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Welcome

Amazon API Gateway helps developers deliver robust, secure, and scalable mobile and web application back ends. API Gateway allows developers to securely connect mobile and web applications to APIs that run on AWS Lambda, Amazon EC2, or other publicly addressable web services that are hosted outside of AWS.

This document was last published on November 6, 2023.
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- `CreateAuthorizer` (p. 10)
- `CreateBasePathMapping` (p. 17)
- `CreateDeployment` (p. 21)
- `CreateDocumentationPart` (p. 26)
- `CreateDocumentationVersion` (p. 29)
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CreateApiKey

Create an ApiKey resource.

Request Syntax

POST /apikeys HTTP/1.1
Content-type: application/json

{
    "customerId": "string",
    "description": "string",
    "enabled": boolean,
    "generateDistinctId": boolean,
    "name": "string",
    "stageKeys": [
        {
            "restApiId": "string",
            "stageName": "string"
        }
    ],
    "tags": {
        "string" : "string"
    },
    "value": "string"
}

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

customerId (p. 5)

An AWS Marketplace customer identifier, when integrating with the AWS SaaS Marketplace.

Type: String

Required: No
description (p. 5)

The description of the ApiKey.

Type: String

Required: No
enabled (p. 5)

Specifies whether the ApiKey can be used by callers.

Type: Boolean

Required: No
generateDistinctId (p. 5)

Specifies whether (true) or not (false) the key identifier is distinct from the created API key value. This parameter is deprecated and should not be used.

Type: Boolean

Required: No

name (p. 5)

The name of the ApiKey.

Type: String

Required: No

stageKeys (p. 5)

DEPRECATED FOR USAGE PLANS - Specifies stages associated with the API key.

Type: Array of StageKey (p. 531) objects

Required: No

tags (p. 5)

The key-value map of strings. The valid character set is [a-zA-Z+-=._:/]. The tag key can be up to 128 characters and must not start with aws:. The tag value can be up to 256 characters.

Type: String to string map

Required: No

value (p. 5)

Specifies a value of the API key.

Type: String

Required: No

Response Syntax

HTTP/1.1 201
Content-type: application/json

{
    "createdDate": number,
    "customerId": "string",
    "description": "string",
    "enabled": boolean,
    "id": "string",
    "lastUpdatedDate": number,
    "name": "string",
    "stageKeys": [ "string" ],
    "tags": {
        "string" : "string"
    },
    "value": "string"
}
Response Elements

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

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

**createdDate (p. 6)**

The timestamp when the API Key was created.

Type: Timestamp

**customerId (p. 6)**

An AWS Marketplace customer identifier, when integrating with the AWS SaaS Marketplace.

Type: String

**description (p. 6)**

The description of the API Key.

Type: String

**enabled (p. 6)**

Specifies whether the API Key can be used by callers.

Type: Boolean

**id (p. 6)**

The identifier of the API Key.

Type: String

**lastUpdatedDate (p. 6)**

The timestamp when the API Key was last updated.

Type: Timestamp

**name (p. 6)**

The name of the API Key.

Type: String

**stageKeys (p. 6)**

A list of Stage resources that are associated with the ApiKey resource.

Type: Array of strings

**tags (p. 6)**

The collection of tags. Each tag element is associated with a given resource.

Type: String to string map

**value (p. 6)**

The value of the API Key.

Type: String
Errors

For information about the errors that are common to all actions, see [Common Errors (p. 541)].

**BadRequestException**

The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.

HTTP Status Code: 400

**ConflictException**

The request configuration has conflicts. For details, see the accompanying error message.

HTTP Status Code: 409

**LimitExceededException**

The request exceeded the rate limit. Retry after the specified time period.

HTTP Status Code: 429

**TooManyRequestsException**

The request has reached its throttling limit. Retry after the specified time period.

HTTP Status Code: 429

**UnauthorizedException**

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401

Examples

Create an API key

The following example creates an API key.

**Sample Request**

```plaintext
POST /apikeys HTTP/1.1
Content-Type: application/json
Host: apigateway.us-east-1.amazonaws.com
X-Amz-Date: 20170223T222156Z
Authorization: AWS4-HMAC-SHA256 Credential={access_key_ID}/20170223/us-east-1/
apigateway/aws4_request, SignedHeaders=content-length;content-type;host;x-amz-date,
Signature={sig4_hash}

{
    "name" : "my_api_key",
    "description" : "My API key",
    "enabled" : "false",
    "stageKeys" : [ {
        "restApiId" : "uycl6xg9a",
        "stageName" : "beta"
    } ]
}
```
Sample Response

```json
{
   "_links": {
      "curies": {
         "href": "https://docs.aws.amazon.com/apigateway/latest/developerguide/restapi-apikey-{rel}.html",
         "name": "apikey",
         "templated": true
      },
      "self": {
         "href": "/apikeys/a2TprUZuzf2EKbmmMUotDaHYGg8kgxFypcagGved6"
      },
      "apikey:delete": {
         "href": "/apikeys/a2TprUZuzf2EKbmmMUotDaHYGg8kgxFypcagGved6"
      },
      "apikey:update": {
         "href": "/apikeys/a2TprUZuzf2EKbmmMUotDaHYGg8kgxFypcagGved6"
      }
   },
   "createdDate": "2016-06-08T22:21:56Z",
   "description": "My API key",
   "enabled": false,
   "id": "a2TprUZuzf2EKbmmMUotDaHYGg8kgxFypcagGved6",
   "lastUpdatedDate": "2016-06-08T22:21:56Z",
   "name": "my_api_key",
   "stageKeys": "uycll6xg9a/beta"
}
```

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](#)
CreateAuthorizer

Adds a new Authorizer resource to an existing RestApi resource.

Request Syntax

POST /restapis/restapi_id/authorizers HTTP/1.1
Content-type: application/json

{  
  "authorizerCredentials": "string",
  "authorizerResultTtlInSeconds": number,
  "authorizerUri": "string",
  "authType": "string",
  "identitySource": "string",
  "IdentityValidationExpression": "string",
  "name": "string",
  "providerARNs": [ "string" ],
  "type": "string"
}

URI Request Parameters

The request uses the following URI parameters.

restapi_id (p. 10)

The string identifier of the associated RestApi.

Required: Yes

Request Body

The request accepts the following data in JSON format.

authorizerCredentials (p. 10)

specifies the required credentials as an IAM role for API Gateway to invoke the authorizer. To specify an IAM role for API Gateway to assume, use the role's Amazon Resource Name (ARN). To use resource-based permissions on the Lambda function, specify null.

Type: String

Required: No

authorizerResultTtlInSeconds (p. 10)

The TTL in seconds of cached authorizer results. If it equals 0, authorization caching is disabled. If it is greater than 0, API Gateway will cache authorizer responses. If this field is not set, the default value is 300. The maximum value is 3600, or 1 hour.

Type: Integer

Required: No

authorizerUri (p. 10)

Specifies the authorizer's Uniform Resource Identifier (URI). For TOKEN or REQUEST authorizers, this must be a well-formed Lambda function URI, for example, arn:aws:apigateway:us-
west-2:lambda:path/2015-03-31/functions/arn:aws:lambda:us-west-2:
{account_id}:function:{lambda_function_name}/invocations. In general, the URI has
this form arn:aws:apigateway:{region}:lambda:path/{service_api}, where {region} is
the same as the region hosting the Lambda function, path indicates that the remaining substring in
the URI should be treated as the path to the resource, including the initial /. For Lambda functions,
this is usually of the form /2015-03-31/functions/[FunctionARN]/invocations.

Type: String
Required: No

**authType (p. 10)**

Optional customer-defined field, used in OpenAPI imports and exports without functional impact.

Type: String
Required: No

**identitySource (p. 10)**

The identity source for which authorization is requested. For a TOKEN or COGNITO_USER_POOLS
authorizer, this is required and specifies the request header mapping expression for the custom
header holding the authorization token submitted by the client. For example, if the token header
name is Auth, the header mapping expression is method.request.header.Auth. For the
REQUEST authorizer, this is required when authorization caching is enabled. The value is a comma-
separated string of one or more mapping expressions of the specified request parameters. For
example, if an Auth header, a Name query string parameter are defined as identity sources, this value
is method.request.header.Auth, method.request.querystring.Name. These parameters
will be used to derive the authorization caching key and to perform runtime validation of the
REQUEST authorizer by verifying all of the identity-related request parameters are present, not null
and non-empty. Only when this is true does the authorizer invoke the authorizer Lambda function,
otherwise, it returns a 401 Unauthorized response without calling the Lambda function. The valid
value is a string of comma-separated mapping expressions of the specified request parameters.
When the authorization caching is not enabled, this property is optional.

Type: String
Required: No

**identityValidationExpression (p. 10)**

A validation expression for the incoming identity token. For TOKEN authorizers, this value is a
regular expression. For COGNITO_USER_POOLS authorizers, API Gateway will match the aud field
of the incoming token from the client against the specified regular expression. It will invoke the
authorizer's Lambda function when there is a match. Otherwise, it will return a 401 Unauthorized
response without calling the Lambda function. The validation expression does not apply to the
REQUEST authorizer.

Type: String
Required: No

**name (p. 10)**

The name of the authorizer.

Type: String
Required: Yes
**Response Syntax**

```
HTTP/1.1 201
Content-type: application/json
{
    "authorizerCredentials": "string",
    "authorizerResultTtlInSeconds": number,
    "authorizerUri": "string",
    "authType": "string",
    "id": "string",
    "IdentitySource": "string",
    "IdentityValidationExpression": "string",
    "name": "string",
    "providerARNs": [ "string" ],
    "type": "string"
}
```

**Response Elements**

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

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

**authorizerCredentials (p. 12)**

Specifies the required credentials as an IAM role for API Gateway to invoke the authorizer. To specify an IAM role for API Gateway to assume, use the role's Amazon Resource Name (ARN). To use resource-based permissions on the Lambda function, specify null.

Type: String

**authorizerResultTtlInSeconds (p. 12)**

The TTL in seconds of cached authorizer results. If it equals 0, authorization caching is disabled. If it is greater than 0, API Gateway will cache authorizer responses. If this field is not set, the default value is 300. The maximum value is 3600, or 1 hour.

---

**providerARNs (p. 10)**

A list of the Amazon Cognito user pool ARNs for the COGNITO_USER_POOLS authorizer. Each element is of this format: arn:aws:cognito-idp:{region}:{account_id}:userpool/{user_pool_id}. For a TOKEN or REQUEST authorizer, this is not defined.

Type: Array of strings

Required: No

**type (p. 10)**

The authorizer type. Valid values are TOKEN for a Lambda function using a single authorization token submitted in a custom header, REQUEST for a Lambda function using incoming request parameters, and COGNITO_USER_POOLS for using an Amazon Cognito user pool.

Type: String

Valid Values: TOKEN | REQUEST | COGNITO_USER_POOLS

Required: Yes
**Response Elements**

- **Type**: Integer

  **authorizerUri (p. 12)**

  Specifies the authorizer's Uniform Resource Identifier (URI). For TOKEN or REQUEST authorizers, this must be a well-formed Lambda function URI, for example, `arn:aws:apigateway:us-west-2:lambda:path/2015-03-31/functions/arn:aws:lambda:us-west-2:{account_id}:function:{lambda_function_name}/invocations`. In general, the URI has this form `arn:aws:apigateway:{region}:lambda:path/{service_api}`, where `{region}` is the same as the region hosting the Lambda function, path indicates that the remaining substring in the URI should be treated as the path to the resource, including the initial `/`. For Lambda functions, this is usually of the form `/2015-03-31/functions/[FunctionARN]/invocations`.

- **Type**: String

  **authType (p. 12)**

  Optional customer-defined field, used in OpenAPI imports and exports without functional impact.

  **Type**: String

  **id (p. 12)**

  The identifier for the authorizer resource.

  **Type**: String

  **identitySource (p. 12)**

  The identity source for which authorization is requested. For a TOKEN or COGNITO_USER_POOLS authorizer, this is required and specifies the request header mapping expression for the custom header holding the authorization token submitted by the client. For example, if the token header name is `Auth`, the header mapping expression is `method.request.header.Auth`. For the REQUEST authorizer, this is required when authorization caching is enabled. The value is a comma-separated string of one or more mapping expressions of the specified request parameters. For example, if an `Auth` header, a `Name` query string parameter are defined as identity sources, this value is `method.request.header.Auth, method.request.querystring.Name`. These parameters will be used to derive the authorization caching key and to perform runtime validation of the REQUEST authorizer by verifying all of the identity-related request parameters are present, not null and non-empty. Only when this is true does the authorizer invoke the authorizer Lambda function, otherwise, it returns a 401 Unauthorized response without calling the Lambda function. The valid value is a string of comma-separated mapping expressions of the specified request parameters. When the authorization caching is not enabled, this property is optional.

  **Type**: String

  **identityValidationExpression (p. 12)**

  A validation expression for the incoming identity token. For TOKEN authorizers, this value is a regular expression. For COGNITO_USER_POOLS authorizers, API Gateway will match the `aud` field of the incoming token from the client against the specified regular expression. It will invoke the authorizer's Lambda function when there is a match. Otherwise, it will return a 401 Unauthorized response without calling the Lambda function. The validation expression does not apply to the REQUEST authorizer.

  **Type**: String

  **name (p. 12)**

  The name of the authorizer.

  **Type**: String
providerARNs (p. 12)

A list of the Amazon Cognito user pool ARNs for the COGNITO_USER_POOLS authorizer. Each element is of this format: arn:aws:cognito-idp:{region}:{account_id}:userpool/{user_pool_id}. For a TOKEN or REQUEST authorizer, this is not defined.

Type: Array of strings

type (p. 12)

The authorizer type. Valid values are TOKEN for a Lambda function using a single authorization token submitted in a custom header, REQUEST for a Lambda function using incoming request parameters, and COGNITO_USER_POOLS for using an Amazon Cognito user pool.

Type: String

Valid Values: TOKEN | REQUEST | COGNITO_USER_POOLS

Errors

For information about the errors that are common to all actions, see Common Errors (p. 541).

BadRequestException

The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.

HTTP Status Code: 400

ConflictException

The request configuration has conflicts. For details, see the accompanying error message.

HTTP Status Code: 409

LimitExceededException

The request exceeded the rate limit. Retry after the specified time period.

HTTP Status Code: 429

NotFoundException

The requested resource is not found. Make sure that the request URI is correct.

HTTP Status Code: 404

TooManyRequestsException

The request has reached its throttling limit. Retry after the specified time period.

HTTP Status Code: 429

UnauthorizedException

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401

Examples

Example: Create a custom authorizer

This example illustrates one usage of CreateAuthorizer.
Sample Request

POST /restapis/mxsmn867vb/authorizers HTTP/1.1
Content-Type: application/json
Host: apigateway.us-east-1.amazonaws.com
X-Amz-Date: 20170223T232342Z
Authorization: AWS4-HMAC-SHA256 Credential={access_key_ID}/20170223/us-east-1/apigateway/aws4_request, SignedHeaders=content-length;content-type;host;x-amz-date,
  Signature={sig4_hash}
{
  "authType": "custom",
  "authorizerResultTtlInSeconds": 300,
  "authorizerCredentials": "arn:aws:iam::123456789012:role/apigAwsProxyRole",
  "authorizerUri": "arn:aws:apigateway:us-east-1:lambda:path/2015-03-31/functions/
  "identitySource": "method.request.header.CustAuth",
  "name": "my-other-cust-auth",
  "type": "TOKEN"
}

Sample Response

{
  "_links": {
    "curies": {
      "href": "https://docs.aws.amazon.com/apigateway/latest/developerguide/restapi-
        authorizer-{rel}.html",
      "name": "authorizer",
      "templated": true
    },
    "self": {
      "href": "/restapis/mxsmn867vb/authorizers/4unj71"
    },
    "authorizer:delete": {
      "href": "/restapis/mxsmn867vb/authorizers/4unj71"
    },
    "authorizer:update": {
      "href": "/restapis/mxsmn867vb/authorizers/4unj71"
    }
  },
  "authType": "custom",
  "authorizerCredentials": "arn:aws:iam::123456789012:role/apigAwsProxyRole",
  "authorizerResultTtlInSeconds": 300,
  "authorizerUri": "arn:aws:apigateway:us-east-1:lambda:path/2015-03-31/functions/
  "id": "4unj71",
  "identitySource": "method.request.header.CustAuth",
  "name": "my-other-cust-auth",
  "type": "TOKEN"
}

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
CreateBasePathMapping

Creates a new BasePathMapping resource.

Request Syntax

POST /domainnames/{domain_name}/basepathmappings HTTP/1.1
Content-type: application/json

{
  "basePath": "string",
  "restApiId": "string",
  "stage": "string"
}

URI Request Parameters

The request uses the following URI parameters.

**domain_name (p. 17)**

The domain name of the BasePathMapping resource to create.

Required: Yes

Request Body

The request accepts the following data in JSON format.

**basePath (p. 17)**

The base path name that callers of the API must provide as part of the URL after the domain name. This value must be unique for all of the mappings across a single API. Specify ‘(none)’ if you do not want callers to specify a base path name after the domain name.

Type: String

Required: No

**restApiId (p. 17)**

The string identifier of the associated RestApi.

Type: String

Required: Yes

**stage (p. 17)**

The name of the API's stage that you want to use for this mapping. Specify ‘(none)’ if you want callers to explicitly specify the stage name after any base path name.

Type: String

Required: No
Response Syntax

HTTP/1.1 201
Content-type: application/json

```json
{
    "basePath": "string",
    "restApiId": "string",
    "stage": "string"
}
```

Response Elements

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

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

**basePath (p. 18)**

The base path name that callers of the API must provide as part of the URL after the domain name.

Type: String

**restApiId (p. 18)**

The string identifier of the associated RestApi.

Type: String

**stage (p. 18)**

The name of the associated stage.

Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors (p. 541)].

**BadRequestException**

The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.

HTTP Status Code: 400

**ConfictException**

The request configuration has conflicts. For details, see the accompanying error message.

HTTP Status Code: 409

**LimitExceededException**

The request exceeded the rate limit. Retry after the specified time period.

HTTP Status Code: 429

**NotFoundException**

The requested resource is not found. Make sure that the request URI is correct.
HTTP Status Code: 404
**TooManyRequestsException**

The request has reached its throttling limit. Retry after the specified time period.

HTTP Status Code: 429
**UnauthorizedException**

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401

**Examples**

**Creates base path mapping for an API**

The following example request creates a TestApi base path that is mapped the fugvjdxtri API in the stage1 stage.

**Sample Request**

```plaintext
POST /domainnames/a.b.c.com/basepathmappings HTTP/1.1
Content-Type: application/json
Host: apigateway.us-east-1.amazonaws.com
X-Amz-Date: 20160615T012033Z
Authorization: AWS4-HMAC-SHA256 Credential={access_key_ID}/20160615/us-east-1/
apigateway/aws4_request, SignedHeaders=content-length;content-type;host;x-amz-date,
Signature={sig4_hash}

{
    "basepath" : "TestApi",
    "restApiId" : "fugvjdxtri",
    "stage" : "stage1"
}
```

**Sample Response**

```json
{
    "_links": {
        "curies": {
            "href": "https://docs.aws.amazon.com/apigateway/latest/developerguide/restapi-
basepathmapping-{rel}.html",
            "name": "basepathmapping",
            "templated": true
        },
        "self": {
            "href": "/domainnames/a.b.c.com/basepathmappings/TestApi"
        },
        "basepathmapping:create": {
            "href": "/domainnames/a.b.c.com/basepathmappings"
        },
        "basepathmapping:delete": {
            "href": "/domainnames/a.b.c.com/basepathmappings/TestApi"
        },
        "basepathmapping:update": {
            "href": "/domainnames/a.b.c.com/basepathmappings/TestApi"
        }
    },
    "basepath": "TestApi",
```
"restApiId": "fugvjdxyri",
"stage": "stage1"
}

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](#)
CreateDeployment

Creates a Deployment resource, which makes a specified RestApi callable over the internet.

**Request Syntax**

```
POST /restapis/restapi_id/deployments HTTP/1.1
Content-type: application/json

{
    "cacheClusterEnabled": boolean,
    "cacheClusterSize": "string",
    "canarySettings": {
        "percentTraffic": number,
        "stageVariableOverrides": {
            "string": "string"
        },
        "useStageCache": boolean
    },
    "description": "string",
    "stageDescription": "string",
    "stageName": "string",
    "tracingEnabled": boolean,
    "variables": {
        "string": "string"
    }
}
```

**URI Request Parameters**

The request uses the following URI parameters.

**restapi_id (p. 21)**

The string identifier of the associated RestApi.

Required: Yes

**Request Body**

The request accepts the following data in JSON format.

**cacheClusterEnabled (p. 21)**

Enables a cache cluster for the Stage resource specified in the input.

Type: Boolean

Required: No

**cacheClusterSize (p. 21)**

The stage's cache capacity in GB. For more information about choosing a cache size, see Enabling API caching to enhance responsiveness.

Type: String

Valid Values: 0.5 | 1.6 | 6.1 | 13.5 | 28.4 | 58.2 | 118 | 237
Required: No

**canarySettings (p. 21)**

The input configuration for the canary deployment when the deployment is a canary release deployment.

Type: **DeploymentCanarySettings (p. 491)** object

Required: No

**description (p. 21)**

The description for the Deployment resource to create.

Type: String  

Required: No

**stageDescription (p. 21)**

The description of the Stage resource for the Deployment resource to create.

Type: String  

Required: No

**stageName (p. 21)**

The name of the Stage resource for the Deployment resource to create.

Type: String  

Required: No

**tracingEnabled (p. 21)**

Specifies whether active tracing with X-ray is enabled for the Stage.

Type: Boolean

Required: No

**variables (p. 21)**

A map that defines the stage variables for the Stage resource that is associated with the new deployment. Variable names can have alphanumeric and underscore characters, and the values must match `[A-Za-z0-9-_.~:/?#&=,]+`.

Type: String to string map

Required: No

**Response Syntax**

HTTP/1.1 201  
Content-type: application/json

```json
{
   "apiSummary": {
      "string": {
         "string": {
            "apiKeyRequired": boolean,
            "authorizationType": "string"
         }
      }
   }
}
```
Amazon API Gateway API Reference
Response Elements

},
"createdDate": number,
"description": "string",
"id": "string"
}

Response Elements

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

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

apiSummary (p. 22)

A summary of the RestApi at the date and time that the deployment resource was created.

Type: String to string to MethodSnapshot (p. 514) object map map

createdDate (p. 22)

The date and time that the deployment resource was created.

Type: Timestamp

description (p. 22)

The description for the deployment resource.

Type: String

id (p. 22)

The identifier for the deployment resource.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors (p. 541).

BadRequestException

The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.

HTTP Status Code: 400

ConflictException

The request configuration has conflicts. For details, see the accompanying error message.

HTTP Status Code: 409

LimitExceededException

The request exceeded the rate limit. Retry after the specified time period.

HTTP Status Code: 429

NotFoundException

The requested resource is not found. Make sure that the request URI is correct.
HTTP Status Code: 404

**ServiceUnavailableException**

The requested service is not available. For details see the accompanying error message. Retry after the specified time period.

HTTP Status Code: 503

**TooManyRequestsException**

The request has reached its throttling limit. Retry after the specified time period.

HTTP Status Code: 429

**UnauthorizedException**

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401

## Examples

### Create a deployment of an API

This example illustrates one usage of CreateDeployment.

#### Sample Request

```plaintext
POST /restapis/fugvjdxtri/deployments HTTP/1.1
Content-Type: application/json
Host: apigateway.us-east-1.amazonaws.com
X-Amz-Date: 20160603T175605Z
Authorization: AWS4-HMAC-SHA256 Credential={access_key_ID}/20160603/us-east-1/apigateway/aws4_request, SignedHeaders=content-length;content-type;host;x-amz-date,
Signature={sig4_hash}

{
  "stageName" : "stage1",
  "stageDescription" : "First stage",
  "description" : "First deployment",
  "cacheClusterEnabled" : "false",
  "variables" : {
    "sv1" : "opVar"
  }
}
```

#### Sample Response

```plaintext
{
  "_links": {
    "curies": {
      "href": "https://docs.aws.amazon.com/apigateway/latest/developerguide/restapi-deployment-{rel}.html",
      "name": "deployment",
      "templated": true
    },
    "self": {
      "href": "/restapis/fugvjdxtri/deployments/dzacq7"
    },
    "deployment:delete": {
```
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
CreateDocumentationPart

Creates a documentation part.

Request Syntax

POST /restapis/restapi_id/documentation/parts HTTP/1.1
Content-type: application/json

{
  "location": {
    "method": "string",
    "name": "string",
    "path": "string",
    "statusCode": "string",
    "type": "string"
  },
  "properties": "string"
}

URI Request Parameters

The request uses the following URI parameters.

restapi_id (p. 26)

The string identifier of the associated RestApi.

Required: Yes

Request Body

The request accepts the following data in JSON format.

location (p. 26)

The location of the targeted API entity of the to-be-created documentation part.

