Required: No

**Priority (p. 543)**

The setting that determines the processing order of the rule group among the rule groups that you associate with the specified VPC. DNS Firewall filters VPC traffic starting from the rule group with the lowest numeric priority setting.
You must specify a unique priority for each rule group that you associate with a single VPC. To make it easier to insert rule groups later, leave space between the numbers, for example, use 100, 200, and so on. You can change the priority setting for a rule group association after you create it.

Type: Integer
Required: No

Response Syntax

```
{
   "FirewallRuleGroupAssociation": {
      "Arn": "string",
      "CreationTime": "string",
      "CreatorRequestId": "string",
      "FirewallRuleGroupId": "string",
      "Id": "string",
      "ManagedOwnerName": "string",
      "ModificationTime": "string",
      "MutationProtection": "string",
      "Name": "string",
      "Priority": number,
      "Status": "string",
      "StatusMessage": "string",
      "VpcId": "string"
   }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**FirewallRuleGroupAssociation (p. 544)**

The association that you just updated.

Type: **FirewallRuleGroupAssociation (p. 683)** object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).

**AccessDeniedException**

The current account doesn't have the IAM permissions required to perform the specified Resolver operation.

HTTP Status Code: 400

**ConflictException**

The requested state transition isn't valid. For example, you can't delete a firewall domain list if it is in the process of being deleted, or you can't import domains into a domain list that is in the process of being deleted.

HTTP Status Code: 400
InternalServiceErrorException

We encountered an unknown error. Try again in a few minutes.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource doesn't exist.

HTTP Status Code: 400

ThrottlingException

The request was throttled. Try again in a few minutes.

HTTP Status Code: 400

ValidationException

You have provided an invalid command. Supported values are ADD, REMOVE, or REPLACE a domain.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
UpdateResolverConfig

Service: Amazon Route 53 Resolver

Updates the behavior configuration of Amazon Route 53 Resolver behavior for a single VPC from Amazon Virtual Private Cloud.

Request Syntax

```json
{
    "AutodefinedReverseFlag": "string",
    "ResourceId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 712).

The request accepts the following data in JSON format.

AutodefinedReverseFlag (p. 546)

Indicates whether or not the Resolver will create autодеİned rules for reverse DNS lookups. This is enabled by default. Disabling this option will also affect EC2-Classic instances using ClassicLink. For more information, see ClassicLink in the Amazon EC2 guide.

Note

It can take some time for the status change to be completed.

Type: String

Valid Values: ENABLE | DISABLE

Required: Yes

ResourceId (p. 546)

Resource ID of the Amazon VPC that you want to update the Resolver configuration for.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Required: Yes

Response Syntax

```json
{
    "ResolverConfig": {
        "AutodefinedReverse": "string",
        "Id": "string",
        "OwnerId": "string",
        "ResourceId": "string"
    }
}
```
Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

ResolverConfig (p. 546)

- An array that contains settings for the specified Resolver configuration.
  Type: ResolverConfig (p. 692) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).

AccessDeniedException

- The current account doesn't have the IAM permissions required to perform the specified Resolver operation.
  HTTP Status Code: 400

InternalServiceErrorException

- We encountered an unknown error. Try again in a few minutes.
  HTTP Status Code: 400

InvalidParameterException

- One or more parameters in this request are not valid.
  HTTP Status Code: 400

InvalidRequestException

- The request is invalid.
  HTTP Status Code: 400

LimitExceededException

- The request caused one or more limits to be exceeded.
  HTTP Status Code: 400

ResourceNotFoundException

- The specified resource doesn't exist.
  HTTP Status Code: 400

ResourceUnavailableException

- The specified resource isn't available.
  HTTP Status Code: 400

ThrottlingException

- The request was throttled. Try again in a few minutes.
  HTTP Status Code: 400
See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
UpdateResolverDnssecConfig
Service: Amazon Route 53 Resolver

Updates an existing DNSSEC validation configuration. If there is no existing DNSSEC validation configuration, one is created.

Request Syntax

```
{
    "ResourceId": "string",
    "Validation": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 712).

The request accepts the following data in JSON format.

ResourceId (p. 549)

The ID of the virtual private cloud (VPC) that you're updating the DNSSEC validation status for.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Required: Yes

Validation (p. 549)

The new value that you are specifying for DNSSEC validation for the VPC. The value can be ENABLE or DISABLE. Be aware that it can take time for a validation status change to be completed.

Type: String

Valid Values: ENABLE | DISABLE

Required: Yes

Response Syntax

```
{
    "ResolverDNSSECConfig": {
        "Id": "string",
        "OwnerId": "string",
        "ResourceId": "string",
        "ValidationId": "string",
        "ValidationStatus": "string"
    }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.
ResolverDNSSECConfig (p. 549)

A complex type that contains settings for the specified DNSSEC configuration.

Type: ResolverDnssecConfig (p. 694) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).

AccessDeniedException

The current account doesn't have the IAM permissions required to perform the specified Resolver operation.

HTTP Status Code: 400

InternalServerErrorException

We encountered an unknown error. Try again in a few minutes.

HTTP Status Code: 400

InvalidParameterException

One or more parameters in this request are not valid.

HTTP Status Code: 400

InvalidRequestException

The request is invalid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource doesn't exist.

HTTP Status Code: 400

ThrottlingException

The request was throttled. Try again in a few minutes.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
UpdateResolverEndpoint
Service: Amazon Route 53 Resolver

Updates the name of an inbound or an outbound Resolver endpoint.

Request Syntax

```json
{
   "Name": "string",
   "ResolverEndpointId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 712).

The request accepts the following data in JSON format.

**Name (p. 552)**

The name of the Resolver endpoint that you want to update.

Type: String

Length Constraints: Maximum length of 64.

Pattern: (?!^[0-9]+$)(([a-zA-Z0-9\-_ ' ])+)

Required: No

**ResolverEndpointId (p. 552)**

The ID of the Resolver endpoint that you want to update.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Required: Yes

Response Syntax

```json
{
   "ResolverEndpoint": {
      "Arn": "string",
      "CreationTime": "string",
      "CreatorRequestId": "string",
      "Direction": "string",
      "HostVPCId": "string",
      "Id": "string",
      "IpAddressCount": number,
      "ModificationTime": "string",
      "Name": "string",
      "SecurityGroupIds": [ "string" ],
      "Status": "string",
      "StatusMessage": "string"
   }
}
```
Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

ResolverEndpoint (p. 552)

The response to an UpdateResolverEndpoint request.

Type: ResolverEndpoint (p. 696) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).

InternalServiceErrorException

We encountered an unknown error. Try again in a few minutes.

HTTP Status Code: 400

InvalidParameterException

One or more parameters in this request are not valid.

HTTP Status Code: 400

InvalidRequestException

The request is invalid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource doesn't exist.

HTTP Status Code: 400

ThrottlingException

The request was throttled. Try again in a few minutes.

HTTP Status Code: 400

Examples

UpdateResolverEndpoint Example

This example illustrates one usage of UpdateResolverEndpoint.

Sample Request

POST / HTTP/1.1
Host: route53resolver.us-east-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 2
X-Amz-Target: Route53Resolver.UpdateResolverEndpoint
X-Amz-Date: 20181101T192600Z
User-Agent: aws-cli/1.16.45 Python/2.7.10 Darwin/16.7.0 botocore/1.12.35
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256
  Credential=AKIAJJ2SONIPEXAMPLE/20181101/us-east-2/route53resolver/
  aws4_request,
  SignedHeaders=content-type;host;x-amz-date;x-amz-target,
  Signature=[calculated-signature]
{
  "Name":"MyInbound",
  "ResolverEndpointId": "rslvr-in-60b9fd8fdexample"
}

Sample Response

HTTP/1.1 200 OK
Date: Thu, 01 Nov 2018 18:52:22 GMT
Content-Type: application/x-amz-json-1.1
Content-Length: 479
x-amzn-RequestId: bda80f7b-0f2c-41d1-9043-f36d3example
Connection: keep-alive
{
  "ResolverEndpoint":{
    "CreationTime":"2018-11-01T18:44:50.372Z",
    "CreatorRequestId":"1234",
    "Direction":"INBOUND",
    "HostVPCId":"vpc-03cf94c75example",
    "Id":"rslvr-in-60b9fd8fdexample",
    "IpAddressCount":3,
    "Name":"MyInbound",
    "SecurityGroupIds":[
      "sg-020a3554aexample"
    ],
    "Status":"UPDATING",
    "StatusMessage":"Updating the Resolver Endpoint"
  }
}

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
UpdateResolverRule
Service: Amazon Route 53 Resolver

Updates settings for a specified Resolver rule. ResolverRuleId is required, and all other parameters are optional. If you don’t specify a parameter, it retains its current value.

Request Syntax

```json
{
  "Config": {
    "Name": "string",
    "ResolverEndpointId": "string",
    "TargetIps": [
      {
        "Ip": "string",
        "Port": number
      }
    ],
    "ResolverRuleId": "string"
  }
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 712).

The request accepts the following data in JSON format.

**Config (p. 555)**

The new settings for the Resolver rule.

Type: ResolverRuleConfig (p. 709) object

Required: Yes

**ResolverRuleId (p. 555)**

The ID of the Resolver rule that you want to update.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Required: Yes

Response Syntax

```json
{
  "ResolverRule": {
    "Arn": "string",
    "CreationTime": "string",
    "CreatorRequestId": "string",
    "DomainName": "string",
    "Id": "string",
    "ModificationTime": "string",
    "Name": "string",
  }
}
```
"OwnerId": "string",
"ResolverEndpointId": "string",
"RuleType": "string",
"ShareStatus": "string",
"Status": "string",
"StatusMessage": "string",
"TargetIps": [
  {
    "Ip": "string",
    "Port": number
  }
]
}

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

ResolverRule (p. 555)

The response to an UpdateResolverRule request.

Type: ResolverRule (p. 704) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 714).

InternalServiceErrorException

We encountered an unknown error. Try again in a few minutes.

HTTP Status Code: 400

InvalidParameterException

One or more parameters in this request are not valid.

HTTP Status Code: 400

InvalidRequestException

The request is invalid.

HTTP Status Code: 400

LimitExceededException

The request caused one or more limits to be exceeded.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource doesn't exist.

HTTP Status Code: 400

ResourceUnavailableException

The specified resource isn't available.
HTTP Status Code: 400

**ThrottlingException**

The request was throttled. Try again in a few minutes.

HTTP Status Code: 400

Examples

**UpdateResolverRule Example**

This example illustrates one usage of UpdateResolverRule.

**Sample Request**

```plaintext
POST / HTTP/1.1
Host: route53resolver.us-east-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 170
X-Amz-Target: Route53Resolver.UpdateResolverRule
X-Amz-Date: 20181101T192331Z
User-Agent: aws-cli/1.16.45 Python/2.7.10 Darwin/16.7.0 botocore/1.12.35
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256
aws4_request,
SignedHeaders=content-type;host;x-amz-date;x-amz-target,
Signature=[calculated-signature]
{
  "Config": {
    "Name": "MyRule",
    "ResolverEndpointId": "rslvr-out-fdc049932dexample",
    "TargetIps": [
      {
        "Ip": "192.0.2.6"
      }
    ],
    "ResolverRuleId": "rslvr-rr-5328a0899aexample"
  }
}
```

**Sample Response**

```plaintext
HTTP/1.1 200 OK
Date: Thu, 01 Nov 2018 19:23:31 GMT
Content-Type: application/x-amz-json-1.1
Content-Length: 464
x-amzn-RequestId: f51a7bc8-e9c6-4399-b408-086ecexample
Connection: keep-alive
{
  "ResolverRule": {
    "CreatorRequestId": "999",
    "DomainName": "example.net",
    "Id": "rslvr-rr-5328a0899aexample",
    "Name": "MyRule",
    "OwnerId": "123456789012",
    "ResolverEndpointId": "rslvr-out-fdc049932dexample",
```
"RuleType": "FORWARD",
"ShareStatus": "NOT_SHARED",
"Status": "COMPLETE",
"StatusMessage": "[Trace id: 1-5bdb52b3-68082ffcc336d18153example] Successfully updated Resolver Rule.",
"TargetIps": [
  {
    "Ip": "192.0.2.6",
    "Port": 53
  }
]
}

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
Making API Requests

Topics

- Making API Requests for Hosted Zones, Resource Record Sets, Health Checks, and Cost Allocation Tags (p. 559)
- Making API Requests for Domain Registration and for Route 53 Resolver (p. 563)
- Signing Amazon Route 53 API Requests (p. 565)

This section describes how to make requests to the two Route 53 APIs:

- A REST API for hosted zones, resource record sets, health checks, and cost allocation tags
- RPC APIs for domain registration and for Route 53 Resolver

For each API, we describe the components of requests and the content of responses. We also describe how to authenticate requests.

Making API Requests for Hosted Zones, Resource Record Sets, Health Checks, and Cost Allocation Tags

Topics

- REST Requests (p. 560)
- REST Responses (p. 562)

This section describes how to make REST requests to the Amazon Route 53 API for creating and managing your hosted zones, resource record sets, health checks, and cost allocation tags. We'll acquaint you with the components of requests, the content of responses, and how to authenticate requests.

Note
To register and manage domains, use the Route 53 API for domain registration. For more information, see Making API Requests for Domain Registration and for Route 53 Resolver (p. 563).
REST Requests

Amazon Route 53 REST requests are HTTPS requests, as defined by RFC 2616 (for more information, go to http://www.ietf.org/rfc/rfc2616.txt). This section describes the structure of an Route 53 REST request.

A typical REST action consists of sending a single HTTPS request to Route 53, and waiting for the response. Like any HTTP request, a REST request to Route 53 contains a request method, a URI, request headers, and sometimes a query string or request body. The response contains an HTTP status code, response headers, and sometimes a response body.

Request URI

The request URI always starts with a forward slash and then the version of the Route 53 API you use (for example, 2013-04-01). The remainder of the URI indicates the particular resource you want to act on. For example, following is the URI you use when creating a new hosted zone. (For more information, see CreateHostedZone (p. 43).)

```
/2013-04-01/hostedzone
```

About the Request Time Stamp

You must provide the time stamp in either the HTTP Date header or the AWS x-amz-date header (some HTTP client libraries don't let you set the Date header). When an x-amz-date header is present, the system ignores any Date header when authenticating the request.

The time stamp must be within 5 minutes of the AWS system time when the request is received. If it isn't, the request fails with the RequestExpired error code. This is to prevent replays of your requests by an adversary.

The date must be specified in ISO 8601 format, for example, 2016-03-03T19:20:25.177Z. For more information about ISO 8601 format, see the Wikipedia article ISO 8601.

Request Body

Many of the Route 53 API actions require you to include XML in the body of the request. The XML conforms to the Route 53 schema.

Example Example Request

The following example request uses a simple XML statement to create a hosted zone named example.com with the reference identifier, myUniqueIdentifier.

```
POST /2013-04-01/hostedzone HTTP/1.1
host:route53.amazonaws.com
x-amz-date:date and time of the request
authorization:AWS4-HMAC-SHA256
      Credential=AKIAIOSFODNN7EXAMPLE/d[440]
      /us-east-1/route53domains/aws4_request,
      SignedHeaders=content-length;content-type;host;user-agent;x-amz-date;x-amz-target,
      Signature=computed signature
[Other required headers]
<?xml version="1.0" encoding="UTF-8"?>
```
<CreateHostedZoneRequest xmlns="https://route53.amazonaws.com/doc/2013-04-01/">
  <Name>example.com.</Name>
  <CallerReference>myUniqueIdentifier</CallerReference>
  <HostedZoneConfig>
    <Comment>This is my hosted zone.</Comment>
  </HostedZoneConfig>
</CreateHostedZoneRequest>
REST Responses

Amazon Route 53 responses are just standard HTTP responses. Some of the Route 53 actions return special information specific to Route 53 in the form of an HTTP header or XML in the body of the response. The specific details are covered in the API reference topic for the particular action.

Each response contains a request ID that you can use if you need to troubleshoot a request with Route 53. The ID is contained in an HTTP header called x-amz-request-id. An example of a request ID is 647cd254-e0d1-44a9-af61-1d6d86ea6b77.

The following example shows a response to a request to create a hosted zone. The CreatedHostedZoneResponse element contains information about the hosted zone including a Route 53 identifier, the domain that the hosted zone is associated with, and a reference description and comment. The change request itself is associated with a submittal time, an identifier and a status, shown as PENDING. Most importantly, the CreatedHostedZoneResponse includes the Route 53 name servers assigned to the hosted zone; this information is contained in the DelegationSet element.

Example Example Response

```
HTTP/1.1 201 Created
x-amz-request-id: request_id

<?xml version="1.0" encoding="UTF-8"?>
  <HostedZone>
    <Id>/hostedzone/Z1PA6795UKMFR9</Id>
    <Name>example.com.</Name>
    <CallerReference>myUniqueIdentifier</CallerReference>
    <Config>
      <Comment>This is my first hosted zone.</Comment>
    </Config>
  </HostedZone>
  <ChangeInfo>
    <Id>/change/C1PA6795UKMFR9</Id>
    <Status>PENDING</Status>
    <SubmittedAt>2010-09-10T01:36:41.958Z</SubmittedAt>
  </ChangeInfo>
  <DelegationSet>
    <NameServers>
      <NameServer>ns-2048.awsdns-64.com</NameServer>
      <NameServer>ns-2049.awsdns-65.net</NameServer>
      <NameServer>ns-2050.awsdns-66.org</NameServer>
      <NameServer>ns-2051.awsdns-67.co.uk</NameServer>
    </NameServers>
  </DelegationSet>
</CreateHostedZoneResponse>
```

Error Responses

If a REST request results in an error, the HTTP response has:

- An XML error document as the response body
- Content-Type header: text/xml
- An appropriate 3xx, 4xx, or 5xx HTTP status code

Following is an example of the XML error document in a REST error response.

```xml
<?xml version="1.0" encoding="UTF-8"?>
  <Message>INVALID ZONE NAME</Message>
  <Code>InvalidZonename</Code>
  <Message>Invalid zone name</Message>
</ErrorResponse>
```
Making API Requests for Domain Registration and for Route 53 Resolver

Topics

- RPC Requests (p. 564)
- RPC Responses (p. 565)

This section describes how to make RPC requests to two Amazon Route 53 APIs. You use one to register and manage domains, and you use the other to manage Route 53 Resolver. We'll acquaint you with the components of requests, the content of responses, and how to authenticate requests.

Note

To create and manage hosted zones, resource record sets, health checks, and cost allocation tags, use the applicable Route 53 API. For more information, see Making API Requests for Hosted Zones, Resource Record Sets, Health Checks, and Cost Allocation Tags (p. 559).
RPC Requests

Amazon Route 53 RPC requests are HTTPS requests, as defined by RFC 2616 (for more information, go to http://www.ietf.org/rfc/rfc2616.txt). This section describes the structure of an Route 53 RPC request.

For an RPC action, you send an HTTPS request to Route 53 and wait for the response. An RPC request to Route 53 contains request headers and sometimes a query string or request body. The response contains an HTTP status code, response headers, and sometimes a response body.

About the Request Time Stamp

You must provide the time stamp in either the HTTP Date header or the AWS x-amz-date header (some HTTP client libraries don’t let you set the Date header). When an x-amz-date header is present, the system ignores any Date header when authenticating the request.

The time stamp must be within 5 minutes of the AWS system time when the request is received. If it isn’t, the request fails with the RequestExpired error code. This helps prevent someone else from resubmitting a request.

The date must be specified in ISO 8601 format, for example, 2016-03-03T19:20:25.177Z. For more information, see the Wikipedia article ISO 8601.

Request Body

Many Route 53 API actions require you to include JSON in the body of the request. The JSON conforms to the Route 53 schema for either domain registration or Route 53 Resolver.

Example Example Request

The following example request uses a simple JSON statement to determine whether the domain name example.com is available.

The JSON elements in your request must appear in the order listed.

```
POST / HTTP/1.1
host:route53domains.us-east-1.amazonaws.com
x-amz-date:date and time of the request
authorization:AWS4-HMAC-SHA256
    Credential=AKIAIOSFODNN7EXAMPLE/date of the request in yyyymmmdd format/us-
east-1/route53domains/aws4_request,
    SignedHeaders=content-length;content-type;host;user-agent;x-amz-date;x-amz-
target,
    Signature=computed signature
x-amz-target:Route53Domains_v20140515.CheckDomainAvailability
user-agent:information about the source of the request
content-type:application/x-amz-json- 1.1
content-length:length
connections:Keep-Alive
{
    "DomainName":"example.com"
}
```
**RPC Responses**

Amazon Route 53 responses are just standard HTTP responses. Some of the Route 53 actions return special information specific to Route 53 in the form of an HTTP header or JSON in the body of the response. The specific details are covered in the documentation for the action.

Each response contains a request ID that you can use if you need to troubleshoot a request with Route 53. The ID is contained in an HTTP header called `x-amz-request-id`. An example of a request ID is `647cd254-e0d1-44a9-af61-1d6d86ea6b77`.

The following example shows a response to a request to check the availability of a specified domain name. The `Availability` element indicates whether the domain that you specified in the request is available.

**Example Example Response**

```
HTTP/1.1 200
Content-Length: number of characters in the JSON string
{
  "Availability":"308c56712-faa4-40fe-94c8-b423069de3f6"
}
```

**Error Responses**

If an RPC request results in an error, the HTTP response has:

- An error document in JSON format as the response body
- Content-Type header: text/xml
- An appropriate 3xx, 4xx, or 5xx HTTP status code

Following is an example of the JSON error document in an RPC error response.

```
{
  "__type": "com.amazon.coral.service#UnrecognizedClientException",
  "message": "The security token included in the request is invalid."
}
```

**Signing Amazon Route 53 API Requests**

Requests must be signed using an access key ID and a secret access key. We strongly recommend that you do not use your AWS account credentials for everyday work with Route 53. You can use the credentials for an IAM user or you can use AWS STS to generate temporary security credentials.

To sign your API requests, we recommend that you use AWS Signature Version 4. For more information, see [Signature Version 4 Signing Process](#) in the [Amazon Web Services General Reference](#).

In addition, you might also be interested in the following topics:

- **AWS Security Credentials** – Provides general information about the types of credentials used for accessing AWS.
- **IAM Best Practices** – Presents a list of suggestions for using IAM service to help secure your AWS resources.
- **Temporary Security Credentials** – Describes how to create and use temporary security credentials.
Traffic Policy Document Format

When you create a traffic policy programatically by using the Amazon Route 53 API, one of the AWS SDKs, the AWS CLI, or AWS Tools for Windows PowerShell, you specify the definition of the traffic policy in a document element in JSON format.

For more information about traffic policies, see Using Traffic Flow to Route DNS Traffic in the Amazon Route 53 Developer Guide.

Topics
• Basic Syntax (p. 566)
• Syntax for Endpoint Definitions (p. 567)
• Syntax for Rule Definitions (p. 568)
• Examples (p. 574)

Basic Syntax

Here is the basic syntax for a traffic policy document:

```
{
  "AWSPolicyFormatVersion": "2015-10-01",
  "RecordType": "DNS type for all resource record sets created by this traffic policy",
  "StartEndpoint | StartRule": "ID that you assign to an endpoint or rule",
  "Endpoints": {
    "Endpoint ID that you assign": {
      "Endpoint definition"
    },
    ...  
  },
  "Rules": {
    "Rule ID that you assign": {
      "Rule definition"
    },
    ...
  }
}
```

The basic syntax for a traffic policy document contains the following objects:

**AWSPolicyFormatVersion**

The version of the traffic policy format, currently 2015-10-01.

**RecordType**

The DNS type of all of the resource record sets that Amazon Route 53 will create based on this traffic policy. If you want to route traffic to the following AWS resources, choose the applicable value:

- **CloudFront distribution** – Choose A: IP address in IPv4 format.
- **ELB load balancer** – Choose either A: IP address in IPv4 format or AAAA: IP address in IPv6 format.
- **Amazon S3 bucket configured as a website endpoint** – Choose A: IP address in IPv4 format.
If you want to route traffic to other resources, choose the applicable type for the resource. For example, if you want to route traffic to mail servers, specify MX. For the list of DNS types that Route 53 supports, see Supported DNS Resource Record Types in the Amazon Route 53 Developer Guide.

**StartEndpoint | StartRule**

Whether you want the starting point for the traffic policy to be an endpoint or a rule, and the ID that you assigned to the endpoint or rule elsewhere in the traffic policy document.

**Endpoints**

The definitions of the endpoints that you want to use in this traffic policy. For more information, see Syntax for Endpoint Definitions (p. 567).

**Rules**

The definitions of the rules that you want to use in this traffic policy. For more information, see Syntax for Rule Definitions (p. 568).

## Syntax for Endpoint Definitions

Here is the syntax for the endpoint definitions that you specify in a traffic policy document:

```json
{
  "Type": value | cloudfront | elastic-load-balancer | s3-website,
  "Region": "AWS region that you created your Amazon S3 bucket in"
  "Value": "value applicable to the type of endpoint"
}
```

The syntax for an endpoint definition contains the following objects:

**Type**

Specify the applicable value:

`value`

To route traffic to a resource other than a CloudFront distribution, an ELB load balancer, or an Amazon S3 bucket that is configured as a website endpoint, specify value for Type.

`cloudfront`

To route traffic to a CloudFront distribution, specify `cloudfront` for Type.

`elastic-load-balancer`

To route traffic to an ELB load balancer, specify `elastic-load-balancer` for Type.

`s3-website`

To route traffic to an Amazon S3 bucket that is configured as a website endpoint, specify `s3-website` for Type.

**Region**

To route traffic to an Amazon S3 bucket that is configured as a website endpoint, specify the region in which you created the bucket for Region. For any other resource, omit Region.

**Value**

Specify the applicable value:
value

To route traffic to a resource other than a CloudFront distribution, an ELB load balancer, or an Amazon S3 bucket that is configured as a website endpoint, specify the value that corresponds with the value that you specified for RecordType. For example, if you specified A for RecordType, specify an IP address in IPv4 format for Value.

cloudfront

If you specified cloudfront for Type, specify the domain name that CloudFront assigned to your CloudFront distribution when you created it, for example, d111111abcdef8.cloudfront.net.

elastic-load-balancer

If you specified elastic-load-balancer for Type, specify the DNS name for your load balancer. Use the value that begins with dualstack, for example, dualstack.my-load-balancer-1234567890.us-west-2.elb.amazonaws.com.

s3-website

If you specified s3-website for Type, specify the name of your Amazon S3 bucket, for example, example.com.s3-website-us-east-1.amazonaws.com.

Important

When you create a traffic policy instance based on this traffic policy, the bucket that you specify here must match the domain name (such as www.example.com) that you specify for Name in the CreateTrafficPolicyInstance (p. 68) request. If Value and Name don't match, Amazon S3 won't respond to DNS queries for the domain name.

Syntax for Rule Definitions

There are different syntaxes for the rule definitions that you specify in a traffic policy document, depending on the type of routing policy that you want to use: failover, geolocation, geoproximity, latency, multivalue answer, or weighted.

Topics

- Failover Rules (p. 568)
- Geolocation Rules (p. 569)
- Geoproximity Rules (p. 570)
- Latency Rules (p. 572)
- Multivalue Answer Rules (p. 573)
- Weighted Rules (p. 573)

Failover Rules

For more information, see Configuring DNS Failover in the Amazon Route 53 Developer Guide.

```json
{
  "RuleType": "failover",
  "Primary": {
    "EndpointReference | RuleReference": "ID that you assigned to the rule or endpoint that this rule routes traffic to",
    "EvaluateTargetHealth": "true" | "false",
    "HealthCheck": "optional health check ID"
  },
} 568```
When you define a failover rule, you specify the following objects:

**RuleType**

Specify failover.

**Primary | Secondary**

For the **Primary** object, specify settings for the rule or endpoint that you want to route traffic to whenever the corresponding resources are available.

For the **Secondary** object, specify settings for the rule or endpoint that you want to route traffic to whenever the primary resources are not available.

**EndpointReference | RuleReference**

Whether you want to route traffic to an endpoint or to another rule, and the ID that you assigned to the endpoint or rule elsewhere in the traffic policy document.

**EvaluateTargetHealth**

A Boolean that indicates whether you want Amazon Route 53 to evaluate the health of the endpoint and route traffic only to healthy endpoints. For more information, see `EvaluateTargetHealth` in the documentation about `ChangeResourceRecordSets` (p. 22).

**HealthCheck**

If you want to associate a health check with the endpoint or rule, specify the ID of the health check. For more information, see `HealthCheckId` in the documentation about `ChangeResourceRecordSets` (p. 22).

### Geolocation Rules

When you add a geolocation rule, you configure your traffic policy to route your traffic based on the geographic location of your users. For more information, see `Geolocation Routing` in the Amazon Route 53 Developer Guide.

```json
{
   "RuleType": "geo",
   "Locations": [
      {
         "EndpointReference | RuleReference": "ID that you assigned to the rule or endpoint that this rule routes traffic to",
         "IsDefault": "true" | "false",
         "Continent": "continent name",
         "Country": "country name",
         "Subdivision": "subdivision name",
         "EvaluateTargetHealth": "true" | "false",
         "HealthCheck": "optional health check ID"
      },
      ...
   ]
}
```
When you define a geolocation rule, you specify the following objects:

**RuleType**

Specify `geo`.

**Locations**

Specify one set of values (`EndpointReference | RuleReference`, `IsDefault`, `Continent`, `Country`, `Subdivision`, `EvaluateTargetHealth`, and `HealthCheck`) for each of the geographic locations that you want to route traffic to.

**EndpointReference | RuleReference**

Whether you want to route traffic to an endpoint or to another rule, and the ID that you assigned to the endpoint or rule elsewhere in the traffic policy document.

**IsDefault**

A Boolean that indicates whether this set of values represents the default location. For more information about `IsDefault`, see the explanation about specifying `*` as the value for the `CountryCode` element when you create or update a resource record set in the description for `GeoLocation`.

**Continent, Country, Subdivision**

Values that indicate the geographic location of users whose traffic you want to route to a rule or endpoint. For more information, see the following element descriptions in the documentation about `ChangeResourceRecordSets (p. 22):

- GeoLocation
- ContinentCode
- CountryCode
- SubdivisionCode

**EvaluateTargetHealth**

A Boolean that indicates whether you want Amazon Route 53 to evaluate the health of the endpoint and route traffic only to healthy endpoints. For more information, see `EvaluateTargetHealth` in the documentation about `ChangeResourceRecordSets (p. 22).

**HealthCheck**

If you want to associate a health check with the endpoint or rule, specify the ID of the health check. For more information, see `HealthCheckId` in the documentation about `ChangeResourceRecordSets (p. 22).

### Geoproximity Rules

When you add a geoproximity rule, you configure Amazon Route 53 to route traffic to your resources based on the geographic location of your resources. You can also optionally choose to route more traffic or less to a given endpoint or rule by specifying a bias. You use a bias to expand or shrink the size of the geographic region from which traffic is routed to an endpoint or rule. For more information, see `Geoproximity Routing` in the *Amazon Route 53 Developer Guide*.

```json
{
    "RuleType": "geoproximity",
    "GeoproximityLocations": [
        {
            "EndpointReference | RuleReference": "ID that you assigned to the endpoint or rule that this rule routes traffic to",
            "IsDefault": false,
            "Continent": "US",
            "Country": "US",
            "Subdivision": "CA",
            "EvaluateTargetHealth": true,
            "HealthCheck": "id"
        }
    ]
}
```
When you define a geoproximity rule, you specify the following objects:

**RuleType**

Specify geoproximity.

**GeoproximityLocations**

Specify one set of values for each resource that you want to route traffic to. You can specify either an AWS Region or the latitude and longitude of a geographic location.

**EndpointReference | RuleReference**

Whether you want to route traffic to an endpoint or to another rule, and the ID that you assigned to the endpoint or rule elsewhere in the traffic policy document.

**Region**

If your endpoint is an AWS resource, specify the AWS Region that you created the resource in. Use the following format:

```
aws:route53:region-code
```

For a list of valid region codes, see Region in the documentation about ChangeResourceRecordSets (p. 22).

**Latitude and Longitude**

If your endpoint is not an AWS resource, enter the latitude and longitude of the location of the resource. Note the following:

- **Latitude** represents the location south (negative) or north (positive) of the equator. Valid values are -90 degrees to 90 degrees.
- **Longitude** represents the location west (negative) or east (positive) of the prime meridian. Valid values are -180 degrees to 180 degrees.
- You can get latitude and longitude from some online mapping applications. For example, in Google Maps, the URL for a location specifies the latitude and longitude:
  
  https://www.google.com/maps/@47.6086111,-122.3409953,20z

- You can enter up to two decimals of precision, for example, 47.61. If you specify a value with greater precision, Route 53 returns an error. For latitude and for longitude at the equator, 0.01 degree is approximately 0.69 miles.
Bias

Specify a value for **Bias** if you want to route more traffic to an endpoint from nearby endpoints (positive values) or route less traffic to an endpoint (negative values). The range of valid values is -99 to 99; the default value is 0.

**Important**
The value of **Bias** is relative, based on the location of other resources, rather than absolute, based on distance. As a result, the effect of a change is difficult to predict. For example, depending on where your resources are, changing the bias from 10 to 15 can mean the difference between adding or subtracting a significant amount of traffic from the New York City metropolitan area. We recommend that you change the bias in small increments and evaluate the results, and then make additional changes if appropriate.

EvaluateTargetHealth

A Boolean that indicates whether you want Route 53 to evaluate the health of the endpoint and route traffic only to healthy endpoints. For more information, see **EvaluateTargetHealth** in the documentation about  ChangeResourceRecordSets (p. 22).

HealthCheck

If you want to associate a health check with the endpoint or rule, specify the ID of the health check. For more information, see **HealthCheckId** in the documentation about  ChangeResourceRecordSets (p. 22).

Latency Rules

When you add a latency rule, you configure your traffic policy to route your traffic based on the latency (the time delay) between your users and the AWS regions where you've created AWS resources such as ELB load balancers and Amazon S3 buckets. For more information, see **Latency Routing** in the Amazon Route 53 Developer Guide.

```json
{
    "RuleType": "latency",
    "Regions": [
        {
            "EndpointReference | RuleReference": "ID that you assigned to the rule or endpoint that this rule routes traffic to",
            "Region": "AWS region that you want to route traffic to",
            "EvaluateTargetHealth": "true" | "false",
            "HealthCheck": "optional health check ID"
        },
        ...
    ]
}
```

When you define a latency rule, you specify the following objects:

**RuleType**

Specify latency.

**Regions**

Specify one set of values (EndpointReference | RuleReference, Region, EvaluateTargetHealth, and HealthCheck) for each of the regions that you want to route traffic to.

**EndpointReference | RuleReference**

Whether you want to route traffic to an endpoint or to another rule, and the ID that you assigned to the endpoint or rule elsewhere in the traffic policy document.
Multivalue Answer Rules

When you add a multivalue answer rule, you configure your traffic policy to route traffic approximately randomly to your healthy resources. Amazon Route 53 responds to DNS queries with up to eight healthy records; if you have eight or fewer healthy records, Route 53 responds to all DNS queries with all the healthy records. For more information, see MultiValueAnswer.

```
{
  "RuleType": "multivalue",
  "Items": [
    {
      "EndpointReference": "ID that you assigned to the endpoint that this rule routes traffic to",
      "HealthCheck": "optional health check ID"
    },
    ...
  ]
}
```

When you define a multivalue answer rule, you specify the following objects:

**RuleType**
- Specify multivalue.

**Items**
- Specify one set of values (EndpointReference and HealthCheck) for each of the multivalue answer rules or endpoints that you want to route traffic to.

**EndpointReference**
- The ID that you assigned to the endpoint elsewhere in the traffic policy document.

**HealthCheck**
- If you want to associate a health check with the endpoint, specify the ID of the health check. For more information, see HealthCheckId.

Weighted Rules

When you add a weighted rule, you configure your traffic policy to route traffic based on proportions that you specify. For example, you might specify weights of 4, 5, 5, and 6 (sum=20). The result is that
4/20ths of your traffic, on average, is routed to the first endpoint or rule, 5/20ths is routed both to the second and third endpoints or rules, and 6/20ths is routed to the last endpoint or rule. For more information, see Weighted Routing in the Amazon Route 53 Developer Guide.

```
{
  "RuleType": "weighted",
  "Items": [
    {
      "EndpointReference | RuleReference": "ID that you assigned to the rule or endpoint that this rule routes traffic to",
      "Weight": "value between 0 and 255",
      "EvaluateTargetHealth": "true" | "false",
      "HealthCheck": "optional health check ID"
    },
    ...
  ]
}
```

When you define a weighted rule, you specify the following objects:

**RuleType**

Specify weighted.

**Items**

Specify one set of values (EndpointReference | RuleReference, Weight, EvaluateTargetHealth, and HealthCheck) for each of the weighted rules or endpoints that you want to route traffic to.

**EndpointReference | RuleReference**

Whether you want to route traffic to an endpoint or to another rule, and the ID that you assigned to the endpoint or rule elsewhere in the traffic policy document.

**Weight**

A value between 0 and 255 that determines the proportion of traffic that is routed to the corresponding endpoint or rule. For more information, see Weight in the documentation about ChangeResourceRecordSets (p. 22).

**EvaluateTargetHealth**

A Boolean that indicates whether you want Amazon Route 53 to evaluate the health of the endpoint and route traffic only to healthy endpoints. For more information, see EvaluateTargetHealth in the documentation about ChangeResourceRecordSets (p. 22).

**HealthCheck**

If you want to associate a health check with the endpoint or rule, specify the ID of the health check. For more information, see HealthCheckId in the documentation about ChangeResourceRecordSets (p. 22).

**Examples**

The following examples show how to use failover, geolocation, geoproximity, latency, and weighted rules, and how to use multiple types of rules in the same traffic policy.

**Topics**

- Failover Example (p. 575)
Failover Example

```json
{
  "AWSPolicyFormatVersion": "2015-10-01",
  "RecordType": "A",
  "StartRule": "site_switch",
  "Endpoints": {
    "my_elb": {
      "Type": "elastic-load-balancer",
      "Value": "elb-111111.us-east-1.elb.amazonaws.com"
    },
    "site_down_banner": {
      "Type": "s3-website",
      "Region": "us-east-1",
      "Value": "www.example.com"
    }
  },
  "Rules": {
    "site_switch": {
      "RuleType": "failover",
      "Primary": {
        "EndpointReference": "my_elb"
      },
      "Secondary": {
        "EndpointReference": "site_down_banner"
      }
    }
  }
}
```

Geolocation Example

```json
{
  "AWSPolicyFormatVersion": "2015-10-01",
  "RecordType": "A",
  "StartRule": "geo_dest",
  "Endpoints": {
    "english": {
      "Type": "value",
      "Value": "192.0.2.1"
    },
    "french": {
      "Type": "value",
      "Value": "192.0.2.2"
    },
    "german": {
      "Type": "value",
      "Value": "192.0.2.3"
    }
  },
  "Rules": {
    "geo_dest": {
      "RuleType": "geo",
}````
"Locations": [
    {
      "EndpointReference": "english",
      "IsDefault": true,
      "HealthCheck": "11111111-1111-1111-1111-111111111111"
    },
    {
      "EndpointReference": "french",
      "Country": "FR",
      "HealthCheck": "22222222-2222-2222-2222-222222222222"
    },
    {
      "EndpointReference": "french",
      "Country": "BE",
      "HealthCheck": "22222222-2222-2222-2222-222222222222"
    },
    {
      "EndpointReference": "german",
      "Country": "DE",
      "HealthCheck": "33333333-3333-3333-3333-333333333333"
    }
  ]
}

Geoproximity Example

{
  "AWSPolicyFormatVersion": "2015-10-01",
  "RecordType": "A",
  "StartRule": "geoprox-rule",
  "Endpoints": {
    "aws-us-west-1-region": {
      "Type": "elastic-load-balancer",
      "Value": "elb-123456.us-east-1.elb.amazonaws.com"
    },
    "london-data-center": {
      "Type": "value",
      "Value": "192.0.2.1"
    }
  },
  "Rules": {
    "geoprox-rule": {
      "RuleType": "geoproximity",
      "GeoproximityLocations": [
        {
          "EndpointReference": "aws-us-west-1-region",
          "Region": "us-west-1",
          "Bias": "10",
          "HealthCheck": "11111111-1111-1111-1111-111111111111"
        },
        {
          "EndpointReference": "london-data-center",
          "Latitude": "51.50",
          "Longitude": "-0.16",
          "Bias": "0",
          "HealthCheck": "22222222-2222-2222-2222-222222222222"
        }
      ]
    }
  }
}
Latency Example

```
{
  "AWSPolicyFormatVersion":"2015-10-01",
  "RecordType":"A",
  "StartRule":"region_selector",
  "Endpoints":{
    "us_lb":{
      "Type":"elastic-load-balancer",
      "Value":"elb-123456.us-east-1.elb.amazonaws.com"
    },
    "europe_lb":{
      "Type":"elastic-load-balancer",
      "Value":"elb-654321.eu-west-1.elb.amazonaws.com"
    }
  },
  "Rules":{
    "region_selector":{
      "RuleType":"latency",
      "Regions":[
        {
          "Region":"us-east-1",
          "EndpointReference":"us_lb"
        },
        {
          "Region":"eu-west-1",
          "EndpointReference":"europe_lb"
        }
      ]
    }
  }
}
```

Weighted Example

```
{
  "AWSPolicyFormatVersion":"2015-10-01",
  "RecordType":"A",
  "StartRule":"round_robin",
  "Endpoints":{
    "srv1":{
      "Type":"value",
      "Value":"192.0.2.1"
    },
    "srv2":{
      "Type":"value",
      "Value":"192.0.2.2"
    },
    "srv3":{
      "Type":"value",
      "Value":"192.0.2.3"
    }
  },
  "Rules":{
    "round_robin":{
      "RuleType":"weighted",
      "Items":[
        {
          "EndpointReference":"srv1",
          "Weight":"3",
          "HealthCheck":"11111111-1111-1111-1111-111111111111"
        }
      ]
    }
  }
}
```
Example with Failover, Latency, and Geolocation Rules

```json
{
  "AWSPolicyFormatVersion":"2015-10-01",
  "RecordType":"A",
  "StartRule":"geo_restriction",
  "Endpoints":{
    "east_coast_lb1":{
      "Type":"elastic-load-balancer",
      "Value":"elb-111111.us-east-1.elb.amazonaws.com"
    },
    "east_coast_lb2":{
      "Type":"elastic-load-balancer",
      "Value":"elb-222222.us-east-1.elb.amazonaws.com"
    },
    "west_coast_lb1":{
      "Type":"elastic-load-balancer",
      "Value":"elb-111111.us-west-1.elb.amazonaws.com"
    },
    "west_coast_lb2":{
      "Type":"elastic-load-balancer",
      "Value":"elb-222222.us-west-1.elb.amazonaws.com"
    },
    "denied_message":{
      "Type":"s3-website",
      "Region":"us-east-1",
      "Value":"video.example.com"
    }
  },
  "Rules":{
    "geo_restriction":{
      "RuleType":"geo",
      "Locations":[
        {"EndpointReference":"denied_message",
         "IsDefault":true},
        {"RuleReference":"region_selector",
         "Country":"US"}
      ]
    },
    "region_selector":{
      "RuleType":"latency",
      "Regions":[
```
Example with Failover, Latency, and Geolocation Rules

```
{
   "Region":"us-east-1",
   "RuleReference":"east_coast_region"
},
{
   "Region":"us-west-1",
   "RuleReference":"west_coast_region"
}
]
},
"east_coast_region":{
   "RuleType":"failover",
   "Primary":{
      "EndpointReference":"east_coast_lb1"
   },
   "Secondary":{
      "EndpointReference":"east_coast_lb2"
   }
},
"west_coast_region":{
   "RuleType":"failover",
   "Primary":{
      "EndpointReference":"west_coast_lb1"
   },
   "Secondary":{
      "EndpointReference":"west_coast_lb2"
   }
}
```
Data Types

The following data types are supported by Amazon Route 53:

- AccountLimit (p. 583)
- AlarmIdentifier (p. 584)
- AliasTarget (p. 585)
- Change (p. 590)
- ChangeBatch (p. 591)
- ChangeInfo (p. 592)
- CloudWatchAlarmConfiguration (p. 593)
- DelegationSet (p. 595)
- Dimension (p. 596)
- DNSSECStatus (p. 597)
- GeoLocation (p. 599)
- GeoLocationDetails (p. 601)
- HealthCheck (p. 603)
- HealthCheckConfig (p. 605)
- HealthCheckObservation (p. 612)
- HostedZone (p. 614)
- HostedZoneConfig (p. 616)
- HostedZoneLimit (p. 617)
- HostedZoneOwner (p. 618)
- HostedZoneSummary (p. 619)
- KeySigningKey (p. 620)
- LinkedService (p. 624)
- QueryLoggingConfig (p. 625)
- ResourceRecord (p. 626)
- ResourceRecordSet (p. 627)
- ResourceTagSet (p. 635)
- ReusableDelegationSetLimit (p. 636)
- StatusReport (p. 637)
- Tag (p. 638)
- TrafficPolicy (p. 639)
- TrafficPolicyInstance (p. 641)
- TrafficPolicySummary (p. 644)
- VPC (p. 646)

The following data types are supported by Amazon Route 53 domain registration:

- BillingRecord (p. 648)
- ContactDetail (p. 650)
- DomainSuggestion (p. 653)
- DomainSummary (p. 655)
• DomainTransferability (p. 656)
• ExtraParam (p. 657)
• Nameserver (p. 663)
• OperationSummary (p. 664)
• Tag (p. 665)

The following data types are supported by Amazon Route 53 Resolver:

• Filter (p. 667)
• FirewallConfig (p. 670)
• FirewallDomainList (p. 672)
• FirewallDomainListMetadata (p. 675)
• FirewallRule (p. 677)
• FirewallRuleGroup (p. 680)
• FirewallRuleGroupAssociation (p. 683)
• FirewallRuleGroupMetadata (p. 686)
• IpAddressRequest (p. 688)
• IpAddressResponse (p. 689)
• IpAddressUpdate (p. 691)
• ResolverConfig (p. 692)
• ResolverDnssecConfig (p. 694)
• ResolverEndpoint (p. 696)
• ResolverQueryLogConfig (p. 699)
• ResolverQueryLogConfigAssociation (p. 702)
• ResolverRule (p. 704)
• ResolverRuleAssociation (p. 707)
• ResolverRuleConfig (p. 709)
• Tag (p. 710)
• TargetAddress (p. 711)

Amazon Route 53

The following data types are supported by Amazon Route 53:

• AccountLimit (p. 583)
• AlarmIdentifier (p. 584)
• AliasTarget (p. 585)
• Change (p. 590)
• ChangeBatch (p. 591)
• ChangeInfo (p. 592)
• CloudWatchAlarmConfiguration (p. 593)
• DelegationSet (p. 595)
• Dimension (p. 596)
• DNSSECStatus (p. 597)
• GeoLocation (p. 599)
• GeoLocationDetails (p. 601)
- HealthCheck (p. 603)
- HealthCheckConfig (p. 605)
- HealthCheckObservation (p. 612)
- HostedZone (p. 614)
- HostedZoneConfig (p. 616)
- HostedZoneLimit (p. 617)
- HostedZoneOwner (p. 618)
- HostedZoneSummary (p. 619)
- KeySigningKey (p. 620)
- LinkedService (p. 624)
- QueryLoggingConfig (p. 625)
- ResourceRecord (p. 626)
- ResourceRecordSet (p. 627)
- ResourceTagSet (p. 635)
- ReusableDelegationSetLimit (p. 636)
- StatusReport (p. 637)
- Tag (p. 638)
- TrafficPolicy (p. 639)
- TrafficPolicyInstance (p. 641)
- TrafficPolicySummary (p. 644)
- VPC (p. 646)
**AccountLimit**  
Service: Amazon Route 53  

A complex type that contains the type of limit that you specified in the request and the current value for that limit.