Type: DocumentationPartLocation (p. 493) object

Required: Yes

properties (p. 26)

The new documentation content map of the targeted API entity. Enclosed key-value pairs are API-specific, but only OpenAPI-compliant key-value pairs can be exported and, hence, published.

Type: String

Required: Yes

Response Syntax

HTTP/1.1 201
Content-type: application/json
Response Elements

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

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

**id (p. 26)**

The DocumentationPart identifier, generated by API Gateway when the DocumentationPart is created.

Type: String

**location (p. 26)**

The location of the API entity to which the documentation applies. Valid fields depend on the targeted API entity type. All the valid location fields are not required. If not explicitly specified, a valid location field is treated as a wildcard and associated documentation content may be inherited by matching entities, unless overridden.

Type: DocumentationPartLocation (p. 493) object

**properties (p. 26)**

A content map of API-specific key-value pairs describing the targeted API entity. The map must be encoded as a JSON string, e.g., "{ "description": "The API does ..." }". Only OpenAPI-compliant documentation-related fields from the properties map are exported and, hence, published as part of the API entity definitions, while the original documentation parts are exported in an OpenAPI extension of x-amazon-apigateway-documentation.

Type: String

**Errors**

For information about the errors that are common to all actions, see Common Errors (p. 541).

**BadRequestException**

The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.

HTTP Status Code: 400

**ConflictException**

The request configuration has conflicts. For details, see the accompanying error message.

HTTP Status Code: 409
LimitExceededexception

The request exceeded the rate limit. Retry after the specified time period.

HTTP Status Code: 429

NotFoundException

The requested resource is not found. Make sure that the request URI is correct.

HTTP Status Code: 404

TooManyRequestsException

The request has reached its throttling limit. Retry after the specified time period.

HTTP Status Code: 429

UnauthorizedException

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401

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
CreateDocumentationVersion

Creates a documentation version

Request Syntax

POST /restapis/restapi_id/documentation/versions HTTP/1.1
Content-type: application/json

{
    "description": "string",
    "documentationVersion": "string",
    "stageName": "string"
}

URI Request Parameters

The request uses the following URI parameters.

restapi_id (p. 29)

The string identifier of the associated RestApi.

Required: Yes

Request Body

The request accepts the following data in JSON format.

description (p. 29)

A description about the new documentation snapshot.

Type: String

Required: No
documentationVersion (p. 29)

The version identifier of the new snapshot.

Type: String

Required: Yes
stageName (p. 29)

The stage name to be associated with the new documentation snapshot.

Type: String

Required: No

Response Syntax

HTTP/1.1 201
Content-type: application/json

```json
{
  "createdDate": "number",
  "description": "string",
  "version": "string"
}
```

## Response Elements

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

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

**createdDate (p. 29)**

The date when the API documentation snapshot is created.

Type: Timestamp

**description (p. 29)**

The description of the API documentation snapshot.

Type: String

**version (p. 29)**

The version identifier of the API documentation snapshot.

Type: String

## Errors

For information about the errors that are common to all actions, see [Common Errors (p. 541)].

**BadRequestException**

The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.

HTTP Status Code: 400

**ConflictException**

The request configuration has conflicts. For details, see the accompanying error message.

HTTP Status Code: 409

**LimitExceededException**

The request exceeded the rate limit. Retry after the specified time period.

HTTP Status Code: 429

**NotFoundException**

The requested resource is not found. Make sure that the request URI is correct.

HTTP Status Code: 404

**TooManyRequestsException**

The request has reached its throttling limit. Retry after the specified time period.
HTTP Status Code: 429

UnauthorizedException

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401

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
CreateDomainName

Creates a new domain name.

Request Syntax

```
POST /domainnames HTTP/1.1
Content-type: application/json

{
    "certificateArn": "string",
    "certificateBody": "string",
    "certificateChain": "string",
    "certificateName": "string",
    "certificatePrivateKey": "string",
    "domainName": "string",
    "endpointConfiguration": {
        "types": [ "string" ],
        "vpcEndpointIds": [ "string" ]
    },
    "mutualTlsAuthentication": {
        "truststoreUri": "string",
        "truststoreVersion": "string"
    },
    "ownershipVerificationCertificateArn": "string",
    "regionalCertificateArn": "string",
    "regionalCertificateName": "string",
    "securityPolicy": "string",
    "tags": {
        "String": "string"
    }
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

**certificateArn (p. 32)**

The reference to an AWS-managed certificate that will be used by edge-optimized endpoint for this domain name. AWS Certificate Manager is the only supported source.

Type: String

Required: No

**certificateBody (p. 32)**

[Deprecated] The body of the server certificate that will be used by edge-optimized endpoint for this domain name provided by your certificate authority.

Type: String

Required: No
**certificateChain (p. 32)**

[Deprecated] The intermediate certificates and optionally the root certificate, one after the other without any blank lines, used by an edge-optimized endpoint for this domain name. If you include the root certificate, your certificate chain must start with intermediate certificates and end with the root certificate. Use the intermediate certificates that were provided by your certificate authority. Do not include any intermediaries that are not in the chain of trust path.

Type: String

Required: No

**certificateName (p. 32)**

The user-friendly name of the certificate that will be used by edge-optimized endpoint for this domain name.

Type: String

Required: No

**certificatePrivateKey (p. 32)**

[Deprecated] Your edge-optimized endpoint's domain name certificate's private key.

Type: String

Required: No

**domainName (p. 32)**

The name of the DomainName resource.

Type: String

Required: Yes

**endpointConfiguration (p. 32)**

The endpoint configuration of this DomainName showing the endpoint types of the domain name.

Type: `EndpointConfiguration (p. 499)` object

Required: No

**mutualTlsAuthentication (p. 32)**

The mutual TLS authentication configuration for a custom domain name. If specified, API Gateway performs two-way authentication between the client and the server. Clients must present a trusted certificate to access your API.

Type: `MutualTlsAuthenticationInput (p. 517)` object

Required: No

**ownershipVerificationCertificateArn (p. 32)**

The ARN of the public certificate issued by ACM to validate ownership of your custom domain. Only required when configuring mutual TLS and using an ACM imported or private CA certificate ARN as the regionalCertificateArn.

Type: String

Required: No
### regionalCertificateArn (p. 32)

The reference to an AWS-managed certificate that will be used by regional endpoint for this domain name. AWS Certificate Manager is the only supported source.

- Type: String
- Required: No

### regionalCertificateName (p. 32)

The user-friendly name of the certificate that will be used by regional endpoint for this domain name.

- Type: String
- Required: No

### securityPolicy (p. 32)

The Transport Layer Security (TLS) version + cipher suite for this DomainName. The valid values are TLS_1_0 and TLS_1_2.

- Type: String
- Valid Values: TLS_1_0 | TLS_1_2
- Required: No

### tags (p. 32)

The key-value map of strings. The valid character set is [a-zA-Z+-=_:/]. The tag key can be up to 128 characters and must not start with `aws:`. The tag value can be up to 256 characters.

- Type: String to string map
- Required: No

## Response Syntax

```json
HTTP/1.1 201
Content-type: application/json

{
    "certificateArn": "string",
    "certificateName": "string",
    "certificateUploadDate": number,
    "distributionDomainName": "string",
    "distributionHostedZoneId": "string",
    "domainName": "string",
    "domainNameStatus": "string",
    "domainNameStatusMessage": "string",
    "endpointConfiguration": {
        "types": [ "string" ],
        "vpcEndpointIds": [ "string" ]
    },
    "mutualTlsAuthentication": {
        "truststoreUri": "string",
        "truststoreVersion": "string",
        "truststoreWarnings": [ "string" ]
    },
    "ownershipVerificationCertificateArn": "string",
    "regionalCertificateArn": "string"
}
```

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Response Elements

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

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

**certificateArn (p. 34)**

The reference to an AWS-managed certificate that will be used by edge-optimized endpoint for this domain name. AWS Certificate Manager is the only supported source.

Type: String

**certificateName (p. 34)**

The name of the certificate that will be used by edge-optimized endpoint for this domain name.

Type: String

**certificateUploadDate (p. 34)**

The timestamp when the certificate that was used by edge-optimized endpoint for this domain name was uploaded.

Type: Timestamp

**distributionDomainName (p. 34)**

The domain name of the Amazon CloudFront distribution associated with this custom domain name for an edge-optimized endpoint. You set up this association when adding a DNS record pointing the custom domain name to this distribution name. For more information about CloudFront distributions, see the Amazon CloudFront documentation.

Type: String

**distributionHostedZoneId (p. 34)**

The region-agnostic Amazon Route 53 Hosted Zone ID of the edge-optimized endpoint. The valid value is Z2FDTNDATAQYW2 for all the regions. For more information, see Set up a Regional Custom Domain Name and AWS Regions and Endpoints for API Gateway.

Type: String

**domainName (p. 34)**

The custom domain name as an API host name, for example, my-api.example.com.

Type: String

**domainNameStatus (p. 34)**

The status of the DomainName migration. The valid values are AVAILABLE and UPDATING. If the status is UPDATING, the domain cannot be modified further until the existing operation is complete. If it is AVAILABLE, the domain can be updated.

Type: String
Valid Values: AVAILABLE | UPDATING | PENDING | PENDING_CERTIFICATE_REIMPORT | PENDING_OWNERSHIP_VERIFICATION

domainNameStatusMessage (p. 34)

An optional text message containing detailed information about status of the DomainName migration.

Type: String

domainNameStatusMessage (p. 34)

endpointConfiguration (p. 34)

The endpoint configuration of this DomainName showing the endpoint types of the domain name.

Type: EndpointConfiguration (p. 499) object

mutualTLsAuthentication (p. 34)

The mutual TLS authentication configuration for a custom domain name. If specified, API Gateway performs two-way authentication between the client and the server. Clients must present a trusted certificate to access your API.

Type: MutualTlsAuthentication (p. 516) object

ownershipVerificationCertificateArn (p. 34)

The ARN of the public certificate issued by ACM to validate ownership of your custom domain. Only required when configuring mutual TLS and using an ACM imported or private CA certificate ARN as the regionalCertificateArn.

Type: String

regionalCertificateArn (p. 34)

The reference to an AWS-managed certificate that will be used for validating the regional domain name. AWS Certificate Manager is the only supported source.

Type: String

regionalCertificateName (p. 34)

The name of the certificate that will be used for validating the regional domain name.

Type: String

regionalDomainName (p. 34)

The domain name associated with the regional endpoint for this custom domain name. You set up this association by adding a DNS record that points the custom domain name to this regional domain name. The regional domain name is returned by API Gateway when you create a regional endpoint.

Type: String

regionalHostedZoneId (p. 34)

The region-specific Amazon Route 53 Hosted Zone ID of the regional endpoint. For more information, see Set up a Regional Custom Domain Name and AWS Regions and Endpoints for API Gateway.

Type: String

securityPolicy (p. 34)

The Transport Layer Security (TLS) version + cipher suite for this DomainName. The valid values are TLS_1_0 and TLS_1_2.

Type: String
Valid Values: TLS_1_0 | TLS_1_2

tags (p. 34)

The collection of tags. Each tag element is associated with a given resource.

Type: String to string map

Errors

For information about the errors that are common to all actions, see Common Errors (p. 541).

BadRequestException

The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.

HTTP Status Code: 400

ConflictException

The request configuration has conflicts. For details, see the accompanying error message.

HTTP Status Code: 409

LimitExceededException

The request exceeded the rate limit. Retry after the specified time period.

HTTP Status Code: 429

TooManyRequestsException

The request has reached its throttling limit. Retry after the specified time period.

HTTP Status Code: 429

UnauthorizedException

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401

Examples

Create a domain name

This example illustrates one usage of CreateDomainName.

Sample Request

```
POST /domainnames HTTP/1.1
Content-Type: application/json
Host: apigateway.us-east-1.amazonaws.com
X-Amz-Date: 20160615T211441Z
Authorization: AWS4-HMAC-SHA256 Credential={access_key_ID}/20160615/us-east-1/apigateway/aws4_request, SignedHeaders=content-length;content-type;host;x-amz-date, Signature={sig4_hash}
{
```
"domainName" : "my-api.example.com",
"certificateName": "my-cert-created-today",
"certificateArn": "arn:aws:acm:us-east-1:012345678910:certificate/fb1b9770-a305-495d-aefb-27e5e101ff3",
"endpointConfiguration": {
  "types": ["EDGE"]
}
}

Sample Response

{
  "_links": {
    "curies": [
      {
        "href": "https://docs.aws.amazon.com/apigateway/latest/developerguide/restapi-basepathmapping-{rel}.html",
        "name": "basepathmapping",
        "templated": true
      },
      {
        "href": "https://docs.aws.amazon.com/apigateway/latest/developerguide/restapi-domainname-{rel}.html",
        "name": "domainname",
        "templated": true
      }
    ],
    "self": {
      "href": "https://domainnames/my-api.example.com"
    },
    "basepathmapping:by-base-path": {
      "href": "https://domainnames/my-api.example.com/basepathmappings/{base_path}",
      "templated": true
    },
    "basepathmapping:create": {
      "href": "https://domainnames/my-api.example.com/basepathmappings"
    },
    "domainname:basepathmappings": {
      "href": "https://domainnames/my-api.example.com/basepathmappings{?limit}",
      "templated": true
    },
    "domainname:delete": {
      "href": "https://domainnames/my-api.example.com"
    },
    "domainname:update": {
      "href": "https://domainnames/my-api.example.com"
    },
    "certificateArn": "arn:aws:acm:us-east-1:012345678910:certificate/fb1b9770-a305-495d-aefb-27e5e101ff3",
    "certificateName": "my-cert-created-today",
    "certificateUploadDate": "2016-06-15T21:14:43Z",
    "distributionDomainName": "d2ck2x1vuc8qzh.cloudfront.net",
    "domainName": "my-api.example.com"
  }
}

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
See Also

- 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
CreateModel

Adds a new Model resource to an existing RestApi resource.

Request Syntax

```
POST /restapis/restapi_id/models HTTP/1.1
Content-type: application/json
{
  "contentType": "string",
  "description": "string",
  "name": "string",
  "schema": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

**restapi_id (p. 40)**

The RestApi identifier under which the Model will be created.

Required: Yes

Request Body

The request accepts the following data in JSON format.

**contentType (p. 40)**

The content-type for the model.

Type: String

Required: Yes

**description (p. 40)**

The description of the model.

Type: String

Required: No

**name (p. 40)**

The name of the model. Must be alphanumeric.

Type: String

Required: Yes

**schema (p. 40)**

The schema for the model. For application/json models, this should be JSON schema draft 4 model.
Response Syntax

HTTP/1.1 201
Content-type: application/json
{
   "contentType": "string",
   "description": "string",
   "id": "string",
   "name": "string",
   "schema": "string"
}

Response Elements

If the action is successful, the service sends back an HTTP 201 response. The following data is returned in JSON format by the service.

**contentType (p. 41)**

The content-type for the model.

Type: String

**description (p. 41)**

The description of the model.

Type: String

**id (p. 41)**

The identifier for the model resource.

Type: String

**name (p. 41)**

The name of the model. Must be an alphanumeric string.

Type: String

**schema (p. 41)**

The schema for the model. For application/json models, this should be JSON schema draft 4 model. Do not include "\*/" characters in the description of any properties because such "\*/" characters may be interpreted as the closing marker for comments in some languages, such as Java or JavaScript, causing the installation of your API's SDK generated by API Gateway to fail.

Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors (p. 541)](#).
BadRequestException

The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.

HTTP Status Code: 400

ConflictException

The request configuration has conflicts. For details, see the accompanying error message.

HTTP Status Code: 409

LimitExceededException

The request exceeded the rate limit. Retry after the specified time period.

HTTP Status Code: 429

NotFoundException

The requested resource is not found. Make sure that the request URI is correct.

HTTP Status Code: 404

TooManyRequestsException

The request has reached its throttling limit. Retry after the specified time period.

HTTP Status Code: 429

UnauthorizedException

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401

Examples

Create a model

This example illustrates one usage of CreateModel.

Sample Request

POST /restapis/uojn9hd57/models HTTP/1.1
Content-Type: application/json
Host: apigateway.us-east-1.amazonaws.com
X-Amz-Date: 20160614T173659Z
Authorization: AWS4-HMAC-SHA256 Credential={access_key_ID}/20160614/us-east-1/apigateway/aws4_request, SignedHeaders=content-length;content-type;host;x-amz-date, Signature={sig4_hash}

{
  "name" : "CalcOutput",
  "description" : "Calc output model",
  "schema" : {
    "title": "Calc output",
    "type": "object",
    "properties": {
      "a": {
        "type": "number"
      },
      "b": {
        "type": "number"
      },
      "op": {
        "description": "operation of +, -, *, or /",
        "type": "string"
      },
      "c": {
        "type": "number"
      }
    },
    "required": ["a", "b", "op"]
  },
  "contentType" : "application/json"
}
Sample Response

```json
{
    "_links": {
        "curies": {
            "href": "https://docs.aws.amazon.com/apigateway/latest/developerguide/restapi-model-{rel}.html",
            "name": "model",
            "templated": true
        },
        "self": {
            "href": "/restapis/uojnr9hd57/models/CalcOutput?flatten=false"
        },
        "model:create": {
            "href": "/restapis/uojnr9hd57/models"
        },
        "model:delete": {
            "href": "/restapis/uojnr9hd57/models/CalcOutput"
        },
        "model:generate-template": {
            "href": "/restapis/uojnr9hd57/models/CalcOutput/default_template"
        },
        "model:update": {
            "href": "/restapis/uojnr9hd57/models/CalcOutput"
        }
    },
    "contentType": "application/json",
    "description": "Calc output model",
    "id": "mzy1a0",
    "name": "CalcOutput",
    "schema": "{"title": "Calc output","type": "object","properties": {"a": {"type": "number"},"b": {"type": "number"},"op": {"type": "string","description": "operation of +, -, * or /"},"c": {"type": "number"}}}
    "required": ["a", "b", "op"]
}
```

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
CreateRequestValidator

Creates a RequestValidator of a given RestApi.

**Request Syntax**

```
POST /restapis/{restapi_id}/requestvalidators HTTP/1.1
Content-type: application/json

{
  "name": "string",
  "validateRequestBody": boolean,
  "validateRequestParameters": boolean
}
```

**URI Request Parameters**

The request uses the following URI parameters.

- **restapi_id (p. 44)**
  
  The string identifier of the associated RestApi.
  
  Required: Yes

**Request Body**

The request accepts the following data in JSON format.

- **name (p. 44)**
  
  The name of the to-be-created RequestValidator.
  
  Type: String
  
  Required: No

- **validateRequestBody (p. 44)**
  
  A Boolean flag to indicate whether to validate request body according to the configured model schema for the method (true) or not (false).
  
  Type: Boolean
  
  Required: No

- **validateRequestParameters (p. 44)**
  
  A Boolean flag to indicate whether to validate request parameters, true, or not false.
  
  Type: Boolean
  
  Required: No

**Response Syntax**

```
HTTP/1.1 201
```

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Response Elements

If the action is successful, the service sends back an HTTP 201 response. The following data is returned in JSON format by the service.

**id** *(p. 44)*

The identifier of this RequestValidator.

Type: String

**name** *(p. 44)*

The name of this RequestValidator.

Type: String

**validateRequestBody** *(p. 44)*

A Boolean flag to indicate whether to validate a request body according to the configured Model schema.

Type: Boolean

**validateRequestParameters** *(p. 44)*

A Boolean flag to indicate whether to validate request parameters (true) or not (false).

Type: Boolean

Errors

For information about the errors that are common to all actions, see [Common Errors (p. 541)].

**BadRequestException**

The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.

HTTP Status Code: 400

**ConflictException**

The request configuration has conflicts. For details, see the accompanying error message.

HTTP Status Code: 409

**LimitExceededException**

The request exceeded the rate limit. Retry after the specified time period.

HTTP Status Code: 429
NotFoundException

The requested resource is not found. Make sure that the request URI is correct.

HTTP Status Code: 404

TooManyRequestsException

The request has reached its throttling limit. Retry after the specified time period.

HTTP Status Code: 429

UnauthorizedException

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401

Examples

Create a RequestValidator for an API to validate required request payloads

This example illustrates one usage of CreateRequestValidator.

Sample Request

POST /restapis/mkhqppt4e4/requestvalidators HTTP/1.1
Content-Type: application/json
Host: apigateway.us-east-1.amazonaws.com
X-Amz-Date: 20170223T172652Z
Authorization: AWS4-HMAC-SHA256 Credential={access_key_ID}/20170223/us-east-1/apigateway/aw4_request, SignedHeaders=content-type;host;x-amz-date, Signature={sig4_hash}

{
    "name": "body-only",
    "validateRequestBody": "true",
    "validateRequestParameters": "false"
}

Sample Response

{
    "_links": {
        "self": {
            "href": "/restapis/mkhqppt4e4/requestvalidators/3n5aa0"
        },
        "request-validator-delete": {
            "href": "/restapis/mkhqppt4e4/requestvalidators/3n5aa0"
        },
        "request-validator-update": {
            "href": "/restapis/mkhqppt4e4/requestvalidators/3n5aa0"
        }
    },
    "id": "3n5aa0",
    "name": "body-only",
    "validateRequestBody": true,
    "validateRequestParameters": 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
CreateResource

Creates a Resource resource.

Request Syntax

POST /restapis/restapi_id/resources/parent_id HTTP/1.1
Content-type: application/json

{  "pathPart": "string" }

URI Request Parameters

The request uses the following URI parameters.

parent_id (p. 48)

The parent resource's identifier.

Required: Yes

restapi_id (p. 48)

The string identifier of the associated RestApi.

Required: Yes

Request Body

The request accepts the following data in JSON format.

pathPart (p. 48)

The last path segment for this resource.

Type: String

Required: Yes

Response Syntax

HTTP/1.1 201
Content-type: application/json

{  "id": "string",
   "parentId": "string",
   "path": "string",
   "pathPart": "string",
   "resourceMethods": {
      "string": {
         "apiKeyRequired": boolean,
         "authorizationScopes": [ "string" ],
   }}
"authorizationType": "string",
"authorizerId": "string",
"httpMethod": "string",
"methodIntegration": {
  "cacheKeyParameters": [ "string" ],
  "cacheNamespace": "string",
  "connectionId": "string",
  "connectionType": "string",
  "contentHandling": "string",
  "credentials": "string",
  "httpMethod": "string",
  "IntegrationResponses": {
    "string": {
      "contentHandling": "string",
      "responseParameters": {
        "string": "string"
      },
      "responseTemplates": {
        "string": "string"
      },
      "selectionPattern": "string",
      "statusCode": "string"
    }
  },
  "passsthroughBehavior": "string",
  "requestParameters": {
    "string": "string"
  },
  "requestTemplates": {
    "string": "string"
  },
  "timeoutInMillis": number,
  "tlsConfig": {
    "insecureSkipVerification": boolean
  },
  "type": "string",
  "uri": "string"
},
"methodResponses": {
  "string": {
    "responseModels": {
      "string": "string"
    },
    "responseParameters": {
      "string": boolean
    },
    "statusCode": "string"
  }
},
"operationName": "string",
"requestModels": {
  "string": "string"
},
"requestParameters": {
  "string": boolean
},
"requestValidatorId": "string"
}

**Response Elements**

If the action is successful, the service sends back an HTTP 201 response.
The following data is returned in JSON format by the service.

**id (p. 48)**
- The resource's identifier.
  - Type: String

**parentId (p. 48)**
- The parent resource's identifier.
  - Type: String

**path (p. 48)**
- The full path for this resource.
  - Type: String

**pathPart (p. 48)**
- The last path segment for this resource.
  - Type: String

**resourceMethods (p. 48)**
- Gets an API resource's method of a given HTTP verb.
  - Type: String to **Method (p. 508)** object map

**Errors**

For information about the errors that are common to all actions, see **Common Errors (p. 541)**.

**BadRequestException**
- The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.
  - HTTP Status Code: 400

**ConflictException**
- The request configuration has conflicts. For details, see the accompanying error message.
  - HTTP Status Code: 409

**LimitExceededException**
- The request exceeded the rate limit. Retry after the specified time period.
  - HTTP Status Code: 429

**NotFoundException**
- The requested resource is not found. Make sure that the request URI is correct.
  - HTTP Status Code: 404

**TooManyRequestsException**
- The request has reached its throttling limit. Retry after the specified time period.
  - HTTP Status Code: 429
UnauthorizedException

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401

Examples

Create a child resource under an API's root resource

This example illustrates one usage of CreateResource.

Sample Request

```
POST /restapis/fugvjdxtri/resources/3kzxbg5sa2 HTTP/1.1
Content-Type: application/json
Host: apigateway.us-east-1.amazonaws.com
X-Amz-Date: 20170223T010429Z
Authorization: AWS4-HMAC-SHA256 Credential={access_key_ID}/20170223/us-east-1/apigateway/aws4_request, SignedHeaders=content-length;content-type;host;x-amz-date,
Signature={sig4_hash}
{
  "pathPart" : "res1"
}
```

Sample Response

```
{
  "_links": {
    "curies": [
      {
        "href": "https://docs.aws.amazon.com/apigateway/latest/developerguide/restapi-method-{rel}.html",
        "name": "method",
        "templated": true
      },
      {
        "href": "https://docs.aws.amazon.com/apigateway/latest/developerguide/restapi-resource-{rel}.html",
        "name": "resource",
        "templated": true
      }
    ],
    "self": {
      "href": "/restapis/fugvjdxtri/resources/47rxl6"
    },
    "method:by-http-method": {
      "href": "/restapis/fugvjdxtri/resources/47rxl6/methods/{http_method}",
      "templated": true
    },
    "method:put": {
      "href": "/restapis/fugvjdxtri/resources/47rxl6/methods/{http_method}",
      "templated": true
    },
    "resource:create-child": {
      "href": "/restapis/fugvjdxtri/resources/47rxl6"
    },
    "resource:delete": {
      "href": "/restapis/fugvjdxtri/resources/47rxl6"
    }
  }
}
```
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](#)
CreateRestApi

Create a new RestApi resource.

Request Syntax

POST /restapis HTTP/1.1
Content-type: application/json

{
    "apiKeySource": "string",
    "binaryMediaTypes": [ "string" ],
    "cloneFrom": "string",
    "description": "string",
    "disableExecuteApiEndpoint": boolean,
    "endpointConfiguration": {
        "types": [ "string" ],
        "vpcEndpointIds": [ "string" ]
    },
    "minimumCompressionSize": number,
    "name": "string",
    "policy": "string",
    "tags": {
        "String": "string"
    },
    "version": "string"
}

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

apiKeySource (p. 53)

The source of the API key for metering requests according to a usage plan. Valid values are: HEADER to read the API key from the X-API-Key header of a request. AUTHORIZER to read the API key from the UsageIdentifierKey from a custom authorizer.

Type: String

Valid Values: HEADER | AUTHORIZER

Required: No

binaryMediaTypes (p. 53)

The list of binary media types supported by the RestApi. By default, the RestApi supports only UTF-8-encoded text payloads.

Type: Array of strings

Required: No

cloneFrom (p. 53)

The ID of the RestApi that you want to clone from.
Type: String
Required: No
description (p. 53)
The description of the RestApi.

Type: String
Required: No
disableExecuteApiEndpoint (p. 53)
Specifies whether clients can invoke your API by using the default execute-api endpoint. By default, clients can invoke your API with the default https://{api_id}.execute-api.{region}.amazonaws.com endpoint. To require that clients use a custom domain name to invoke your API, disable the default endpoint

Type: Boolean
Required: No
disableExecuteApiEndpoint (p. 53)
The endpoint configuration of this RestApi showing the endpoint types of the API.

Type: EndpointConfiguration (p. 499) object
Required: No
minimumCompressionSize (p. 53)
A nullable integer that is used to enable compression (with non-negative between 0 and 10485760 (10M) bytes, inclusive) or disable compression (with a null value) on an API. When compression is enabled, compression or decompression is not applied on the payload if the payload size is smaller than this value. Setting it to zero allows compression for any payload size.

Type: Integer
Required: No
name (p. 53)
The name of the RestApi.

Type: String
Required: Yes
policy (p. 53)
A stringified JSON policy document that applies to this RestApi regardless of the caller and Method configuration.

Type: String
Required: No
tags (p. 53)
The key-value map of strings. The valid character set is [a-zA-Z+-_=./]. The tag key can be up to 128 characters and must not start with aws:. The tag value can be up to 256 characters.

Type: String to string map
Required: No
version (p. 53)

A version identifier for the API.

Type: String

Required: No

Response Syntax

HTTP/1.1 201
Content-type: application/json

{
   "apiKeySource": "string",
   "binaryMediaTypes": [ "string" ],
   "createdDate": number,
   "description": "string",
   "disableExecuteApiEndpoint": boolean,
   "endpointConfiguration": {
      "types": [ "string" ],
      "vpcEndpointIds": [ "string" ]
   },
   "id": "string",
   "minimumCompressionSize": number,
   "name": "string",
   "policy": "string",
   "rootResourceId": "string",
   "tags": {
      "String" : "string"
   },
   "version": "string",
   "warnings": [ "string" ]
}

Response Elements

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

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

apiKeySource (p. 55)

The source of the API key for metering requests according to a usage plan. Valid values are: HEADER to read the API key from the X-API-Key header of a request. AUTHORIZER to read the API key from the UsageIdentifierKey from a custom authorizer.

Type: String

Valid Values: HEADER | AUTHORIZER

binaryMediaTypes (p. 55)

The list of binary media types supported by the RestApi. By default, the RestApi supports only UTF-8-encoded text payloads.

Type: Array of strings

createdDate (p. 55)

The timestamp when the API was created.
**Response Elements**

**Type:** Timestamp

**description (p. 55)**

The API's description.

**Type:** String

**disableExecuteApiEndpoint (p. 55)**

Specifies whether clients can invoke your API by using the default `execute-api` endpoint. By default, clients can invoke your API with the default `https://{api_id}.execute-api.{region}.amazonaws.com` endpoint. To require that clients use a custom domain name to invoke your API, disable the default endpoint.

**Type:** Boolean

**endpointConfiguration (p. 55)**

The endpoint configuration of this `RestApi` showing the endpoint types of the API.

**Type:** `EndpointConfiguration (p. 499)` object

**id (p. 55)**

The API's identifier. This identifier is unique across all of your APIs in API Gateway.

**Type:** String

**minimumCompressionSize (p. 55)**

A nullable integer that is used to enable compression (with non-negative between 0 and 10485760 (10M) bytes, inclusive) or disable compression (with a null value) on an API. When compression is enabled, compression or decompression is not applied on the payload if the payload size is smaller than this value. Setting it to zero allows compression for any payload size.

**Type:** Integer

**name (p. 55)**

The API's name.

**Type:** String

**policy (p. 55)**

A stringified JSON policy document that applies to this `RestApi` regardless of the caller and Method configuration.

**Type:** String

**rootResourceId (p. 55)**

The API's root resource ID.

**Type:** String

**tags (p. 55)**

The collection of tags. Each tag element is associated with a given resource.

**Type:** String to string map

**version (p. 55)**

A version identifier for the API.

**Type:** String
Warnings (p. 55)

The warning messages reported when failonwarnings is turned on during API import.

Type: Array of strings

Errors

For information about the errors that are common to all actions, see Common Errors (p. 541).

BadRequestException

The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.

HTTP Status Code: 400

ConflictException

The request configuration has conflicts. For details, see the accompanying error message.

HTTP Status Code: 409

LimitExceededException

The request exceeded the rate limit. Retry after the specified time period.

HTTP Status Code: 429

TooManyRequestsException

The request has reached its throttling limit. Retry after the specified time period.

HTTP Status Code: 429

UnauthorizedException

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401

Examples

Create a new API

This example illustrates one usage of CreateRestApi.

Sample Request

```
POST /restapis HTTP/1.1
Content-Type: application/json
Host: apigateway.us-east-1.amazonaws.com
X-Amz-Date: 20160601T185340Z
Authorization: AWS4-HMAC-SHA256 Credential={access_key_ID}/20160601/us-east-1/apigateway/aws4_request, SignedHeaders=content-length;content-type;host;x-amz-date,
Signature={sig4_hash}

{
    "name": "my-test-api",
    "description": "A sample API created programmatically by calling API Gateway control service using the REST API"
}
```
Sample Response

```json
{
  "_links": {
    "curies": [
      ...
    ],
    "self": {
      "href": "/restapis/fugvjdxtri"
    },
    "authorizer:by-id": {
      "href": "/restapis/fugvjdxtri/authorizers/{authorizer_id}",
      "templated": true
    },
    "authorizer:create": {
      "href": "/restapis/fugvjdxtri/authorizers"
    },
    "deployment:by-id": {
      "href": "/restapis/fugvjdxtri/deployments/{deployment_id}{?embed}",
      "templated": true
    },
    "deployment:create": {
      "href": "/restapis/fugvjdxtri/deployments"
    },
    "model:by-name": {
      "href": "/restapis/fugvjdxtri/models/{model_name}?flatten=false",
      "templated": true
    },
    "model:create": {
      "href": "/restapis/fugvjdxtri/models"
    },
    "resource:by-id": {
      "href": "/restapis/fugvjdxtri/resources/{resource_id}{?embed}",
      "templated": true
    },
    "resource:create": {
      "href": "/restapis/fugvjdxtri/resources/3kzxbg5sa2"
    },
    "restapi:authorizers": {
      "href": "/restapis/fugvjdxtri/authorizers"
    },
    "restapi:delete": {
      "href": "/restapis/fugvjdxtri"
    },
    "restapi:deployments": {
      "href": "/restapis/fugvjdxtri/deployments{?limit}",
      "templated": true
    },
    "restapi:models": {
      "href": "/restapis/fugvjdxtri/models"
    },
    "restapi:resources": {
      "href": "/restapis/fugvjdxtri/resources{?limit,embed}",
      "templated": true
    },
    "restapi:stages": {
      "href": "/restapis/fugvjdxtri/stages{?deployment_id}",
      "templated": true
    },
    "restapi:update": {
      "href": "/restapis/fugvjdxtri"
    },
    "stage:by-name": {
      "href": "/restapis/fugvjdxtri/stages/{stage_name}",
      "templated": 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
CreateStage

Creates a new Stage resource that references a pre-existing Deployment for the API.

Request Syntax

```json
POST /restapis/restapi_id/stages HTTP/1.1
Content-type: application/json

{
    "cacheClusterEnabled": boolean,
    "cacheClusterSize": "string",
    "canarySettings": {
        "deploymentId": "string",
        "percentTraffic": number,
        "stageVariableOverrides": {
            "string": "string"
        }
    },
    "useStageCache": boolean,
    "deploymentId": "string",
    "description": "string",
    "documentationVersion": "string",
    "stageName": "string",
    "tags": {
        "String": "string"
    },
    "tracingEnabled": boolean,
    "variables": {
        "string": "string"
    }
}
```

URI Request Parameters

The request uses the following URI parameters.

restapi_id (p. 60)

The string identifier of the associated RestApi.

Required: Yes

Request Body

The request accepts the following data in JSON format.

cacheClusterEnabled (p. 60)

Whether cache clustering is enabled for the stage.

Type: Boolean

Required: No

cacheClusterSize (p. 60)

The stage's cache capacity in GB. For more information about choosing a cache size, see Enabling API caching to enhance responsiveness.
Request Body

Type: String

Valid Values: 0.5 | 1.6 | 6.1 | 13.5 | 28.4 | 58.2 | 118 | 237

Required: No

canarySettings (p. 60)

The canary deployment settings of this stage.

Type: CanarySettings (p. 487) object

Required: No

deploymentId (p. 60)

The identifier of the Deployment resource for the Stage resource.

Type: String

Required: Yes

description (p. 60)

The description of the Stage resource.

Type: String

Required: No

documentationVersion (p. 60)

The version of the associated API documentation.

Type: String

Required: No

stageName (p. 60)

The name for the Stage resource. Stage names can only contain alphanumeric characters, hyphens, and underscores. Maximum length is 128 characters.

Type: String

Required: Yes

tags (p. 60)

The key-value map of strings. The valid character set is [a-zA-Z-+=._~:/?#&=,]. The tag key can be up to 128 characters and must not start with aws:. The tag value can be up to 256 characters.

Type: String to string map

Required: No

tracingEnabled (p. 60)

Specifies whether active tracing with X-ray is enabled for the Stage.

Type: Boolean

Required: No

variables (p. 60)

A map that defines the stage variables for the new Stage resource. Variable names can have alphanumeric and underscore characters, and the values must match [A-Za-z0-9-_.~:/?#&=,]+.
Type: String to string map
Required: No

Response Syntax

HTTP/1.1 201
Content-type: application/json
{
  "accessLogSettings": {
    "destinationArn": "string",
    "format": "string"
  },
  "cacheClusterEnabled": boolean,
  "cacheClusterSize": "string",
  "cacheClusterStatus": "string",
  "canarySettings": {
    "deploymentId": "string",
    "percentTraffic": number,
    "stageVariableOverrides": {
      "string": "string"
    },
    "useStageCache": boolean
  },
  "clientCertificateId": "string",
  "createdDate": number,
  "deploymentId": "string",
  "description": "string",
  "documentationVersion": "string",
  "lastUpdatedDate": number,
  "methodSettings": {
    "string": {
      "cacheDataEncrypted": boolean,
      "cacheTtlInSeconds": number,
      "cachingEnabled": boolean,
      "dataTraceEnabled": boolean,
      "loggingLevel": "string",
      "metricsEnabled": boolean,
      "requireAuthorizationForCacheControl": boolean,
      "throttlingBurstLimit": number,
      "throttlingRateLimit": number,
      "unauthorizedCacheControlHeaderStrategy": "string"
    }
  },
  "stageName": "string",
  "tags": {
    "string": "string"
  },
  "tracingEnabled": boolean,
  "variables": {
    "string": "string"
  },
  "webAclArn": "string"
}

Response Elements

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

The following data is returned in JSON format by the service.
accessLogSettings (p. 62)

Settings for logging access in this stage.
Type: AccessLogSettings (p. 479) object

cacheClusterEnabled (p. 62)

Specifies whether a cache cluster is enabled for the stage.
Type: Boolean

cacheClusterSize (p. 62)

The stage's cache capacity in GB. For more information about choosing a cache size, see Enabling API caching to enhance responsiveness.
Type: String
Valid Values: 0.5 | 1.6 | 6.1 | 13.5 | 28.4 | 58.2 | 118 | 237

cacheClusterStatus (p. 62)

The status of the cache cluster for the stage, if enabled.
Type: String
Valid Values: CREATE_IN_PROGRESS | AVAILABLE | DELETE_IN_PROGRESS | NOT_AVAILABLE | FLUSH_IN_PROGRESS

canarySettings (p. 62)

Settings for the canary deployment in this stage.
Type: CanarySettings (p. 487) object

clientCertificateId (p. 62)

The identifier of a client certificate for an API stage.
Type: String

createdDate (p. 62)

The timestamp when the stage was created.
Type: Timestamp

deploymentId (p. 62)

The identifier of the Deployment that the stage points to.
Type: String

description (p. 62)

The stage's description.
Type: String

documentationVersion (p. 62)

The version of the associated API documentation.
Type: String

lastUpdatedDate (p. 62)

The timestamp when the stage last updated.
Type: Timestamp

**methodSettings** *(p. 62)*

A map that defines the method settings for a Stage resource. Keys (designated as `/{method_setting_key}` below) are method paths defined as `{resource_path}/{http_method}` for an individual method override, or `\*/\*` for overriding all methods in the stage.

Type: String to **MethodSetting** *(p. 512)* object map

**stageName** *(p. 62)*

The name of the stage is the first path segment in the Uniform Resource Identifier (URI) of a call to API Gateway. Stage names can only contain alphanumeric characters, hyphens, and underscores. Maximum length is 128 characters.

Type: String

**tags** *(p. 62)*

The collection of tags. Each tag element is associated with a given resource.

Type: String to string map

**tracingEnabled** *(p. 62)*

Specifies whether active tracing with X-ray is enabled for the Stage.

Type: Boolean

**variables** *(p. 62)*

A map that defines the stage variables for a Stage resource. Variable names can have alphanumeric and underscore characters, and the values must match `[A-Za-z0-9-_.~:/?#&=\,]+`.

Type: String to string map

**webAclArn** *(p. 62)*

The ARN of the WebAcl associated with the Stage.

Type: String

**Errors**

For information about the errors that are common to all actions, see **Common Errors** *(p. 541).*

**BadRequestException**

The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.

HTTP Status Code: 400

**ConflictException**

The request configuration has conflicts. For details, see the accompanying error message.

HTTP Status Code: 409

**LimitExceededException**

The request exceeded the rate limit. Retry after the specified time period.

HTTP Status Code: 429
NotFoundException
The requested resource is not found. Make sure that the request URI is correct.

HTTP Status Code: 404

TooManyRequestsException
The request has reached its throttling limit. Retry after the specified time period.

HTTP Status Code: 429

UnauthorizedException
The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401

Examples

Create a new stage for a deployed API

This example illustrates one usage of CreateStage.

Sample Request

```
POST /restapis/uycll6xg9a/stages HTTP/1.1
Content-Type: application/json
Host: apigateway.us-east-1.amazonaws.com
X-Amz-Date: 20170223T200249Z
Authorization: AWS4-HMAC-SHA256 Credential={access_key_ID}/20170223/us-east-1/apigateway/aws4_request, SignedHeaders=content-length;content-type;host;x-amz-date,
Signature={sig4_hash}

{
    "stageName" : "alpha",
    "deploymentId" : "vakw79",
    "description" : "alpha stage",
    "cacheClusterEnabled" : "true",
    "cacheClusterSize" : "0.5",
    "variables" : {
        "sv_1" : "value_1",
        "sv_2" : "value_2"
    }
}
```

Sample Response

```
{
    "_links": {
        "curies": {
            "href": "https://docs.aws.amazon.com/apigateway/latest/developerguide/restapi-stage-[rel].html",
            "name": "stage",
            "templated": true
        },
        "self": {
            "href": "/restapis/uycll6xg9a/stages/alpa"
        },
        "stage:delete": {
            "href": "/restapis/uycll6xg9a/stages/alpa"
        }
    }
}
```
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
CreateUsagePlan

Creates a usage plan with the throttle and quota limits, as well as the associated API stages, specified in the payload.

Request Syntax

```
POST /usageplans HTTP/1.1
Content-type: application/json

{
    "apiStages": [
        {
            "apiId": "string",
            "stage": "string",
            "throttle": {
                "string": {
                    "burstLimit": number,
                    "rateLimit": number
                }
            }
        }
    ],
    "description": "string",
    "name": "string",
    "quota": {
        "limit": number,
        "offset": number,
        "period": "string"
    },
    "tags": {
        "string": "string"
    },
    "throttle": {
        "burstLimit": number,
        "rateLimit": number
    }
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

apiStages (p. 67)

The associated API stages of the usage plan.

Type: Array of ApiStage (p. 482) objects

Required: No

description (p. 67)

The description of the usage plan.

Type: String
**Required: No**

**name (p. 67)**

The name of the usage plan.

Type: String

Required: Yes

**quota (p. 67)**

The quota of the usage plan.

Type: QuotaSettings (p. 520) object

Required: No

**tags (p. 67)**

The key-value map of strings. The valid character set is [a-zA-Z+-=._:/]. The tag key can be up to 128 characters and must not start with aws:. The tag value can be up to 256 characters.

Type: String to string map

Required: No

**throttle (p. 67)**

The throttling limits of the usage plan.

Type: ThrottleSettings (p. 532) object

Required: No

---

**Response Syntax**

HTTP/1.1 201
Content-type: application/json

```json
{
  "apiStages": [
    {
      "apiId": "string",
      "stage": "string",
      "throttle": {
        "string": {
          "burstLimit": number,
          "rateLimit": number
        }
      }
    }
  ],
  "description": "string",
  "id": "string",
  "name": "string",
  "productCode": "string",
  "quota": {
    "limit": number,
    "offset": number,
    "period": "string"
  },
  "tags": {
    "string": "string"
  }
}
```
Response Elements

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

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

apiStages (p. 68)
The associated API stages of a usage plan.
Type: Array of ApiStage (p. 482) objects
description (p. 68)
The description of a usage plan.
Type: String
id (p. 68)
The identifier of a UsagePlan resource.
Type: String
name (p. 68)
The name of a usage plan.
Type: String
productCode (p. 68)
The AWS Marketplace product identifier to associate with the usage plan as a SaaS product on the AWS Marketplace.
Type: String
quota (p. 68)
The target maximum number of permitted requests per a given unit time interval.
Type: QuotaSettings (p. 520) object
tags (p. 68)
The collection of tags. Each tag element is associated with a given resource.
Type: String to string map
throttle (p. 68)
A map containing method level throttling information for API stage in a usage plan.
Type: ThrottleSettings (p. 532) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 541).
BadRequestException

The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.

HTTP Status Code: 400

ConflictException

The request configuration has conflicts. For details, see the accompanying error message.

HTTP Status Code: 409

LimitExceededException

The request exceeded the rate limit. Retry after the specified time period.

HTTP Status Code: 429

NotFoundException

The requested resource is not found. Make sure that the request URI is correct.

HTTP Status Code: 404

TooManyRequestsException

The request has reached its throttling limit. Retry after the specified time period.

HTTP Status Code: 429

UnauthorizedException

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401

Examples

Create a usage plan

This example illustrates one usage of CreateUsagePlan.

Sample Request

```plaintext
POST /usageplans HTTP/1.1
Content-Type: application/json
Host: apigateway.us-east-1.amazonaws.com
X-Amz-Date: 20160805T013511Z
Authorization: AWS4-HMAC-SHA256 Credential={access_key_ID}/20160805/us-east-1/apigateway/aws4_request, SignedHeaders=content-length;content-type;host;x-amz-date,
Signature={sigv4_hash}
Cache-Control: no-cache
Postman-Token: c3ffa588-50e0-aa0c-234e-f191671564a9

{
    "name": "Plan_G",
    "description": "my plan",
    "apiStages": [
        {
            "stage": "testStage",
            "apiId": "kdwpu39c2k"
        }
    ],
    "quota": {
```
Sample Response

```
{
    "_links": {
        "curies": [
            {
                "href": "https://docs.aws.amazon.com/apigateway/latest/developerguide/restapi-usage-{rel}.html",
                "name": "usage",
                "templated": true
            },
            {
                "href": "https://docs.aws.amazon.com/apigateway/latest/developerguide/restapi-usageplan-{rel}.html",
                "name": "usageplan",
                "templated": true
            },
            {
                "href": "https://docs.aws.amazon.com/apigateway/latest/developerguide/restapi-usageplankey-{rel}.html",
                "name": "usageplankey",
                "templated": true
            }
        ],
        "self": {
            "href": "/usageplans/1puccm"
        },
        "usage:get": {
            "href": "/usageplans/1puccm/usage?startDate=2016-07-06&endDate=2016-08-05"
        },
        "usageplan:delete": {
            "href": "/usageplans/1puccm"
        },
        "usageplan:update": {
            "href": "/usageplans/1puccm"
        },
        "usageplan:usageplankeys": {
            "href": "/usageplans/1puccm/keys"
        },
        "usageplankey:create": {
            "href": "/usageplans/1puccm/keys"
        }
    },
    "apiStages": {
        "stage": "testStage",
        "apiId": "kdwpu39c2k"
    },
    "description": "my plan",
    "id": "1puccm",
    "name": "Plan_G",
    "quota": {
        "period": "DAY",
        "offset": 0,
        "limit": 500
    }
}
```
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](#)
CreateUsagePlanKey

Creates a usage plan key for adding an existing API key to a usage plan.

Request Syntax

```
POST /usageplans/usageplanId/keys HTTP/1.1
Content-type: application/json

{
    "keyId": "string",
    "keyType": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

usageplanId (p. 73)

The Id of the UsagePlan resource representing the usage plan containing the to-be-created UsagePlanKey resource representing a plan customer.

Required: Yes

Request Body

The request accepts the following data in JSON format.

keyId (p. 73)

The identifier of a UsagePlanKey resource for a plan customer.

Type: String

Required: Yes

keyType (p. 73)

The type of a UsagePlanKey resource for a plan customer.

Type: String

Required: Yes

Response Syntax

```
HTTP/1.1 201
Content-type: application/json

{
    "id": "string",
    "name": "string",
    "type": "string",
    "value": "string"
}
```
Response Elements

If the action is successful, the service sends back an HTTP 201 response. The following data is returned in JSON format by the service.

**id** (p. 73)
- The Id of a usage plan key.
- Type: String

**name** (p. 73)
- The name of a usage plan key.
- Type: String

**type** (p. 73)
- The type of a usage plan key. Currently, the valid key type is API_KEY.
- Type: String

**value** (p. 73)
- The value of a usage plan key.
- Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors (p. 541)](https://docs.aws.amazon.com/api-gateway/latest/ug/errors.html).

**BadRequestException**
- The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.
  - HTTP Status Code: 400

**ConflictException**
- The request configuration has conflicts. For details, see the accompanying error message.
  - HTTP Status Code: 409

**LimitExceededException**
- The request exceeded the rate limit. Retry after the specified time period.
  - HTTP Status Code: 429

**NotFoundException**
- The requested resource is not found. Make sure that the request URI is correct.
  - HTTP Status Code: 404

**TooManyRequestsException**
- The request has reached its throttling limit. Retry after the specified time period.
HTTP Status Code: 429

**UnauthorizedException**

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401

Examples

Create a usage plan key

This example illustrates one usage of CreateUsagePlanKey.

Sample Request

```
POST /usageplans/n371pt/keys HTTP/1.1
Content-Type: application/json
Host: apigateway.us-east-1.amazonaws.com
X-Amz-Date: 20160805T181755Z
Authorization: AWS4-HMAC-SHA256

Credential={access_key_ID}/20160805/us-east-1/
apigateway/aws4_request, SignedHeaders=content-length;content-type;host;x-amz-date,
Signature={sigv4_hash}

{
  "keyId": "q5ugs7qjjh",
  "keyType": "API_KEY"
}
```

Sample Response

```
{
  "_links": {
    "self": {
      "href": "/usageplans/n371pt/keys/q5ugs7qjjh"
    },
    "id": "q5ugs7qjjh",
    "name": "importedKey_2",
    "type": "API_KEY"
  }
}
```

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
CreateVpcLink

Creates a VPC link, under the caller's account in a selected region, in an asynchronous operation that typically takes 2-4 minutes to complete and become operational. The caller must have permissions to create and update VPC Endpoint services.

Request Syntax

```
POST /vpclinks HTTP/1.1
Content-type: application/json

{
  "description": "string",
  "name": "string",
  "tags": {
    "string": "string"
  },
  "targetArns": [ "string" ]
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

**description (p. 77)**

The description of the VPC link.