**Contents**

**Type**

The limit that you requested. Valid values include the following:

- **MAX_HEALTH_CHECKS_BY_OWNER**: The maximum number of health checks that you can create using the current account.
- **MAX_HOSTED_ZONES_BY_OWNER**: The maximum number of hosted zones that you can create using the current account.
- **MAX_REUSABLE_DELEGATION_SETS_BY_OWNER**: The maximum number of reusable delegation sets that you can create using the current account.
- **MAX_TRAFFIC_POLICIES_BY_OWNER**: The maximum number of traffic policies that you can create using the current account.
- **MAX_TRAFFIC_POLICY_INSTANCES_BY_OWNER**: The maximum number of traffic policy instances that you can create using the current account. (Traffic policy instances are referred to as traffic flow policy records in the Amazon Route 53 console.)

Type: String  
Valid Values: **MAX_HEALTH_CHECKS_BY_OWNER | MAX_HOSTED_ZONES_BY_OWNER** | **MAX_TRAFFIC_POLICY_INSTANCES_BY_OWNER | MAX_REUSABLE_DELEGATION_SETS_BY_OWNER | MAX_TRAFFIC_POLICIES_BY_OWNER**  
Required: Yes

**Value**

The current value for the limit that is specified by **Type**.

Type: Long  
Valid Range: Minimum value of 1.  
Required: Yes

**See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++  
- AWS SDK for Go  
- AWS SDK for Java V2  
- AWS SDK for Ruby V3
AlarmIdentifier

Service: Amazon Route 53

A complex type that identifies the CloudWatch alarm that you want Amazon Route 53 health checkers to use to determine whether the specified health check is healthy.

Contents

Name

The name of the CloudWatch alarm that you want Amazon Route 53 health checkers to use to determine whether this health check is healthy.

**Note**
Route 53 supports CloudWatch alarms with the following features:
- Standard-resolution metrics. High-resolution metrics aren't supported. For more information, see High-Resolution Metrics in the Amazon CloudWatch User Guide.
- Statistics: Average, Minimum, Maximum, Sum, and SampleCount. Extended statistics aren't supported.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Required: Yes

Region

For the CloudWatch alarm that you want Route 53 health checkers to use to determine whether this health check is healthy, the region that the alarm was created in.

For the current list of CloudWatch regions, see Amazon CloudWatch endpoints and quotas in the Amazon Web Services General Reference.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: us-east-1 | us-east-2 | us-west-1 | us-west-2 | ca-central-1 | eu-central-1 | eu-west-1 | eu-west-2 | eu-west-3 | ap-east-1 | me-south-1 | ap-south-1 | ap-southeast-1 | ap-southeast-2 | ap-northeast-1 | ap-northeast-2 | ap-northeast-3 | eu-north-1 | sa-east-1 | cn-northwest-1 | cn-north-1 | af-south-1 | eu-south-1 | us-gov-west-1 | us-gov-east-1 | us-iso-east-1 | us-isob-east-1

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
### AliasTarget

**Service:** Amazon Route 53

*Alias resource record sets only:* Information about the AWS resource, such as a CloudFront distribution or an Amazon S3 bucket, that you want to route traffic to.

When creating resource record sets for a private hosted zone, note the following:

- Creating geolocation alias resource record sets or latency alias resource record sets in a private hosted zone is unsupported.
- For information about creating failover resource record sets in a private hosted zone, see Configuring Failover in a Private Hosted Zone.

### Contents

#### DNSName

*Alias resource record sets only:* The value that you specify depends on where you want to route queries:

- **Amazon API Gateway custom regional APIs and edge-optimized APIs**
  
  Specify the applicable domain name for your API. You can get the applicable value using the AWS CLI command `get-domain-names`:
  
  - For regional APIs, specify the value of `regionalDomainName`.
  - For edge-optimized APIs, specify the value of `distributionDomainName`. This is the name of the associated CloudFront distribution, such as `da1b2c3d4e5.cloudfront.net`.

  **Note**
  
  The name of the record that you're creating must match a custom domain name for your API, such as `api.example.com`.

- **Amazon Virtual Private Cloud interface VPC endpoint**
  
  Enter the API endpoint for the interface endpoint, such as `vpce-123456789abcdef01-example-us-east-1a.elasticloadbalancing.us-east-1.vpce.amazonaws.com`. For edge-optimized APIs, this is the domain name for the corresponding CloudFront distribution. You can get the value of `DNSName` using the AWS CLI command `describe-vpc-endpoints`.

- **CloudFront distribution**
  
  Specify the domain name that CloudFront assigned when you created your distribution.

  Your CloudFront distribution must include an alternate domain name that matches the name of the resource record set. For example, if the name of the resource record set is `acme.example.com`, your CloudFront distribution must include `acme.example.com` as one of the alternate domain names. For more information, see Using Alternate Domain Names (CNAMEs) in the Amazon CloudFront Developer Guide.

  You can't create a resource record set in a private hosted zone to route traffic to a CloudFront distribution.

  **Note**
  
  For failover alias records, you can't specify a CloudFront distribution for both the primary and secondary records. A distribution must include an alternate domain name that matches the name of the record. However, the primary and secondary records have the same name, and you can't include the same alternate domain name in more than one distribution.
Elastic Beanstalk environment

If the domain name for your Elastic Beanstalk environment includes the region that you deployed the environment in, you can create an alias record that routes traffic to the environment. For example, the domain name my-environment.us-west-2.elasticbeanstalk.com is a regionalized domain name.

**Important**

For environments that were created before early 2016, the domain name doesn't include the region. To route traffic to these environments, you must create a CNAME record instead of an alias record. Note that you can't create a CNAME record for the root domain name. For example, if your domain name is example.com, you can create a record that routes traffic for acme.example.com to your Elastic Beanstalk environment, but you can't create a record that routes traffic for example.com to your Elastic Beanstalk environment.

For Elastic Beanstalk environments that have regionalized subdomains, specify the CNAME attribute for the environment. You can use the following methods to get the value of the CNAME attribute:

- **AWS Management Console**: For information about how to get the value by using the console, see [Using Custom Domains with AWS Elastic Beanstalk](https://docs.aws.amazon.com/elasticbeanstalk/latest/dg/custom-domains.html) in the AWS Elastic Beanstalk Developer Guide.

- **Elastic Beanstalk API**: Use the DescribeEnvironments action to get the value of the CNAME attribute. For more information, see [DescribeEnvironments](https://docs.aws.amazon.com/elasticbeanstalk/latest/api/API_DescribeEnvironments.html) in the AWS Elastic Beanstalk API Reference.

- **AWS CLI**: Use the describe-environments command to get the value of the CNAME attribute. For more information, see [describe-environments](https://docs.aws.amazon.com/cli/latest/reference/elasticbeanstalk/describe-environments.html) in the AWS CLI Command Reference.

ELB load balancer

Specify the DNS name that is associated with the load balancer. Get the DNS name by using the AWS Management Console, the ELB API, or the AWS CLI.

- **AWS Management Console**: Go to the EC2 page, choose Load Balancers in the navigation pane, choose the load balancer, choose the Description tab, and get the value of the DNS name field.

  If you're routing traffic to a Classic Load Balancer, get the value that begins with dualstack. If you're routing traffic to another type of load balancer, get the value that applies to the record type, A or AAAA.

- **Elastic Load Balancing API**: Use DescribeLoadBalancers to get the value of DNSName. For more information, see the applicable guide:
  - Classic Load Balancers: [DescribeLoadBalancers](https://docs.aws.amazon.com/elasticloadbalancing/latest/APIReference/API_DescribeLoadBalancers.html)
  - Application and Network Load Balancers: [DescribeLoadBalancers](https://docs.aws.amazon.com/elasticloadbalancing/latest/APIReference/API_DescribeLoadBalancers.html)

- **AWS CLI**: Use describe-load-balancers to get the value of DNSName. For more information, see the applicable guide:
  - Classic Load Balancers: [describe-load-balancers](https://docs.aws.amazon.com/cli/latest/reference/elasticloadbalancing/describe-load-balancers.html)
  - Application and Network Load Balancers: [describe-load-balancers](https://docs.aws.amazon.com/cli/latest/reference/elasticloadbalancing/describe-load-balancers.html)

AWS Global Accelerator accelerator

Specify the DNS name for your accelerator:

- **Global Accelerator API**: To get the DNS name, use [DescribeAccelerator](https://docs.aws.amazon.com/globalspeed/latest/APIReference/API_DescribeAccelerator.html).

- **AWS CLI**: To get the DNS name, use [describe-accelerator](https://docs.aws.amazon.com/cli/latest/reference/globalspeed/describe-accelerator.html).

Amazon S3 bucket that is configured as a static website

Specify the domain name of the Amazon S3 website endpoint that you created the bucket in, for example, s3-website.us-east-2.amazonaws.com. For more information about
valid values, see the table Amazon S3 Website Endpoints in the Amazon Web Services General Reference. For more information about using S3 buckets for websites, see Getting Started with Amazon Route 53 in the Amazon Route 53 Developer Guide.

Another Route 53 resource record set

Specify the value of the Name element for a resource record set in the current hosted zone.

Note

If you're creating an alias record that has the same name as the hosted zone (known as the zone apex), you can't specify the domain name for a record for which the value of Type is CNAME. This is because the alias record must have the same type as the record that you're routing traffic to, and creating a CNAME record for the zone apex isn't supported even for an alias record.

Type: String

Length Constraints: Maximum length of 1024.

Required: Yes

EvaluateTargetHealth

Applies only to alias, failover alias, geolocation alias, latency alias, and weighted alias resource record sets: When EvaluateTargetHealth is true, an alias resource record set inherits the health of the referenced AWS resource, such as an ELB load balancer or another resource record set in the hosted zone.

Note the following:

CloudFront distributions

You can't set EvaluateTargetHealth to true when the alias target is a CloudFront distribution.

Elastic Beanstalk environments that have regionalized subdomains

If you specify an Elastic Beanstalk environment in DNSName and the environment contains an ELB load balancer, Elastic Load Balancing routes queries only to the healthy Amazon EC2 instances that are registered with the load balancer. (An environment automatically contains an ELB load balancer if it includes more than one Amazon EC2 instance.) If you set EvaluateTargetHealth to true and either no EC2 instances are healthy or the load balancer itself is unhealthy, Route 53 routes queries to other available resources that are healthy, if any.

If the environment contains a single Amazon EC2 instance, there are no special requirements.

ELB load balancers

Health checking behavior depends on the type of load balancer:

- **Classic Load Balancers**: If you specify an ELB Classic Load Balancer in DNSName, Elastic Load Balancing routes queries only to the healthy Amazon EC2 instances that are registered with the load balancer. If you set EvaluateTargetHealth to true and either no EC2 instances are healthy or the load balancer itself is unhealthy, Route 53 routes queries to other resources.

- **Application and Network Load Balancers**: If you specify an ELB Application or Network Load Balancer and you set EvaluateTargetHealth to true, Route 53 routes queries to the load balancer based on the health of the target groups that are associated with the load balancer:
  - For an Application or Network Load Balancer to be considered healthy, every target group that contains targets must contain at least one healthy target. If any target group contains only unhealthy targets, the load balancer is considered unhealthy, and Route 53 routes queries to other resources.
  - A target group that has no registered targets is considered unhealthy.
Note
When you create a load balancer, you configure settings for Elastic Load Balancing health checks; they're not Route 53 health checks, but they perform a similar function. Do not create Route 53 health checks for the EC2 instances that you register with an ELB load balancer.

S3 buckets

There are no special requirements for setting `EvaluateTargetHealth` to `true` when the alias target is an S3 bucket.

Other records in the same hosted zone

If the AWS resource that you specify in `DNSName` is a record or a group of records (for example, a group of weighted records) but is not another alias record, we recommend that you associate a health check with all of the records in the alias target. For more information, see What Happens When You Omit Health Checks? in the Amazon Route 53 Developer Guide.

For more information and examples, see Amazon Route 53 Health Checks and DNS Failover in the Amazon Route 53 Developer Guide.

Type: Boolean
Required: Yes

**HostedZoneId**

*Alias resource records sets only:* The value used depends on where you want to route traffic:

Amazon API Gateway custom regional APIs and edge-optimized APIs

Specify the hosted zone ID for your API. You can get the applicable value using the AWS CLI command `get-domain-names`:

- For regional APIs, specify the value of `regionalHostedZoneId`.
- For edge-optimized APIs, specify the value of `distributionHostedZoneId`.

Amazon Virtual Private Cloud interface VPC endpoint

Specify the hosted zone ID for your interface endpoint. You can get the value of `HostedZoneId` using the AWS CLI command `describe-vpc-endpoints`.

CloudFront distribution

Specify `Z2FDTNDATAQYW2`.

Note
Alias resource record sets for CloudFront can’t be created in a private zone.

Elastic Beanstalk environment

Specify the hosted zone ID for the region that you created the environment in. The environment must have a regionalized subdomain. For a list of regions and the corresponding hosted zone IDs, see AWS Elastic Beanstalk endpoints and quotas in the Amazon Web Services General Reference.

ELB load balancer

Specify the value of the hosted zone ID for the load balancer. Use the following methods to get the hosted zone ID:

- Elastic Load Balancing endpoints and quotas topic in the Amazon Web Services General Reference: Use the value that corresponds with the region that you created your load balancer in. Note that there are separate columns for Application and Classic Load Balancers and for Network Load Balancers.
• **AWS Management Console**: Go to the Amazon EC2 page, choose **Load Balancers** in the navigation pane, select the load balancer, and get the value of the **Hosted zone** field on the **Description** tab.

• **Elastic Load Balancing API**: Use `DescribeLoadBalancers` to get the applicable value. For more information, see the applicable guide:
  - Classic Load Balancers: Use `DescribeLoadBalancers` to get the value of `CanonicalHostedZoneNameId`.
  - Application and Network Load Balancers: Use `DescribeLoadBalancers` to get the value of `CanonicalHostedZoneId`.

• **AWS CLI**: Use `describe-load-balancers` to get the applicable value. For more information, see the applicable guide:
  - Classic Load Balancers: Use `describe-load-balancers` to get the value of `CanonicalHostedZoneNameId`.
  - Application and Network Load Balancers: Use `describe-load-balancers` to get the value of `CanonicalHostedZoneId`.

**AWS Global Accelerator accelerator**

Specify `Z2BJ6XQ5FK7U4H`.

**An Amazon S3 bucket configured as a static website**

Specify the hosted zone ID for the region that you created the bucket in. For more information about valid values, see the table **Amazon S3 Website Endpoints** in the **Amazon Web Services General Reference**.

**Another Route 53 resource record set in your hosted zone**

Specify the hosted zone ID of your hosted zone. (An alias resource record set can't reference a resource record set in a different hosted zone.)

Type: **String**

Length Constraints: Maximum length of 32.

Required: Yes

**See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

• **AWS SDK for C++**
• **AWS SDK for Go**
• **AWS SDK for Java V2**
• **AWS SDK for Ruby V3**
Change
Service: Amazon Route 53

The information for each resource record set that you want to change.

Contents

Action

The action to perform:

- **CREATE**: Creates a resource record set that has the specified values.
- **DELETE**: Deletes an existing resource record set.

**Important**
To delete the resource record set that is associated with a traffic policy instance, use `DeleteTrafficPolicyInstance`. Amazon Route 53 will delete the resource record set automatically. If you delete the resource record set by using `ChangeResourceRecordSets`, Route 53 doesn't automatically delete the traffic policy instance, and you'll continue to be charged for it even though it's no longer in use.

- **UPSERT**: If a resource record set doesn't already exist, Route 53 creates it. If a resource record set does exist, Route 53 updates it with the values in the request.

Type: String

Valid Values: CREATE | DELETE | UPSERT

Required: Yes

ResourceRecordSet

Information about the resource record set to create, delete, or update.

Type: `ResourceRecordSet` (p. 627) object

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
ChangeBatch
Service: Amazon Route 53

The information for a change request.

Contents

Changes

Information about the changes to make to the record sets.

Type: Array of Change (p. 590) objects

Array Members: Minimum number of 1 item.

Required: Yes

Comment

Optional: Any comments you want to include about a change batch request.

Type: String

Length Constraints: Maximum length of 256.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
ChangeInfo
Service: Amazon Route 53

A complex type that describes change information about changes made to your hosted zone.

Contents

Comment
A comment you can provide.
Type: String
Length Constraints: Maximum length of 256.
Required: No

Id
This element contains an ID that you use when performing a GetChange action to get detailed information about the change.
Type: String
Length Constraints: Maximum length of 32.
Required: Yes

Status
The current state of the request. PENDING indicates that this request has not yet been applied to all Amazon Route 53 DNS servers.
Type: String
Valid Values: PENDING | INSYNC
Required: Yes

SubmittedAt
The date and time that the change request was submitted in ISO 8601 format and Coordinated Universal Time (UTC). For example, the value 2017-03-27T17:48:16.751Z represents March 27, 2017 at 17:48:16.751 UTC.
Type: Timestamp
Required: Yes

See Also
For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
CloudWatchAlarmConfiguration
Service: Amazon Route 53

A complex type that contains information about the CloudWatch alarm that Amazon Route 53 is
monitoring for this health check.

Contents

ComparisonOperator

For the metric that the CloudWatch alarm is associated with, the arithmetic operation that is used
for the comparison.

Type: String

Valid Values: GreaterThanOrEqualToThreshold | GreaterThanThreshold |
LessThanThreshold | LessThanOrEqualToThreshold

Required: Yes

Dimensions

For the metric that the CloudWatch alarm is associated with, a complex type that contains
information about the dimensions for the metric. For information, see Amazon CloudWatch
Namespaces, Dimensions, and Metrics Reference in the Amazon CloudWatch User Guide.

Type: Array of Dimension (p. 596) objects

Array Members: Maximum number of 10 items.

Required: No

EvaluationPeriods

For the metric that the CloudWatch alarm is associated with, the number of periods that the metric
is compared to the threshold.

Type: Integer

Valid Range: Minimum value of 1.

Required: Yes

MetricName

The name of the CloudWatch metric that the alarm is associated with.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

Namespace

The namespace of the metric that the alarm is associated with. For more information, see Amazon
CloudWatch Namespaces, Dimensions, and Metrics Reference in the Amazon CloudWatch User Guide.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes
Period

For the metric that the CloudWatch alarm is associated with, the duration of one evaluation period in seconds.

Type: Integer

Valid Range: Minimum value of 60.

Required: Yes

Statistic

For the metric that the CloudWatch alarm is associated with, the statistic that is applied to the metric.

Type: String

Valid Values: Average | Sum | SampleCount | Maximum | Minimum

Required: Yes

Threshold

For the metric that the CloudWatch alarm is associated with, the value the metric is compared with.

Type: Double

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
DelegationSet
Service: Amazon Route 53

A complex type that lists the name servers in a delegation set, as well as the CallerReference and the ID for the delegation set.

Contents

CallerReference

The value that you specified for CallerReference when you created the reusable delegation set.

Type: String


Required: No

Id

The ID that Amazon Route 53 assigns to a reusable delegation set.

Type: String

Length Constraints: Maximum length of 32.

Required: No

NameServers

A complex type that contains a list of the authoritative name servers for a hosted zone or for a reusable delegation set.

Type: Array of strings

Array Members: Minimum number of 1 item.

Length Constraints: Maximum length of 1024.

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
**Dimension**

Service: Amazon Route 53

For the metric that the CloudWatch alarm is associated with, a complex type that contains information about one dimension.

**Contents**

**Name**

For the metric that the CloudWatch alarm is associated with, the name of one dimension.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

**Value**

For the metric that the CloudWatch alarm is associated with, the value of one dimension.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

**See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
DNSSECStatus
Service: Amazon Route 53

A string representing the status of DNSSEC signing.

Contents

ServeSignature

A string that represents the current hosted zone signing status.

Status can have one of the following values:

SIGNING

DNSSEC signing is enabled for the hosted zone.

NOT_SIGNING

DNSSEC signing is not enabled for the hosted zone.

DELETING

DNSSEC signing is in the process of being removed for the hosted zone.

ACTION_NEEDED

There is a problem with signing in the hosted zone that requires you to take action to resolve. For example, the customer managed key might have been deleted, or the permissions for the customer managed key might have been changed.

INTERNAL_FAILURE

There was an error during a request. Before you can continue to work with DNSSEC signing, including with key-signing keys (KSKs), you must correct the problem by enabling or disabling DNSSEC signing for the hosted zone.

Type: String


Required: No

StatusMessage

The status message provided for the following DNSSEC signing status: INTERNAL_FAILURE. The status message includes information about what the problem might be and steps that you can take to correct the issue.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 512.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
GeoLocation
Service: Amazon Route 53

A complex type that contains information about a geographic location.

Contents

ContinentCode

The two-letter code for the continent.

Amazon Route 53 supports the following continent codes:
- **AF**: Africa
- **AN**: Antarctica
- **AS**: Asia
- **EU**: Europe
- **OC**: Oceania
- **NA**: North America
- **SA**: South America


Type: String

Length Constraints: Fixed length of 2.

Required: No

CountryCode

For geolocation resource record sets, the two-letter code for a country.

Amazon Route 53 uses the two-letter country codes that are specified in ISO standard 3166-1 alpha-2.

Type: String


Required: No

SubdivisionCode

For geolocation resource record sets, the two-letter code for a state of the United States. Route 53 doesn't support any other values for SubdivisionCode. For a list of state abbreviations, see Appendix B: Two–Letter State and Possession Abbreviations on the United States Postal Service website.

If you specify subdivisioncode, you must also specify US for CountryCode.