Type: String

Required: No

**name (p. 77)**

The name used to label and identify the VPC link.

Type: String

Required: Yes

**tags (p. 77)**

The key-value map of strings. The valid character set is [a-zA-Z+-_=./]. The tag key can be up to 128 characters and must not start with `aws:`. The tag value can be up to 256 characters.

Type: String to string map

Required: No

**targetArns (p. 77)**

The ARN of the network load balancer of the VPC targeted by the VPC link. The network load balancer must be owned by the same AWS account of the API owner.

Type: Array of strings
Required: Yes

Response Syntax

HTTP/1.1 202
Content-type: application/json

{
  "description": "string",
  "id": "string",
  "name": "string",
  "status": "string",
  "statusMessage": "string",
  "tags": {
    "string": "string"
  },
  "targetArns": [ "string" ]
}

Response Elements

If the action is successful, the service sends back an HTTP 202 response.

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

description (p. 78)

The description of the VPC link.

Type: String

id (p. 78)

The identifier of the VpcLink. It is used in an Integration to reference this VpcLink.

Type: String

name (p. 78)

The name used to label and identify the VPC link.

Type: String

status (p. 78)

The status of the VPC link. The valid values are AVAILABLE, PENDING, DELETING, or FAILED. Deploying an API will wait if the status is PENDING and will fail if the status is DELETING.

Type: String

Valid Values: AVAILABLE | PENDING | DELETING | FAILED

statusMessage (p. 78)

A description about the VPC link status.

Type: String

tags (p. 78)

The collection of tags. Each tag element is associated with a given resource.

Type: String to string map
The ARN of the network load balancer of the VPC targeted by the VPC link. The network load balancer must be owned by the same AWS account of the API owner.

Type: Array of strings

Errors

For information about the errors that are common to all actions, see Common Errors (p. 541).

BadRequestException

The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.

HTTP Status Code: 400

ConflictException

The request configuration has conflicts. For details, see the accompanying error message.

HTTP Status Code: 409

LimitExceededException

The request exceeded the rate limit. Retry after the specified time period.

HTTP Status Code: 429

TooManyRequestsException

The request has reached its throttling limit. Retry after the specified time period.

HTTP Status Code: 429

UnauthorizedException

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401

Examples

Create a VPC link

This example illustrates one usage of CreateVpcLink.

Sample Request

```
POST /vpclinks HTTP/1.1
Content-Type: application/json
Host: apigateway.us-ea-t.amazonaws.com
Content-Length: ...
X-Amz-Date: 20160801T235803Z
Authorization: AWS4-HMAC-SHA256 Credential={access_key_ID}/20160801/ap-southeast-1/apigateway/aws4_request, SignedHeaders=content-length;content-type;host;x-amz-date, Signature={sigv4_hash}

{
```
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
DeleteApiKey

Deletes the ApiKey resource.

Request Syntax

DELETE /apikeys/<api_key> HTTP/1.1

URI Request Parameters

The request uses the following URI parameters.

api_key (p. 81)

   The identifier of the ApiKey resource to be deleted.

   Required: Yes

Request Body

The request does not have a request body.

Response Syntax

HTTP/1.1 202

Response Elements

If the action is successful, the service sends back an HTTP 202 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors (p. 541).

BadRequestException

   The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.

   HTTP Status Code: 400

ConflictException

   The request configuration has conflicts. For details, see the accompanying error message.

   HTTP Status Code: 409

NotFoundException

   The requested resource is not found. Make sure that the request URI is correct.

   HTTP Status Code: 404
TooManyRequestsException

The request has reached its throttling limit. Retry after the specified time period.

HTTP Status Code: 429

UnauthorizedException

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401

Examples

Retrieve client certificates

The following example request retrieves the available client certificates in the caller's AWS account.

A successful response returns the requested ClientCertificate resources that can be navigated to by following the linked item or examining the embedded item resource.

Sample Request

Sample Response

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
DeleteAuthorizer

Deletes an existing Authorizer resource.

Request Syntax

DELETE /restapis/restapi_id/authorizers/authorizer_id HTTP/1.1

URI Request Parameters

The request uses the following URI parameters.

- **authorizer_id** *(p. 83)*
  - The identifier of the Authorizer resource.
  - Required: Yes

- **restapi_id** *(p. 83)*
  - The string identifier of the associated RestApi.
  - Required: Yes

Request Body

The request does not have a request body.

Response Syntax

HTTP/1.1 202

Response Elements

If the action is successful, the service sends back an HTTP 202 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors *(p. 541).*

- **BadRequestException**
  - The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.
  - HTTP Status Code: 400

- **ConflictException**
  - The request configuration has conflicts. For details, see the accompanying error message.
  - HTTP Status Code: 409

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NotFoundException

The requested resource is not found. Make sure that the request URI is correct.

HTTP Status Code: 404

TooManyRequestsException

The request has reached its throttling limit. Retry after the specified time period.

HTTP Status Code: 429

UnauthorizedException

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401

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
DeleteBasePathMapping

Deletes the BasePathMapping resource.

Request Syntax

```
DELETE /domainnames/{domain_name}/basepathmappings/{base_path} HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

- **base_path** *(p. 85)*
  
  The base path name of the BasePathMapping resource to delete.
  
  To specify an empty base path, set this parameter to `(none)`.
  
  Required: Yes

- **domain_name** *(p. 85)*
  
  The domain name of the BasePathMapping resource to delete.
  
  Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 202
```

Response Elements

If the action is successful, the service sends back an HTTP 202 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors *(p. 541).*

- **BadRequestException**
  
  The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.
  
  HTTP Status Code: 400

- **ConflictException**
  
  The request configuration has conflicts. For details, see the accompanying error message.
  
  HTTP Status Code: 409
NotFoundException

The requested resource is not found. Make sure that the request URI is correct.

HTTP Status Code: 404

TooManyRequestsException

The request has reached its throttling limit. Retry after the specified time period.

HTTP Status Code: 429

UnauthorizedException

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401

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
DeleteClientCertificate

Deletes the ClientCertificate resource.

**Request Syntax**

```
DELETE /clientcertificates/clientcertificate_id HTTP/1.1
```

**URI Request Parameters**

The request uses the following URI parameters.

- **clientcertificate_id** *(p. 87)*
  - The identifier of the ClientCertificate resource to be deleted.
  - Required: Yes

**Request Body**

The request does not have a request body.

**Response Syntax**

```
HTTP/1.1 202
```

**Response Elements**

If the action is successful, the service sends back an HTTP 202 response with an empty HTTP body.

**Errors**

For information about the errors that are common to all actions, see [Common Errors (p. 541)](#).

- **BadRequestException**
  - The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.
  - HTTP Status Code: 400

- **ConflictException**
  - The request configuration has conflicts. For details, see the accompanying error message.
  - HTTP Status Code: 409

- **NotFoundException**
  - The requested resource is not found. Make sure that the request URI is correct.
  - HTTP Status Code: 404

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TooManyRequestsException

The request has reached its throttling limit. Retry after the specified time period.

HTTP Status Code: 429

UnauthorizedException

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401

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
DeleteDeployment

Deletes a Deployment resource. Deleting a deployment will only succeed if there are no Stage resources associated with it.

Request Syntax

DELETE /restapis/restapi_id/deployments/deployment_id HTTP/1.1

URI Request Parameters

The request uses the following URI parameters.

- **deployment_id** *(p. 89)*
  
  The identifier of the Deployment resource to delete.
  
  Required: Yes

- **restapi_id** *(p. 89)*
  
  The string identifier of the associated RestApi.
  
  Required: Yes

Request Body

The request does not have a request body.

Response Syntax

HTTP/1.1 202

Response Elements

If the action is successful, the service sends back an HTTP 202 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see [Common Errors](p. 541).

- **BadRequestException**
  
  The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.
  
  HTTP Status Code: 400

- **ConflictException**
  
  The request configuration has conflicts. For details, see the accompanying error message.
  
  HTTP Status Code: 409
LimitExceededException
The request exceeded the rate limit. Retry after the specified time period.
HTTP Status Code: 429

NotFoundException
The requested resource is not found. Make sure that the request URI is correct.
HTTP Status Code: 404

TooManyRequestsException
The request has reached its throttling limit. Retry after the specified time period.
HTTP Status Code: 429

UnauthorizedException
The request is denied because the caller has insufficient permissions.
HTTP Status Code: 401

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
DeleteDocumentationPart

Deletes a documentation part

Request Syntax

```
DELETE /restapis/restapi_id/documentation/parts/part_id HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

- **part_id** (p. 91)
  
  The identifier of the to-be-deleted documentation part.
  
  Required: Yes

- **restapi_id** (p. 91)
  
  The string identifier of the associated RestApi.
  
  Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 202
```

Response Elements

If the action is successful, the service sends back an HTTP 202 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors (p. 541).

- **BadRequestException**
  
  The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.
  
  HTTP Status Code: 400

- **ConflictException**
  
  The request configuration has conflicts. For details, see the accompanying error message.
  
  HTTP Status Code: 409
NotFoundException

The requested resource is not found. Make sure that the request URI is correct.

HTTP Status Code: 404

TooManyRequestsException

The request has reached its throttling limit. Retry after the specified time period.

HTTP Status Code: 429

UnauthorizedException

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401

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
DeleteDocumentationVersion

Deletes a documentation version.

**Request Syntax**

```plaintext
DELETE /restapis/restapi_id/documentation/versions/doc_version HTTP/1.1
```

**URI Request Parameters**

The request uses the following URI parameters.

- **doc_version** *(p. 93)*
  - The version identifier of a to-be-deleted documentation snapshot.
  - Required: Yes

- **restapi_id** *(p. 93)*
  - The string identifier of the associated RestApi.
  - Required: Yes

**Request Body**

The request does not have a request body.

**Response Syntax**

```
HTTP/1.1 202
```

**Response Elements**

If the action is successful, the service sends back an HTTP 202 response with an empty HTTP body.

**Errors**

For information about the errors that are common to all actions, see [Common Errors (p. 541)](#).

- **BadRequestException**
  - The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.
  - HTTP Status Code: 400

- **ConflictException**
  - The request configuration has conflicts. For details, see the accompanying error message.
  - HTTP Status Code: 409
**NotFoundException**

The requested resource is not found. Make sure that the request URI is correct.

HTTP Status Code: 404

**TooManyRequestsException**

The request has reached its throttling limit. Retry after the specified time period.

HTTP Status Code: 429

**UnauthorizedException**

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401

---

**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
DeleteDomainName

Deletes the DomainName resource.

Request Syntax

```
DELETE /domainnames/domain_name HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

- **domain_name** *(p. 95)*
  The name of the DomainName resource to be deleted.
  Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 202
```

Response Elements

If the action is successful, the service sends back an HTTP 202 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see [Common Errors](p. 541).

- **BadRequestException**
  The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.
  HTTP Status Code: 400

- **ConflictException**
  The request configuration has conflicts. For details, see the accompanying error message.
  HTTP Status Code: 409

- **NotFoundException**
  The requested resource is not found. Make sure that the request URI is correct.
  HTTP Status Code: 404
TooManyRequestsException

The request has reached its throttling limit. Retry after the specified time period.

HTTP Status Code: 429

UnauthorizedException

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401

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
DeleteGatewayResponse

Clears any customization of a GatewayResponse of a specified response type on the given RestApi and resets it with the default settings.

Request Syntax

DELETE /restapis/restapi_id/gatewayresponses/response_type HTTP/1.1

URI Request Parameters

The request uses the following URI parameters.

`response_type` *(p. 97)*

The response type of the associated GatewayResponse.

- Valid Values: `DEFAULT_4XX`, `DEFAULT_5XX`, `RESOURCE_NOT_FOUND`, `UNAUTHORIZED`, `INVALID_API_KEY`, `ACCESS_DENIED`, `AUTHORIZER_FAILURE`, `AUTHORIZER_CONFIGURATION_ERROR`, `INVALID_SIGNATURE`, `EXPIRED_TOKEN`, `MISSING_AUTHENTICATION_TOKEN`, `INTEGRATION_FAILURE`, `INTEGRATION_TIMEOUT`, `API_CONFIGURATION_ERROR`, `UNSUPPORTED_MEDIA_TYPE`, `BAD_REQUEST_PARAMETERS`, `BAD_REQUEST_BODY`, `REQUEST_TOO_LARGE`, `THROTTLED`, `QUOTA_EXCEEDED`, `WAF_FILTERED`

  Required: Yes

`restapi_id` *(p. 97)*

The string identifier of the associated RestApi.

  Required: Yes

Request Body

The request does not have a request body.

Response Syntax

HTTP/1.1 202

Response Elements

If the action is successful, the service sends back an HTTP 202 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see [Common Errors](p. 541).

**BadRequestException**

The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.
HTTP Status Code: 400

**ConflictException**

The request configuration has conflicts. For details, see the accompanying error message.

HTTP Status Code: 409

**NotFoundException**

The requested resource is not found. Make sure that the request URI is correct.

HTTP Status Code: 404

**TooManyRequestsException**

The request has reached its throttling limit. Retry after the specified time period.

HTTP Status Code: 429

**UnauthorizedException**

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401

**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
DeleteIntegration

Represents a delete integration.

Request Syntax

```
DELETE /restapis/restapi_id/resources/resource_id/methods/http_method/integration HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

- **http_method (p. 99)**
  
  Specifies a delete integration request's HTTP method.
  
  Required: Yes

- **resource_id (p. 99)**
  
  Specifies a delete integration request's resource identifier.
  
  Required: Yes

- **restapi_id (p. 99)**
  
  The string identifier of the associated RestApi.
  
  Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 204
```

Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors (p. 541).

**BadRequestException**

The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.

  HTTP Status Code: 400
ConflictException

The request configuration has conflicts. For details, see the accompanying error message.

HTTP Status Code: 409

NotFoundException

The requested resource is not found. Make sure that the request URI is correct.

HTTP Status Code: 404

TooManyRequestsException

The request has reached its throttling limit. Retry after the specified time period.

HTTP Status Code: 429

UnauthorizedException

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401

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
DeleteIntegrationResponse

Represents a delete integration response.

Request Syntax

DELETE /restapis/restapi_id/resources/resource_id/methods/http_method/integration/responses/status_code HTTP/1.1

URI Request Parameters

The request uses the following URI parameters.

**http_method** *(p. 101)*

- Specifies a delete integration response request's HTTP method.
  - Required: Yes

**resource_id** *(p. 101)*

- Specifies a delete integration response request's resource identifier.
  - Required: Yes

**restapi_id** *(p. 101)*

- The string identifier of the associated RestApi.
  - Required: Yes

**status_code** *(p. 101)*

- Specifies a delete integration response request's status code.
  - Pattern: `[1-5]\d\d`
  - Required: Yes

Request Body

The request does not have a request body.

Response Syntax

HTTP/1.1 204

Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see [Common Errors (p. 541)](p. 541).
**BadRequestException**

The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.

HTTP Status Code: 400

**ConflictException**

The request configuration has conflicts. For details, see the accompanying error message.

HTTP Status Code: 409

**NotFoundException**

The requested resource is not found. Make sure that the request URI is correct.

HTTP Status Code: 404

**TooManyRequestsException**

The request has reached its throttling limit. Retry after the specified time period.

HTTP Status Code: 429

**UnauthorizedException**

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401

**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](#)
DeleteMethod

Deletes an existing Method resource.

Request Syntax

```
DELETE /restapis/restapi_id/resources/resource_id/methods/http_method HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

- **http_method (p. 103)**
  
  The HTTP verb of the Method resource.
  
  Required: Yes

- **resource_id (p. 103)**
  
  The Resource identifier for the Method resource.
  
  Required: Yes

- **restapi_id (p. 103)**
  
  The string identifier of the associated RestApi.
  
  Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 204
```

Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors (p. 541).

- **ConflictException**
  
  The request configuration has conflicts. For details, see the accompanying error message.
  
  HTTP Status Code: 409

- **NotFoundException**
  
  The requested resource is not found. Make sure that the request URI is correct.
HTTP Status Code: 404

**TooManyRequestsException**

The request has reached its throttling limit. Retry after the specified time period.

HTTP Status Code: 429

**UnauthorizedException**

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401

### 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](#)
DeleteMethodResponse

Deletes an existing MethodResponse resource.

Request Syntax

DELETE /restapis/restapi_id/resources/resource_id/methods/http_method/responses/status_code
HTTP/1.1

URI Request Parameters

The request uses the following URI parameters.

http_method (p. 105)

The HTTP verb of the Method resource.
Required: Yes

resource_id (p. 105)

The Resource identifier for the MethodResponse resource.
Required: Yes

restapi_id (p. 105)

The string identifier of the associated RestApi.
Required: Yes

status_code (p. 105)

The status code identifier for the MethodResponse resource.
Pattern: [1-5]\d\d
Required: Yes

Request Body

The request does not have a request body.

Response Syntax

HTTP/1.1 204

Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors (p. 541).
BadRequestException

The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.

HTTP Status Code: 400

ConflictException

The request configuration has conflicts. For details, see the accompanying error message.

HTTP Status Code: 409

NotFoundException

The requested resource is not found. Make sure that the request URI is correct.

HTTP Status Code: 404

TooManyRequestsException

The request has reached its throttling limit. Retry after the specified time period.

HTTP Status Code: 429

UnauthorizedException

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401

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
DeleteModel

Deletes a model.

Request Syntax

```
DELETE /restapis/restapi_id/models/model_name HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

- **model_name** *(p. 107)*
  - The name of the model to delete.
  - Required: Yes

- **restapi_id** *(p. 107)*
  - The string identifier of the associated RestApi.
  - Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 202
```

Response Elements

If the action is successful, the service sends back an HTTP 202 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors *(p. 541).*

- **BadRequestException**
  - The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.
  - HTTP Status Code: 400

- **ConflictException**
  - The request configuration has conflicts. For details, see the accompanying error message.
  - HTTP Status Code: 409
NotFoundException

The requested resource is not found. Make sure that the request URI is correct.

HTTP Status Code: 404

TooManyRequestsException

The request has reached its throttling limit. Retry after the specified time period.

HTTP Status Code: 429

UnauthorizedException

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401

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
DeleteRequestValidator

Deletes a RequestValidator of a given RestApi.

**Request Syntax**

```
DELETE /restapis/restapi_id/requestvalidators/requestvalidator_id HTTP/1.1
```

**URI Request Parameters**

The request uses the following URI parameters.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Type</th>
<th>Required</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>requestvalidator_id</td>
<td>string</td>
<td>Yes</td>
<td>The identifier of the RequestValidator to be deleted.</td>
</tr>
<tr>
<td>restapi_id</td>
<td>string</td>
<td>Yes</td>
<td>The string identifier of the associated RestApi.</td>
</tr>
</tbody>
</table>

**Request Body**

The request does not have a request body.

**Response Syntax**

```
HTTP/1.1 202
```

**Response Elements**

If the action is successful, the service sends back an HTTP 202 response with an empty HTTP body.

**Errors**

For information about the errors that are common to all actions, see Common Errors (p. 541).

- **BadRequestException**
  
  The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.

  HTTP Status Code: 400

- **ConflictException**
  
  The request configuration has conflicts. For details, see the accompanying error message.

  HTTP Status Code: 409
NotFoundException

The requested resource is not found. Make sure that the request URI is correct.

HTTP Status Code: 404

TooManyRequestsException

The request has reached its throttling limit. Retry after the specified time period.

HTTP Status Code: 429

UnauthorizedException

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401

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
DeleteResource

Deletes a Resource resource.

Request Syntax

DELETE /restapis/restapi_id/resources/resource_id HTTP/1.1

URI Request Parameters

The request uses the following URI parameters.

resource_id (p. 111)
The identifier of the Resource resource.
Required: Yes

restapi_id (p. 111)
The string identifier of the associated RestApi.
Required: Yes

Request Body

The request does not have a request body.

Response Syntax

HTTP/1.1 202

Response Elements

If the action is successful, the service sends back an HTTP 202 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors (p. 541).

BadRequestException
The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.

HTTP Status Code: 400

ConflictException
The request configuration has conflicts. For details, see the accompanying error message.

HTTP Status Code: 409
NotFoundException

The requested resource is not found. Make sure that the request URI is correct.

HTTP Status Code: 404

TooManyRequestsException

The request has reached its throttling limit. Retry after the specified time period.

HTTP Status Code: 429

UnauthorizedException

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401

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
DeleteRestApi

Deletes the specified API.

Request Syntax

DELETE /restapis/restapi_id HTTP/1.1

URI Request Parameters

The request uses the following URI parameters.

restapi_id (p. 113)

The string identifier of the associated RestApi.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

HTTP/1.1 202

Response Elements

If the action is successful, the service sends back an HTTP 202 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors (p. 541).

BadRequestException

The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.

HTTP Status Code: 400

ConflictException

The request configuration has conflicts. For details, see the accompanying error message.

HTTP Status Code: 409

NotFoundException

The requested resource is not found. Make sure that the request URI is correct.

HTTP Status Code: 404
TooManyRequestsException

The request has reached its throttling limit. Retry after the specified time period.

HTTP Status Code: 429

UnauthorizedException

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401

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](#)
DeleteStage

Deletes a Stage resource.

**Request Syntax**

DELETE /restapis/restapi_id/stages/stage_name HTTP/1.1

**URI Request Parameters**

The request uses the following URI parameters.

- **restapi_id (p. 115)**
  - The string identifier of the associated RestApi.
  - Required: Yes

- **stage_name (p. 115)**
  - The name of the Stage resource to delete.
  - Required: Yes

**Request Body**

The request does not have a request body.

**Response Syntax**

HTTP/1.1 202

**Response Elements**

If the action is successful, the service sends back an HTTP 202 response with an empty HTTP body.

**Errors**

For information about the errors that are common to all actions, see [Common Errors (p. 541)](amazon-apis-gateway).  

- **BadRequestException**
  - The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.
  - HTTP Status Code: 400

- **ConflictException**
  - The request configuration has conflicts. For details, see the accompanying error message.
  - HTTP Status Code: 409
**LimitExceededException**

The request exceeded the rate limit. Retry after the specified time period.

HTTP Status Code: 429

**NotFoundException**

The requested resource is not found. Make sure that the request URI is correct.

HTTP Status Code: 404

**TooManyRequestsException**

The request has reached its throttling limit. Retry after the specified time period.

HTTP Status Code: 429

**UnauthorizedException**

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401

**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](#)
DeleteUsagePlan

Deleting a usage plan of a given plan Id.

**Request Syntax**

```
DELETE /usageplans/usageplanId HTTP/1.1
```

**URI Request Parameters**

The request uses the following URI parameters.

**usageplanid (p. 117)**

- The Id of the to-be-deleted usage plan.
- Required: Yes

**Request Body**

The request does not have a request body.

**Response Syntax**

```
HTTP/1.1 202
```

**Response Elements**

If the action is successful, the service sends back an HTTP 202 response with an empty HTTP body.

**Errors**

For information about the errors that are common to all actions, see [Common Errors (p. 541)](#).

**BadRequestException**

- The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.
- HTTP Status Code: 400

**ConflictException**

- The request configuration has conflicts. For details, see the accompanying error message.
- HTTP Status Code: 409

**NotFoundException**

- The requested resource is not found. Make sure that the request URI is correct.
- HTTP Status Code: 404
TooManyRequestsException

The request has reached its throttling limit. Retry after the specified time period.

HTTP Status Code: 429

UnauthorizedException

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401

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
DeleteUsagePlanKey

Deletes a usage plan key and remove the underlying API key from the associated usage plan.

Request Syntax

```
DELETE /usageplans/usageplanId/keys/keyId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

- **keyId** *(p. 119)*
  
  The Id of the UsagePlanKey resource to be deleted.
  
  Required: Yes

- **usageplanId** *(p. 119)*
  
  The Id of the UsagePlan resource representing the usage plan containing the to-be-deleted UsagePlanKey resource representing a plan customer.
  
  Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 202
```

Response Elements

If the action is successful, the service sends back an HTTP 202 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors *(p. 541).*

- **BadRequestException**
  
  The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.
  
  HTTP Status Code: 400

- **ConflictException**
  
  The request configuration has conflicts. For details, see the accompanying error message.
  
  HTTP Status Code: 409
NotFoundException

The requested resource is not found. Make sure that the request URI is correct.

HTTP Status Code: 404

TooManyRequestsException

The request has reached its throttling limit. Retry after the specified time period.

HTTP Status Code: 429

UnauthorizedException

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401

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
DeleteVpcLink

Deletes an existing VpcLink of a specified identifier.

**Request Syntax**

```
DELETE /vpclinks/vpclink_id HTTP/1.1
```

**URI Request Parameters**

The request uses the following URI parameters.

- **vpclink_id** *(p. 121)*

  The identifier of the VpcLink. It is used in an Integration to reference this VpcLink.

  Required: Yes

**Request Body**

The request does not have a request body.

**Response Syntax**

```
HTTP/1.1 202
```

**Response Elements**

If the action is successful, the service sends back an HTTP 202 response with an empty HTTP body.

**Errors**

For information about the errors that are common to all actions, see [Common Errors (p. 541)](https://aws.amazon.com).  

- **BadRequestException**

  The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.

  HTTP Status Code: 400

- **ConflictException**

  The request configuration has conflicts. For details, see the accompanying error message.

  HTTP Status Code: 409

- **NotFoundException**

  The requested resource is not found. Make sure that the request URI is correct.

  HTTP Status Code: 404
TooManyRequestsException

The request has reached its throttling limit. Retry after the specified time period.

HTTP Status Code: 429

UnauthorizedException

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401

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
FlushStageAuthorizersCache

Flushes all authorizer cache entries on a stage.

**Request Syntax**

```
DELETE /restapis/restapi_id/stages/stage_name/cache/authorizers HTTP/1.1
```

**URI Request Parameters**

The request uses the following URI parameters.

- **restapi_id (p. 123)**
  
  The string identifier of the associated RestApi.
  
  Required: Yes

- **stage_name (p. 123)**
  
  The name of the stage to flush.
  
  Required: Yes

**Request Body**

The request does not have a request body.

**Response Syntax**

```
HTTP/1.1 202
```

**Response Elements**

If the action is successful, the service sends back an HTTP 202 response with an empty HTTP body.

**Errors**

For information about the errors that are common to all actions, see Common Errors (p. 541).

- **BadRequestException**
  
  The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.
  
  HTTP Status Code: 400

- **ConflictException**
  
  The request configuration has conflicts. For details, see the accompanying error message.
  
  HTTP Status Code: 409
LimitExceededException

The request exceeded the rate limit. Retry after the specified time period.

HTTP Status Code: 429

NotFoundException

The requested resource is not found. Make sure that the request URI is correct.

HTTP Status Code: 404

TooManyRequestsException

The request has reached its throttling limit. Retry after the specified time period.

HTTP Status Code: 429

UnauthorizedException

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401

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
FlushStageCache

Flushes a stage's cache.

Request Syntax

DELETE /restapis/{restapi_id}/stages/{stage_name}/cache/data HTTP/1.1

URI Request Parameters

The request uses the following URI parameters.

- **restapi_id** *(p. 125)*
  - The string identifier of the associated RestApi.
  - Required: Yes

- **stage_name** *(p. 125)*
  - The name of the stage to flush its cache.
  - Required: Yes

Request Body

The request does not have a request body.

Response Syntax

HTTP/1.1 202

Response Elements

If the action is successful, the service sends back an HTTP 202 response with an empty HTTP body.

Errors

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

- **BadRequestException**
  - The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.
  - HTTP Status Code: 400

- **ConflictException**
  - The request configuration has conflicts. For details, see the accompanying error message.
  - HTTP Status Code: 409
**LimitExceededException**

The request exceeded the rate limit. Retry after the specified time period.

HTTP Status Code: 429

**NotFoundException**

The requested resource is not found. Make sure that the request URI is correct.

HTTP Status Code: 404

**TooManyRequestsException**

The request has reached its throttling limit. Retry after the specified time period.

HTTP Status Code: 429

**UnauthorizedException**

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401

**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](#)
Generates a ClientCertificate resource.

Request Syntax

```
POST /clientcertificates HTTP/1.1
Content-type: application/json

{
  "description": "string",
  "tags": {
    "string": "string"
  }
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

**description (p. 127)**

The description of the ClientCertificate.

Type: String

Required: No

**tags (p. 127)**

The key-value map of strings. The valid character set is [a-zA-Z+-=._:/]. The tag key can be up to 128 characters and must not start with aws: . The tag value can be up to 256 characters.

Type: String to string map

Required: No

Response Syntax

```
HTTP/1.1 201
Content-type: application/json

{
  "clientCertificateId": "string",
  "createdDate": number,
  "description": "string",
  "expirationDate": number,
  "pemEncodedCertificate": "string",
  "tags": {
    "string": "string"
  }
}
```
Response Elements

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

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

**clientCertificateId (p. 127)**

The identifier of the client certificate.

Type: String

**createdDate (p. 127)**

The timestamp when the client certificate was created.

Type: Timestamp

**description (p. 127)**

The description of the client certificate.

Type: String

**expirationDate (p. 127)**

The timestamp when the client certificate will expire.

Type: Timestamp

**pemEncodedCertificate (p. 127)**

The PEM-encoded public key of the client certificate, which can be used to configure certificate authentication in the integration endpoint.

Type: String

**tags (p. 127)**

The collection of tags. Each tag element is associated with a given resource.

Type: String to string map

Errors

For information about the errors that are common to all actions, see Common Errors (p. 541).

**BadRequestException**

The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.

HTTP Status Code: 400

**ConflictException**

The request configuration has conflicts. For details, see the accompanying error message.

HTTP Status Code: 409

**LimitExceededException**

The request exceeded the rate limit. Retry after the specified time period.

HTTP Status Code: 429
Examples

Generate a client-side certificate

This example illustrates one usage of GenerateClientCertificate.

Sample Request

POST /clientcertificates HTTP/1.1
Content-Type: application/json
Host: apigateway.us-east-1.amazonaws.com
X-Amz-Date: 20160615T223313Z
Authorization: AWS4-HMAC-SHA256 Credential={access_key_ID}/20160615/us-east-1/
apigateway/aws4_request, SignedHeaders=content-length;content-type;host;x-amz-date,
Signature={sig4_hash}
{
  "description": "my-second-client-cert"
}

Sample Response

{
  "_links": {
    "curies": {
      "href": "https://docs.aws.amazon.com/apigateway/latest/developerguide/restapi-clientcertificate-{rel}.html",
      "name": "clientcertificate",
      "templated": true
    },
    "self": {
      "href": "/clientcertificates/9ao60f"
    },
    "clientcertificate:delete": {
      "href": "/clientcertificates/9ao60f"
    },
    "clientcertificate:update": {
      "href": "/clientcertificates/9ao60f"
    },
    "clientCertificateId": "9ao60f",
    "createdDate": "2016-06-15T22:33:13Z",
    "description": "my-second-client-cert",
    "expirationDate": "2017-06-15T22:33:13Z",
    "pemEncodedCertificate": "-----BEGIN CERTIFICATE-----
MIIC6T...
-----END CERTIFICATE-----"
}
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
GetAccount

Get Account

Gets information about the current Account resource.

Request Syntax

GET /account 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 Content-type: application/json

{
  "apiKeyVersion": "string",
  "cloudwatchRoleArn": "string",
  "features": [
    "string"
  ],
  "throttleSettings": {
    "burstLimit": number,
    "ratelimit": 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.

apiKeyVersion (p. 131)

The version of the API keys used for the account.

Type: String

cloudwatchRoleArn (p. 131)

The ARN of an Amazon CloudWatch role for the current Account.

Type: String

features (p. 131)

A list of features supported for the account. When usage plans are enabled, the features list will include an entry of "UsagePlans".

Type: Array of strings
throttleSettings (p. 131)

Specifies the API request limits configured for the current Account.

Type: ThrottleSettings (p. 532) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 541).

BadRequestException

The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.

HTTP Status Code: 400

NotFoundException

The requested resource is not found. Make sure that the request URI is correct.

HTTP Status Code: 404

TooManyRequestsException

The request has reached its throttling limit. Retry after the specified time period.

HTTP Status Code: 429

UnauthorizedException

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401

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
GetApiKey

Gets information about the current ApiKey resource.

Request Syntax

```
GET /apikeys/api_key?includeValue=includeValue HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

- **api_key (p. 133)**
  
The identifier of the ApiKey resource.
  
  Required: Yes

- **includeValue (p. 133)**
  
  A boolean flag to specify whether (true) or not (false) the result contains the key value.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "createdDate": number,
  "customerId": "string",
  "description": "string",
  "enabled": boolean,
  "id": "string",
  "lastUpdatedDate": number,
  "name": "string",
  "stageKeys": [ "string" ],
  "tags": {
    "string": "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.

- **createdDate (p. 133)**
  
The timestamp when the API Key was created.
Type: Timestamp

customerId (p. 133)

An AWS Marketplace customer identifier, when integrating with the AWS SaaS Marketplace.

Type: String
description (p. 133)

The description of the API Key.

Type: String
enabled (p. 133)

Specifies whether the API Key can be used by callers.

Type: Boolean
id (p. 133)

The identifier of the API Key.

Type: String
lastUpdatedDate (p. 133)

The timestamp when the API Key was last updated.

Type: Timestamp
name (p. 133)

The name of the API Key.

Type: String
stageKeys (p. 133)

A list of Stage resources that are associated with the ApiKey resource.

Type: Array of strings
tags (p. 133)

The collection of tags. Each tag element is associated with a given resource.

Type: String to string map
value (p. 133)

The value of the API Key.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors (p. 541).

BadRequestException

The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.

HTTP Status Code: 400
**NotFoundException**

The requested resource is not found. Make sure that the request URI is correct.

HTTP Status Code: 404

**TooManyRequestsException**

The request has reached its throttling limit. Retry after the specified time period.

HTTP Status Code: 429

**UnauthorizedException**

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401

**Examples**

**Retrieve an API Key**

The following example request retrieves an API key.

The successful response returns 200 OK status code and a payload similar to the following:

**Sample Request**

GET /apikeys/hzYAVO9Sg98nsNh65VfX81M84O2kyXVy6K1xwHD76 HTTP/1.1
Content-Type: application/json
Host: apigateway.us-east-1.amazonaws.com
X-Amz-Date: 20170223T221142Z
Authorization: AWS4-HMAC-SHA256 Credential={access_key_ID}/20170223/us-east-1/apigateway/aws4_request, SignedHeaders=content-type;host;x-amz-date, Signature={sig4_hash}

**Sample Response**

```
{
  "_links": {
    "curies": {
      "href": "https://docs.aws.amazon.com/apigateway/latest/developerguide/restapi-apikey-{rel}.html",
      "name": "apikey",
      "templated": true
    },
    "self": {
      "href": "/apikeys/hzYAVO9Sg98nsNh65VfX81M84O2kyXVy6K1xwHD76"
    },
    "apikey:delete": {
      "href": "/apikeys/hzYAVO9Sg98nsNh65VfX81M84O2kyXVy6K1xwHD76"
    },
    "apikey:update": {
      "href": "/apikeys/hzYAVO9Sg98nsNh65VfX81M84O2kyXVy6K1xwHD76"
    }
  },
  "createdDate": "2015-11-06T23:51:03Z",
  "enabled": true,
  "id": "hzYAVO9Sg98nsNh65VfX81M84O2kyXVy6K1xwHD76",
  "lastUpdatedDate": "2016-06-06T23:44:43Z",
  "name": "my_test_gateway_service",
```
"stageKeys": [
  "h4ah70cvmb/beta",
  "fugvjdxtri/stage2"
]
}

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
GetApiKeys

Gets information about the current ApiKeys resource.

Request Syntax

```
GET /apikeys?
customerId=customerId&includeValues=includeValues&limit=limit&name=nameQuery&position=position
HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

- **customerId (p. 137)**
  
  The identifier of a customer in AWS Marketplace or an external system, such as a developer portal.

- **includeValues (p. 137)**
  
  A boolean flag to specify whether (true) or not (false) the result contains key values.

- **limit (p. 137)**
  
  The maximum number of returned results per page. The default value is 25 and the maximum value is 500.

- **nameQuery (p. 137)**
  
  The name of queried API keys.

- **position (p. 137)**
  
  The current pagination position in the paged result set.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
    "item": [
        {
            "createdDate": number,
            "customerId": "string",
            "description": "string",
            "enabled": boolean,
            "id": "string",
            "lastUpdatedDate": number,
            "name": "string",
            "stageKeys": [ "string" ],
            "tags": {
                "string": "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.

**item (p. 137)**

The current page of elements from this collection.

Type: Array of ApiKey (p. 480) objects

**position (p. 137)**

The current pagination position in the paged result set.

Type: String

**warnings (p. 137)**

A list of warning messages logged during the import of API keys when the failOnWarnings option is set to true.

Type: Array of strings

Errors

For information about the errors that are common to all actions, see Common Errors (p. 541).

**BadRequestException**

The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.

HTTP Status Code: 400

**NotFoundException**

The requested resource is not found. Make sure that the request URI is correct.

HTTP Status Code: 404

**TooManyRequestsException**

The request has reached its throttling limit. Retry after the specified time period.

HTTP Status Code: 429

**UnauthorizedException**

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401
Examples

Retrieve an API key

The following example request retrieves the available API keys in the caller's AWS account.

A successful response returns the requested ApiKey resources that can be navigated to by following the linked item or examining the embedded item resource.

Sample Request

GET /apikeys HTTP/1.1
Content-Type: application/json
Host: apigateway.us-east-1.amazonaws.com
X-Amz-Date: 20160601T180431Z
Authorization: AWS4-HMAC-SHA256 Credential={access_key_ID}/20160601/us-east-1/apigateway/aws4_request, SignedHeaders=content-type;host;x-amz-date, Signature={sig4_hash}

Sample Response

{
    "_links": {
        "curies": [
            {
                "href": "https://docs.aws.amazon.com/apigateway/latest/developerguide/restapi-apikey-{rel}.html",
                "name": "apikey",
                "templated": true
            }
        ],
        "self": {
            "href": "/apikeys"
        },
        "apikey:by-key": {
            "href": "/apikeys/{api_Key}",
            "templated": true
        },
        "apikey:create": {
            "href": "/apikeys"
        },
        "apikey:delete": {
            "href": "/apikeys/{api_Key}",
            "templated": true
        },
        "item": {
            "href": "/apikeys/hzYAVO9Sg98nsNh45VfX81M8402kyXVy6K1xwHD76"
        }
    },
    "_embedded": {
        "item": {
            "_links": {
                "self": {
                    "href": "/apikeys/hzYAVO9Sg98nsNh45VfX81M8402kyXVy6K1xwHD76"
                },
                "apikey:delete": {
                    "href": "/apikeys/hzYAVO9Sg98nsNh45VfX81M8402kyXVy6K1xwHD76"
                },
                "apikey:update": {
                    "href": "/apikeys/hzYAVO9Sg98nsNh45VfX81M8402kyXVy6K1xwHD76"
                }
            }
        }
    }
}
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](#)
GetAuthorizer

Describe an existing Authorizer resource.

**Request Syntax**

```
GET /restapis/restapi_id/authorizers/authorizer_id HTTP/1.1
```

**URI Request Parameters**

The request uses the following URI parameters.

- **authorizer_id** (p. 141)
  
  The identifier of the Authorizer resource.
  
  Required: Yes

- **restapi_id** (p. 141)
  
  The string identifier of the associated RestApi.
  
  Required: Yes

**Request Body**

The request does not have a request body.

**Response Syntax**

```
HTTP/1.1 200
Content-type: application/json

{
  "authorizerCredentials": "string",
  "authorizerResultTtlInSeconds": number,
  "authorizerUri": "string",
  "authType": "string",
  "id": "string",
  "IdentitySource": "string",
  "IdentityValidationExpression": "string",
  "name": "string",
  "providerARNs": [ "string" ],
  "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.
**authorizerCredentials (p. 141)**

Specifies the required credentials as an IAM role for API Gateway to invoke the authorizer. To specify an IAM role for API Gateway to assume, use the role's Amazon Resource Name (ARN). To use resource-based permissions on the Lambda function, specify null.

Type: String

**authorizerResultTtlInSeconds (p. 141)**

The TTL in seconds of cached authorizer results. If it equals 0, authorization caching is disabled. If it is greater than 0, API Gateway will cache authorizer responses. If this field is not set, the default value is 300. The maximum value is 3600, or 1 hour.

Type: Integer

**authorizerUri (p. 141)**

Specifies the authorizer's Uniform Resource Identifier (URI). For TOKEN or REQUEST authorizers, this must be a well-formed Lambda function URI, for example, arn:aws:apigateway:us-west-2:lambda:path/2015-03-31/functions/arn:aws:lambda:us-west-2: {account_id}:function:{lambda_function_name}/invocations. In general, the URI has this form arn:aws:apigateway:{region}:lambda:path/{service_api}, where {region} is the same as the region hosting the Lambda function, path indicates that the remaining substring in the URI should be treated as the path to the resource, including the initial /. For Lambda functions, this is usually of the form /2015-03-31/functions/[FunctionARN]/invocations.

Type: String

**authType (p. 141)**

Optional customer-defined field, used in OpenAPI imports and exports without functional impact.

Type: String

**id (p. 141)**

The identifier for the authorizer resource.

Type: String

**identitySource (p. 141)**

The identity source for which authorization is requested. For a TOKEN or COGNITO_USER_POOLS authorizer, this is required and specifies the request header mapping expression for the custom header holding the authorization token submitted by the client. For example, if the token header name is Auth, the header mapping expression is method.request.header.Auth. For the REQUEST authorizer, this is required when authorization caching is enabled. The value is a comma-separated string of one or more mapping expressions of the specified request parameters. For example, if an Auth header, a Name query string parameter are defined as identity sources, this value is method.request.header.Auth, method.request.querystring.Name. These parameters will be used to derive the authorization caching key and to perform runtime validation of the REQUEST authorizer by verifying all of the identity-related request parameters are present, not null and non-empty. Only when this is true does the authorizer invoke the authorizer Lambda function, otherwise, it returns a 401 Unauthorized response without calling the Lambda function. The valid value is a string of comma-separated mapping expressions of the specified request parameters. When the authorization caching is not enabled, this property is optional.

Type: String

**identityValidationExpression (p. 141)**

A validation expression for the incoming identity token. For TOKEN authorizers, this value is a regular expression. For COGNITO_USER_POOLS authorizers, API Gateway will match the aud field of the incoming token from the client against the specified regular expression. It will invoke the
authorizer's Lambda function when there is a match. Otherwise, it will return a 401 Unauthorized response without calling the Lambda function. The validation expression does not apply to the REQUEST authorizer.

Type: String

name (p. 141)

The name of the authorizer.

Type: String

providerARNs (p. 141)

A list of the Amazon Cognito user pool ARNs for the COGNITO_USER_POOLS authorizer. Each element is of this format: arn:aws:cognito-idp:{region}:{account_id}:userpool/{user_pool_id}. For a TOKEN or REQUEST authorizer, this is not defined.

Type: Array of strings

type (p. 141)

The authorizer type. Valid values are TOKEN for a Lambda function using a single authorization token submitted in a custom header, REQUEST for a Lambda function using incoming request parameters, and COGNITO_USER_POOLS for using an Amazon Cognito user pool.

Type: String

Valid Values: TOKEN | REQUEST | COGNITO_USER_POOLS

Errors

For information about the errors that are common to all actions, see Common Errors (p. 541).

BadRequestException

The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.

HTTP Status Code: 400

NotFoundException

The requested resource is not found. Make sure that the request URI is correct.

HTTP Status Code: 404

TooManyRequestsException

The request has reached its throttling limit. Retry after the specified time period.

HTTP Status Code: 429

UnauthorizedException

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401

Examples

Retrieve a custom authorizer of a given authorizer identifier

The successful response returns a 200 OK status code and a payload similar to the following:
Sample Request

GET /restapis/mxsmn867vb/authorizers/40j2n8 HTTP/1.1
Content-Type: application/json
Host: apigateway.us-east-1.amazonaws.com
X-Amz-Date: 20170223T231032Z
Authorization: AWS4-HMAC-SHA256 Credential={access_key_ID}/20170223/us-east-1/apigateway/aws4_request, SignedHeaders=content-type;host;x-amz-date, Signature={sig4_hash}

Sample Response

{
  "_links": {
    "curies": {
      "href": "https://docs.aws.amazon.com/apigateway/latest/developerguide/restapi-authorizer-{rel}.html",
      "name": "authorizer",
      "templated": true
    },
    "self": {
      "href": "/restapis/mxsmn867vb/authorizers/40j2n8"
    },
    "authorizer:delete": {
      "href": "/restapis/mxsmn867vb/authorizers/40j2n8"
    },
    "authorizer:update": {
      "href": "/restapis/mxsmn867vb/authorizers/40j2n8"
    }
  },
  "authType": "custom",
  "authorizerResultTtlInSeconds": 300,
  "id": "40j2n8",
  "identitySource": "method.request.header.Auth",
  "name": "my-cust-auth",
  "type": "TOKEN"
}

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
GetAuthorizers

Describe an existing Authorizers resource.

Request Syntax

GET /restapis/restapi_id/authorizers?limit=limit&position=position HTTP/1.1

URI Request Parameters

The request uses the following URI parameters.

**limit (p. 145)**

The maximum number of returned results per page. The default value is 25 and the maximum value is 500.

**position (p. 145)**

The current pagination position in the paged result set.

**restapi_id (p. 145)**

The string identifier of the associated RestApi.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

HTTP/1.1 200
Content-type: application/json

```json
{
   "item": [
      {
         "authorizerCredentials": "string",
         "authorizerResultTtlInSeconds": number,
         "authorizerUri": "string",
         "authType": "string",
         "id": "string",
         "identitySource": "string",
         "identityValidationExpression": "string",
         "name": "string",
         "providerARNs": [ "string" ],
         "type": "string"
      },
      {
         "position": "string"
      }
   ],
   "position": "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.

**item (p. 145)**

The current page of elements from this collection.

Type: Array of **Authorizer (p. 483)** objects

**position (p. 145)**

The current pagination position in the paged result set.

Type: String

### Errors

For information about the errors that are common to all actions, see [Common Errors (p. 541)](https://example.com).

**BadRequestException**

The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.

HTTP Status Code: 400

**NotFoundException**

The requested resource is not found. Make sure that the request URI is correct.

HTTP Status Code: 404

**TooManyRequestsException**

The request has reached its throttling limit. Retry after the specified time period.

HTTP Status Code: 429

**UnauthorizedException**

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401

### Examples

**Get the collection of custom authorizers defined for an API**

This example illustrates one usage of GetAuthorizers.

#### Sample Request

```
GET /restapis/86132671f6/authorizers HTTP/1.1
Content-Type: application/json
Host: apigateway.us-east-1.amazonaws.com
Content-Length: 60
X-Amz-Date: 20170223T175134Z
Authorization: AWS4-HMAC-SHA256 Credential={access_key_ID}/20170223/us-east-1/apigateway/aws4_request, SignedHeaders=content-type;host;x-amz-date, Signature={sig4_hash}
```
Sample Response

```json
{
  "_links": {
    "curies": {
      "href": "https://docs.aws.amazon.com/apigateway/latest/developerguide/restapi-authorizer-{rel}.html",
      "name": "authorizer",
      "templated": true
    },
    "self": {
      "href": "/restapis/86l3267lf6/authorizers"
    },
    "authorizer:by-id": {
      "href": "/restapis/86l3267lf6/authorizers/{authorizer_id}",
      "templated": true
    },
    "authorizer:create": {
      "href": "/restapis/86l3267lf6/authorizers"
    },
    "item": {
      "href": "/restapis/86l3267lf6/authorizers/bs9803"
    }
  },
  "_embedded": {
    "item": {
      "_links": {
        "self": {
          "href": "/restapis/86l3267lf6/authorizers/bs9803"
        },
        "authorizer:delete": {
          "href": "/restapis/86l3267lf6/authorizers/bs9803"
        },
        "authorizer:update": {
          "href": "/restapis/86l3267lf6/authorizers/bs9803"
        }
      },
      "authType": "custom",
      "authorizerResultTtlInSeconds": 300,
      "id": "bs9803",
      "identitySource": "method.request.header.Authorization",
      "name": "myCustomAuth",
      "type": "TOKEN"
    }
  }
}
```

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
GetBasePathMapping

Describe a BasePathMapping resource.

Request Syntax

```
GET /domainnames/domain_name/basepathmappings/base_path HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

**basePath (p. 149)**

The base path name that callers of the API must provide as part of the URL after the domain name. This value must be unique for all of the mappings across a single API. Specify '(none)' if you do not want callers to specify any base path name after the domain name.