Type: String


Required: No
See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
GeoLocationDetails

Service: Amazon Route 53

A complex type that contains the codes and full continent, country, and subdivision names for the specified geolocation code.

Contents

ContinentCode

The two-letter code for the continent.

Type: String

Length Constraints: Fixed length of 2.

Required: No

ContinentName

The full name of the continent.

Type: String


Required: No

CountryCode

The two-letter code for the country.

Type: String


Required: No

CountryName

The name of the country.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Required: No

SubdivisionCode

The code for the subdivision, such as a particular state within the United States. For a list of US state abbreviations, see Appendix B: Two–Letter State and Possession Abbreviations on the United States Postal Service website. For a list of all supported subdivision codes, use the ListGeoLocations API.

Type: String


Required: No

SubdivisionName

The full name of the subdivision. Route 53 currently supports only states in the United States.
Type: String
Length Constraints: Minimum length of 1. Maximum length of 64.
Required: No

See Also
For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
**HealthCheck**  
Service: Amazon Route 53

A complex type that contains information about one health check that is associated with the current AWS account.

**Contents**

**CallerReference**

A unique string that you specified when you created the health check.

Type: String  
Length Constraints: Minimum length of 1. Maximum length of 64.  
Required: Yes

**CloudWatchAlarmConfiguration**

A complex type that contains information about the CloudWatch alarm that Amazon Route 53 is monitoring for this health check.

Type: CloudWatchAlarmConfiguration (p. 593) object  
Required: No

**HealthCheckConfig**

A complex type that contains detailed information about one health check.

Type: HealthCheckConfig (p. 605) object  
Required: Yes

**HealthCheckVersion**

The version of the health check. You can optionally pass this value in a call to UpdateHealthCheck to prevent overwriting another change to the health check.

Type: Long  
Valid Range: Minimum value of 1.  
Required: Yes

**Id**

The identifier that Amazon Route 53 assigned to the health check when you created it. When you add or update a resource record set, you use this value to specify which health check to use. The value can be up to 64 characters long.

Type: String  
Length Constraints: Maximum length of 64.  
Required: Yes

**LinkedService**

If the health check was created by another service, the service that created the health check. When a health check is created by another service, you can't edit or delete it using Amazon Route 53.

Type: LinkedService (p. 624) object
Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
HealthCheckConfig
Service: Amazon Route 53

A complex type that contains information about the health check.

Contents

AlarmIdentifier

A complex type that identifies the CloudWatch alarm that you want Amazon Route 53 health checkers to use to determine whether the specified health check is healthy.

Type: AlarmIdentifier (p. 584) object

Required: No

ChildHealthChecks

(CALCULATED Health Checks Only) A complex type that contains one ChildHealthCheck element for each health check that you want to associate with a CALCULATED health check.

Type: Array of strings

Array Members: Maximum number of 256 items.

Length Constraints: Maximum length of 64.

Required: No

Disabled

Stops Route 53 from performing health checks. When you disable a health check, here's what happens:

- **Health checks that check the health of endpoints**: Route 53 stops submitting requests to your application, server, or other resource.
- **Calculated health checks**: Route 53 stops aggregating the status of the referenced health checks.
- **Health checks that monitor CloudWatch alarms**: Route 53 stops monitoring the corresponding CloudWatch metrics.

After you disable a health check, Route 53 considers the status of the health check to always be healthy. If you configured DNS failover, Route 53 continues to route traffic to the corresponding resources. If you want to stop routing traffic to a resource, change the value of Inverted.

Charges for a health check still apply when the health check is disabled. For more information, see Amazon Route 53 Pricing.

Type: Boolean

Required: No

EnableSNI

Specify whether you want Amazon Route 53 to send the value of FullyQualifiedDomainName to the endpoint in the client_hello message during TLS negotiation. This allows the endpoint to respond to HTTPS health check requests with the applicable SSL/TLS certificate.

Some endpoints require that HTTPS requests include the host name in the client_hello message. If you don't enable SNI, the status of the health check will be SSL alert handshake_failure. A health check can also have that status for other reasons. If SNI is enabled and you're still getting the error, check the SSL/TLS configuration on your endpoint and confirm that your certificate is valid.
The SSL/TLS certificate on your endpoint includes a domain name in the Common Name field and possibly several more in the Subject Alternative Names field. One of the domain names in the certificate should match the value that you specify for FullyQualifiedDomainName. If the endpoint responds to the client_hello message with a certificate that does not include the domain name that you specified in FullyQualifiedDomainName, a health checker will retry the handshake. In the second attempt, the health checker will omit FullyQualifiedDomainName from the client_hello message.

Type: Boolean
Required: No

**FailureThreshold**

The number of consecutive health checks that an endpoint must pass or fail for Amazon Route 53 to change the current status of the endpoint from unhealthy to healthy or vice versa. For more information, see [How Amazon Route 53 Determines Whether an Endpoint Is Healthy](https://docs.aws.amazon.com/Route53/latest/DeveloperGuide/how-to-determine-healthy.html) in the Amazon Route 53 Developer Guide.

If you don't specify a value for FailureThreshold, the default value is three health checks.

Type: Integer
Required: No

**FullyQualifiedDomainName**

Amazon Route 53 behavior depends on whether you specify a value for IPAddress.

**If you specify a value for IPAddress:**

Amazon Route 53 sends health check requests to the specified IPv4 or IPv6 address and passes the value of FullyQualifiedDomainName in the Host header for all health checks except TCP health checks. This is typically the fully qualified DNS name of the endpoint on which you want Route 53 to perform health checks.

When Route 53 checks the health of an endpoint, here is how it constructs the Host header:

- If you specify a value of 80 for Port and HTTP or HTTP_STR_MATCH for Type, Route 53 passes the value of FullyQualifiedDomainName to the endpoint in the Host header.
- If you specify a value of 443 for Port and HTTPS or HTTPS_STR_MATCH for Type, Route 53 passes the value of FullyQualifiedDomainName to the endpoint in the Host header.
- If you specify another value for Port and any value except TCP for Type, Route 53 passes FullyQualifiedDomainName:Port to the endpoint in the Host header.

If you don't specify a value for FullyQualifiedDomainName, Route 53 substitutes the value of IPAddress in the Host header in each of the preceding cases.

**If you don't specify a value for IPAddress:**

Route 53 sends a DNS request to the domain that you specify for FullyQualifiedDomainName at the interval that you specify for RequestInterval. Using an IPv4 address that DNS returns, Route 53 then checks the health of the endpoint.

**Note**

If you don't specify a value for IPAddress, Route 53 uses only IPv4 to send health checks to the endpoint. If there's no resource record set with a type of A for the name that you specify for FullyQualifiedDomainName, the health check fails with a "DNS resolution failed" error.
If you want to check the health of weighted, latency, or failover resource record sets and you choose to specify the endpoint only by `FullyQualifiedDomainName`, we recommend that you create a separate health check for each endpoint. For example, create a health check for each HTTP server that is serving content for `www.example.com`. For the value of `FullyQualifiedDomainName`, specify the domain name of the server (such as `us-east-2-www.example.com`), not the name of the resource record sets (`www.example.com`).

**Important**

In this configuration, if you create a health check for which the value of `FullyQualifiedDomainName` matches the name of the resource record sets and you then associate the health check with those resource record sets, health check results will be unpredictable.

In addition, if the value that you specify for `Type` is `HTTP`, `HTTPS`, `HTTP_STR_MATCH`, or `HTTPS_STR_MATCH`, Route 53 passes the value of `FullyQualifiedDomainName` in the `Host` header, as it does when you specify a value for `IPAddress`. If the value of `Type` is `TCP`, Route 53 doesn't pass a `Host` header.

**Type:** String

**Length Constraints:** Maximum length of 255.

**Required:** No

### HealthThreshold

The number of child health checks that are associated with a `CALCULATED` health check that Amazon Route 53 must consider healthy for the `CALCULATED` health check to be considered healthy. To specify the child health checks that you want to associate with a `CALCULATED` health check, use the `ChildHealthChecks` element.

Note the following:

- If you specify a number greater than the number of child health checks, Route 53 always considers this health check to be unhealthy.
- If you specify 0, Route 53 always considers this health check to be healthy.

**Type:** Integer

**Valid Range:** Minimum value of 0. Maximum value of 256.

**Required:** No

### InsufficientDataHealthStatus

When CloudWatch has insufficient data about the metric to determine the alarm state, the status that you want Amazon Route 53 to assign to the health check:

- **Healthy:** Route 53 considers the health check to be healthy.
- **Unhealthy:** Route 53 considers the health check to be unhealthy.
- **LastKnownStatus:** Route 53 uses the status of the health check from the last time that CloudWatch had sufficient data to determine the alarm state. For new health checks that have no last known status, the default status for the health check is healthy.

**Type:** String

**Valid Values:** Healthy | Unhealthy | LastKnownStatus

**Required:** No

### Inverted

Specify whether you want Amazon Route 53 to invert the status of a health check, for example, to consider a health check unhealthy when it otherwise would be considered healthy.
Type: Boolean

Required: No

**IPAddress**

The IPv4 or IPv6 IP address of the endpoint that you want Amazon Route 53 to perform health checks on. If you don't specify a value for `IPAddress`, Route 53 sends a DNS request to resolve the domain name that you specify in `FullyQualifiedDomainName` at the interval that you specify in `RequestInterval`. Using an IP address returned by DNS, Route 53 then checks the health of the endpoint.

Use one of the following formats for the value of `IPAddress`:

- **IPv4 address**: four values between 0 and 255, separated by periods (.), for example, `192.0.2.44`.
- **IPv6 address**: eight groups of four hexadecimal values, separated by colons (:), for example, `2001:0db8:85a3:0000:0000:abcd:0001:2345`. You can also shorten IPv6 addresses as described in RFC 5952, for example, `2001:db8::abcd:1:2345`.

If the endpoint is an EC2 instance, we recommend that you create an Elastic IP address, associate it with your EC2 instance, and specify the Elastic IP address for `IPAddress`. This ensures that the IP address of your instance will never change.

For more information, see `FullyQualifiedDomainName`.

Constraints: Route 53 can't check the health of endpoints for which the IP address is in local, private, non-routable, or multicast ranges. For more information about IP addresses for which you can't create health checks, see the following documents:

- RFC 5735, Special Use IPv4 Addresses
- RFC 6598, IANA-Reserved IPv4 Prefix for Shared Address Space
- RFC 5156, Special-Use IPv6 Addresses

When the value of `Type` is `CALCULATED` or `CLOUDWATCH_METRIC`, omit `IPAddress`.

Type: String

**Pattern**: `^((([0-9]{1,3}\.){3}[0-9]{1,3})\.|([0-9a-fA-F]{1,4}:){7,7}[0-9a-fA-F]{1,4}\.|([0-9a-fA-F]{1,4}:){1,7}:\.|([0-9a-fA-F]{1,4}:){1,6}::([0-9a-fA-F]{1,4})\.|([0-9a-fA-F]{1,4}:){1,4}\.:([0-9a-fA-F]{1,4})\.|([0-9a-fA-F]{1,4}:){1,3}::([0-9a-fA-F]{1,4})\.|([0-9a-fA-F]{1,4}:){1,2}::([0-9a-fA-F]{1,4})\.|::([0-9a-fA-F]{1,4})\.|::$)|^((([0-9]{1,3}\.){3}[0-9]{1,3})\.|([0-9a-fA-F]{1,4}:){7,7}[0-9a-fA-F]{1,4}\.|([0-9a-fA-F]{1,4}:){1,7}:\.|([0-9a-fA-F]{1,4}:){1,6}::([0-9a-fA-F]{1,4})\.|([0-9a-fA-F]{1,4}:){1,4}\.:([0-9a-fA-F]{1,4})\.|([0-9a-fA-F]{1,4}:){1,3}::([0-9a-fA-F]{1,4})\.|([0-9a-fA-F]{1,4}:){1,2}::([0-9a-fA-F]{1,4})\.|::([0-9a-fA-F]{1,4})\.|::$)$\)

Length Constraints: Maximum length of 45.

Required: No

**MeasureLatency**

Specify whether you want Amazon Route 53 to measure the latency between health checkers in multiple AWS regions and your endpoint, and to display CloudWatch latency graphs on the Health Checks page in the Route 53 console.

**Important**

You can't change the value of `MeasureLatency` after you create a health check.
Type: Boolean

Required: No

Port

The port on the endpoint that you want Amazon Route 53 to perform health checks on.

Note

Don't specify a value for Port when you specify a value for Type of CLOUDWATCH_METRIC or CALCULATED.

Type: Integer


Required: No

Regions

A complex type that contains one Region element for each region from which you want Amazon Route 53 health checkers to check the specified endpoint.

If you don't specify any regions, Route 53 health checkers automatically performs checks from all of the regions that are listed under Valid Values.

If you update a health check to remove a region that has been performing health checks, Route 53 will briefly continue to perform checks from that region to ensure that some health checkers are always checking the endpoint (for example, if you replace three regions with four different regions).

Type: Array of strings

Array Members: Minimum number of 3 items. Maximum number of 64 items.

Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: us-east-1 | us-west-1 | us-west-2 | eu-west-1 | ap-southeast-1 | ap-southeast-2 | ap-northeast-1 | sa-east-1

Required: No

RequestInterval

The number of seconds between the time that Amazon Route 53 gets a response from your endpoint and the time that it sends the next health check request. Each Route 53 health checker makes requests at this interval.

Important

You can't change the value of RequestInterval after you create a health check.

If you don't specify a value for RequestInterval, the default value is 30 seconds.

Type: Integer


Required: No

ResourcePath

The path, if any, that you want Amazon Route 53 to request when performing health checks. The path can be any value for which your endpoint will return an HTTP status code of 2xx or 3xx when the endpoint is healthy, for example, the file /docs/route53-health-check.html. You can also include query string parameters, for example, /welcome.html?language=jp&login=y.
Type: String
Length Constraints: Maximum length of 255.
Required: No

RoutingControlArn

The Amazon Resource Name (ARN) for the Route 53 Application Recovery Controller routing control.

For more information about Route 53 Application Recovery Controller, see Route 53 Application Recovery Controller Developer Guide.

Type: String
Length Constraints: Minimum length of 1. Maximum length of 255.
Required: No

SearchString

If the value of Type is HTTP_STR_MATCH or HTTPS_STR_MATCH, the string that you want Amazon Route 53 to search for in the response body from the specified resource. If the string appears in the response body, Route 53 considers the resource healthy.

Route 53 considers case when searching for SearchString in the response body.

Type: String
Length Constraints: Maximum length of 255.
Required: No

Type

The type of health check that you want to create, which indicates how Amazon Route 53 determines whether an endpoint is healthy.

**Important**
You can't change the value of Type after you create a health check.

You can create the following types of health checks:

- **HTTP**: Route 53 tries to establish a TCP connection. If successful, Route 53 submits an HTTP request and waits for an HTTP status code of 200 or greater and less than 400.

- **HTTPS**: Route 53 tries to establish a TCP connection. If successful, Route 53 submits an HTTPS request and waits for an HTTP status code of 200 or greater and less than 400.

  **Important**
  If you specify HTTPS for the value of Type, the endpoint must support TLS v1.0 or later.

- **HTTP_STR_MATCH**: Route 53 tries to establish a TCP connection. If successful, Route 53 submits an HTTP request and searches the first 5,120 bytes of the response body for the string that you specify in SearchString.

- **HTTPS_STR_MATCH**: Route 53 tries to establish a TCP connection. If successful, Route 53 submits an HTTPS request and searches the first 5,120 bytes of the response body for the string that you specify in SearchString.

- **TCP**: Route 53 tries to establish a TCP connection.

- **CLOUDWATCH_METRIC**: The health check is associated with a CloudWatch alarm. If the state of the alarm is OK, the health check is considered healthy. If the state is ALARM, the health check is considered unhealthy. If CloudWatch doesn't have sufficient data to determine whether the state is OK or ALARM, the health check status depends on the setting for InsufficientDataHealthStatus: Healthy, Unhealthy, or LastKnownStatus.
• **CALCULATED**: For health checks that monitor the status of other health checks, Route 53 adds up the number of health checks that Route 53 health checkers consider to be healthy and compares that number with the value of `HealthThreshold`.

• **RECOVERY_CONTROL**: The health check is associated with a Route53 Application Recovery Controller routing control. If the routing control state is **ON**, the health check is considered healthy. If the state is **OFF**, the health check is considered unhealthy.

For more information, see How Route 53 Determines Whether an Endpoint Is Healthy in the Amazon Route 53 Developer Guide.

Type: String

Valid Values: HTTP | HTTPS | HTTP_STR_MATCH | HTTPS_STR_MATCH | TCP | CALCULATED | CLOUDWATCH_METRIC | RECOVERY_CONTROL

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

• AWS SDK for C++
• AWS SDK for Go
• AWS SDK for Java V2
• AWS SDK for Ruby V3
HealthCheckObservation
Service: Amazon Route 53

A complex type that contains the last failure reason as reported by one Amazon Route 53 health checker.

Contents

IPAddress

The IP address of the Amazon Route 53 health checker that provided the failure reason in StatusReport.

Type: String

Length Constraints: Maximum length of 45.

Pattern: (^(((\[0-9\]|\[1-9\]|1\[0-9\]|2\[0-4]\|25\[0-5]))\.){3}(\[0-9\]|1\[0-9\]|1\[0-9]\|2\[0-4]\|25\[0-5]))$|^((\[0-9a-fA-F]\|1,4):(7,7)(\[0-9a-fA-F])(1,4):(5,1,6):\[0-9a-fA-F]\(1,4):(1,1,5):\[0-9a-fA-F]\(1,4):1,2):\[0-9a-fA-F]\(1,4)\(1,4):(1,4):\(1,4,1,4):1,3):\[0-9a-fA-F]\(1,4):1,5,1,6):\[0-9a-fA-F]\(1,4):1,7):\[0-9a-fA-F]\(1,4):1,6):\[0-9a-fA-F]\(1,4):1,7):\[0-9a-fA-F]\(1,4):1,6):\[0-9a-fA-F]\(1,4):1,7):\[0-9a-fA-F]\(1,4):1,6):\[0-9a-fA-F]\(1,4):1,7):\[0-9a-fA-F]\(1,4):1,6):\[0-9a-fA-F]\(1,4):1,7):\[0-9a-fA-F]\(1,4):1,6):\[0-9a-fA-F]\(1,4):1,7):\[0-9a-fA-F]\(1,4):1,6):\[0-9a-fA-F]\(1,4):1,7):\[0-9a-fA-F]\(1,4):1,6):\[0-9a-fA-F]\(1,4):1,7):\[0-9a-fA-F]\(1,4):1,6):\[0-9a-fA-F]\(1,4):1,7):\[0-9a-fA-F]\(1,4):1,6):\[0-9a-fA-F]\(1,4):1,7):\[0-9a-fA-F]\(1,4):1,6):\[0-9a-fA-F]\(1,4):1,7):\[0-9a-fA-F]\(1,4):1,6):\[0-9a-fA-F]\(1,4):1,7):\[0-9a-fA-F]\(1,4):1,6):\[0-9a-fA-F]\(1,4):1,7):\[0-9a-fA-F]\(1,4):1,6):\[0-9a-fA-F]\(1,4):1,7):\[0-9a-fA-F]\(1,4):1,6):\[0-9a-fA-F]\(1,4):1,7):\[0-9a-fA-F]\(1,4):1,6):\[0-9a-fA-F]\(1,4):1,7):\[0-9a-fA-F]\(1,4):1,6):\[0-9a-fA-F]\(1,4):1,7):\[0-9a-fA-F]\(1,4):1,6):\[0-9a-fA-F]\(1,4):1,7):\[0-9a-fA-F]\(1,4):1,6):\[0-9a-fA-F]\(1,4):1,7):\[0-9a-fA-F]\(1,4):1,6):\[0-9a-fA-F]\(1,4):1,7):\[0-9a-fA-F]\(1,4):1,6):\[0-9a-fA-F]\(1,4):1,7):\[0-9a-fA-F]\(1,4):1,6):\[0-9a-fA-F]\(1,4):1,7):\[0-9a-fA-F]\(1,4):1,6):\[0-9a-fA-F]\(1,4):1,7):\[0-9a-fA-F]\(1,4):1,6):\[0-9a-fA-F]\(1,4):1,7):\[0-9a-fA-F]\(1,4):1,6):\[0-9a-fA-F]\(1,4):1,7):\[0-9a-fA-F]\(1,4):1,6):\[0-9a-fA-F]\(1,4):1,7):

Required: No

Region

The region of the Amazon Route 53 health checker that provided the status in StatusReport.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: us-east-1 | us-west-1 | us-west-2 | eu-west-1 | ap-southeast-1 | ap-southeast-2 | ap-northeast-1 | sa-east-1

Required: No

StatusReport

A complex type that contains the last failure reason as reported by one Amazon Route 53 health checker and the time of the failed health check.

Type: StatusReport (p. 637) object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
• AWS SDK for Ruby V3
HostedZone
Service: Amazon Route 53

A complex type that contains general information about the hosted zone.

Contents

**CallerReference**

The value that you specified for CallerReference when you created the hosted zone.

Type: String


Required: Yes

**Config**

A complex type that includes the Comment and PrivateZone elements. If you omitted the HostedZoneConfig and Comment elements from the request, the Config and Comment elements don't appear in the response.

Type: HostedZoneConfig (p. 616) object

Required: No

**Id**

The ID that Amazon Route 53 assigned to the hosted zone when you created it.

Type: String

Length Constraints: Maximum length of 32.

Required: Yes

**LinkedService**

If the hosted zone was created by another service, the service that created the hosted zone. When a hosted zone is created by another service, you can't edit or delete it using Route 53.

Type: LinkedService (p. 624) object

Required: No

**Name**

The name of the domain. For public hosted zones, this is the name that you have registered with your DNS registrar.

For information about how to specify characters other than a–z, 0–9, and – (hyphen) and how to specify internationalized domain names, see CreateHostedZone.

Type: String

Length Constraints: Maximum length of 1024.

Required: Yes

**ResourceRecordSetCount**

The number of resource record sets in the hosted zone.
Type: Long
Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
HostedZoneConfig

Service: Amazon Route 53

A complex type that contains an optional comment about your hosted zone. If you don't want to specify a comment, omit both the HostedZoneConfig and Comment elements.

Contents

Comment

Any comments that you want to include about the hosted zone.

Type: String

Length Constraints: Maximum length of 256.

Required: No

PrivateZone

A value that indicates whether this is a private hosted zone.

Type: Boolean

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
HostedZoneLimit

Service: Amazon Route 53

A complex type that contains the type of limit that you specified in the request and the current value for that limit.

Contents

Type

The limit that you requested. Valid values include the following:

- **MAX_RRSETS_BY_ZONE**: The maximum number of records that you can create in the specified hosted zone.
- **MAX_VPCS_ASSOCIATED_BY_ZONE**: The maximum number of Amazon VPCs that you can associate with the specified private hosted zone.

Type: String

Valid Values: MAX_RRSETS_BY_ZONE | MAX_VPCS_ASSOCIATED_BY_ZONE

Required: Yes

Value

The current value for the limit that is specified by Type.

Type: Long

Valid Range: Minimum value of 1.

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
HostedZoneOwner

Service: Amazon Route 53

A complex type that identifies a hosted zone that a specified Amazon VPC is associated with and the owner of the hosted zone. If there is a value for OwningAccount, there is no value for OwningService, and vice versa.