- Required: Yes

**domain_name (p. 149)**

The domain name of the BasePathMapping resource to be described.

- Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json
{
    "basePath": "string",
    "restApiId": "string",
    "stage": "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.

**basePath (p. 149)**

The base path name that callers of the API must provide as part of the URL after the domain name.

- Type: String

**restApiId (p. 149)**

The string identifier of the associated RestApi.
Errors

For information about the errors that are common to all actions, see Common Errors (p. 541).

**BadRequestException**

The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.

HTTP Status Code: 400

**NotFoundException**

The requested resource is not found. Make sure that the request URI is correct.

HTTP Status Code: 404

**TooManyRequestsException**

The request has reached its throttling limit. Retry after the specified time period.

HTTP Status Code: 429

**UnauthorizedException**

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401

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
GetBasePathMappings

Represents a collection of BasePathMapping resources.

**Request Syntax**

```
GET /domainnames/$domain_name/basepathmappings?limit=$limit&position=$position HTTP/1.1
```

**URI Request Parameters**

The request uses the following URI parameters.

- **domain_name (p. 151)**
  - The domain name of a BasePathMapping resource.
  - Required: Yes

- **limit (p. 151)**
  - The maximum number of returned results per page. The default value is 25 and the maximum value is 500.

- **position (p. 151)**
  - The current pagination position in the paged result set.

**Request Body**

The request does not have a request body.

**Response Syntax**

```
HTTP/1.1 200
Content-type: application/json

{
   "item": [
      {
         "basePath": "string",
         "restApiId": "string",
         "stage": "string"
      },
      {
         "position": "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.

- **item (p. 151)**
  - The current page of elements from this collection.
Errors

For information about the errors that are common to all actions, see Common Errors (p. 541).

BadRequestException

The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.

HTTP Status Code: 400

NotFoundException

The requested resource is not found. Make sure that the request URI is correct.

HTTP Status Code: 404

TooManyRequestsException

The request has reached its throttling limit. Retry after the specified time period.

HTTP Status Code: 429

UnauthorizedException

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401

Examples

Get the base path mappings of a custom domain name

This example illustrates one usage of GetBasePathMappings.

Sample Request

```plaintext
GET /domainnames/a.b.c.com/basepathmappings HTTP/1.1
Content-Type: application/json
Host: apigateway.us-east-1.amazonaws.com
X-Amz-Date: 20160615T221921Z
Authorization: AWS4-HMAC-SHA256 Credential={access_key_ID}/20160615/us-east-1/apigateway/aws4_request, SignedHeaders=content-type;host;x-amz-date, Signature={sig4_hash}
```

Sample Response

```json
{
   "_links": {
      "curies": {
```

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152
"href": "https://docs.aws.amazon.com/apigateway/latest/developerguide/restapi-basepathmapping-{rel}.html",
"name": "basepathmapping",
"templated": true
},
"self": {
"href": "/domainnames/a.b.c.com/basepathmappings{?limit}",
"templated": true
},
"basepathmapping:by-path": {
"href": "/domainnames/a.b.c.com/basepathmappings/{base_path}",
"templated": true
},
"basepathmapping:create": {
"href": "/domainnames/a.b.c.com/basepathmappings"
},
"item": [
{
"href": "/domainnames/a.b.c.com/basepathmappings/my-service-api"
},
{
"href": "/domainnames/a.b.c.com/basepathmappings/my-sample-api"
}
],
"_embedded": {
"item": [
{
"_links": {
"self": {
"href": "/domainnames/a.b.c.com/basepathmappings/my-service-api"
},
"basepathmapping:create": {
"href": "/domainnames/a.b.c.com/basepathmappings"
},
"basepathmapping:delete": {
"href": "/domainnames/a.b.c.com/basepathmappings/my-service-api"
},
"basepathmapping:update": {
"href": "/domainnames/a.b.c.com/basepathmappings/my-service-api"
},
"basepath": "my-service-api",
"restApiId": "fugvjdxtri",
"stage": "stage2"
}
},
"_links": {
"self": {
"href": "/domainnames/a.b.c.com/basepathmappings/my-sample-api"
},
"basepathmapping:create": {
"href": "/domainnames/a.b.c.com/basepathmappings"
},
"basepathmapping:delete": {
"href": "/domainnames/a.b.c.com/basepathmappings/my-sample-api"
},
"basepathmapping:update": {
"href": "/domainnames/a.b.c.com/basepathmappings/my-sample-api"
},
"basepath": "my-sample-api",
"restApiId": "fugvjdxtri",
"stage": "stage1"
}
]
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
GetClientCertificate

Gets information about the current ClientCertificate resource.

**Request Syntax**

GET /clientcertificates/clientcertificate_id HTTP/1.1

**URI Request Parameters**

The request uses the following URI parameters.

`clientcertificate_id` *(p. 155)*

The identifier of the ClientCertificate resource to be described.

Required: Yes

**Request Body**

The request does not have a request body.

**Response Syntax**

HTTP/1.1 200
Content-type: application/json

```json
{
    "clientCertificateId": "string",
    "createdDate": number,
    "description": "string",
    "expirationDate": number,
    "pemEncodedCertificate": "string",
    "tags": {
        "string" : "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.

`clientCertificateId` *(p. 155)*

The identifier of the client certificate.

Type: String

`createdDate` *(p. 155)*

The timestamp when the client certificate was created.
Type: Timestamp

description (p. 155)

The description of the client certificate.

Type: String

description (p. 155)

expirationDate (p. 155)

The timestamp when the client certificate will expire.

Type: Timestamp

description (p. 155)

pemEncodedCertificate (p. 155)

The PEM-encoded public key of the client certificate, which can be used to configure certificate authentication in the integration endpoint.

Type: String

description (p. 155)

tags (p. 155)

The collection of tags. Each tag element is associated with a given resource.

Type: String to string map

Errors

For information about the errors that are common to all actions, see Common Errors (p. 541).

BadRequestException

The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.

HTTP Status Code: 400

NotFoundException

The requested resource is not found. Make sure that the request URI is correct.

HTTP Status Code: 404

TooManyRequestsException

The request has reached its throttling limit. Retry after the specified time period.

HTTP Status Code: 429

UnauthorizedException

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401

Examples

Get the client certificate of a given identifier

This example illustrates one usage of GetClientCertificate.
Sample Request

GET /clientcertificates/9ao60f HTTP/1.1
Content-Type: application/json
Host: apigateway.us-east-1.amazonaws.com
X-Amz-Date: 20160615T225614Z
Authorization: AWS4-HMAC-SHA256 Credential={access_key_ID}/20160615/us-east-1/apigateway/ aws4_request, SignedHeaders=content-type;host;x-amz-date, Signature={sig4_hash}

Sample Response

{
  "_links": {
    "curies": {
      "href": "https://docs.aws.amazon.com/apigateway/latest/developerguide/restapi-clientcertificate-{rel}.html",
      "name": "clientcertificate",
      "templated": true
    },
    "self": {
      "href": "/clientcertificates/9ao60f"
    },
    "clientcertificate:delete": {
      "href": "/clientcertificates/9ao60f"
    },
    "clientcertificate:update": {
      "href": "/clientcertificates/9ao60f"
    }
  },
  "clientCertificateId": "9ao60f",
  "createdDate": "2016-06-15T22:33:13Z",
  "description": "my second client-side cert",
  "expirationDate": "2017-06-15T22:33:13Z",
  "pemEncodedCertificate": "-----BEGIN CERTIFICATE-----
MIIC6TC...yQAGEHvs=
-----END CERTIFICATE-----"  
}

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
GetClientCertificates

Gets a collection of ClientCertificate resources.

Request Syntax

```
GET /clientcertificates?limit=limit&position=position HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

**limit (p. 158)**

The maximum number of returned results per page. The default value is 25 and the maximum value is 500.

**position (p. 158)**

The current pagination position in the paged result set.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "item": [
    {
      "clientCertificateId": "string",
      "createdDate": number,
      "description": "string",
      "expirationDate": number,
      "pemEncodedCertificate": "string",
      "tags": {
        "string" : "string"
      }
    },
    {
      "clientCertificateId": "string",
      "createdDate": number,
      "description": "string",
      "expirationDate": number,
      "pemEncodedCertificate": "string",
      "tags": {
        "string" : "string"
      }
    },
    {
      "clientCertificateId": "string",
      "createdDate": number,
      "description": "string",
      "expirationDate": number,
      "pemEncodedCertificate": "string",
      "tags": {
        "string" : "string"
      }
    }
  ],
  "position": "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.

**item (p. 158)**

The current page of elements from this collection.
Errors

For information about the errors that are common to all actions, see [Common Errors (p. 541)](#).

**BadRequestException**

The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.

HTTP Status Code: 400

**NotFoundException**

The requested resource is not found. Make sure that the request URI is correct.

HTTP Status Code: 404

**TooManyRequestsException**

The request has reached its throttling limit. Retry after the specified time period.

HTTP Status Code: 429

**UnauthorizedException**

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401

Examples

Retrieve client certificates

The following example request retrieves the available client certificates in the caller’s AWS account.

A successful response returns the requested `ClientCertificate` resources that can be navigated to by following the linked item or examining the embedded item resource.

Sample Request

```
GET /clientcertificates HTTP/1.1
Content-Type: application/json
Host: apigateway.us-east-1.amazonaws.com
X-Amz-Date: 20160601T175605Z
Authorization: AWS4-HMAC-SHA256 Credential={access_key_ID}/us-east-1/apigateway/
aws4_request, SignedHeaders=content-type;host;x-amz-date, Signature={sig4_hash}
```

Sample Response

```
{
```
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
GetDeployment

Gets information about a Deployment resource.

**Request Syntax**

```
GET /restapis/{restapi_id}/deployments/{deployment_id}?embed={embed} HTTP/1.1
```

**URI Request Parameters**

The request uses the following URI parameters.

- **deployment_id (p. 161)**
  - The identifier of the Deployment resource to get information about.
  - Required: Yes
  - **embed (p. 161)**
    - A query parameter to retrieve the specified embedded resources of the returned Deployment resource in the response. In a REST API call, this embed parameter value is a list of comma-separated strings, as in GET /restapis/{restapi_id}/deployments/{deployment_id}? embed=var1,var2. The SDK and other platform-dependent libraries might use a different format for the list. Currently, this request supports only retrieval of the embedded API summary this way. Hence, the parameter value must be a single-valued list containing only the "apisummary" string. For example, GET /restapis/{restapi_id}/deployments/{deployment_id}? embed=apisummary.
  - Required: Yes

- **restapi_id (p. 161)**
  - The string identifier of the associated RestApi.
  - Required: Yes

**Request Body**

The request does not have a request body.

**Response Syntax**

```
HTTP/1.1 200
Content-type: application/json

{
   "apiSummary": {
      "string": {
         "apiKeyRequired": boolean,
         "authorizationType": "string"
      }
   },
   "createdDate": number,
   "description": "string"
}
```
"id": "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.

---

### apiSummary (p. 161)

A summary of the RestApi at the date and time that the deployment resource was created.

Type: String to string to MethodSnapshot (p. 514) object map map

### createdDate (p. 161)

The date and time that the deployment resource was created.

Type: Timestamp

### description (p. 161)

The description for the deployment resource.

Type: String

### id (p. 161)

The identifier for the deployment resource.

Type: String

---

## Errors

For information about the errors that are common to all actions, see Common Errors (p. 541).

---

### BadRequestException

The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.

HTTP Status Code: 400

---

### NotFoundException

The requested resource is not found. Make sure that the request URI is correct.

HTTP Status Code: 404

---

### ServiceUnavailableException

The requested service is not available. For details see the accompanying error message. Retry after the specified time period.

HTTP Status Code: 503

---

### TooManyRequestsException

The request has reached its throttling limit. Retry after the specified time period.

HTTP Status Code: 429
UnauthorizedException

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401

Examples

Retrieve a deployment

This example illustrates one usage of GetDeployment.

Sample Request

```
GET /restapis/{restapi_id}/deployments/{deployment-id}?embed=apisummary HTTP/1.1
Content-Type: application/json
Host: apigateway.us-east-1.amazonaws.com
X-Amz-Date: 20160520T055303Z
Authorization: AWS4-HMAC-SHA256 Credential={access_key_ID}/20160520/us-east-1/apigateway/
aws4_request, SignedHeaders=content-type;host;x-amz-date, Signature={hash}
Cache-Control: no-cache
```

Sample Response

```
{
   "_links": {
      "curies": {
         "href": "https://docs.aws.amazon.com/apigateway/latest/developerguide/restapi-
deployment-{rel}.html",
         "name": "deployment",
         "templated": true
      },
      "self": {
         "href": "/restapis/{restapi-id}/deployments/{deployment-id}"
      },
      "deployment:delete": {
         "href": "/restapis/{restapi-id}/deployments/{deployment-id}"
      },
      "deployment:stages": {
         "href": "/restapis/{restapi-id}/stages?deployment_id={deployment-id}"
      },
      "deployment:update": {
         "href": "/restapis/{restapi-id}/deployments/{deployment-id}"
      }
   },
   "apiSummary": {
      "/petstorewalkthrough/pets/{petId}": {
         "GET": {
            "apiKeyRequired": false,
            "authorizationType": "NONE"
         },
      },
      "/mydemoawsproxy": {
         "GET": {
            "apiKeyRequired": false,
            "authorizationType": "NONE"
         }
      }
   },
   "createdDate": "2016-02-12T22:20:25Z",
```
"id": "{deployment-id}"
}

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
GetDeployments

Gets information about a Deployments collection.

Request Syntax

```
GET /restapis/restapi_id/deployments?limit=limit&position=position HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

**limit** (p. 165)

The maximum number of returned results per page. The default value is 25 and the maximum value is 500.

**position** (p. 165)

The current pagination position in the paged result set.

**restapi_id** (p. 165)

The string identifier of the associated RestApi.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json
{
  "item": [
    {
      "apiSummary": {
        "string": {
          "apiKeyRequired": boolean,
          "authorizationType": "string"
        }
      },
      "createdDate": number,
      "description": "string",
      "id": "string"
    }
    ,
    "position": "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.

item (p. 165)

The current page of elements from this collection.

Type: Array of Deployment (p. 490) objects

position (p. 165)

The current pagination position in the paged result set.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors (p. 541).

BadRequestException

The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.

HTTP Status Code: 400

NotFoundException

The requested resource is not found. Make sure that the request URI is correct.

HTTP Status Code: 404

ServiceUnavailableException

The requested service is not available. For details see the accompanying error message. Retry after the specified time period.

HTTP Status Code: 503

TooManyRequestsException

The request has reached its throttling limit. Retry after the specified time period.

HTTP Status Code: 429

UnauthorizedException

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401

Examples

Get the deployments of an API

This example illustrates one usage of GetDeployments.
Sample Request

GET /restapis/fugvjdxtri/deployments?limit=2 HTTP/1.1
Content-Type: application/json
Host: apigateway.us-east-1.amazonaws.com
X-Amz-Date: 20160606T222635Z
Authorization: AWS4-HMAC-SHA256 Credential={secrete_key}/20160606/us-east-1/apigateway/
aws4_request, SignedHeaders=content-type;host;x-amz-date, Signature={sig4_hash}

Sample Response

{
"_links": {
"curies": {
"href": "https://docs.aws.amazon.com/apigateway/latest/developerguide/restapi-deployment-{rel}.html",
"name": "deployment",
"templated": true
},
"self": {
"href": "/restapis/fugvjdxtri/deployments?limit=2"
},
"deployment:by-id": {
"href": "/restapis/fugvjdxtri/deployments/{deployment_id}?embed",
"templated": true
},
"deployment:create": {
"href": "/restapis/fugvjdxtri/deployments"
},
"item": [{
"href": "/restapis/fugvjdxtri/deployments/4vvti6"
},
{ "href": "/restapis/fugvjdxtri/deployments/a9kdln"
}],
"next": {
"href": "/restapis/fugvjdxtri/deployments?position=aWQ9U2E5a2Rsbg%3D%3D&limit=2"
},
"_embedded": {
"item": [
{
"_links": {
"self": {
"href": "/restapis/fugvjdxtri/deployments/4vvti6"
},
"deployment:delete": {
"href": "/restapis/fugvjdxtri/deployments/4vvti6"
},
"deployment:stages": {
"href": "/restapis/fugvjdxtri/stages?deployment_id=4vvti6"
},
"deployment:update": {
"href": "/restapis/fugvjdxtri/deployments/4vvti6"
}
},
"createdDate": "2016-06-06T17:42:37Z",
"id": "4vvti6"
}
]
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](#)
GetDocumentationPart

Gets a documentation part.

Request Syntax

GET /restapis/{restapi_id}/documentation/parts/{part_id} HTTP/1.1

URI Request Parameters

The request uses the following URI parameters.

part_id (p. 169)
The string identifier of the associated RestApi.
Required: Yes

restapi_id (p. 169)
The string identifier of the associated RestApi.
Required: Yes

Request Body

The request does not have a request body.

Response Syntax

HTTP/1.1 200
Content-type: application/json

{  
  "id": "string",
  "location": {
    "method": "string",
    "name": "string",
    "path": "string",
    "statusCode": "string",
    "type": "string"
  },
  "properties": "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. 169)
The DocumentationPart identifier, generated by API Gateway when the DocumentationPart is created.
Errors

For information about the errors that are common to all actions, see Common Errors (p. 541).

BadRequestException

The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.

HTTP Status Code: 400

NotFoundException

The requested resource is not found. Make sure that the request URI is correct.

HTTP Status Code: 404

TooManyRequestsException

The request has reached its throttling limit. Retry after the specified time period.

HTTP Status Code: 429

UnauthorizedException

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401

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
See Also

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

Gets documentation parts.

Request Syntax

```plaintext
GET /restapis/restapi_id/documentation/parts?
limit=limit&locationStatus=locationStatus&name=nameQuery&path=path&position=position&type=type
HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

**limit (p. 172)**

The maximum number of returned results per page. The default value is 25 and the maximum value is 500.

**locationStatus (p. 172)**

The status of the API documentation parts to retrieve. Valid values are DOCUMENTED for retrieving DocumentationPart resources with content and UNDOCUMENTED for DocumentationPart resources without content.

Valid Values: DOCUMENTED | UNDOCUMENTED

**nameQuery (p. 172)**

The name of API entities of the to-be-retrieved documentation parts.

**path (p. 172)**

The path of API entities of the to-be-retrieved documentation parts.

**position (p. 172)**

The current pagination position in the paged result set.

**restapi_id (p. 172)**

The string identifier of the associated RestApi.

Required: Yes

**type (p. 172)**

The type of API entities of the to-be-retrieved documentation parts.

Valid Values: API | AUTHORIZER | MODEL | RESOURCE | METHOD | PATH_PARAMETER | QUERY_PARAMETER | REQUEST_HEADER | REQUEST_BODY | RESPONSE | RESPONSE_HEADER | RESPONSE_BODY

Request Body

The request does not have a request body.

Response Syntax

```plaintext
HTTP/1.1 200
```
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.

item (p. 172)

The current page of elements from this collection.

Type: Array of DocumentationPart (p. 492) objects

position (p. 172)

The current pagination position in the paged result set.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors (p. 541).

BadRequestException

The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.

HTTP Status Code: 400

NotFoundException

The requested resource is not found. Make sure that the request URI is correct.

HTTP Status Code: 404

TooManyRequestsException

The request has reached its throttling limit. Retry after the specified time period.

HTTP Status Code: 429

UnauthorizedException

The request is denied because the caller has insufficient permissions.
HTTP Status Code: 401

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
GetDocumentationVersion

Gets a documentation version.

Request Syntax

GET /restapis/restapi_id/documentation/versions/doc_version HTTP/1.1

URI Request Parameters

The request uses the following URI parameters.

doc_version (p. 175)

The version identifier of the to-be-retrieved documentation snapshot.

Required: Yes

restapi_id (p. 175)

The string identifier of the associated RestApi.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

HTTP/1.1 200
Content-type: application/json
{
    "createdDate": number,
    "description": "string",
    "version": "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.

createdDate (p. 175)

The date when the API documentation snapshot is created.

Type: Timestamp
description (p. 175)

The description of the API documentation snapshot.
Errors

For information about the errors that are common to all actions, see Common Errors (p. 541).

**NotFoundException**

The requested resource is not found. Make sure that the request URI is correct.

HTTP Status Code: 404

**TooManyRequestsException**

The request has reached its throttling limit. Retry after the specified time period.

HTTP Status Code: 429

**UnauthorizedException**

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401

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
GetDocumentationVersions

Gets documentation versions.

**Request Syntax**

```
GET /restapis/restapi_id/documentation/versions?limit=limit&position=position HTTP/1.1
```

**URI Request Parameters**

The request uses the following URI parameters.

- **limit (p. 177)**
  The maximum number of returned results per page. The default value is 25 and the maximum value is 500.

- **position (p. 177)**
  The current pagination position in the paged result set.

- **restapi_id (p. 177)**
  The string identifier of the associated RestApi.
  Required: Yes

**Request Body**

The request does not have a request body.

**Response Syntax**

```
HTTP/1.1 200
Content-type: application/json

{
   "item": [
      {
         "createdDate": "number",
         "description": "string",
         "version": "string"
      }
   ],
   "position": "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.

- **item (p. 177)**
  The current page of elements from this collection.
Errors

For information about the errors that are common to all actions, see Common Errors (p. 541).

BadRequestException

The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.

HTTP Status Code: 400

NotFoundException

The requested resource is not found. Make sure that the request URI is correct.

HTTP Status Code: 404

TooManyRequestsException

The request has reached its throttling limit. Retry after the specified time period.

HTTP Status Code: 429

UnauthorizedException

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401

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
GetDomainName

Represents a domain name that is contained in a simpler, more intuitive URL that can be called.

Request Syntax

GET /domainnames/domain_name HTTP/1.1

URI Request Parameters

The request uses the following URI parameters.

domain_name (p. 179)

The name of the DomainName resource.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

HTTP/1.1 200
Content-type: application/json

{
   "certificateArn": "string",
   "certificateName": "string",
   "certificateUploadDate": number,
   "distributionDomainName": "string",
   "distributionHostedZoneId": "string",
   "domainName": "string",
   "domainNameStatus": "string",
   "domainNameStatusMessage": "string",
   "endpointConfiguration": {
      "types": [ "string" ],
      "vpcEndpointIds": [ "string" ]
   },
   "mutualTlsAuthentication": {
      "truststoreUri": "string",
      "truststoreVersion": "string",
      "truststoreWarnings": [ "string" ]
   },
   "ownershipVerificationCertificateArn": "string",
   "regionalCertificateArn": "string",
   "regionalCertificateName": "string",
   "regionalDomainName": "string",
   "regionalHostedZoneId": "string",
   "securityPolicy": "string",
   "tags": {
      "string": "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.

certificateArn (p. 179)

The reference to an AWS-managed certificate that will be used by edge-optimized endpoint for this domain name. AWS Certificate Manager is the only supported source.

Type: String
certificateName (p. 179)

The name of the certificate that will be used by edge-optimized endpoint for this domain name.

Type: String
certificateUploadDate (p. 179)

The timestamp when the certificate that was used by edge-optimized endpoint for this domain name was uploaded.

Type: Timestamp
distributionDomainName (p. 179)

The domain name of the Amazon CloudFront distribution associated with this custom domain name for an edge-optimized endpoint. You set up this association when adding a DNS record pointing the custom domain name to this distribution name. For more information about CloudFront distributions, see the Amazon CloudFront documentation.

Type: String
distributionHostedZoneId (p. 179)

The region-agnostic Amazon Route 53 Hosted Zone ID of the edge-optimized endpoint. The valid value is Z2FDTNDATAQYW2 for all the regions. For more information, see Set up a Regional Custom Domain Name and AWS Regions and Endpoints for API Gateway.

Type: String
domainName (p. 179)

The custom domain name as an API host name, for example, my-api.example.com.

Type: String
domainNameStatus (p. 179)

The status of the DomainName migration. The valid values are AVAILABLE and UPDATING. If the status is UPDATING, the domain cannot be modified further until the existing operation is complete. If it is AVAILABLE, the domain can be updated.

Type: String

Valid Values: AVAILABLE | UPDATING | PENDING | PENDING_CERTIFICATE_REIMPORT | PENDING_OWNERSHIP_VERIFICATION
domainNameStatusMessage (p. 179)

An optional text message containing detailed information about status of the DomainName migration.
**Type:** String

**endpointConfiguration (p. 179)**

The endpoint configuration of this DomainName showing the endpoint types of the domain name.

Type: **EndpointConfiguration (p. 499)** object

**mutualTlsAuthentication (p. 179)**

The mutual TLS authentication configuration for a custom domain name. If specified, API Gateway performs two-way authentication between the client and the server. Clients must present a trusted certificate to access your API.

Type: **MutualTlsAuthentication (p. 516)** object

**ownershipVerificationCertificateArn (p. 179)**

The ARN of the public certificate issued by ACM to validate ownership of your custom domain. Only required when configuring mutual TLS and using an ACM imported or private CA certificate ARN as the regionalCertificateArn.

Type: String

**regionalCertificateArn (p. 179)**

The reference to an AWS-managed certificate that will be used for validating the regional domain name. AWS Certificate Manager is the only supported source.

Type: String

**regionalCertificateName (p. 179)**

The name of the certificate that will be used for validating the regional domain name.

Type: String

**regionalDomainName (p. 179)**

The domain name associated with the regional endpoint for this custom domain name. You set up this association by adding a DNS record that points the custom domain name to this regional domain name. The regional domain name is returned by API Gateway when you create a regional endpoint.

Type: String

**regionalHostedZoneId (p. 179)**

The region-specific Amazon Route 53 Hosted Zone ID of the regional endpoint. For more information, see Set up a Regional Custom Domain Name and AWS Regions and Endpoints for API Gateway.

Type: String

**securityPolicy (p. 179)**

The Transport Layer Security (TLS) version + cipher suite for this DomainName. The valid values are TLS_1_0 and TLS_1_2.

Type: String

Valid Values: TLS_1_0 | TLS_1_2

**tags (p. 179)**

The collection of tags. Each tag element is associated with a given resource.

Type: String to string map
Errors

For information about the errors that are common to all actions, see Common Errors (p. 541).

**BadRequestException**

The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.

HTTP Status Code: 400

**NotFoundException**

The requested resource is not found. Make sure that the request URI is correct.

HTTP Status Code: 404

**TooManyRequestsException**

The request has reached its throttling limit. Retry after the specified time period.

HTTP Status Code: 429

**UnauthorizedException**

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401

Examples

Get a information about a DomainName

This example illustrates one usage of GetDomainName.

**Sample Request**

GET /domainnames/a.b.c.com HTTP/1.1
Content-Type: application/json
Host: apigateway.us-east-1.amazonaws.com
X-Amz-Date: 20160602T000654Z
Authorization: AWS4-HMAC-SHA256 Credential={access_key_ID}/20160602/us-east-1/apigateway/aws4_request, SignedHeaders=content-type;host;x-amz-date, Signature={sig4_hash}

**Sample Response**

```json
{
  "_links": {
    "curies": [
      {
        "href": "https://docs.aws.amazon.com/apigateway/latest/developerguide/restapi-basepathmapping-{rel}.html",
        "name": "basepathmapping",
        "templated": true
      },
      {
        "href": "https://docs.aws.amazon.com/apigateway/latest/developerguide/restapi-domainname-{rel}.html",
        "name": "domainname",
        "templated": 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
GetDomainNames

Represents a collection of DomainName resources.

Request Syntax

GET /domainnames?limit=limit&position=position HTTP/1.1

URI Request Parameters

The request uses the following URI parameters.

limit (p. 184)

The maximum number of returned results per page. The default value is 25 and the maximum value is 500.

position (p. 184)

The current pagination position in the paged result set.

Request Body

The request does not have a request body.

Response Syntax

HTTP/1.1 200
Content-type: application/json

{  
  "item": [  
    {  
      "certificateArn": "string",
      "certificateName": "string",
      "certificateUploadDate": number,
      "distributionDomainName": "string",
      "distributionHostedZoneId": "string",
      "domainName": "string",
      "domainNameStatus": "string",
      "domainNameStatusMessage": "string",
      "endpointConfiguration": {  
        "types": [ "string" ],
        "vpcEndpointIds": [ "string" ]
      },
      "mutualTlsAuthentication": {  
        "truststoreUri": "string",
        "truststoreVersion": "string",
        "truststoreWarnings": [ "string" ]
      },
      "ownershipVerificationCertificateArn": "string",
      "regionalCertificateArn": "string",
      "regionalCertificateName": "string",
      "regionalDomainName": "string",
      "regionalHostedZoneId": "string",
      "securityPolicy": "string",
      "tags": {
    }  
  ]
}
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.

`item` (p. 184)

The current page of elements from this collection. Type: Array of [DomainName (p. 496)] objects

`position` (p. 184)

The current pagination position in the paged result set. Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors (p. 541)].

**BadRequestException**

The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.

HTTP Status Code: 400

**NotFoundException**

The requested resource is not found. Make sure that the request URI is correct.

HTTP Status Code: 404

**TooManyRequestsException**

The request has reached its throttling limit. Retry after the specified time period.

HTTP Status Code: 429

**UnauthorizedException**

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401

Examples

**Retrieve domain names**

The following example request retrieves up to 10 custom DomainName resources for APIs under the caller's AWS account.
A successful response returns the requested DomainName resources that can be navigated to by following the linked item or examining the embedded item resource.

Sample Request

GET /domainnames?limit=10 HTTP/1.1
Content-Type: application/json
Host: apigateway.us-east-1.amazonaws.com
X-Amz-Date: 20160601T173728Z
Authorization: AWS4-HMAC-SHA256 Credential={access_key_ID}/20160601/us-east-1/apigateway/aws4_request, SignedHeaders=content-type;host;x-amz-date, Signature={sig4_hash}

Sample Response

{
  "_links": {
    "curies": [
      {
        "href": "https://docs.aws.amazon.com/apigateway/latest/developerguide/restapi-basepathmapping-{rel}.html",
        "name": "basepathmapping",
        "templated": true
      },
      {
        "href": "https://docs.aws.amazon.com/apigateway/latest/developerguide/restapi-domainname-{rel}.html",
        "name": "domainname",
        "templated": true
      }
    ],
    "self": {
      "href": "/domainnames?limit=10"
    },
    "domainname:by-name": {
      "href": "/domainnames/{domain_name}"
    },
    "domainname:delete": {
      "href": "/domainnames/a.b.c.com"
    },
    "domainname:by-name": {
      "href": "/domainnames/{domain_name}"
    },
    "domainname:basepathmappings": {
      "href": "/domainnames/a.b.c.com/basepathmappings{?limit}"
    },
    "domainname:delete": {
      "href": "/domainnames/a.b.c.com"
    }
  },
  "_embedded": {
    "item": {
      "_links": {
        "self": {
          "href": "/domainnames/a.b.c.com"
        },
        "basepathmapping:by-base-path": {
          "href": "/domainnames/a.b.c.com/basepathmappings/{base_path}"
        },
        "basepathmapping:create": {
          "href": "/domainnames/a.b.c.com/basepathmappings"
        },
        "domainname:basepathmappings": {
          "href": "/domainnames/a.b.c.com/basepathmappings"?
        },
        "domainname:delete": {
          "href": "/domainnames/a.b.c.com"
        }
      }
    }
  }
}
"domainname:update": {
  "href": "/domainnames/a.b.c.com"
}
},
"certificateArn": "arn:aws:acm:us-east-1:012345678910:certificate/abcdef",
"certificateUploadDate": "2016-04-18T22:16:04Z",
"distributionDomainName": "d3ih7ecqtec0mt.cloudfront.net",
"domainName": "a.b.c.com"
}

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
GetExport

Exports a deployed version of a RestApi in a specified format.

Request Syntax

```plaintext
GET /restapis/restapi_id/stages/stage_name/exports/export_type?parameters HTTP/1.1
Accept: accepts
```

URI Request Parameters

The request uses the following URI parameters.

**accepts (p. 188)**

The content-type of the export, for example application/json. Currently application/json and application/yaml are supported for exportType of oas30 and swagger. This should be specified in the Accept header for direct API requests.

**export_type (p. 188)**

The type of export. Acceptable values are 'oas30' for OpenAPI 3.0.x and 'swagger' for Swagger/OpenAPI 2.0.

Required: Yes

**parameters (p. 188)**

A key-value map of query string parameters that specify properties of the export, depending on the requested exportType. For exportType oas30 and swagger, any combination of the following parameters are supported: extensions='integrations' or extensions='apigateway' will export the API with x-amazon-apigateway-integration extensions. extensions='authorizers' will export the API with x-amazon-apigateway-authorizer extensions. postman will export the API with Postman extensions, allowing for import to the Postman tool.

**restapi_id (p. 188)**

The string identifier of the associated RestApi.

Required: Yes

**stage_name (p. 188)**

The name of the Stage that will be exported.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-Type: contentType
Content-Disposition: contentDisposition
```
Response Elements

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

The response returns the following HTTP headers.

- **contentDisposition (p. 188)**
  The content-disposition header value in the HTTP response.

- **contentType (p. 188)**
  The content-type header value in the HTTP response. This will correspond to a valid 'accept' type in the request.

The response returns the following as the HTTP body.

- **body (p. 188)**
  The binary blob response to GetExport, which contains the export.

Errors

For information about the errors that are common to all actions, see [Common Errors (p. 541)].

- **BadRequestException**
  The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.
  HTTP Status Code: 400

- **ConflictException**
  The request configuration has conflicts. For details, see the accompanying error message.
  HTTP Status Code: 409

- **LimitExceededException**
  The request exceeded the rate limit. Retry after the specified time period.
  HTTP Status Code: 429

- **NotFoundException**
  The requested resource is not found. Make sure that the request URI is correct.
  HTTP Status Code: 404

- **TooManyRequestsException**
  The request has reached its throttling limit. Retry after the specified time period.
  HTTP Status Code: 429

- **UnauthorizedException**
  The request is denied because the caller has insufficient permissions.
HTTP Status Code: 401

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
GetGatewayResponse

Gets a GatewayResponse of a specified response type on the given RestApi.

**Request Syntax**

```
GET /restapis/restapi_id/gatewayresponses/response_type HTTP/1.1
```

**URI Request Parameters**

The request uses the following URI parameters.

**response_type (p. 191)**

The response type of the associated GatewayResponse.

Valid Values: DEFAULT_4XX | DEFAULT_5XX | RESOURCE_NOT_FOUND | UNAUTHORIZED | INVALID_API_KEY | ACCESS_DENIED | AUTHORIZER_FAILURE | AUTHORIZER_CONFIGURATION_ERROR | INVALID_SIGNATURE | EXPIRED_TOKEN | MISSING_AUTHENTICATION_TOKEN | INTEGRATION_FAILURE | INTEGRATION_TIMEOUT | API_CONFIGURATION_ERROR | UNSUPPORTED_MEDIA_TYPE | BAD_REQUEST_PARAMETERS | BAD_REQUEST_BODY | REQUEST_TOO_LARGE | THROTTLED | QUOTA_EXCEEDED | WAF_FILTERED

Required: Yes

**restapi_id (p. 191)**

The string identifier of the associated RestApi.

Required: Yes

**Request Body**

The request does not have a request body.

**Response Syntax**

```
HTTP/1.1 200
Content-type: application/json

{
    "defaultResponse": boolean,
    "ResponseParameters": {
        "string": "string"
    },
    "responseTemplates": {
        "string": "string"
    },
    "responseType": "string",
    "statusCode": "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.

**defaultResponse (p. 191)**

A Boolean flag to indicate whether this GatewayResponse is the default gateway response (true) or not (false). A default gateway response is one generated by API Gateway without any customization by an API developer.

Type: Boolean

**responseParameters (p. 191)**

Response parameters (paths, query strings and headers) of the GatewayResponse as a string-to-string map of key-value pairs.

Type: String to string map

**responseTemplates (p. 191)**

Response templates of the GatewayResponse as a string-to-string map of key-value pairs.

Type: String to string map

**responseType (p. 191)**

The response type of the associated GatewayResponse.

Type: String

Valid Values: DEFAULT_4XX | DEFAULT_5XX | RESOURCE_NOT_FOUND | UNAUTHORIZED | INVALID_API_KEY | ACCESS_DENIED | AUTHORIZER_FAILURE | AUTHORIZER_CONFIGURATION_ERROR | INVALID_SIGNATURE | EXPIRED_TOKEN | MISSING_AUTHENTICATION_TOKEN | INTEGRATION_FAILURE | INTEGRATION_TIMEOUT | API_CONFIGURATION_ERROR | UNSUPPORTED_MEDIA_TYPE | BAD_REQUEST_PARAMETERS | BAD_REQUEST_BODY | REQUEST_TOO_LARGE | THROTTLED | QUOTA_EXCEEDED | WAF_FILTERED

**statusCode (p. 191)**

The HTTP status code for this GatewayResponse.

Type: String

Pattern: [1-5]\d\d

**Errors**

For information about the errors that are common to all actions, see Common Errors (p. 541).

**BadRequestException**

The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.

HTTP Status Code: 400

**NotFoundException**

The requested resource is not found. Make sure that the request URI is correct.

HTTP Status Code: 404
Examples

Get a Gateway Response of a given response type

This example illustrates one usage of GetGatewayResponse.

Sample Request

GET /restapis/o81lxisefl/gatewayresponses/MISSING_AUTHENTICATION_TOKEN HTTP/1.1
Host: beta-apigateway.us-east-1.amazonaws.com
Content-Type: application/json
X-Amz-Date: 20170503T202516Z
Authorization: AWS4-HMAC-SHA256 Credential={access-key-id}/20170503/us-east-1/apigateway/aws4_request, SignedHeaders=content-type;host;x-amz-date,
Signature=1b52460e3159c1a26c6ff29093055d50ea144c1c5b937528feca60f51129697a
Cache-Control: no-cache

Sample Response

{
    "_links": {
        "curies": {
            "name": "gatewayresponse",
            "templated": true
        },
        "self": {
            "href": "/restapis/o81lxisefl/gatewayresponses/MISSING_AUTHENTICATION_TOKEN"
        },
        "gatewayresponse:delete": {
            "href": "/restapis/o81lxisefl/gatewayresponses/MISSING_AUTHENTICATION_TOKEN"
        },
        "gatewayresponse:put": {
            "href": "/restapis/o81lxisefl/gatewayresponses/{response_type}"
        },
        "gatewayresponse:update": {
            "href": "/restapis/o81lxisefl/gatewayresponses/MISSING_AUTHENTICATION_TOKEN"
        }
    },
    "defaultResponse": false,
    "responseParameters": {
        "gatewayresponse.header.x-request-path": "method.request.path.petId",
        "gatewayresponse.header.Access-Control-Allow-Origin": "'a.b.c'",
        "gatewayresponse.header.x-request-query": "method.request.querystring.q",
        "gatewayresponse.header.x-request-header": "method.request.header.Accept"
    }
}
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
GetGatewayResponses

Gets the GatewayResponses collection on the given RestApi. If an API developer has not added any definitions for gateway responses, the result will be the API Gateway-generated default GatewayResponses collection for the supported response types.

Request Syntax

GET /restapis/restapi_id/gatewayresponses?limit=limit&position=position HTTP/1.1

URI Request Parameters

The request uses the following URI parameters.

limit (p. 195)

The maximum number of returned results per page. The default value is 25 and the maximum value is 500. The GatewayResponses collection does not support pagination and the limit does not apply here.

position (p. 195)

The current pagination position in the paged result set. The GatewayResponse collection does not support pagination and the position does not apply here.

restapi_id (p. 195)

The string identifier of the associated RestApi.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

HTTP/1.1 200
Content-type: application/json

```json
{
    "item": [
        {
            "defaultResponse": boolean,
            "responseParameters": {
                "string": "string"
            },
            "responseTemplates": {
                "string": "string"
            },
            "responseType": "string",
            "statusCode": "string"
        }
    ],
    "position": "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.

**item (p. 195)**

Returns the entire collection, because of no pagination support.

Type: Array of GatewayResponse (p. 500) objects

**position (p. 195)**

The current pagination position in the paged result set.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors (p. 541).

**BadRequestException**

The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.

HTTP Status Code: 400

**NotFoundException**

The requested resource is not found. Make sure that the request URI is correct.

HTTP Status Code: 404

**TooManyRequestsException**

The request has reached its throttling limit. Retry after the specified time period.

HTTP Status Code: 429

**UnauthorizedException**

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401

Examples

Get the collection of gateway responses of an API

This example illustrates one usage of GetGatewayResponses.

**Sample Request**

```
GET /restapis/o81lxisef1/gatewayresponses HTTP/1.1
Host: beta-apigateway.us-east-1.amazonaws.com
Content-Type: application/json
X-Amz-Date: 20170503T220604Z
```
Sample Response

```json
{
    "_links": {
        "curies": {
            "name": "gatewayresponse",
            "templated": true
        },
        "self": {
            "href": "/restapis/o81lxisefl/gatewayresponses"
        },
        "first": {
            "href": "/restapis/o81lxisefl/gatewayresponses"
        },
        "gatewayresponse:by-type": {
            "href": "gatewayresponses/{response_type}"
        },
        "item": [
            {
                "href": "/restapis/o81lxisefl/gatewayresponses/INTEGRATION_FAILURE"
            },
            {
                "href": "/restapis/o81lxisefl/gatewayresponses/RESOURCE_NOT_FOUND"
            },
            {
                "href": "/restapis/o81lxisefl/gatewayresponses/REQUEST_TOO_LARGE"
            },
            {
                "href": "/restapis/o81lxisefl/gatewayresponses/THROTTLED"
            },
            {
                "href": "/restapis/o81lxisefl/gatewayresponses/UNSUPPORTED_MEDIA_TYPE"
            },
            {
                "href": "/restapis/o81lxisefl/gatewayresponses/AUTHORIZER_CONFIGURATION_ERROR"
            },
            {
                "href": "/restapis/o81lxisefl/gatewayresponses/DEFAULT_5XX"
            },
            {
                "href": "/restapis/o81lxisefl/gatewayresponses/DEFAULT_4XX"
            },
            {
                "href": "/restapis/o81lxisefl/gatewayresponses/BAD_REQUEST_PARAMETERS"
            },
            {
                "href": "/restapis/o81lxisefl/gatewayresponses/BAD_REQUEST_BODY"
            },
            {
                "href": "/restapis/o81lxisefl/gatewayresponses/EXPIRED_TOKEN"
            },
            {
                "href": "/restapis/o81lxisefl/gatewayresponses/ACCESS_DENIED"
            }
        ]
    }
}
```
Amazon API Gateway API Reference
Examples

"href": "/restapis/o81lxisefl/gatewayresponses/INVALID_API_KEY"
},
"href": "/restapis/o81lxisefl/gatewayresponses/UNAUTHORIZED"
},
"href": "/restapis/o81lxisefl/gatewayresponses/API_CONFIGURATION_ERROR"
},
"href": "/restapis/o81lxisefl/gatewayresponses/QUOTA_EXCEEDED"
},
"href": "/restapis/o81lxisefl/gatewayresponses/INTEGRATION_TIMEOUT"
},
"href": "/restapis/o81lxisefl/gatewayresponses/MISSING_AUTHENTICATION_TOKEN"
},
"href": "/restapis/o81lxisefl/gatewayresponses/INVALID_SIGNATURE"
},
"href": "/restapis/o81lxisefl/gatewayresponses/AUTHORIZER_FAILURE"
},
"href": "/restapis/o81lxisefl/gatewayresponses/WAF_FILTERED"
]
},
"_embedded": {
"_item": [
{"
"_links": {
"self": {
"href": "/restapis/o81lxisefl/gatewayresponses/INTEGRATION_FAILURE"
},
"gatewayresponse:put": {
"href": "/restapis/o81lxisefl/gatewayresponses/{response_type}",
"templated": true
},
"gatewayresponse:update": {
"href": "/restapis/o81lxisefl/gatewayresponses/INTEGRATION_FAILURE"
}
},
"defaultResponse": true,
"responseParameters": {},
"responseTemplates": {
"application/json": "{\"message\":$context.error.messageString}\"
},
"responseType": "INTEGRATION_FAILURE",
"statusCode": "504"
},
{"
"_links": {
"self": {
"href": "/restapis/o81lxisefl/gatewayresponses/RESOURCE_NOT_FOUND"
},
"gatewayresponse:put": {
"href": "/restapis/o81lxisefl/gatewayresponses/{response_type}",
"templated": true
},
"gatewayresponse:update": {
"href": "/restapis/o81lxisefl/gatewayresponses/RESOURCE_NOT_FOUND"
}
},
"defaultResponse": true,
"responseParameters": {}}
"responseTemplates": {
    "application/json": "\"\"message\":$context.error.messageString\""
},
"responseType": "RESOURCE_NOT_FOUND",
"statusCode": "404"
},
{
    
    "_links": {
        "self": {
            "href": "/restapis/o81lxisefl/gatewayresponses/REQUEST_TOO_LARGE"
        },
        "gatewayresponse:put": {
            "href": "/restapis/o81lxisefl/gatewayresponses/{response_type}",
            "templated": true
        },
        "gatewayresponse:update": {
            "href": "/restapis/o81lxisefl/gatewayresponses/REQUEST_TOO_LARGE"
        }
    },
    "defaultResponse": true,
    "responseParameters": {},
    "responseTemplates": {
        "application/json": "\"\"message\":$context.error.messageString\""
    },
    "responseType": "REQUEST_TOO_LARGE",
    "statusCode": "413"
},
{
    
    "_links": {
        "self": {
            "href": "/restapis/o81lxisefl/gatewayresponses/THROTTLED"
        },
        "gatewayresponse:put": {
            "href": "/restapis/o81lxisefl/gatewayresponses/{response_type}",
            "templated": true
        },
        "gatewayresponse:update": {
            "href": "/restapis/o81lxisefl/gatewayresponses/THROTTLED"
        }
    },
    "defaultResponse": true,
    "responseParameters": {},
    "responseTemplates": {
        "application/json": "\"\"message\":$context.error.messageString\""
    },
    "responseType": "THROTTLED",
    "statusCode": "429"
},
{
    
    "_links": {
        "self": {
            "href": "/restapis/o81lxisefl/gatewayresponses/UNSUPPORTED_MEDIA_TYPE"
        },
        "gatewayresponse:put": {
            "href": "/restapis/o81lxisefl/gatewayresponses/{response_type}",
            "templated": true
        },
        "gatewayresponse:update": {
            "href": "/restapis/o81lxisefl/gatewayresponses/UNSUPPORTED_MEDIA_TYPE"
        }
    },
    "defaultResponse": true,
    "responseParameters": {},
    "responseTemplates": {
        "application/json": "\"\"message\":$context.error.messageString\""
    }
}
"responseType": "UNSUPPORTED_MEDIA_TYPE",
"statusCode": "415"
},
{
"_links": {
"self": {
"href": "/restapis/o81lxisefl/gatewayresponses/AUTHORIZER_CONFIGURATION_ERROR"
},
"gatewayresponse:put": {
"href": "/restapis/o81lxisefl/gatewayresponses/{response_type}",
"templated": true
},
"gatewayresponse:update": {
"href": "/restapis/o81lxisefl/gatewayresponses/AUTHORIZER_CONFIGURATION_ERROR"
}
},
"defaultResponse": true,
"responseParameters": {},
"responseTemplates": {
"application/json": "{"message":$context.error.messageString}"
},
"responseType": "AUTHORIZER_CONFIGURATION_ERROR",
"statusCode": "500"
},
{
"_links": {
"self": {
"href": "/restapis/o81lxisefl/gatewayresponses/DEFAULT_5XX"
},
"gatewayresponse:put": {
"href": "/restapis/o81lxisefl/gatewayresponses/{response_type}",
"templated": true
},
"gatewayresponse:update": {
"href": "/restapis/o81lxisefl/gatewayresponses/DEFAULT_5XX"
}
},
"defaultResponse": true,
"responseParameters": {},
"responseTemplates": {
"application/json": "{"message":$context.error.messageString}"
},
"responseType": "DEFAULT_5XX"
},
{
"_links": {
"self": {
"href": "/restapis/o81lxisefl/gatewayresponses/DEFAULT_4XX"
},
"gatewayresponse:put": {
"href": "/restapis/o81lxisefl/gatewayresponses/{response_type}",
"templated": true
},
"gatewayresponse:update": {
"href": "/restapis/o81lxisefl/gatewayresponses/DEFAULT_4XX"
}
},
"defaultResponse": true,
"responseParameters": {},
"responseTemplates": {
"application/json": "{"message":$context.error.messageString}"
},
"responseType": "DEFAULT_4XX"
},
{
"_links": {
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"gatewayresponse:put": {
    "href": "/restapis/o81lxisefl/gatewayresponses/{response_type}"
},
"gatewayresponse:update": {
    "href": "/restapis/o81lxisefl/gatewayresponses/ACCESS_DENIED"
},
"defaultResponse": true,
"responseParameters": {},
"responseTemplates": {
    "application/json": "{"message":"$context.error.messageString}"},
"responseType": "ACCESS_DENIED",
"statusCode": "403"
},

"_links": {
    "self": {
        "href": "/restapis/o81lxisefl/gatewayresponses/INVALID_API_KEY"
    },
    "gatewayresponse:put": {
        "href": "/restapis/o81lxisefl/gatewayresponses/{response_type}"
    },
    "gatewayresponse:update": {
        "href": "/restapis/o81lxisefl/gatewayresponses/INVALID_API_KEY"
    },
    "defaultResponse": true,
    "responseParameters": {},
    "responseTemplates": {
        "application/json": "{"message":"$context.error.messageString}"},
    "responseType": "INVALID_API_KEY",
    "statusCode": "403"
},