Contents

**OwningAccount**

If the hosted zone was created by an AWS account, or was created by an AWS service that creates hosted zones using the current account, OwningAccount contains the account ID of that account. For example, when you use AWS Cloud Map to create a hosted zone, Cloud Map creates the hosted zone using the current AWS account.

Type: String

Required: No

**OwningService**

If an AWS service uses its own account to create a hosted zone and associate the specified VPC with that hosted zone, OwningService contains an abbreviation that identifies the service. For example, if Amazon Elastic File System (Amazon EFS) created a hosted zone and associated a VPC with the hosted zone, the value of OwningService is efs.amazonaws.com.

Type: String

Length Constraints: Maximum length of 128.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
HostedZoneSummary
Service: Amazon Route 53

In the response to a ListHostedZonesByVPC request, the HostedZoneSummaries element contains one HostedZoneSummary element for each hosted zone that the specified Amazon VPC is associated with. Each HostedZoneSummary element contains the hosted zone name and ID, and information about who owns the hosted zone.

Contents

HostedZoneId
The Route 53 hosted zone ID of a private hosted zone that the specified VPC is associated with.
Type: String
Length Constraints: Maximum length of 32.
Required: Yes

Name
The name of the private hosted zone, such as example.com.
Type: String
Length Constraints: Maximum length of 1024.
Required: Yes

Owner
The owner of a private hosted zone that the specified VPC is associated with. The owner can be either an AWS account or an AWS service.
Type: HostedZoneOwner (p. 618) object
Required: Yes

See Also
For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
KeySigningKey

Service: Amazon Route 53

A key-signing key (KSK) is a complex type that represents a public/private key pair. The private key is used to generate a digital signature for the zone signing key (ZSK). The public key is stored in the DNS and is used to authenticate the ZSK. A KSK is always associated with a hosted zone; it cannot exist by itself.

Contents

**CreatedDate**

The date when the key-signing key (KSK) was created.

Type: Timestamp

Required: No

**DigestAlgorithmMnemonic**

A string used to represent the delegation signer digest algorithm. This value must follow the guidelines provided by RFC-8624 Section 3.3.

Type: String

Required: No

**DigestAlgorithmType**

An integer used to represent the delegation signer digest algorithm. This value must follow the guidelines provided by RFC-8624 Section 3.3.

Type: Integer

Required: No

**DigestValue**

A cryptographic digest of a DNSKEY resource record (RR). DNSKEY records are used to publish the public key that resolvers can use to verify DNSSEC signatures that are used to secure certain kinds of information provided by the DNS system.

Type: String

Required: No

**DNSKEYRecord**

A string that represents a DNSKEY record.

Type: String

Required: No

**DSRecord**

A string that represents a delegation signer (DS) record.

Type: String

Required: No

**Flag**

An integer that specifies how the key is used. For key-signing key (KSK), this value is always 257.
KeySigningKey

Type: Integer
Required: No

KeyTag
An integer used to identify the DNSSEC record for the domain name. The process used to calculate the value is described in RFC-4034 Appendix B.
Type: Integer
Valid Range: Minimum value of 0. Maximum value of 65536.
Required: No

KmsArn
The Amazon resource name (ARN) used to identify the customer managed key in AWS Key Management Service (AWS KMS). The KmsArn must be unique for each key-signing key (KSK) in a single hosted zone.
You must configure the customer managed key as follows:
Status
   Enabled
Key spec
   ECC_NIST_P256
Key usage
   Sign and verify
Key policy
   The key policy must give permission for the following actions:
     • DescribeKey
     • GetPublicKey
     • Sign
     The key policy must also include the Amazon Route 53 service in the principal for your account. Specify the following:
       • "Service": "dnssec-route53.amazonaws.com"
For more information about working with the customer managed key in AWS KMS, see AWS Key Management Service concepts.
Type: String
Required: No

LastModifiedDate
The last time that the key-signing key (KSK) was changed.
Type: Timestamp
Required: No

Name
A string used to identify a key-signing key (KSK). Name can include numbers, letters, and underscores (_). Name must be unique for each key-signing key in the same hosted zone.
Type: String
Required: No

**PublicKey**

The public key, represented as a Base64 encoding, as required by RFC-4034 Page 5.
Type: String
Required: No

**SigningAlgorithmMnemonic**

A string used to represent the signing algorithm. This value must follow the guidelines provided by RFC-8624 Section 3.1.
Type: String
Required: No

**SigningAlgorithmType**

An integer used to represent the signing algorithm. This value must follow the guidelines provided by RFC-8624 Section 3.1.
Type: Integer
Required: No

**Status**

A string that represents the current key-signing key (KSK) status.

Status can have one of the following values:
ACTIVE
The KSK is being used for signing.
INACTIVE
The KSK is not being used for signing.
DELETING
The KSK is in the process of being deleted.
ACTION_NEEDED
There is a problem with the KSK that requires you to take action to resolve. For example, the customer managed key might have been deleted, or the permissions for the customer managed key might have been changed.
INTERNAL_FAILURE
There was an error during a request. Before you can continue to work with DNSSEC signing, including actions that involve this KSK, you must correct the problem. For example, you may need to activate or deactivate the KSK.

Type: String
Required: No
**StatusMessage**

The status message provided for the following key-signing key (KSK) statuses: `ACTION_NEEDED` or `INTERNAL_FAILURE`. The status message includes information about what the problem might be and steps that you can take to correct the issue.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 512.

Required: No

**See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
LinkedService
Service: Amazon Route 53

If a health check or hosted zone was created by another service, LinkedService is a complex type that describes the service that created the resource. When a resource is created by another service, you can't edit or delete it using Amazon Route 53.

Contents

Description

If the health check or hosted zone was created by another service, an optional description that can be provided by the other service. When a resource is created by another service, you can't edit or delete it using Amazon Route 53.

Type: String

Length Constraints: Maximum length of 256.

Required: No

ServicePrincipal

If the health check or hosted zone was created by another service, the service that created the resource. When a resource is created by another service, you can't edit or delete it using Amazon Route 53.

Type: String

Length Constraints: Maximum length of 128.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
QueryLoggingConfig

Service: Amazon Route 53

A complex type that contains information about a configuration for DNS query logging.

Contents

CloudWatchLogsLogGroupArn

The Amazon Resource Name (ARN) of the CloudWatch Logs log group that Amazon Route 53 is publishing logs to.

Type: String
Required: Yes

HostedZoneId

The ID of the hosted zone that CloudWatch Logs is logging queries for.

Type: String
Length Constraints: Maximum length of 32.
Required: Yes

Id

The ID for a configuration for DNS query logging.

Type: String
Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
ResourceRecord
Service: Amazon Route 53

Information specific to the resource record.

**Note**
If you're creating an alias resource record set, omit ResourceRecord.

**Contents**

**Value**

The current or new DNS record value, not to exceed 4,000 characters. In the case of a DELETE action, if the current value does not match the actual value, an error is returned. For descriptions about how to format value for different record types, see Supported DNS Resource Record Types in the Amazon Route 53 Developer Guide.

You can specify more than one value for all record types except CNAME and SOA.

**Note**
If you're creating an alias resource record set, omit value.

Type: String

Length Constraints: Maximum length of 4000.

Required: Yes

**See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
ResourceRecordSet
Service: Amazon Route 53

Information about the resource record set to create or delete.

Contents

AliasTarget

Alias resource record sets only: Information about the AWS resource, such as a CloudFront distribution or an Amazon S3 bucket, that you want to route traffic to.

If you’re creating resource records sets for a private hosted zone, note the following:

• You can't create an alias resource record set in a private hosted zone to route traffic to a CloudFront distribution.
• Creating geolocation alias resource record sets or latency alias resource record sets in a private hosted zone is unsupported.
• For information about creating failover resource record sets in a private hosted zone, see Configuring Failover in a Private Hosted Zone in the Amazon Route 53 Developer Guide.

Type: AliasTarget (p. 585) object

Required: No

Failover

Failover resource record sets only: To configure failover, you add the Failover element to two resource record sets. For one resource record set, you specify PRIMARY as the value for Failover; for the other resource record set, you specify SECONDARY. In addition, you include the HealthCheckId element and specify the health check that you want Amazon Route 53 to perform for each resource record set.

Except where noted, the following failover behaviors assume that you have included the HealthCheckId element in both resource record sets:

• When the primary resource record set is healthy, Route 53 responds to DNS queries with the applicable value from the primary resource record set regardless of the health of the secondary resource record set.
• When the primary resource record set is unhealthy and the secondary resource record set is healthy, Route 53 responds to DNS queries with the applicable value from the secondary resource record set.
• When the secondary resource record set is unhealthy, Route 53 responds to DNS queries with the applicable value from the primary resource record set regardless of the health of the primary resource record set.
• If you omit the HealthCheckId element for the secondary resource record set, and if the primary resource record set is unhealthy, Route 53 always responds to DNS queries with the applicable value from the secondary resource record set. This is true regardless of the health of the associated endpoint.

You can't create non-failover resource record sets that have the same values for the Name and Type elements as failover resource record sets.

For failover alias resource record sets, you must also include the EvaluateTargetHealth element and set the value to true.

For more information about configuring failover for Route 53, see the following topics in the Amazon Route 53 Developer Guide:

• Route 53 Health Checks and DNS Failover
• Configuring Failover in a Private Hosted Zone

Type: String

Valid Values: PRIMARY | SECONDARY

Required: No

GeoLocation

GeoLocation resource record sets only: A complex type that lets you control how Amazon Route 53 responds to DNS queries based on the geographic origin of the query. For example, if you want all queries from Africa to be routed to a web server with an IP address of 192.0.2.111, create a resource record set with a Type of A and a ContinentCode of AF.

Note

Although creating geolocation and geolocation alias resource record sets in a private hosted zone is allowed, it's not supported.

If you create separate resource record sets for overlapping geographic regions (for example, one resource record set for a continent and one for a country on the same continent), priority goes to the smallest geographic region. This allows you to route most queries for a continent to one resource and to route queries for a country on that continent to a different resource.

You can't create two geolocation resource record sets that specify the same geographic location.

The value * in the CountryCode element matches all geographic locations that aren't specified in other geolocation resource record sets that have the same values for the Name and Type elements.

Important

Geolocation works by mapping IP addresses to locations. However, some IP addresses aren't mapped to geographic locations, so even if you create geolocation resource record sets that cover all seven continents, Route 53 will receive some DNS queries from locations that it can't identify. We recommend that you create a resource record set for which the value of CountryCode is *. Two groups of queries are routed to the resource that you specify in this record: queries that come from locations for which you haven't created geolocation resource record sets and queries from IP addresses that aren't mapped to a location. If you don't create a * resource record set, Route 53 returns a "no answer" response for queries from those locations.

You can't create non-geolocation resource record sets that have the same values for the Name and Type elements as geolocation resource record sets.

Type: GeoLocation (p. 599) object

Required: No

HealthCheckId

If you want Amazon Route 53 to return this resource record set in response to a DNS query only when the status of a health check is healthy, include the HealthCheckId element and specify the ID of the applicable health check.

Route 53 determines whether a resource record set is healthy based on one of the following:
• By periodically sending a request to the endpoint that is specified in the health check
• By aggregating the status of a specified group of health checks (calculated health checks)
• By determining the current state of a CloudWatch alarm (CloudWatch metric health checks)

Important

Route 53 doesn't check the health of the endpoint that is specified in the resource record set, for example, the endpoint specified by the IP address in the Value element. When you
add a `HealthCheckId` element to a resource record set, Route 53 checks the health of the endpoint that you specified in the health check.

For more information, see the following topics in the *Amazon Route 53 Developer Guide*:

- How Amazon Route 53 Determines Whether an Endpoint Is Healthy
- Route 53 Health Checks and DNS Failover
- Configuring Failover in a Private Hosted Zone

**When to Specify HealthCheckId**

Specifying a value for `HealthCheckId` is useful only when Route 53 is choosing between two or more resource record sets to respond to a DNS query, and you want Route 53 to base the choice in part on the status of a health check. Configuring health checks makes sense only in the following configurations:

- **Non-alias resource record sets**: You're checking the health of a group of non-alias resource record sets that have the same routing policy, name, and type (such as multiple weighted records named `www.example.com` with a type of `A`) and you specify health check IDs for all the resource record sets.

  If the health check status for a resource record set is healthy, Route 53 includes the record among the records that it responds to DNS queries with.

  If the health check status for a resource record set is unhealthy, Route 53 stops responding to DNS queries using the value for that resource record set.

  If the health check status for all resource record sets in the group is unhealthy, Route 53 considers all resource record sets in the group healthy and responds to DNS queries accordingly.

- **Alias resource record sets**: You specify the following settings:

  - You set `EvaluateTargetHealth` to `true` for an alias resource record set in a group of resource record sets that have the same routing policy, name, and type (such as multiple weighted records named `www.example.com` with a type of `A`).
  - You configure the alias resource record set to route traffic to a non-alias resource record set in the same hosted zone.
  - You specify a health check ID for the non-alias resource record set.

  If the health check status is healthy, Route 53 considers the alias resource record set to be healthy and includes the alias record among the records that it responds to DNS queries with.

  If the health check status is unhealthy, Route 53 stops responding to DNS queries using the alias resource record set.

  **Note**

  The alias resource record set can also route traffic to a *group* of non-alias resource record sets that have the same routing policy, name, and type. In that configuration, associate health checks with all of the resource record sets in the group of non-alias resource record sets.

**Geolocation Routing**

For geolocation resource record sets, if an endpoint is unhealthy, Route 53 looks for a resource record set for the larger, associated geographic region. For example, suppose you have resource record sets for a state in the United States, for the entire United States, for North America, and a resource record set that has `*` for `CountryCode` is `*`, which applies to all locations. If the endpoint for the state resource record set is unhealthy, Route 53 checks for healthy resource record sets in the following order until it finds a resource record set for which the endpoint is healthy:

- The United States
- North America
• The default resource record set

**Specifying the Health Check Endpoint by Domain Name**

If your health checks specify the endpoint only by domain name, we recommend that you create a separate health check for each endpoint. For example, create a health check for each HTTP server that is serving content for www.example.com. For the value of `FullyQualifiedDomainName`, specify the domain name of the server (such as `us-east-2-www.example.com`), not the name of the resource record sets (www.example.com).

**Important**
Health check results will be unpredictable if you do the following:

- Create a health check that has the same value for `FullyQualifiedDomainName` as the name of a resource record set.
- Associate that health check with the resource record set.

Type: String
Length Constraints: Maximum length of 64.
Required: No

**MultiValueAnswer**

*Multivalue answer resource record sets only:* To route traffic approximately randomly to multiple resources, such as web servers, create one multivalue answer record for each resource and specify true for `MultiValueAnswer`. Note the following:

- If you associate a health check with a multivalue answer resource record set, Amazon Route 53 responds to DNS queries with the corresponding IP address only when the health check is healthy.
- If you don't associate a health check with a multivalue answer record, Route 53 always considers the record to be healthy.
- Route 53 responds to DNS queries with up to eight healthy records; if you have eight or fewer healthy records, Route 53 responds to all DNS queries with all the healthy records.
- If you have more than eight healthy records, Route 53 responds to different DNS resolvers with different combinations of healthy records.
- When all records are unhealthy, Route 53 responds to DNS queries with up to eight unhealthy records.
- If a resource becomes unavailable after a resolver caches a response, client software typically tries another of the IP addresses in the response.

You can't create multivalue answer alias records.

Type: Boolean
Required: No

**Name**

For `ChangeResourceRecordSets` requests, the name of the record that you want to create, update, or delete. For `ListResourceRecordSets` responses, the name of a record in the specified hosted zone.

**ChangeResourceRecordSets Only**

Enter a fully qualified domain name, for example, `www.example.com`. You can optionally include a trailing dot. If you omit the trailing dot, Amazon Route 53 assumes that the domain name that you specify is fully qualified. This means that Route 53 treats `www.example.com` (without a trailing dot) and `www.example.com.` (with a trailing dot) as identical.
For information about how to specify characters other than a–z, 0–9, and – (hyphen) and how to specify internationalized domain names, see DNS Domain Name Format in the Amazon Route 53 Developer Guide.

You can use the asterisk (*) wildcard to replace the leftmost label in a domain name, for example, *.example.com. Note the following:

- The * must replace the entire label. For example, you can't specify prod.example.com or prod*.example.com.
- The * can't replace any of the middle labels, for example, marketing.*.example.com.
- If you include * in any position other than the leftmost label in a domain name, DNS treats it as an * character (ASCII 42), not as a wildcard.

**Important**
You can't use the * wildcard for resource records sets that have a type of NS.

You can use the * wildcard as the leftmost label in a domain name, for example, *.example.com. You can't use an * for one of the middle labels, for example, marketing.*.example.com. In addition, the * must replace the entire label; for example, you can't specify prod*.example.com.

**Type:** String

**Length Constraints:** Maximum length of 1024.

**Required:** Yes

**Region**

*Latency-based resource record sets only:* The Amazon EC2 Region where you created the resource that this resource record set refers to. The resource typically is an AWS resource, such as an EC2 instance or an ELB load balancer, and is referred to by an IP address or a DNS domain name, depending on the record type.

**Note**
Although creating latency and latency alias resource record sets in a private hosted zone is allowed, it's not supported.

When Amazon Route 53 receives a DNS query for a domain name and type for which you have created latency resource record sets, Route 53 selects the latency resource record set that has the lowest latency between the end user and the associated Amazon EC2 Region. Route 53 then returns the value that is associated with the selected resource record set.

**Note the following:**

- You can only specify one ResourceRecord per latency resource record set.
- You can only create one latency resource record set for each Amazon EC2 Region.
- You aren't required to create latency resource record sets for all Amazon EC2 Regions. Route 53 will choose the region with the best latency from among the regions that you create latency resource record sets for.
- You can't create non-latency resource record sets that have the same values for the Name and Type elements as latency resource record sets.

**Type:** String

**Length Constraints:** Minimum length of 1. Maximum length of 64.

**Valid Values:** us-east-1 | us-east-2 | us-west-1 | us-west-2 | ca-central-1 | eu-west-1 | eu-west-2 | eu-west-3 | eu-central-1 | ap-southeast-1 | ap-southeast-2 | ap-northeast-1 | ap-northeast-2 | ap-northeast-3 | eu-north-1 | sa-east-1 | cn-north-1 | cn-northwest-1 | ap-east-1 | me-south-1 | ap-south-1 | af-south-1 | eu-south-1
ResourceRecordSet

Information about the resource records to act upon.

**Note**

If you're creating an alias resource record set, omit ResourceRecords.

**Type:** Array of ResourceRecord (p. 626) objects

**Array Members:** Minimum number of 1 item.

**Required:** No

**SetIdentifier**

Resource record sets that have a routing policy other than simple: An identifier that differentiates among multiple resource record sets that have the same combination of name and type, such as multiple weighted resource record sets named acme.example.com that have a type of A. In a group of resource record sets that have the same name and type, the value of SetIdentifier must be unique for each resource record set.

For information about routing policies, see Choosing a Routing Policy in the Amazon Route 53 Developer Guide.

**Type:** String

**Length Constraints:** Minimum length of 1. Maximum length of 128.

**Required:** No

**TrafficPolicyInstanceId**

When you create a traffic policy instance, Amazon Route 53 automatically creates a resource record set. TrafficPolicyInstanceId is the ID of the traffic policy instance that Route 53 created this resource record set for.

**Important**

To delete the resource record set that is associated with a traffic policy instance, use DeleteTrafficPolicyInstance. Route 53 will delete the resource record set automatically. If you delete the resource record set by using ChangeResourceRecordSets, Route 53 doesn't automatically delete the traffic policy instance, and you'll continue to be charged for it even though it's no longer in use.

**Type:** String

**Length Constraints:** Minimum length of 1. Maximum length of 36.

**Required:** No

**TTL**

The resource record cache time to live (TTL), in seconds. Note the following:

- If you're creating or updating an alias resource record set, omit TTL. Amazon Route 53 uses the value of TTL for the alias target.
- If you're associating this resource record set with a health check (if you're adding a HealthCheckId element), we recommend that you specify a TTL of 60 seconds or less so clients respond quickly to changes in health status.
- All of the resource record sets in a group of weighted resource record sets must have the same value for TTL.
- If a group of weighted resource record sets includes one or more weighted alias resource record sets for which the alias target is an ELB load balancer, we recommend that you specify a TTL of 60
seconds for all of the non-alias weighted resource record sets that have the same name and type. Values other than 60 seconds (the TTL for load balancers) will change the effect of the values that you specify for Weight.

Type: Long

Valid Range: Minimum value of 0. Maximum value of 2147483647.

Required: No

**Type**

The DNS record type. For information about different record types and how data is encoded for them, see Supported DNS Resource Record Types in the Amazon Route 53 Developer Guide.

Valid values for basic resource record sets: A | AAAA | CAA | CNAME | DS | MX | NAPTR | NS | PTR | SOA | SPF | SRV | TXT

Values for weighted, latency, geolocation, and failover resource record sets: A | AAAA | CAA | CNAME | MX | NAPTR | PTR | SPF | SRV | TXT. When creating a group of weighted, latency, geolocation, or failover resource record sets, specify the same value for all of the resource record sets in the group.

Valid values for multivalue answer resource record sets: A | AAAA | MX | NAPTR | PTR | SPF | SRV | TXT

**Note**

SPF records were formerly used to verify the identity of the sender of email messages. However, we no longer recommend that you create resource record sets for which the value of Type is SPF. RFC 7208, Sender Policy Framework (SPF) for Authorizing Use of Domains in Email, Version 1, has been updated to say, "...[I]ts existence and mechanism defined in [RFC4408] have led to some interoperability issues. Accordingly, its use is no longer appropriate for SPF version 1; implementations are not to use it." In RFC 7208, see section 14.1, The SPF DNS Record Type.

Values for alias resource record sets:

- **Amazon API Gateway custom regional APIs and edge-optimized APIs:** A
- **CloudFront distributions:** A

  If IPv6 is enabled for the distribution, create two resource record sets to route traffic to your distribution, one with a value of A and one with a value of AAAA.

- **Amazon API Gateway environment that has a regionalized subdomain:** A
- **ELB load balancers:** A | AAAA
- **Amazon S3 buckets:** A
- **Amazon Virtual Private Cloud interface VPC endpoints** A
- **Another resource record set in this hosted zone:** Specify the type of the resource record set that you're creating the alias for. All values are supported except NS and SOA.

  **Note**

  If you're creating an alias record that has the same name as the hosted zone (known as the zone apex), you can't route traffic to a record for which the value of Type is CNAME. This is because the alias record must have the same type as the record you're routing traffic to, and creating a CNAME record for the zone apex isn't supported even for an alias record.

Type: String

Valid Values: SOA | A | TXT | NS | CNAME | MX | NAPTR | PTR | SRV | SPF | AAAA | CAA | DS

Required: Yes
Weight

*Weighted resource record sets only:* Among resource record sets that have the same combination of DNS name and type, a value that determines the proportion of DNS queries that Amazon Route 53 responds to using the current resource record set. Route 53 calculates the sum of the weights for the resource record sets that have the same combination of DNS name and type. Route 53 then responds to queries based on the ratio of a resource's weight to the total. Note the following:

- You must specify a value for the `Weight` element for every weighted resource record set.
- You can only specify one `ResourceRecord` per weighted resource record set.
- You can't create latency, failover, or geolocation resource record sets that have the same values for the `Name` and `Type` elements as weighted resource record sets.
- You can create a maximum of 100 weighted resource record sets that have the same values for the `Name` and `Type` elements.
- For weighted (but not weighted alias) resource record sets, if you set `Weight` to 0 for a resource record set, Route 53 never responds to queries with the applicable value for that resource record set. However, if you set `Weight` to 0 for all resource record sets that have the same combination of DNS name and type, traffic is routed to all resources with equal probability.

The effect of setting `Weight` to 0 is different when you associate health checks with weighted resource record sets. For more information, see Options for Configuring Route 53 Active-Active and Active-Passive Failover in the Amazon Route 53 Developer Guide.

Type: Long

Valid Range: Minimum value of 0. Maximum value of 255.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
ResourceTagSet
Service: Amazon Route 53

A complex type containing a resource and its associated tags.

Contents

ResourceId

The ID for the specified resource.
Type: String
Length Constraints: Maximum length of 64.
Required: No

ResourceType

The type of the resource.
• The resource type for health checks is healthcheck.
• The resource type for hosted zones is hostedzone.
Type: String
Valid Values: healthcheck | hostedzone
Required: No

Tags

The tags associated with the specified resource.
Type: Array of Tag (p. 638) objects
Array Members: Minimum number of 1 item. Maximum number of 10 items.
Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

• AWS SDK for C++
• AWS SDK for Go
• AWS SDK for Java V2
• AWS SDK for Ruby V3
ReusableDelegationSetLimit
Service: Amazon Route 53

A complex type that contains the type of limit that you specified in the request and the current value for that limit.

Contents

Type

The limit that you requested: MAX_ZONES_BY_REUSABLE_DELEGATION_SET, the maximum number of hosted zones that you can associate with the specified reusable delegation set.

Type: String

Valid Values: MAX_ZONES_BY_REUSABLE_DELEGATION_SET

Required: Yes

Value

The current value for the MAX_ZONES_BY_REUSABLE_DELEGATION_SET limit.

Type: Long

Valid Range: Minimum value of 1.

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
StatusReport
Service: Amazon Route 53

A complex type that contains the status that one Amazon Route 53 health checker reports and the time of the health check.

Contents

CheckedTime

The date and time that the health checker performed the health check in ISO 8601 format and Coordinated Universal Time (UTC). For example, the value 2017-03-27T17:48:16.751Z represents March 27, 2017 at 17:48:16.751 UTC.

Type: Timestamp

Required: No

Status

A description of the status of the health check endpoint as reported by one of the Amazon Route 53 health checkers.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
Tag

Service: Amazon Route 53

A complex type that contains information about a tag that you want to add or edit for the specified health check or hosted zone.

Contents

Key

The value of Key depends on the operation that you want to perform:

- **Add a tag to a health check or hosted zone**: Key is the name that you want to give the new tag.
- **Edit a tag**: Key is the name of the tag that you want to change the Value for.
- **Delete a key**: Key is the name of the tag you want to remove.
- **Give a name to a health check**: Edit the default Name tag. In the Amazon Route 53 console, the list of your health checks includes a Name column that lets you see the name that you've given to each health check.

Type: String

Length Constraints: Maximum length of 128.

Required: No

Value

The value of Value depends on the operation that you want to perform:

- **Add a tag to a health check or hosted zone**: Value is the value that you want to give the new tag.
- **Edit a tag**: Value is the new value that you want to assign the tag.

Type: String

Length Constraints: Maximum length of 256.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
**TrafficPolicy**

Service: Amazon Route 53

A complex type that contains settings for a traffic policy.

**Contents**

**Comment**

The comment that you specify in the CreateTrafficPolicy request, if any.

Type: String

Length Constraints: Maximum length of 1024.

Required: No

**Document**

The definition of a traffic policy in JSON format. You specify the JSON document to use for a new traffic policy in the CreateTrafficPolicy request. For more information about the JSON format, see Traffic Policy Document Format.

Type: String

Length Constraints: Maximum length of 102400.

Required: Yes

**Id**

The ID that Amazon Route 53 assigned to a traffic policy when you created it.

Type: String


Required: Yes

**Name**

The name that you specified when you created the traffic policy.

Type: String

Length Constraints: Maximum length of 512.

Required: Yes

**Type**

The DNS type of the resource record sets that Amazon Route 53 creates when you use a traffic policy to create a traffic policy instance.

Type: String

Valid Values: SOA | A | TXT | NS | CNAME | MX | NAPTR | PTR | SRV | SPF | AAAA | CAA | DS

Required: Yes

**Version**

The version number that Amazon Route 53 assigns to a traffic policy. For a new traffic policy, the value of Version is always 1.
TrafficPolicy

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 1000.

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
TrafficPolicyInstance
Service: Amazon Route 53

A complex type that contains settings for the new traffic policy instance.

Contents

HostedZoneId

The ID of the hosted zone that Amazon Route 53 created resource record sets in.

Type: String
Length Constraints: Maximum length of 32.
Required: Yes

Id

The ID that Amazon Route 53 assigned to the new traffic policy instance.

Type: String
Required: Yes

Message

If State is Failed, an explanation of the reason for the failure. If State is another value, Message is empty.

Type: String
Length Constraints: Maximum length of 1024.
Required: Yes

Name

The DNS name, such as www.example.com, for which Amazon Route 53 responds to queries by using the resource record sets that are associated with this traffic policy instance.

Type: String
Length Constraints: Maximum length of 1024.
Required: Yes

State

The value of State is one of the following values:
Applied

Amazon Route 53 has finished creating resource record sets, and changes have propagated to all Route 53 edge locations.
Creating

Route 53 is creating the resource record sets. Use GetTrafficPolicyInstance to confirm that the CreateTrafficPolicyInstance request completed successfully.
Failed

Route 53 wasn’t able to create or update the resource record sets. When the value of State is Failed, see Message for an explanation of what caused the request to fail.

Type: String
Required: Yes

TrafficPolicyId

The ID of the traffic policy that Amazon Route 53 used to create resource record sets in the specified hosted zone.

Type: String
Required: Yes

TrafficPolicyType

The DNS type that Amazon Route 53 assigned to all of the resource record sets that it created for this traffic policy instance.

Type: String
Valid Values: SOA | A | TXT | NS | CNAME | MX | NAPTR | PTR | SRV | SPF | AAAA | CAA | DS
Required: Yes

TrafficPolicyVersion

The version of the traffic policy that Amazon Route 53 used to create resource record sets in the specified hosted zone.

Type: Integer
Valid Range: Minimum value of 1. Maximum value of 1000.
Required: Yes

TTL

The TTL that Amazon Route 53 assigned to all of the resource record sets that it created in the specified hosted zone.

Type: Long
Valid Range: Minimum value of 0. Maximum value of 2147483647.
Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
TrafficPolicySummary

Service: Amazon Route 53

A complex type that contains information about the latest version of one traffic policy that is associated with the current AWS account.

Contents

Id

The ID that Amazon Route 53 assigned to the traffic policy when you created it.

Type: String


Required: Yes

LatestVersion

The version number of the latest version of the traffic policy.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 1000.

Required: Yes

Name

The name that you specified for the traffic policy when you created it.

Type: String

Length Constraints: Maximum length of 512.

Required: Yes

TrafficPolicyCount

The number of traffic policies that are associated with the current AWS account.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 1000.

Required: Yes

Type

The DNS type of the resource record sets that Amazon Route 53 creates when you use a traffic policy to create a traffic policy instance.

Type: String

Valid Values: SOA | A | TXT | NS | CNAME | MX | NAPTR | PTR | SRV | SPF | AAAA | CAA | DS

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:
• AWS SDK for C++
• AWS SDK for Go
• AWS SDK for Java V2
• AWS SDK for Ruby V3
VPC

Service: Amazon Route 53

(Private hosted zones only) A complex type that contains information about an Amazon VPC.

If you associate a private hosted zone with an Amazon VPC when you make a CreateHostedZone request, the following parameters are also required.

Contents

VPCId

(Private hosted zones only) The ID of an Amazon VPC.

Type: String

Length Constraints: Maximum length of 1024.

Required: No

VPCRegion

(Private hosted zones only) The region that an Amazon VPC was created in.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: us-east-1 | us-east-2 | us-west-1 | us-west-2 | eu-west-1 | eu-west-2 | eu-west-3 | eu-central-1 | ap-east-1 | me-south-1 | us-gov-west-1 | us-gov-east-1 | us-iso-east-1 | us-isob-east-1 | ap-southeast-1 | ap-southeast-2 | ap-south-1 | ap-northeast-1 | ap-northeast-2 | ap-northeast-3 | eu-north-1 | sa-east-1 | ca-central-1 | cn-north-1 | af-south-1 | eu-south-1

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Amazon Route 53 domain registration

The following data types are supported by Amazon Route 53 domain registration:

- BillingRecord  (p. 648)
- ContactDetail  (p. 650)
- DomainSuggestion  (p. 653)
- DomainSummary  (p. 655)
• DomainTransferability (p. 656)
• ExtraParam (p. 657)
• Nameserver (p. 663)
• OperationSummary (p. 664)
• Tag (p. 665)
BillingRecord
Service: Amazon Route 53 domain registration

Information for one billing record.

Contents

BillDate
The date that the operation was billed, in Unix format.
Type: Timestamp
Required: No

DomainName
The name of the domain that the billing record applies to. If the domain name contains characters other than a-z, 0-9, and - (hyphen), such as an internationalized domain name, then this value is in Punycode. For more information, see DNS Domain Name Format in the Amazon Route 53 Developer Guide.
Type: String
Length Constraints: Maximum length of 255.
Required: No

InvoiceId
The ID of the invoice that is associated with the billing record.
Type: String
Required: No

Operation
The operation that you were charged for.
Type: String
Valid Values: REGISTER_DOMAIN | DELETE_DOMAIN | TRANSFER_IN_DOMAIN |
UPDATE_DOMAIN_CONTACT | UPDATE_NAMESERVER | CHANGE_PRIVACY_PROTECTION |
DOMAIN_LOCK | ENABLE_AUTORENEW | DISABLE_AUTORENEW | ADD_DNSSEC |
REMOVE_DNSSEC | EXPIRE_DOMAIN | TRANSFER_OUT_DOMAIN | CHANGE_DOMAIN_OWNER |
RENEW_DOMAIN | PUSH_DOMAIN | INTERNAL_TRANSFER_OUT_DOMAIN |
INTERNAL_TRANSFER_IN_DOMAIN
Required: No

Price
The price that you were charged for the operation, in US dollars.
Example value: 12.0
Type: Double
Required: No
See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
ContactDetail
Service: Amazon Route 53 domain registration

ContactDetail includes the following elements.

Contents

AddressLine1
First line of the contact's address.
Type: String
Length Constraints: Maximum length of 255.
Required: No

AddressLine2
Second line of contact's address, if any.
Type: String
Length Constraints: Maximum length of 255.
Required: No

City
The city of the contact's address.
Type: String
Length Constraints: Maximum length of 255.
Required: No

ContactType
Indicates whether the contact is a person, company, association, or public organization. Note the following:
- If you specify a value other than PERSON, you must also specify a value for OrganizationName.
- For some TLDs, the privacy protection available depends on the value that you specify for Contact Type. For the privacy protection settings for your TLD, see Domains that You Can Register with Amazon Route 53 in the Amazon Route 53 Developer Guide
- For .es domains, the value of ContactType must be PERSON for all three contacts.
Type: String
Valid Values: PERSON | COMPANY | ASSOCIATION | PUBLIC_BODY | RESELLER
Required: No

CountryCode
Code for the country of the contact's address.
Type: String
Valid Values: AD | AE | AF | AG | AI | AL | AM | AN | AO | AQ | AR | AS | AT | AU | AW | AZ | BA | BB | BD | BE | BF | BG | BH | BI | BJ | BL | BM | BN | BO | BR | BS | BT | BW | BY | BZ | CA | CC | CD | CF | CG | CH | CI | CK |
<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
<th>Type</th>
<th>Constraints</th>
</tr>
</thead>
<tbody>
<tr>
<td>ContactDetail</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Email</td>
<td>Email address of the contact.</td>
<td>String</td>
<td>Length Constraints: Maximum length of 254.</td>
</tr>
<tr>
<td>ExtraParams</td>
<td>A list of name-value pairs for parameters required by certain top-level domains.</td>
<td>Array of ExtraParam objects</td>
<td>Required: No</td>
</tr>
<tr>
<td>Fax</td>
<td>Fax number of the contact.</td>
<td>String</td>
<td>Constraints: Phone number must be specified in the format &quot;+[country dialing code].[number including any area code]&quot;. For example, a US phone number might appear as &quot;+1.1234567890 &quot;</td>
</tr>
<tr>
<td>FirstName</td>
<td>First name of contact.</td>
<td>String</td>
<td>Length Constraints: Maximum length of 255.</td>
</tr>
<tr>
<td>LastName</td>
<td>Last name of contact.</td>
<td>String</td>
<td>Length Constraints: Maximum length of 255.</td>
</tr>
</tbody>
</table>
**OrganizationName**

Name of the organization for contact types other than PERSON.

Type: String

Length Constraints: Maximum length of 255.

Required: No

**PhoneNumber**

The phone number of the contact.

Constraints: Phone number must be specified in the format "+[country dialing code],[number including any area code>]". For example, a US phone number might appear as "+1.1234567890".

Type: String

Length Constraints: Maximum length of 30.

Required: No

**State**

The state or province of the contact's city.

Type: String

Length Constraints: Maximum length of 255.

Required: No

**ZipCode**

The zip or postal code of the contact's address.

Type: String

Length Constraints: Maximum length of 255.

Required: No

**See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
DomainSuggestion
Service: Amazon Route 53 domain registration
Information about one suggested domain name.

Contents

Availability
Whether the domain name is available for registering.

Note
You can register only the domains that are designated as AVAILABLE.

Valid values:
AVAILABLE
The domain name is available.
AVAILABLE_RESERVED
The domain name is reserved under specific conditions.
AVAILABLE_PREORDER
The domain name is available and can be preordered.
DONT_KNOW
The TLD registry didn't reply with a definitive answer about whether the domain name is available. Route 53 can return this response for a variety of reasons, for example, the registry is performing maintenance. Try again later.
PENDING
The TLD registry didn't return a response in the expected amount of time. When the response is delayed, it usually takes just a few extra seconds. You can resubmit the request immediately.
RESERVED
The domain name has been reserved for another person or organization.
UNAVAILABLE
The domain name is not available.
UNAVAILABLE_PREMIUM
The domain name is not available.
UNAVAILABLE_RESTRICTED
The domain name is forbidden.

Type: String
Required: No

DomainName
A suggested domain name.

Type: String
Length Constraints: Maximum length of 255.
Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
**DomainSummary**  
*Service: Amazon Route 53 domain registration*  
Summary information about one domain.

**Contents**

**AutoRenew**  
Indicates whether the domain is automatically renewed upon expiration.  
*Type: Boolean*  
*Required: No*

**DomainName**  
The name of the domain that the summary information applies to.  
*Type: String*  
*Length Constraints: Maximum length of 255.*  
*Required: Yes*

**Expiry**  
Expiration date of the domain in Unix time format and Coordinated Universal Time (UTC).  
*Type: Timestamp*  
*Required: No*

**TransferLock**  
Indicates whether a domain is locked from unauthorized transfer to another party.  
*Type: Boolean*  
*Required: No*

**See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
DomainTransferability

Service: Amazon Route 53 domain registration

A complex type that contains information about whether the specified domain can be transferred to Route 53.

Contents

Transferable

Whether the domain name can be transferred to Route 53.

Note

You can transfer only domains that have a value of TRANSFERABLE for Transferable.

Valid values:

TRANSFERABLE

The domain name can be transferred to Route 53.

UNTRANSFERRABLE

The domain name can't be transferred to Route 53.

DONT_KNOW

Reserved for future use.

Type: String

Valid Values: TRANSFERABLE | UNTRANSFERRABLE | DONT_KNOW

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
ExtraParam
Service: Amazon Route 53 domain registration

ExtraParam includes the following elements.

Contents

Name

The name of an additional parameter that is required by a top-level domain. Here are the top-level domains that require additional parameters and the names of the parameters that they require:

.com.au and .net.au
- AU_ID_NUMBER
- AU_ID_TYPE

Valid values include the following:
- ABN (Australian business number)
- ACN (Australian company number)
- TM (Trademark number)

.ca
- BRAND_NUMBER
- CA_BUSINESS_ENTITY_TYPE

Valid values include the following:
- BANK (Bank)
- COMMERCIALCOMPANY (Commercial company)
- COMPANY (Company)
- COOPERATION (Cooperation)
- COOPERATIVE (Cooperative)
- COOPRIX (Cooprix)
- CORP (Corporation)
- CREDIT_UNION (Credit union)
- FOMIA (Federation of mutual insurance associations)
- INC (Incorporated)
- LTD (Limited)
- LTEE (Limitée)
- LLC (Limited liability corporation)
- LLP (Limited liability partnership)
- LTE (Lte.)
- MBA (Mutual benefit association)
- MIC (Mutual insurance company)
- NFP (Not-for-profit corporation)
- SA (S.A.)
- SAVINGSCOMPANY (Savings company)
- SAVINGSUNION (Savings union)
- SARL (Société à responsabilité limitée)
- TRUST (Trust)
- ULC (Unlimited liability corporation)
• **CA_LEGAL_TYPE**

  When `ContactType` is `PERSON`, valid values include the following:
  • `ABO` (Aboriginal Peoples indigenous to Canada)
  • `CCT` (Canadian citizen)
  • `LGR` (Legal Representative of a Canadian Citizen or Permanent Resident)
  • `RES` (Permanent resident of Canada)

  When `ContactType` is a value other than `PERSON`, valid values include the following:
  • `ASS` (Canadian unincorporated association)
  • `CCO` (Canadian corporation)
  • `EDU` (Canadian educational institution)
  • `GOV` (Government or government entity in Canada)
  • `HOP` (Canadian Hospital)
  • `INB` (Indian Band recognized by the Indian Act of Canada)
  • `LAM` (Canadian Library, Archive, or Museum)
  • `MAJ` (Her/His Majesty the Queen/King)
  • `OMK` (Official mark registered in Canada)
  • `PLT` (Canadian Political Party)
  • `PRT` (Partnership Registered in Canada)
  • `TDM` (Trademark registered in Canada)
  • `TRD` (Canadian Trade Union)
  • `TRS` (Trust established in Canada)

• **ES_IDENTIFICATION**

  The value of `ES_IDENTIFICATION` depends on the following values:
  • The value of `ES_LEGAL_FORM`
  • The value of `ES_IDENTIFICATION_TYPE`

  **If `ES_LEGAL_FORM` is any value other than `INDIVIDUAL`:**
  • Specify 1 letter + 8 numbers (CIF [Certificado de Identificación Fiscal])
  • Example: B12345678

  **If `ES_LEGAL_FORM` is `INDIVIDUAL`, the value that you specify for `ES_IDENTIFICATION` depends on the value of `ES_IDENTIFICATION_TYPE`:**
  • If `ES_IDENTIFICATION_TYPE` is `DNI_AND_NIF` (for Spanish contacts):
    • Specify 8 numbers + 1 letter (DNI [Documento Nacional de Identidad], NIF [Número de Identificación Fiscal])
    • Example: 12345678M
  • If `ES_IDENTIFICATION_TYPE` is `NIE` (for foreigners with legal residence):
    • Specify 1 letter + 7 numbers + 1 letter (NIE [Número de Identidad de Extranjero])
    • Example: Y1234567X
  • If `ES_IDENTIFICATION_TYPE` is `OTHER` (for contacts outside of Spain):
    • Specify a passport number, drivers license number, or national identity card number

• **ES_IDENTIFICATION_TYPE**

  Valid values include the following:
  • `DNI_AND_NIF` (For Spanish contacts)
• NIE (For foreigners with legal residence)
• OTHER (For contacts outside of Spain)

• ES_LEGAL_FORM

Valid values include the following:
• ASSOCIATION
• CENTRAL_GOVERNMENT_BODY
• CIVIL_SOCIETY
• COMMUNITY_OF_OWNERS
• COMMUNITY_PROPERTY
• CONSULATE
• COOPERATIVE
• DESIGNATION_OF_ORIGIN_SUPERVISORY_COUNCIL
• ECONOMIC_INTEREST_GROUP
• EMBASSY
• ENTITY_MANAGING_NATURAL AREAS
• FARM_PARTNERSHIP
• FOUNDATION
• GENERAL_AND_LIMITED_PARTNERSHIP
• GENERAL_PARTNERSHIP
• INDIVIDUAL
• LIMITED_COMPANY
• LOCAL_AUTHORITY
• LOCAL_PUBLIC_ENTITY
• MUTUAL_INSURANCE_COMPANY
• NATIONAL_PUBLIC_ENTITY
• ORDER_OR_RELIGIOUS_INSTITUTION
• OTHERS (Only for contacts outside of Spain)
• POLITICAL_PARTY
• PROFESSIONAL_ASSOCIATION
• PUBLIC_LAW_ASSOCIATION
• PUBLICLIMITED_COMPANY
• REGIONAL_GOVERNMENT_BODY
• REGIONAL_PUBLIC_ENTITY
• SAVINGS_BANK
• SPANISH_OFFICE
• SPORTS_ASSOCIATION
• SPORTS_FEDERATION
• SPORTS_LIMITED_COMPANY
• TEMPORARY_ALLIANCE_OF_ENTERPRISES
• TRADE_UNION
• WORKER OWNED COMPANY
• WORKER OWNED LIMITED COMPANY

• EU_COUNTRY_OF_CITIZENSHIP
.fi
- BIRTH_DATE_IN_YYYY_MM_DD
- FI_BUSINESS_NUMBER
- FI_ID_NUMBER
- FI_NATIONALITY

Valid values include the following:
- FINNISH
- NOT_FINNISH
- FI_ORGANIZATION_TYPE

Valid values include the following:
- COMPANY
- CORPORATION
- GOVERNMENT
- INSTITUTION
- POLITICAL_PARTY
- PUBLIC_COMMUNITY
- TOWNSHIP

.fr
- BIRTH_CITY
- BIRTH_COUNTRY
- BIRTH_DATE_IN_YYYY_MM_DD
- BIRTH_DEPARTMENT: Specify the INSEE code that corresponds with the department where the contact was born. If the contact was born somewhere other than France or its overseas departments, specify 99. For more information, including a list of departments and the corresponding INSEE numbers, see the Wikipedia entry Departments of France.
- BRAND_NUMBER

.it
- IT_NATIONALITY
- IT_PIN
- IT_REGISTRANT_ENTITY_TYPE

Valid values include the following:
- FOREIGNERS
- FREELANCE_WORKERS (Freelance workers and professionals)
- ITALIAN_COMPANIES (Italian companies and one-person companies)
- NON_PROFIT_ORGANIZATIONS
- OTHER_SUBJECTS
- PUBLIC_ORGANIZATIONS

.ru
- BIRTH_DATE_IN_YYYY_MM_DD
- RU_PASSPORT_DATA

.se
- BIRTH_COUNTRY
- SE_ID_NUMBER

.sg
- SG_ID_NUMBER
.co.uk, .me.uk, and .org.uk

- **UK_CONTACT_TYPE**

  Valid values include the following:
  - CRC (UK Corporation by Royal Charter)
  - FCORP (Non-UK Corporation)
  - FIND (Non-UK Individual, representing self)
  - FOTHER (Non-UK Entity that does not fit into any other category)
  - GOV (UK Government Body)
  - IND (UK Individual (representing self))
  - IP (UK Industrial/Provident Registered Company)
  - LLP (UK Limited Liability Partnership)
  - LTD (UK Limited Company)
  - OTHER (UK Entity that does not fit into any other category)
  - PLC (UK Public Limited Company)
  - PTNR (UK Partnership)
  - RCHAR (UK Registered Charity)
  - SCH (UK School)
  - STAT (UK Statutory Body)
  - STRA (UK Sole Trader)
  - **UK_COMPANY_NUMBER**

  In addition, many TLDs require a VAT_NUMBER.

  **Type:** String

  **Valid Values:** DUNS_NUMBER | BRAND_NUMBER | BIRTH_DEPARTMENT | BIRTH_DATE_IN_YYYY-MM-DD | BIRTH_COUNTRY | BIRTH_CITY | DOCUMENT_NUMBER | AU_ID_NUMBER | AU_ID_TYPE | CA_LEGAL_TYPE | CA_BUSINESS_ENTITY_TYPE | CA_LEGAL_REPRESENTATIVE | CA_LEGAL_REPRESENTATIVE_CAPACITY | ES_IDENTIFICATION | ES_IDENTIFICATION_TYPE | ES_LEGAL_FORM | FI_BUSINESS_NUMBER | FI_ID_NUMBER | FI_NATIONALITY | FI_ORGANIZATION_TYPE | IT_NATIONALITY | IT_PIN | IT_REGISTRANT_ENTITY_TYPE | RU_PASSPORT_DATA | SE_ID_NUMBER | SG_ID_NUMBER | VAT_NUMBER | UK_CONTACT_TYPE | UK_COMPANY_NUMBER

  **Required:** Yes

  **Value**

  The value that corresponds with the name of an extra parameter.

  **Type:** String

  **Length Constraints:** Maximum length of 2048.

  **Required:** Yes

**See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
Nameserver
Service: Amazon Route 53 domain registration

Nameserver includes the following elements.

Contents

GlueIps

Glue IP address of a name server entry. Glue IP addresses are required only when the name of the name server is a subdomain of the domain. For example, if your domain is example.com and the name server for the domain is ns.example.com, you need to specify the IP address for ns.example.com.

Constraints: The list can contain only one IPv4 and one IPv6 address.

Type: Array of strings

Length Constraints: Maximum length of 45.

Required: No

Name

The fully qualified host name of the name server.

Constraint: Maximum 255 characters

Type: String

Length Constraints: Maximum length of 255.

Pattern: [a-zA-Z0-9-_\.]*

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
OperationSummary
Service: Amazon Route 53 domain registration

OperationSummary includes the following elements.

Contents

OperationId

Identifier returned to track the requested action.

Type: String

Length Constraints: Maximum length of 255.

Required: Yes

Status

The current status of the requested operation in the system.

Type: String

Valid Values: SUBMITTED | IN_PROGRESS | ERROR | SUCCESSFUL | FAILED

Required: Yes

SubmittedDate

The date when the request was submitted.

Type: Timestamp

Required: Yes

Type

Type of the action requested.

Type: String

Valid Values: REGISTER_DOMAIN | DELETE_DOMAIN | TRANSFER_IN_DOMAIN | UPDATE_DOMAIN_CONTACT | UPDATE_NAMESERVER | CHANGE_PRIVACY_PROTECTION | DOMAIN_LOCK | ENABLE_AUTORENEW | DISABLE_AUTORENEW | ADD_DNSSEC | REMOVE_DNSSEC | EXPIRE_DOMAIN | TRANSFER_OUT_DOMAIN | CHANGE_DOMAIN_OWNER | RENEW_DOMAIN | PUSH_DOMAIN | INTERNAL_TRANSFER_OUT_DOMAIN | INTERNAL_TRANSFER_IN_DOMAIN

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
Tag
Service: Amazon Route 53 domain registration

Each tag includes the following elements.

Contents

Key
The key (name) of a tag.
Valid values: A-Z, a-z, 0-9, space, "+\=\/@"
Constraints: Each key can be 1-128 characters long.
Type: String
Required: No

Value
The value of a tag.
Valid values: A-Z, a-z, 0-9, space, "+\=\/@"
Constraints: Each value can be 0-256 characters long.
Type: String
Required: No

See Also
For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Amazon Route 53 Resolver

The following data types are supported by Amazon Route 53 Resolver:

- Filter (p. 667)
- FirewallConfig (p. 670)
- FirewallDomainList (p. 672)
- FirewallDomainListMetadata (p. 675)
- FirewallRule (p. 677)
- FirewallRuleGroup (p. 680)
- FirewallRuleGroupAssociation (p. 683)
- FirewallRuleGroupMetadata (p. 686)
- IpAddressRequest (p. 688)
- IpAddressResponse (p. 689)
- IpAddressUpdate (p. 691)
- ResolverConfig (p. 692)
- ResolverDnssecConfig (p. 694)
- ResolverEndpoint (p. 696)
- ResolverQueryLogConfig (p. 699)
- ResolverQueryLogConfigAssociation (p. 702)
- ResolverRule (p. 704)
- ResolverRuleAssociation (p. 707)
- ResolverRuleConfig (p. 709)
- Tag (p. 710)
- TargetAddress (p. 711)
Filter
Service: Amazon Route 53 Resolver

For Resolver list operations (ListResolverEndpoints, ListResolverRules, ListResolverRuleAssociations, ListResolverQueryLogConfigs, ListResolverQueryLogConfigAssociations, and ListResolverDnssecConfigs), an optional specification to return a subset of objects.

To filter objects, such as Resolver endpoints or Resolver rules, you specify Name and Values. For example, to list only inbound Resolver endpoints, specify Direction for Name and specify INBOUND for Values.

Contents

Name

The name of the parameter that you want to use to filter objects.

The valid values for Name depend on the action that you're including the filter in, ListResolverEndpoints, ListResolverRules, ListResolverRuleAssociations, ListResolverQueryLogConfigs, or ListResolverQueryLogConfigAssociations.

Note
In early versions of Resolver, values for Name were listed as uppercase, with underscore (_) delimiters. For example, CreatorRequestId was originally listed as CREATOR_REQUEST_ID. Uppercase values for Name are still supported.

ListResolverEndpoints

Valid values for Name include the following:

• CreatorRequestId: The value that you specified when you created the Resolver endpoint.
• Direction: Whether you want to return inbound or outbound Resolver endpoints. If you specify DIRECTION for Name, specify INBOUND or OUTBOUND for Values.
• HostVPCId: The ID of the VPC that inbound DNS queries pass through on the way from your network to your VPCs in a region, or the VPC that outbound queries pass through on the way from your VPCs to your network. In a CreateResolverEndpoint request, SubnetId indirectly identifies the VPC. In a GetResolverEndpoint request, the VPC ID for a Resolver endpoint is returned in the HostVPCId element.
• IpAddressCount: The number of IP addresses that you have associated with the Resolver endpoint.
• Name: The name of the Resolver endpoint.
• SecurityGroupIds: The IDs of the VPC security groups that you specified when you created the Resolver endpoint.
• Status: The status of the Resolver endpoint. If you specify Status for Name, specify one of the following status codes for Values: CREATING, OPERATIONAL, UPDATING, AUTO_RECOVERING, ACTION_NEEDED, or DELETING. For more information, see Status in ResolverEndpoint.

ListResolverRules

Valid values for Name include the following:

• CreatorRequestId: The value that you specified when you created the Resolver rule.
• DomainName: The domain name for which Resolver is forwarding DNS queries to your network. In the value that you specify for Values, include a trailing dot (.) after the domain name. For example, if the domain name is example.com, specify the following value. Note the "." after com: example.com.
Filter

- **Name**: The name of the Resolver rule.
- **ResolverEndpointId**: The ID of the Resolver endpoint that the Resolver rule is associated with.

**Note**
You can filter on the Resolver endpoint only for rules that have a value of `FORWARD` for `RuleType`.

- **Status**: The status of the Resolver rule. If you specify `Status` for `Name`, specify one of the following status codes for `Values`: COMPLETE, DELETING, UPDATING, or FAILED.
- **Type**: The type of the Resolver rule. If you specify `TYPE` for `Name`, specify FORWARD or SYSTEM for `Values`.

**ListResolverRuleAssociations**

Valid values for `Name` include the following:

- **Name**: The name of the Resolver rule association.
- **ResolverRuleId**: The ID of the Resolver rule that is associated with one or more VPCs.
- **Status**: The status of the Resolver rule association. If you specify `Status` for `Name`, specify one of the following status codes for `Values`: CREATING, COMPLETE, DELETING, or FAILED.
- **VPCId**: The ID of the VPC that the Resolver rule is associated with.

**ListResolverQueryLogConfigs**

Valid values for `Name` include the following:

- **Arn**: The ARN for the query logging configuration.
- **AssociationCount**: The number of VPCs that are associated with the query logging configuration.
- **CreationTime**: The date and time that the query logging configuration was created, in Unix time format and Coordinated Universal Time (UTC).
- **CreatorRequestId**: A unique string that identifies the request that created the query logging configuration.
- **Destination**: The AWS service that you want to forward query logs to. Valid values include the following:
  - S3
  - CloudWatchLogs
  - KinesisFirehose
- **DestinationArn**: The ARN of the location that Resolver is sending query logs to. This value can be the ARN for an S3 bucket, a CloudWatch Logs log group, or a Kinesis Data Firehose delivery stream.
- **Id**: The ID of the query logging configuration
- **Name**: The name of the query logging configuration
- **OwnerId**: The AWS account ID for the account that created the query logging configuration.
- **ShareStatus**: An indication of whether the query logging configuration is shared with other AWS accounts, or was shared with the current account by another AWS account. Valid values include: NOT_SHARED, SHARED_WITH_ME, or SHARED_BY_ME.
- **Status**: The status of the query logging configuration. If you specify `Status` for `Name`, specify the applicable status code for `Values`: CREATING, CREATED, DELETING, or FAILED. For more information, see **Status**.

**ListResolverQueryLogConfigAssociations**

Valid values for `Name` include the following:

- **CreationTime**: The date and time that the VPC was associated with the query logging configuration, in Unix time format and Coordinated Universal Time (UTC).
• **Error:** If the value of `Status` is FAILED, specify the cause: DESTINATION_NOT_FOUND or ACCESS_DENIED.
• **Id:** The ID of the query logging association.
• **ResolverQueryLogConfigId:** The ID of the query logging configuration that a VPC is associated with.
• **ResourceId:** The ID of the Amazon VPC that is associated with the query logging configuration.
• **Status:** The status of the query logging association. If you specify `Status` for `Name`, specify the applicable status code for `Values`: CREATING, CREATED, DELETING, or FAILED. For more information, see `Status`.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Required: No

**Values**

When you're using a `List` operation and you want the operation to return a subset of objects, such as Resolver endpoints or Resolver rules, the value of the parameter that you want to use to filter objects. For example, to list only inbound Resolver endpoints, specify `Direction` for `Name` and specify INBOUND for `Values`.

Type: Array of strings


Required: No

**See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
FirewallConfig
Service: Amazon Route 53 Resolver

Configuration of the firewall behavior provided by DNS Firewall for a single VPC from Amazon Virtual Private Cloud (Amazon VPC).

Contents

FirewallFailOpen

Determines how DNS Firewall operates during failures, for example when all traffic that is sent to DNS Firewall fails to receive a reply.
- By default, fail open is disabled, which means the failure mode is closed. This approach favors security over availability. DNS Firewall returns a failure error when it is unable to properly evaluate a query.
- If you enable this option, the failure mode is open. This approach favors availability over security. DNS Firewall allows queries to proceed if it is unable to properly evaluate them.

This behavior is only enforced for VPCs that have at least one DNS Firewall rule group association.

Type: String
Valid Values: ENABLED | DISABLED
Required: No

Id

The ID of the firewall configuration.
Type: String
Length Constraints: Minimum length of 1. Maximum length of 64.
Required: No

OwnerId

The AWS account ID of the owner of the VPC that this firewall configuration applies to.
Type: String
Required: No

ResourceId

The ID of the VPC that this firewall configuration applies to.
Type: String
Length Constraints: Minimum length of 1. Maximum length of 64.
Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:
• AWS SDK for C++
• AWS SDK for Go
• AWS SDK for Java V2
• AWS SDK for Ruby V3
FirewallDomainList
Service: Amazon Route 53 Resolver

High-level information about a list of firewall domains for use in a FirewallRule (p. 677). This is returned by GetFirewallDomainList (p. 426).

To retrieve the domains that are defined for this domain list, call ListFirewallDomains (p. 468).

Contents

Arn
The Amazon Resource Name (ARN) of the firewall domain list.
Type: String
Length Constraints: Minimum length of 1. Maximum length of 255.
Required: No

CreationTime
The date and time that the domain list was created, in Unix time format and Coordinated Universal Time (UTC).
Type: String
Required: No

CreatorRequestId
A unique string defined by you to identify the request. This allows you to retry failed requests without the risk of running the operation twice. This can be any unique string, for example, a timestamp.
Type: String
Length Constraints: Minimum length of 1. Maximum length of 255.
Required: No

DomainCount
The number of domain names that are specified in the domain list.
Type: Integer
Required: No

Id
The ID of the domain list.
Type: String
Length Constraints: Minimum length of 1. Maximum length of 64.
Required: No
ManagedOwnerName

The owner of the list, used only for lists that are not managed by you. For example, the managed domain list AWSManagedDomainsMalwareDomainList has the managed owner name Route 53 Resolver DNS Firewall.

Type: String


Required: No

ModificationTime

The date and time that the domain list was last modified, in Unix time format and Coordinated Universal Time (UTC).

Type: String


Required: No

Name

The name of the domain list.

Type: String

Length Constraints: Maximum length of 64.

Pattern: (?![0-9]+$)([^a-zA-Z0-9\-\s' ']+)

Required: No

Status

The status of the domain list.

Type: String

Valid Values: COMPLETE | COMPLETE_IMPORT FAILED | IMPORTING | DELETING | UPDATING

Required: No

StatusMessage

Additional information about the status of the list, if available.

Type: String

Length Constraints: Maximum length of 255.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
FirewallDomainListMetadata

Service: Amazon Route 53 Resolver

Minimal high-level information for a firewall domain list. The action ListFirewallDomainLists (p. 465) returns an array of these objects.

To retrieve full information for a firewall domain list, call GetFirewallDomainList (p. 426) and ListFirewallDomains (p. 468).

Contents

Arn

The Amazon Resource Name (ARN) of the firewall domain list metadata.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

CreatorRequestId

A unique string defined by you to identify the request. This allows you to retry failed requests without the risk of running the operation twice. This can be any unique string, for example, a timestamp.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

Id

The ID of the domain list.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Required: No

ManagedOwnerName

The owner of the list, used only for lists that are not managed by you. For example, the managed domain list AWSManagedDomainsMalwareDomainList has the managed owner name Route 53 Resolver DNS Firewall.

Type: String


Required: No

Name

The name of the domain list.

Type: String

Length Constraints: Maximum length of 64.
Pattern: (?![0-9]+$)([^a-zA-Z0-9\-\_\ ']+)

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
FirewallRule

Service: Amazon Route 53 Resolver

A single firewall rule in a rule group.

Contents

**Action**

The action that DNS Firewall should take on a DNS query when it matches one of the domains in the rule's domain list:

- **ALLOW** - Permit the request to go through.
- **ALERT** - Permit the request to go through but send an alert to the logs.
- **BLOCK** - Disallow the request. If this is specified, additional handling details are provided in the rule's **BlockResponse** setting.

Type: String

Valid Values: ALLOW | BLOCK | ALERT

Required: No

**BlockOverrideDnsType**

The DNS record's type. This determines the format of the record value that you provided in **BlockOverrideDomain**. Used for the rule action BLOCK with a BlockResponse setting of OVERRIDE.

Type: String

Valid Values: CNAME

Required: No

**BlockOverrideDomain**

The custom DNS record to send back in response to the query. Used for the rule action BLOCK with a BlockResponse setting of OVERRIDE.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

**BlockOverrideTtl**

The recommended amount of time, in seconds, for the DNS resolver or web browser to cache the provided override record. Used for the rule action BLOCK with a BlockResponse setting of OVERRIDE.

Type: Integer

Required: No

**BlockResponse**

The way that you want DNS Firewall to block the request. Used for the rule action setting BLOCK.

- **NODATA** - Respond indicating that the query was successful, but no response is available for it.
- **NXDOMAIN** - Respond indicating that the domain name that's in the query doesn't exist.
• OVERRIDE - Provide a custom override in the response. This option requires custom handling
details in the rule's BlockOverride* settings.

  Type: String

  Valid Values: NODATA | NXDOMAIN | OVERRIDE

  Required: No

CreationTime

  The date and time that the rule was created, in Unix time format and Coordinated Universal Time
  (UTC).

  Type: String


  Required: No

CreatorRequestId

  A unique string defined by you to identify the request. This allows you to retry failed requests
  without the risk of executing the operation twice. This can be any unique string, for example, a
timestamp.

  Type: String

  Length Constraints: Minimum length of 1. Maximum length of 255.

  Required: No

FirewallDomainListId

  The ID of the domain list that's used in the rule.

  Type: String

  Length Constraints: Minimum length of 1. Maximum length of 64.

  Required: No

FirewallRuleGroupId

  The unique identifier of the firewall rule group of the rule.

  Type: String

  Length Constraints: Minimum length of 1. Maximum length of 64.

  Required: No

ModificationTime

  The date and time that the rule was last modified, in Unix time format and Coordinated Universal
  Time (UTC).

  Type: String


  Required: No

Name

  The name of the rule.
Type: String

Length Constraints: Maximum length of 64.

Pattern: (?!^[0-9]+$)(([a-zA-Z0-9\-\_\ ']+))

Required: No

**Priority**

The priority of the rule in the rule group. This value must be unique within the rule group. DNS Firewall processes the rules in a rule group by order of priority, starting from the lowest setting.

Type: Integer

Required: No

**See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
FirewallRuleGroup
Service: Amazon Route 53 Resolver

High-level information for a firewall rule group. A firewall rule group is a collection of rules that DNS Firewall uses to filter DNS network traffic for a VPC. To retrieve the rules for the rule group, call ListFirewallRules (p. 478).

Contents

Arn
The ARN (Amazon Resource Name) of the rule group.
Type: String
Length Constraints: Minimum length of 1. Maximum length of 255.
Required: No

CreationTime
The date and time that the rule group was created, in Unix time format and Coordinated Universal Time (UTC).
Type: String
Required: No

CreatorRequestId
A unique string defined by you to identify the request. This allows you to retry failed requests without the risk of running the operation twice. This can be any unique string, for example, a timestamp.
Type: String
Length Constraints: Minimum length of 1. Maximum length of 255.
Required: No

Id
The ID of the rule group.
Type: String
Length Constraints: Minimum length of 1. Maximum length of 64.
Required: No

ModificationTime
The date and time that the rule group was last modified, in Unix time format and Coordinated Universal Time (UTC).
Type: String
Required: No
Name
The name of the rule group.
Type: String
Length Constraints: Maximum length of 64.
Pattern: (?!^[0-9]+$)(([a-zA-Z0-9\-_\'])+)
Required: No

OwnerId
The AWS account ID for the account that created the rule group. When a rule group is shared with
your account, this is the account that has shared the rule group with you.
Type: String
Required: No

RuleCount
The number of rules in the rule group.
Type: Integer
Required: No

ShareStatus
Whether the rule group is shared with other AWS accounts, or was shared with the current account
by another AWS account. Sharing is configured through AWS Resource Access Manager (AWS RAM).
Type: String
Valid Values: NOT_SHARED | SHARED_WITH_ME | SHARED_BY_ME
Required: No

Status
The status of the domain list.
Type: String
Valid Values: COMPLETE | DELETING | UPDATING
Required: No

StatusMessage
Additional information about the status of the rule group, if available.
Type: String
Length Constraints: Maximum length of 255.
Required: No

See Also
For more information about using this API in one of the language-specific AWS SDKs, see the following:
• AWS SDK for C++
• AWS SDK for Go
• AWS SDK for Java V2
• AWS SDK for Ruby V3
FirewallRuleGroupAssociation

Service: Amazon Route 53 Resolver

An association between a firewall rule group and a VPC, which enables DNS filtering for the VPC.

Contents

Arn
The Amazon Resource Name (ARN) of the firewall rule group association.
Type: String
Length Constraints: Minimum length of 1. Maximum length of 255.
Required: No

CreationTime
The date and time that the association was created, in Unix time format and Coordinated Universal Time (UTC).
Type: String
Required: No

CreatorRequestId
A unique string defined by you to identify the request. This allows you to retry failed requests without the risk of running the operation twice. This can be any unique string, for example, a timestamp.
Type: String
Length Constraints: Minimum length of 1. Maximum length of 255.
Required: No

FirewallRuleGroupId
The unique identifier of the firewall rule group.
Type: String
Length Constraints: Minimum length of 1. Maximum length of 64.
Required: No

Id
The identifier for the association.
Type: String
Length Constraints: Minimum length of 1. Maximum length of 64.
Required: No

ManagedOwnerName
The owner of the association, used only for associations that are not managed by you. If you use AWS Firewall Manager to manage your DNS Firewalls, then this reports Firewall Manager as the managed owner.
Type: String
Required: No

**ModificationTime**

The date and time that the association was last modified, in Unix time format and Coordinated Universal Time (UTC).

Type: String
Required: No

**MutationProtection**

If enabled, this setting disallows modification or removal of the association, to help prevent against accidentally altering DNS firewall protections.

Type: String
Valid Values: ENABLED | DISABLED
Required: No

**Name**

The name of the association.

Type: String
Length Constraints: Maximum length of 64.
Pattern: (?![^0-9]+$)([a-zA-Z0-9\-_ ']+)
Required: No

**Priority**

The setting that determines the processing order of the rule group among the rule groups that are associated with a single VPC. DNS Firewall filters VPC traffic starting from rule group with the lowest numeric priority setting.

Type: Integer
Required: No

**Status**

The current status of the association.

Type: String
Valid Values: COMPLETE | DELETING | UPDATING
Required: No

**StatusMessage**

Additional information about the status of the response, if available.

Type: String
Length Constraints: Maximum length of 255.

Required: No

VpcId

The unique identifier of the VPC that is associated with the rule group.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
FirewallRuleGroupMetadata

Service: Amazon Route 53 Resolver

Minimal high-level information for a firewall rule group. The action ListFirewallRuleGroups (p. 475) returns an array of these objects.

To retrieve full information for a firewall rule group, call GetFirewallRuleGroup (p. 428) and ListFirewallRules (p. 478).

Contents

Arn

The ARN (Amazon Resource Name) of the rule group.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

CreatorRequestId

A unique string defined by you to identify the request. This allows you to retry failed requests without the risk of running the operation twice. This can be any unique string, for example, a timestamp.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

Id

The ID of the rule group.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Required: No

Name

The name of the rule group.

Type: String

Length Constraints: Maximum length of 64.

Pattern: (?!:^\[0-9]+$)(([a-zA-Z0-9-\_\'\ ]+))

Required: No

OwnerId

The AWS account ID for the account that created the rule group. When a rule group is shared with your account, this is the account that has shared the rule group with you.

Type: String

Required: No

**ShareStatus**

Whether the rule group is shared with other AWS accounts, or was shared with the current account by another AWS account. Sharing is configured through AWS Resource Access Manager (AWS RAM).

Type: String

Valid Values: NOT_SHARED | SHARED_WITH_ME | SHARED_BY_ME

Required: No

**See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
IpAddressRequest
Service: Amazon Route 53 Resolver

In a CreateResolverEndpoint request, the IP address that DNS queries originate from (for outbound endpoints) or that you forward DNS queries to (for inbound endpoints). IpAddressRequest also includes the ID of the subnet that contains the IP address.

Contents

Ip

The IP address that you want to use for DNS queries.

Type: String


Required: No

SubnetId

The ID of the subnet that contains the IP address.

Type: String


Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
IpAddressResponse
Service: Amazon Route 53 Resolver

In the response to a GetResolverEndpoint request, information about the IP addresses that the Resolver endpoint uses for DNS queries.

Contents

CreationTime
The date and time that the IP address was created, in Unix time format and Coordinated Universal Time (UTC).
Type: String
Required: No

Ip
One IP address that the Resolver endpoint uses for DNS queries.
Type: String
Required: No

IpId
The ID of one IP address.
Type: String
Length Constraints: Minimum length of 1. Maximum length of 64.
Required: No

ModificationTime
The date and time that the IP address was last modified, in Unix time format and Coordinated Universal Time (UTC).
Type: String
Required: No

Status
A status code that gives the current status of the request.
Type: String
Valid Values: CREATING | FAILED_CREATION | ATTACHING | ATTACHED | REMAP_DETACHING | REMAP_ATTACHING | DETACHING | FAILED_RESOURCE_GONE | DELETING | DELETE_FAILED_FAS_EXPIRED
Required: No

StatusMessage
A message that provides additional information about the status of the request.
Type: String
Length Constraints: Maximum length of 255.
Required: No

SubnetId
The ID of one subnet.
Type: String
Required: No

See Also
For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
IpAddressUpdate
Service: Amazon Route 53 Resolver

In an UpdateResolverEndpoint request, information about an IP address to update.

Contents

Ip
The new IP address.
Type: String
Required: No

IpId
Only when removing an IP address from a Resolver endpoint: The ID of the IP address that you want to remove. To get this ID, use GetResolverEndpoint.
Type: String
Length Constraints: Minimum length of 1. Maximum length of 64.
Required: No

SubnetId
The ID of the subnet that includes the IP address that you want to update. To get this ID, use GetResolverEndpoint.
Type: String
Required: No

See Also
For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
ResolverConfig
Service: Amazon Route 53 Resolver

A complex type that contains information about a Resolver configuration for a VPC.

Contents

AutodefinedReverse

The status of whether or not the Resolver will create autodefined rules for reverse DNS lookups. This is enabled by default. The status can be one of following:

- **ENABLING**: Autodefined rules for reverse DNS lookups are being enabled but are not complete.
- **ENABLED**: Autodefined rules for reverse DNS lookups are enabled.
- **DISABLING**: Autodefined rules for reverse DNS lookups are being disabled but are not complete.
- **DISABLED**: Autodefined rules for reverse DNS lookups are disabled.

Type: String

Valid Values: ENABLING | ENABLED | DISABLING | DISABLED

Required: No

Id

ID for the Resolver configuration.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Required: No

OwnerId

The owner account ID of the Amazon Virtual Private Cloud VPC.

Type: String


Required: No

ResourceId

The ID of the Amazon Virtual Private Cloud VPC that you’re configuring Resolver for.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
• AWS SDK for Ruby V3
ResolverDnssecConfig
Service: Amazon Route 53 Resolver

A complex type that contains information about a configuration for DNSSEC validation.

Contents

Id
The ID for a configuration for DNSSEC validation.
Type: String
Length Constraints: Minimum length of 1. Maximum length of 64.
Required: No

OwnerId
The owner account ID of the virtual private cloud (VPC) for a configuration for DNSSEC validation.
Type: String
Required: No

ResourceId
The ID of the virtual private cloud (VPC) that you’re configuring the DNSSEC validation status for.
Type: String
Length Constraints: Minimum length of 1. Maximum length of 64.
Required: No

ValidationStatus
The validation status for a DNSSEC configuration. The status can be one of the following:
- ENABLING: DNSSEC validation is being enabled but is not complete.
- ENABLED: DNSSEC validation is enabled.
- DISABLING: DNSSEC validation is being disabled but is not complete.
- DISABLED: DNSSEC validation is disabled.
Type: String
Valid Values: ENABLING | ENABLED | DISABLING | DISABLED
Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
ResolverEndpoint
Service: Amazon Route 53 Resolver

In the response to a CreateResolverEndpoint, DeleteResolverEndpoint, GetResolverEndpoint, ListResolverEndpoints, or UpdateResolverEndpoint request, a complex type that contains settings for an existing inbound or outbound Resolver endpoint.

Contents

Arn
The ARN (Amazon Resource Name) for the Resolver endpoint.
Type: String
Length Constraints: Minimum length of 1. Maximum length of 255.
Required: No

CreationTime
The date and time that the endpoint was created, in Unix time format and Coordinated Universal Time (UTC).
Type: String
Required: No

CreatorRequestId
A unique string that identifies the request that created the Resolver endpoint. The CreatorRequestId allows failed requests to be retried without the risk of running the operation twice.
Type: String
Length Constraints: Minimum length of 1. Maximum length of 255.
Required: No

Direction
Indicates whether the Resolver endpoint allows inbound or outbound DNS queries:
• INBOUND: allows DNS queries to your VPC from your network
• OUTBOUND: allows DNS queries from your VPC to your network
Type: String
Valid Values: INBOUND | OUTBOUND
Required: No

HostVPCId
The ID of the VPC that you want to create the Resolver endpoint in.
Type: String
Length Constraints: Minimum length of 1. Maximum length of 64.
Required: No
Id

The ID of the Resolver endpoint.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Required: No

IpAddressCount

The number of IP addresses that the Resolver endpoint can use for DNS queries.

Type: Integer

Required: No

ModificationTime

The date and time that the endpoint was last modified, in Unix time format and Coordinated Universal Time (UTC).

Type: String


Required: No

Name

The name that you assigned to the Resolver endpoint when you submitted a CreateResolverEndpoint request.

Type: String

Length Constraints: Maximum length of 64.

Pattern: (?![0-9]+)([a-zA-Z0-9-\-_\']+)

Required: No

SecurityGroupIds

The ID of one or more security groups that control access to this VPC. The security group must include one or more inbound rules (for inbound endpoints) or outbound rules (for outbound endpoints). Inbound and outbound rules must allow TCP and UDP access. For inbound access, open port 53. For outbound access, open the port that you're using for DNS queries on your network.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 64.

Required: No

Status

A code that specifies the current status of the Resolver endpoint. Valid values include the following:

- CREATING: Resolver is creating and configuring one or more Amazon VPC network interfaces for this endpoint.
- OPERATIONAL: The Amazon VPC network interfaces for this endpoint are correctly configured and able to pass inbound or outbound DNS queries between your network and Resolver.
- UPDATING: Resolver is associating or disassociating one or more network interfaces with this endpoint.
• AUTO_RECOVERING: Resolver is trying to recover one or more of the network interfaces that are associated with this endpoint. During the recovery process, the endpoint functions with limited capacity because of the limit on the number of DNS queries per IP address (per network interface). For the current limit, see [Limits on Route 53 Resolver](#).

• ACTION_NEEDED: This endpoint is unhealthy, and Resolver can't automatically recover it. To resolve the problem, we recommend that you check each IP address that you associated with the endpoint. For each IP address that isn't available, add another IP address and then delete the IP address that isn't available. (An endpoint must always include at least two IP addresses.) A status of ACTION_NEEDED can have a variety of causes. Here are two common causes:
  
  • One or more of the network interfaces that are associated with the endpoint were deleted using Amazon VPC.
  
  • The network interface couldn't be created for some reason that's outside the control of Resolver.
  
• DELETING: Resolver is deleting this endpoint and the associated network interfaces.

Type: String

Valid Values: CREATING | OPERATIONAL | UPDATING | AUTO_RECOVERING | ACTION_NEEDED | DELETING

Required: No

StatusMessage

A detailed description of the status of the Resolver endpoint.

Type: String

Length Constraints: Maximum length of 255.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

• AWS SDK for C++
  • AWS SDK for Go
  • AWS SDK for Java V2
  • AWS SDK for Ruby V3
ResolverQueryLogConfig

Service: Amazon Route 53 Resolver

In the response to a CreateResolverQueryLogConfig, DeleteResolverQueryLogConfig, GetResolverQueryLogConfig, or ListResolverQueryLogConfigs request, a complex type that contains settings for one query logging configuration.

Contents

Arn
The ARN for the query logging configuration.
Type: String
Length Constraints: Minimum length of 1. Maximum length of 255.
Required: No

AssociationCount
The number of VPCs that are associated with the query logging configuration.
Type: Integer
Required: No

CreationTime
The date and time that the query logging configuration was created, in Unix time format and Coordinated Universal Time (UTC).
Type: String
Required: No

CreatorRequestId
A unique string that identifies the request that created the query logging configuration. The CreatorRequestId allows failed requests to be retried without the risk of running the operation twice.
Type: String
Length Constraints: Minimum length of 1. Maximum length of 255.
Required: No

DestinationArn
The ARN of the resource that you want Resolver to send query logs: an Amazon S3 bucket, a CloudWatch Logs log group, or a Kinesis Data Firehose delivery stream.
Type: String
Required: No

Id
The ID for the query logging configuration.
Type: String
Length Constraints: Minimum length of 1. Maximum length of 64.
Required: No

**Name**
The name of the query logging configuration.
Type: String
Length Constraints: Minimum length of 1. Maximum length of 64.
Pattern: (?![0-9]+$)([a-zA-Z0-9\-_ ']+)
Required: No

**OwnerId**
The AWS account ID for the account that created the query logging configuration.
Type: String
Required: No

**ShareStatus**
An indication of whether the query logging configuration is shared with other AWS accounts, or was shared with the current account by another AWS account. Sharing is configured through AWS Resource Access Manager (AWS RAM).
Type: String
Valid Values: **NOT_SHARED** | **SHARED_WITH_ME** | **SHARED_BY_ME**
Required: No

**Status**
The status of the specified query logging configuration. Valid values include the following:
- **CREATING**: Resolver is creating the query logging configuration.
- **CREATED**: The query logging configuration was successfully created. Resolver is logging queries that originate in the specified VPC.
- **DELETING**: Resolver is deleting this query logging configuration.
- **FAILED**: Resolver can't deliver logs to the location that is specified in the query logging configuration. Here are two common causes:
  - The specified destination (for example, an Amazon S3 bucket) was deleted.
  - Permissions don't allow sending logs to the destination.

Type: String
Valid Values: **CREATING** | **CREATED** | **DELETING** | **FAILED**
Required: No

**See Also**
For more information about using this API in one of the language-specific AWS SDKs, see the following:
• AWS SDK for C++
• AWS SDK for Go
• AWS SDK for Java V2
• AWS SDK for Ruby V3
ResolverQueryLogConfigAssociation
Service: Amazon Route 53 Resolver

In the response to an AssociateResolverQueryLogConfig, DisassociateResolverQueryLogConfig, GetResolverQueryLogConfigAssociation, or ListResolverQueryLogConfigAssociations, request, a complex type that contains settings for a specified association between an Amazon VPC and a query logging configuration.

Contents

CreationTime

The date and time that the VPC was associated with the query logging configuration, in Unix time format and Coordinated Universal Time (UTC).

Type: String
Required: No

Error

If the value of Status is FAILED, the value of Error indicates the cause:
• DESTINATION_NOT_FOUND: The specified destination (for example, an Amazon S3 bucket) was deleted.
• ACCESS_DENIED: Permissions don't allow sending logs to the destination.

If the value of Status is a value other than FAILED, Error is null.

Type: String
Valid Values: NONE | DESTINATION_NOT_FOUND | ACCESS_DENIED | INTERNAL_SERVICE_ERROR
Required: No

ErrorMessage

Contains additional information about the error. If the value or Error is null, the value of ErrorMessage also is null.

Type: String
Required: No

Id

The ID of the query logging association.

Type: String
Length Constraints: Minimum length of 1. Maximum length of 64.
Required: No

ResolverQueryLogConfigId

The ID of the query logging configuration that a VPC is associated with.

Type: String
Length Constraints: Minimum length of 1. Maximum length of 64.

Required: No

ResourceId

The ID of the Amazon VPC that is associated with the query logging configuration.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Required: No

Status

The status of the specified query logging association. Valid values include the following:
- CREATING: Resolver is creating an association between an Amazon VPC and a query logging configuration.
- CREATED: The association between an Amazon VPC and a query logging configuration was successfully created. Resolver is logging queries that originate in the specified VPC.
- DELETING: Resolver is deleting this query logging association.
- FAILED: Resolver either couldn't create or couldn't delete the query logging association.

Type: String

Valid Values: CREATING | ACTIVE | ACTION_NEEDED | DELETING | FAILED

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
ResolverRule

Service: Amazon Route 53 Resolver

For queries that originate in your VPC, detailed information about a Resolver rule, which specifies how to route DNS queries out of the VPC. The ResolverRule parameter appears in the response to a CreateResolverRule, DeleteResolverRule, GetResolverRule, ListResolverRules, or UpdateResolverRule request.

Contents

Arn

The ARN (Amazon Resource Name) for the Resolver rule specified by Id.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

CreationTime

The date and time that the Resolver rule was created, in Unix time format and Coordinated Universal Time (UTC).

Type: String


Required: No

CreatorRequestId

A unique string that you specified when you created the Resolver rule. CreatorRequestId identifies the request and allows failed requests to be retried without the risk of running the operation twice.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

DomainName

DNS queries for this domain name are forwarded to the IP addresses that are specified in TargetIps. If a query matches multiple Resolver rules (example.com and www.example.com), the query is routed using the Resolver rule that contains the most specific domain name (www.example.com).

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Required: No

Id

The ID that Resolver assigned to the Resolver rule when you created it.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.
ResolverRule

Required: No

**ModificationTime**

The date and time that the Resolver rule was last updated, in Unix time format and Coordinated Universal Time (UTC).

Type: String


Required: No

**Name**

The name for the Resolver rule, which you specified when you created the Resolver rule.

Type: String

Length Constraints: Maximum length of 64.

Pattern: (?![0-9]+$)(([a-zA-Z0-9-]+')+)?

Required: No

**OwnerId**

When a rule is shared with another AWS account, the account ID of the account that the rule is shared with.

Type: String


Required: No

**ResolverEndpointId**

The ID of the endpoint that the rule is associated with.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Required: No

**RuleType**

When you want to forward DNS queries for specified domain name to resolvers on your network, specify FORWARD.

When you have a forwarding rule to forward DNS queries for a domain to your network and you want Resolver to process queries for a subdomain of that domain, specify SYSTEM.

For example, to forward DNS queries for example.com to resolvers on your network, you create a rule and specify FORWARD for RuleType. To then have Resolver process queries for apex.example.com, you create a rule and specify SYSTEM for RuleType.

Currently, only Resolver can create rules that have a value of RECURSIVE for RuleType.

Type: String

Valid Values: FORWARD | SYSTEM | RECURSIVE

Required: No
ShareStatus

Whether the rule is shared and, if so, whether the current account is sharing the rule with another account, or another account is sharing the rule with the current account.

Type: String

Valid Values: NOT_SHARED | SHARED_WITH_ME | SHARED_BY_ME

Required: No

Status

A code that specifies the current status of the Resolver rule.

Type: String

Valid Values: COMPLETE | DELETING | UPDATING | FAILED

Required: No

StatusMessage

A detailed description of the status of a Resolver rule.

Type: String

Length Constraints: Maximum length of 255.

Required: No

TargetIps

An array that contains the IP addresses and ports that an outbound endpoint forwards DNS queries to. Typically, these are the IP addresses of DNS resolvers on your network. Specify IPv4 addresses. IPv6 is not supported.

Type: Array of TargetAddress (p. 711) objects

Array Members: Minimum number of 1 item.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
ResolverRuleAssociation

Service: Amazon Route 53 Resolver

In the response to an `AssociateResolverRule`, `DisassociateResolverRule`, or `ListResolverRuleAssociations` request, provides information about an association between a Resolver rule and a VPC. The association determines which DNS queries that originate in the VPC are forwarded to your network.

Contents

**Id**

The ID of the association between a Resolver rule and a VPC. Resolver assigns this value when you submit an `AssociateResolverRule` request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Required: No

**Name**

The name of an association between a Resolver rule and a VPC.

Type: String

Length Constraints: Maximum length of 64.

Pattern: `(?![0-9]+)(([a-zA-Z0-9\-\_ \']+)*)`

Required: No

**ResolverRuleId**

The ID of the Resolver rule that you associated with the VPC that is specified by `VPCId`.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Required: No

**Status**

A code that specifies the current status of the association between a Resolver rule and a VPC.

Type: String

Valid Values: `CREATING` | `COMPLETE` | `DELETING` | `FAILED` | `OVERRIDDEN`

Required: No

**StatusMessage**

A detailed description of the status of the association between a Resolver rule and a VPC.

Type: String

Length Constraints: Maximum length of 255.

Required: No

**VPCId**

The ID of the VPC that you associated the Resolver rule with.
Type: String
Length Constraints: Minimum length of 1. Maximum length of 64.
Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
ResolverRuleConfig

Service: Amazon Route 53 Resolver

In an UpdateResolverRule request, information about the changes that you want to make.

Contents

Name

The new name for the Resolver rule. The name that you specify appears in the Resolver dashboard in the Route 53 console.

Type: String

Length Constraints: Maximum length of 64.

Pattern: (?![0-9]+$)([a-zA-Z0-9\-_' \']+)

Required: No

ResolverEndpointId

The ID of the new outbound Resolver endpoint that you want to use to route DNS queries to the IP addresses that you specify in TargetIps.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Required: No

TargetIps

For DNS queries that originate in your VPC, the new IP addresses that you want to route outbound DNS queries to.

Type: Array of TargetAddress (p. 711) objects

Array Members: Minimum number of 1 item.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
Tag
Service: Amazon Route 53 Resolver

One tag that you want to add to the specified resource. A tag consists of a Key (a name for the tag) and a Value.

Contents

Key
The name for the tag. For example, if you want to associate Resolver resources with the account IDs of your customers for billing purposes, the value of Key might be account-id.

Type: String
Required: Yes

Value
The value for the tag. For example, if Key is account-id, then Value might be the ID of the customer account that you’re creating the resource for.

Type: String
Length Constraints: Minimum length of 0. Maximum length of 256.
Required: Yes

See Also
For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
**TargetAddress**

Service: Amazon Route 53 Resolver

In a CreateResolverRule request, an array of the IPs that you want to forward DNS queries to.

**Contents**

**Ip**

One IP address that you want to forward DNS queries to. You can specify only IPv4 addresses.

Type: String


Required: Yes

**Port**

The port at Ip that you want to forward DNS queries to.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 65535.

Required: No

**See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
Common Parameters

The following list contains the parameters that all actions use for signing Signature Version 4 requests with a query string. Any action-specific parameters are listed in the topic for that action. For more information about Signature Version 4, see Signature Version 4 Signing Process in the Amazon Web Services General Reference.

**Action**

The action to be performed.

Type: string

Required: Yes

**Version**

The API version that the request is written for, expressed in the format YYYY-MM-DD.

Type: string

Required: Yes

**X-Amz-Algorithm**

The hash algorithm that you used to create the request signature.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Valid Values: AWS4-HMAC-SHA256

Required: Conditional

**X-Amz-Credential**

The credential scope value, which is a string that includes your access key, the date, the region you are targeting, the service you are requesting, and a termination string (“aws4_request”). The value is expressed in the following format: access_key/YYYYMMDD/region/service/aws4_request.

For more information, see Task 2: Create a String to Sign for Signature Version 4 in the Amazon Web Services General Reference.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

**X-Amz-Date**

The date that is used to create the signature. The format must be ISO 8601 basic format (YYYYMMDD'T'HHMMSS'Z'). For example, the following date time is a valid X-Amz-Date value: 20120325T120000Z.

Condition: X-Amz-Date is optional for all requests; it can be used to override the date used for signing requests. If the Date header is specified in the ISO 8601 basic format, X-Amz-Date is
not required. When X-Amz-Date is used, it always overrides the value of the Date header. For more information, see Handling Dates in Signature Version 4 in the Amazon Web Services General Reference.

Type: string
Required: Conditional

**X-Amz-Security-Token**

The temporary security token that was obtained through a call to AWS Security Token Service (AWS STS). For a list of services that support temporary security credentials from AWS Security Token Service, go to AWS Services That Work with IAM in the IAM User Guide.

Condition: If you're using temporary security credentials from the AWS Security Token Service, you must include the security token.

Type: string
Required: Conditional

**X-Amz-Signature**

Specifies the hex-encoded signature that was calculated from the string to sign and the derived signing key.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string
Required: Conditional

**X-Amz-SignedHeaders**

Specifies all the HTTP headers that were included as part of the canonical request. For more information about specifying signed headers, see Task 1: Create a Canonical Request For Signature Version 4 in the Amazon Web Services General Reference.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string
Required: Conditional
Common Errors

This section lists the errors common to the API actions of all AWS services. For errors specific to an API action for this service, see the topic for that API action.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 400

**IncompleteSignature**

The request signature does not conform to AWS standards.

HTTP Status Code: 400

**InternalFailure**

The request processing has failed because of an unknown error, exception or failure.

HTTP Status Code: 500

**InvalidAction**

The action or operation requested is invalid. Verify that the action is typed correctly.

HTTP Status Code: 400

**InvalidClientTokenId**

The X.509 certificate or AWS access key ID provided does not exist in our records.

HTTP Status Code: 403

**InvalidParameterCombination**

Parameters that must not be used together were used together.

HTTP Status Code: 400

**InvalidParameterValue**

An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

**InvalidQueryParameter**

The AWS query string is malformed or does not adhere to AWS standards.

HTTP Status Code: 400

**MalformedQueryString**

The query string contains a syntax error.

HTTP Status Code: 404

**MissingAction**

The request is missing an action or a required parameter.

HTTP Status Code: 400
**MissingAuthenticationToken**

The request must contain either a valid (registered) AWS access key ID or X.509 certificate.

HTTP Status Code: 403

**MissingParameter**

A required parameter for the specified action is not supplied.

HTTP Status Code: 400

**NotAuthorized**

You do not have permission to perform this action.

HTTP Status Code: 400

**OptInRequired**

The AWS access key ID needs a subscription for the service.

HTTP Status Code: 403

**RequestExpired**

The request reached the service more than 15 minutes after the date stamp on the request or more than 15 minutes after the request expiration date (such as for pre-signed URLs), or the date stamp on the request is more than 15 minutes in the future.

HTTP Status Code: 400

**ServiceUnavailable**

The request has failed due to a temporary failure of the server.

HTTP Status Code: 503

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 400

**ValidationError**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400