"_links": {
    "self": {
        "href": "/restapis/o81lxisefl/gatewayresponses/UNAUTHORIZED"
    },
    "gatewayresponse:put": {
        "href": "/restapis/o81lxisefl/gatewayresponses/{response_type}"
    },
    "gatewayresponse:update": {
        "href": "/restapis/o81lxisefl/gatewayresponses/UNAUTHORIZED"
    },
    "defaultResponse": true,
    "responseParameters": {},
    "responseTemplates": {
        "application/json": "{"message":"$context.error.messageString}"},
    "responseType": "UNAUTHORIZED",
    "statusCode": "401"
},

"_links": {
    "self": {
        "href": "/restapis/o81lxisefl/gatewayresponses/API_CONFIGURATION_ERROR"
    },
    "gatewayresponse:put": {
        "href": "/restapis/o81lxisefl/gatewayresponses/{response_type}"
    },
    "gatewayresponse:update": {
        "href": "/restapis/o81lxisefl/gatewayresponses/API_CONFIGURATION_ERROR"
    },
    "defaultResponse": true,
    "responseParameters": {},
    "responseTemplates": {
        "application/json": "{"message":"$context.error.messageString}"},
    "responseType": "API_CONFIGURATION_ERROR",
    "statusCode": "500"
}
"gatewayresponse:update": {
  "href": "/restapis/o81lxisefl/gatewayresponses/API_CONFIGURATION_ERROR"
},
"defaultResponse": true,
"responseParameters": {},
"responseTemplates": {
  "application/json": "{\"message\":$context.error.messageString}"
},
"responseType": "API_CONFIGURATION_ERROR",
"statusCode": "500"
},
{
  "_links": {
    "self": {
      "href": "/restapis/o81lxisefl/gatewayresponses/QUOTA_EXCEEDED"
    },
    "gatewayresponse:put": {
      "href": "/restapis/o81lxisefl/gatewayresponses/{response_type}",
      "templated": true
    },
    "gatewayresponse:update": {
      "href": "/restapis/o81lxisefl/gatewayresponses/QUOTA_EXCEEDED"
    }
  },
  "defaultResponse": true,
  "responseParameters": {},
  "responseTemplates": {
    "application/json": "{\"message\":$context.error.messageString}"
  },
  "responseType": "QUOTA_EXCEEDED",
  "statusCode": "429"
},
{
  "_links": {
    "self": {
      "href": "/restapis/o81lxisefl/gatewayresponses/INTEGRATION_TIMEOUT"
    },
    "gatewayresponse:put": {
      "href": "/restapis/o81lxisefl/gatewayresponses/{response_type}",
      "templated": true
    },
    "gatewayresponse:update": {
      "href": "/restapis/o81lxisefl/gatewayresponses/INTEGRATION_TIMEOUT"
    }
  },
  "defaultResponse": true,
  "responseParameters": {},
  "responseTemplates": {
    "application/json": "{\"message\":$context.error.messageString}"
  },
  "responseType": "INTEGRATION_TIMEOUT",
  "statusCode": "504"
},
{
  "_links": {
    "self": {
      "href": "/restapis/o81lxisefl/gatewayresponses/MISSING_AUTHENTICATION_TOKEN"
    },
    "gatewayresponse:put": {
      "href": "/restapis/o81lxisefl/gatewayresponses/{response_type}",
      "templated": true
    },
    "gatewayresponse:update": {
      "href": "/restapis/o81lxisefl/gatewayresponses/MISSING_AUTHENTICATION_TOKEN"
    }
  },
  "defaultResponse": true,
  "responseParameters": {},
  "responseTemplates": {
    "application/json": "{\"message\":$context.error.messageString}"
  },
  "responseType": "MISSING_AUTHENTICATION_TOKEN",
  "statusCode": "401"
"defaultResponse": true,
"responseParameters": {},
"responseTemplates": {
  "application/json": "{"message":$context.error.messageString}"
},
"responseType": "MISSING_AUTHENTICATION_TOKEN",
"statusCode": "403"
},
{
  "_links": {
    "self": {
      "href": "/restapis/o81lxisefl/gatewayresponses/INVALID_SIGNATURE"
    },
    "gatewayresponse:put": {
      "href": "/restapis/o81lxisefl/gatewayresponses/{response_type}"
    },
    "gatewayresponse:update": {
      "href": "/restapis/o81lxisefl/gatewayresponses/INVALID_SIGNATURE"
    }
  },
  "defaultResponse": true,
  "responseParameters": {},
  "responseTemplates": {
    "application/json": "{"message":$context.error.messageString}"
  },
  "responseType": "INVALID_SIGNATURE",
  "statusCode": "403"
},
{
  "_links": {
    "self": {
      "href": "/restapis/o81lxisefl/gatewayresponses/AUTHORIZER_FAILURE"
    },
    "gatewayresponse:put": {
      "href": "/restapis/o81lxisefl/gatewayresponses/{response_type}"
    },
    "gatewayresponse:update": {
      "href": "/restapis/o81lxisefl/gatewayresponses/AUTHORIZER_FAILURE"
    }
  },
  "defaultResponse": true,
  "responseParameters": {},
  "responseTemplates": {
    "application/json": "{"message":$context.error.messageString}"
  },
  "responseType": "AUTHORIZER_FAILURE",
  "statusCode": "500"
},
{
  "_links": {
    "self": {
      "href": "/restapis/o81lxisefl/gatewayresponses/WAF_FILTERED"
    },
    "gatewayresponse:put": {
      "href": "/restapis/o81lxisefl/gatewayresponses/{response_type}"
    },
    "gatewayresponse:update": {
      "href": "/restapis/o81lxisefl/gatewayresponses/WAF_FILTERED"
    }
  },
  "defaultResponse": true,
"responseParameters": {},
"responseTemplates": {
    "application/json": "\"message\":\$context.error.messageString\"
},
"responseType": "WAF_FILTERED",
"statusCode": "403"
}
}

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](#)
GetIntegration

Get the integration settings.

**Request Syntax**

```plaintext
GET /restapis/restapi_id/resources/resource_id/methods/http_method/integration HTTP/1.1
```

**URI Request Parameters**

The request uses the following URI parameters.

**http_method (p. 206)**

Specifies a get integration request's HTTP method.

Required: Yes

**resource_id (p. 206)**

Specifies a get integration request's resource identifier

Required: Yes

**restapi_id (p. 206)**

The string identifier of the associated RestApi.

Required: Yes

**Request Body**

The request does not have a request body.

**Response Syntax**

```plaintext
HTTP/1.1 200
Content-type: application/json

{
    "cacheKeyParameters": [ "string" ],
    "cacheNamespace": "string",
    "connectionId": "string",
    "connectionType": "string",
    "contentHandling": "string",
    "credentials": "string",
    "httpMethod": "string",
    "integrationResponses": {
        "string": {
            "contentHandling": "string",
            "responseParameters": {
                "string": "string"
            },
            "responseTemplates": {
                "string": "string"
            },
            "selectionPattern": "string"
        }
    }
}
```

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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.

cacheKeyParameters (p. 206)

A list of request parameters whose values API Gateway caches. To be valid values for cacheKeyParameters, these parameters must also be specified for Method requestParameters.

Type: Array of strings

cacheNamespace (p. 206)

Specifies a group of related cached parameters. By default, API Gateway uses the resource ID as the cacheNamespace. You can specify the same cacheNamespace across resources to return the same cached data for requests to different resources.

Type: String

collectionId (p. 206)

The ID of the VpcLink used for the integration when connectionType=VPC_LINK and undefined, otherwise.

Type: String

connectionType (p. 206)

The type of the network connection to the integration endpoint. The valid value is INTERNET for connections through the public routable internet or VPC_LINK for private connections between API Gateway and a network load balancer in a VPC. The default value is INTERNET.

Type: String

Valid Values: INTERNET | VPC_LINK

contentHandling (p. 206)

Specifies how to handle request payload content type conversions. Supported values are CONVERT_TO_BINARY and CONVERT_TO_TEXT, with the following behaviors:

If this property is not defined, the request payload will be passed through from the method request to integration request without modification, provided that the passthroughBehavior is configured to support payload pass-through.
Response Elements

Type: String

Valid Values: CONVERT_TO_BINARY | CONVERT_TO_TEXT

credentials (p. 206)

Specifies the credentials required for the integration, if any. For AWS integrations, three options are available. To specify an IAM Role for API Gateway to assume, use the role's Amazon Resource Name (ARN). To require that the caller's identity be passed through from the request, specify the string arn:aws:iam::*:user/*. To use resource-based permissions on supported AWS services, specify null.

Type: String

httpMethod (p. 206)

Specifies the integration's HTTP method type. For the Type property, if you specify MOCK, this property is optional. For Lambda integrations, you must set the integration method to POST. For all other types, you must specify this property.

Type: String

integrationResponses (p. 206)

Specifies the integration's responses.

Type: String to IntegrationResponse (p. 506) object map

passthroughBehavior (p. 206)

Specifies how the method request body of an unmapped content type will be passed through the integration request to the back end without transformation. A content type is unmapped if no mapping template is defined in the integration or the content type does not match any of the mapped content types, as specified in requestTemplates. The valid value is one of the following: WHEN_NO_MATCH: passes the method request body through the integration request to the back end without transformation when the method request content type does not match any content type associated with the mapping templates defined in the integration request. WHEN_NO_TEMPLATES: passes the method request body through the integration request to the back end without transformation when no mapping template is defined in the integration request. If a template is defined when this option is selected, the method request of an unmapped content-type will be rejected with an HTTP 415 Unsupported Media Type response. NEVER: rejects the method request with an HTTP 415 Unsupported Media Type response when either the method request content type does not match any content type associated with the mapping templates defined in the integration request or no mapping template is defined in the integration request.

Type: String

requestParameters (p. 206)

A key-value map specifying request parameters that are passed from the method request to the back end. The key is an integration request parameter name and the associated value is a method request parameter value or static value that must be enclosed within single quotes and pre-encoded as required by the back end. The method request parameter value must match the pattern of method.request.{location}.{name}, where location is querystring, path, or header and name must be a valid and unique method request parameter name.

Type: String to string map

requestTemplates (p. 206)

Represents a map of Velocity templates that are applied on the request payload based on the value of the Content-Type header sent by the client. The content type value is the key in this map, and the template (as a String) is the value.

Type: String to string map
timeoutInMillis (p. 206)

Custom timeout between 50 and 29,000 milliseconds. The default value is 29,000 milliseconds or 29 seconds.

Type: Integer

tlsConfig (p. 206)

Specifies the TLS configuration for an integration.

Type: TlsConfig (p. 533) object

type (p. 206)

Specifies an API method integration type. The valid value is one of the following:

For the HTTP and HTTP proxy integrations, each integration can specify a protocol (http/https), port and path. Standard 80 and 443 ports are supported as well as custom ports above 1024. An HTTP or HTTP proxy integration with a connectionType of VPC_LINK is referred to as a private integration and uses a VpcLink to connect API Gateway to a network load balancer of a VPC.

Type: String

Valid Values: HTTP | AWS | MOCK | HTTP_PROXY | AWS_PROXY

uri (p. 206)

Specifies Uniform Resource Identifier (URI) of the integration endpoint.

For HTTP or HTTP_PROXY integrations, the URI must be a fully formed, encoded HTTP(S) URL according to the RFC-3986 specification for standard integrations. If connectionType is VPC_LINK specify the Network Load Balancer DNS name. For AWS or AWS_PROXY integrations, the URI is of the form arn:aws:apigateway:{region}:{subdomain.service|service}:path|action/{service_api}. Here, {Region} is the API Gateway region (e.g., us-east-1); {service} is the name of the integrated AWS service (e.g., s3); and {subdomain} is a designated subdomain supported by certain AWS service for fast host-name lookup. action can be used for an AWS service action-based API, using an Action={name}&{p1}={v1}&p2={v2}... query string. The ensuing {service_api} refers to a supported action {name} plus any required input parameters. Alternatively, path can be used for an AWS service path-based API. The ensuing service_api refers to the path to an AWS service resource, including the region of the integrated AWS service, if applicable. For example, for integration with the S3 API of GetObject, the uri can be either arn:aws:apigateway:us-west-2:s3:action/GetObject&Bucket={bucket}&Key={key} or arn:aws:apigateway:us-west-2:s3:path/{bucket}/{key}

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors (p. 541).

BadRequestException

The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.

HTTP Status Code: 400

NotFoundException

The requested resource is not found. Make sure that the request URI is correct.

HTTP Status Code: 404
TooManyRequestsException

The request has reached its throttling limit. Retry after the specified time period.

HTTP Status Code: 429

UnauthorizedException

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401

Examples

Retrieve information about an Integration

This example illustrates one usage of GetIntegration.

Sample Request

```
GET /restapis/uojnr9hd57/resources/0cjtch/methods/GET/integration HTTP/1.1
Content-Type: application/json
Host: apigateway.us-east-1.amazonaws.com
Content-Length: 117
X-Amz-Date: 20160613T213210Z
Authorization: AWS4-HMAC-SHA256 Credential={access_key_ID}/20160613/us-east-1/apigateway/aws4_request, SignedHeaders=content-type;host;x-amz-date, Signature={sig4_hash}
```

Sample Response

```
{
  "_links": {
    "curies": [
      {
        "href": "https://docs.aws.amazon.com/apigateway/latest/developerguide/restapi-integration-{rel}.html",
        "name": "integration",
        "templated": true
      },
      {
        "name": "integrationresponse",
        "templated": true
      }
    ],
    "self": {
      "href": "/restapis/uojnr9hd57/resources/0cjtch/methods/GET/integration"
    },
    "integration:delete": {
      "href": "/restapis/uojnr9hd57/resources/0cjtch/methods/GET/integration"
    },
    "integration:responses": {
      "href": "/restapis/uojnr9hd57/resources/0cjtch/methods/GET/integration/responses/200",
      "name": "200",
      "title": "200"
    },
    "integration:update": {
      "href": "/restapis/uojnr9hd57/resources/0cjtch/methods/GET/integration"
    }
  }
}```
"integrationresponse:put": {
  "href": "/restapis/uojnr9hd57/resources/0cjtch/methods/GET/integration/responses/{status_code}",
  "templated": true
}
},
"cacheKeyParameters": [],
"cacheNamespace": "0cjtch",
"credentials": "arn:aws:iam::123456789012:role/apigAwsProxyRole",
"httpMethod": "POST",
"passthroughBehavior": "WHEN_NO_MATCH",
"requestTemplates": {
  "application/json": "{"a": "$input.params('operand1')", "b": "$input.params('operand2')", "op": "$input.params('operator')"}
},
"type": "AWS",
"_embedded": {
  "integration:responses": {
    "_links": {
      "self": {
        "href": "/restapis/uojnr9hd57/resources/0cjtch/methods/GET/integration/responses/200",
        "name": "200",
        "title": "200"
      },
      "integrationresponse:delete": {
        "href": "/restapis/uojnr9hd57/resources/0cjtch/methods/GET/integration/responses/200"
      },
      "integrationresponse:update": {
        "href": "/restapis/uojnr9hd57/resources/0cjtch/methods/GET/integration/responses/200"
      }
    },
    "responseParameters": {
      "method.response.header.operator": "integration.response.body.op",
      "method.response.header.operand_2": "integration.response.body.b",
      "method.response.header.operand_1": "integration.response.body.a"
    },
    "responseTemplates": {
      "application/json": "#set($res = $input.path('$'))\n{"\n  \"result\": "$res.a, $res.b, $res.op => $res.c",
  \"a\": "$res.a",
  \"b\": "$res.b",
  \"op\": "$res.op",
  \"c\": "$res.c"\n}"
    },
    "selectionPattern": ",",
    "statusCode": "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
GetIntegrationResponse

Represents a get integration response.

Request Syntax

GET /restapis/restapi_id/resources/resource_id/methods/http_method/integration/responses/status_code HTTP/1.1

URI Request Parameters

The request uses the following URI parameters.

http_method (p. 213)

Specifies a get integration response request's HTTP method.

Required: Yes

resource_id (p. 213)

Specifies a get integration response request's resource identifier.

Required: Yes

restapi_id (p. 213)

The string identifier of the associated RestApi.

Required: Yes

status_code (p. 213)

Specifies a get integration response request's status code.

Pattern: [1-5]\d\d

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

HTTP/1.1 200
Content-type: application/json

{
    "contentHandling": "string",
    "responseParameters": {
        "string": "string"
    },
    "responseTemplates": {
        "string": "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.

**contentHandling (p. 213)**

Specifies how to handle response payload content type conversions. Supported values are CONVERT_TO_BINARY and CONVERT_TO_TEXT, with the following behaviors:

If this property is not defined, the response payload will be passed through from the integration response to the method response without modification.

Type: String

Valid Values: CONVERT_TO_BINARY | CONVERT_TO_TEXT

**responseParameters (p. 213)**

A key-value map specifying response parameters that are passed to the method response from the back end. The key is a method response header parameter name and the mapped value is an integration response header value, a static value enclosed within a pair of single quotes, or a JSON expression from the integration response body. The mapping key must match the pattern of method.response.header.{name}, where name is a valid and unique header name. The mapped non-static value must match the pattern of integration.response.header.{name} or integration.response.body.{JSON-expression}, where name is a valid and unique response header name and JSON-expression is a valid JSON expression without the $ prefix.

Type: String to string map

**responseTemplates (p. 213)**

Specifies the templates used to transform the integration response body. Response templates are represented as a key/value map, with a content-type as the key and a template as the value.

Type: String to string map

**selectionPattern (p. 213)**

Specifies the regular expression (regex) pattern used to choose an integration response based on the response from the back end. For example, if the success response returns nothing and the error response returns some string, you could use the .+ regex to match error response. However, make sure that the error response does not contain any newline (\n) character in such cases. If the back end is an AWS Lambda function, the AWS Lambda function error header is matched. For all other HTTP and AWS back ends, the HTTP status code is matched.

Type: String

**statusCode (p. 213)**

Specifies the status code that is used to map the integration response to an existing MethodResponse.

Type: String

Pattern: [1-5]\d\d
Errors

For information about the errors that are common to all actions, see Common Errors (p. 541).

**BadRequestException**

The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.

HTTP Status Code: 400

**NotFoundException**

The requested resource is not found. Make sure that the request URI is correct.

HTTP Status Code: 404

**TooManyRequestsException**

The request has reached its throttling limit. Retry after the specified time period.

HTTP Status Code: 429

**UnauthorizedException**

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401

Examples

Get integration responses of a method

This example illustrates one usage of GetIntegrationResponse.

**Sample Request**

```plaintext
GET /restapis/fugvjdxtri/resources/3kzxbg5sa2/methods/GET/integration/responses/200
HTTP/1.1
Content-Type: application/json
Host: apigateway.us-east-1.amazonaws.com
X-Amz-Date: 20160607T191449Z
Authorization: AWS4-HMAC-SHA256 Credential={access_key_ID}/20160607/us-east-1/apigateway/aws4_request, SignedHeaders=content-type;host;x-amz-date, Signature={sig4_hash}
```

**Sample Response**

```json
{
  "_links": {
    "curies": {
      "name": "integrationresponse",
      "templated": true
    },
    "self": {
      "href": "/restapis/fugvjdxtri/resources/3kzxbg5sa2/methods/GET/integration/responses/200",
      "title": "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](#)
GetMethod

Describe an existing Method resource.

Request Syntax

GET /restapis/restapi_id/resources/resource_id/methods/http_method HTTP/1.1

URI Request Parameters

The request uses the following URI parameters.

**http_method (p. 217)**

Specifies the method request's HTTP method type.

Required: Yes

**resource_id (p. 217)**

The Resource identifier for the Method resource.

Required: Yes

**restapi_id (p. 217)**

The string identifier of the associated RestApi.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

HTTP/1.1 200
Content-type: application/json

```json
{
"apiKeyRequired": boolean,
"authorizationScopes": [ "string" ],
"authorizationType": "string",
"authorizerId": "string",
"httpMethod": "string",
"methodIntegration": {
  "cacheKeyParameters": [ "string" ],
  "cacheNamespace": "string",
  "connectionId": "string",
  "connectionType": "string",
  "contentHandling": "string",
  "credentials": "string",
  "httpMethod": "string",
  "integrationResponses": {
    "string": {
      "contentHandling": "string",
      "ResponseParameters": {
        "string": "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.

**apiKeyRequired (p. 217)**

A boolean flag specifying whether a valid ApiKey is required to invoke this method.

Type: Boolean

**authorizationScopes (p. 217)**

A list of authorization scopes configured on the method. The scopes are used with a COGNITO_USER_POOLS authorizer to authorize the method invocation. The authorization works by matching the method scopes against the scopes parsed from the access token in the incoming request. The method invocation is authorized if any method scopes matches a claimed scope in the access token. Otherwise, the invocation is not authorized. When the method scope is configured, the client must provide an access token instead of an identity token for authorization purposes.
Type: Array of strings

**authorizationType (p. 217)**

The method's authorization type. Valid values are NONE for open access, AWS_IAM for using AWS IAM permissions, CUSTOM for using a custom authorizer, or COGNITO_USER_POOLS for using a Cognito user pool.

Type: String

**authorizerId (p. 217)**

The identifier of an authorizer to use on this method. The method's authorization type must be CUSTOM or COGNITO_USER_POOLS.

Type: String

**httpMethod (p. 217)**

The method's HTTP verb.

Type: String

**methodIntegration (p. 217)**

Gets the method's integration responsible for passing the client-submitted request to the back end and performing necessary transformations to make the request compliant with the back end.

Type: Integration (p. 502) object

**methodResponses (p. 217)**

Gets a method response associated with a given HTTP status code.

Type: String to MethodResponse (p. 511) object map

**operationName (p. 217)**

A human-friendly operation identifier for the method. For example, you can assign the operationName of ListPets for the GET /pets method in the PetStore example.

Type: String

**requestModels (p. 217)**

A key-value map specifying data schemas, represented by Model resources, (as the mapped value) of the request payloads of given content types (as the mapping key).

Type: String to string map

**requestParameters (p. 217)**

A key-value map defining required or optional method request parameters that can be accepted by API Gateway. A key is a method request parameter name matching the pattern of method.request.{location}.{name}, where location is querystring, path, or header and name is a valid and unique parameter name. The value associated with the key is a Boolean flag indicating whether the parameter is required (true) or optional (false). The method request parameter names defined here are available in Integration to be mapped to integration request parameters or templates.

Type: String to boolean map

**requestValidatorId (p. 217)**

The identifier of a RequestValidator for request validation.

Type: String
Errors

For information about the errors that are common to all actions, see Common Errors (p. 541).

**NotFoundException**

The requested resource is not found. Make sure that the request URI is correct.

HTTP Status Code: 404

**TooManyRequestsException**

The request has reached its throttling limit. Retry after the specified time period.

HTTP Status Code: 429

**UnauthorizedException**

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401

Examples

View the detailed information about the GET method on an API resource

This example illustrates one usage of GetMethod.

**Sample Request**

```bash
GET /restapis/uojnt9hd57/resources/0cjtc8h/methods/GET HTTP/1.1
Content-Type: application/json
Host: apigateway.us-east-1.amazonaws.com
Content-Length: 117
X-Amz-Date: 20160613T205752Z
Authorization: AWS4-HMAC-SHA256 Credential={access_key_ID}/20160613/us-east-1/apigateway/aws4_request, SignedHeaders=content-type;host;x-amz-date, Signature={sig4_hash}
```

**Sample Response**

```json
{
   "_links": {
      "curies": [
         {
            "href": "https://docs.aws.amazon.com/apigateway/latest/developerguide/restapi-integration-{rel}.html",
            "name": "integration",
            "templated": true
         },
         {
            "name": "integrationresponse",
            "templated": true
         },
         {
            "href": "https://docs.aws.amazon.com/apigateway/latest/developerguide/restapi-method-{rel}.html",
            "name": "method",
            "templated": true
         }
      ]
   }
}
```
"templated": true
},
"cacheKeyParameters": [],
"cacheNamespace": "0cjtch",
"credentials": "arn:aws:iam::123456789012:role/apigAwsProxyRole",
"httpMethod": "POST",
"passThroughBehavior": "WHEN_NO_MATCH",
"requestTemplates": {
"application/json": "{"a": "$input.params('operand1')"}, {"b": "$input.params('operand2')"}, {"op": "$input.params('operator')"}
},
"type": "AWS",
"_embedded": {
"integration:responses": {
"_links": {
"href": "/restapis/uojnr9hd57/resources/0cjtch/methods/GET/integration/responses/200",
"name": "200",
"title": "200"
},
"integrationresponse:delete": {
"href": "/restapis/uojnr9hd57/resources/0cjtch/methods/GET/integration/responses/200"
},
"integrationresponse:update": {
"href": "/restapis/uojnr9hd57/resources/0cjtch/methods/GET/integration/responses/200"
}
},
"responseParameters": {
"method.response.header.operator": "integration.response.body.op",
"method.response.header.operand_2": "integration.response.body.b",
"method.response.header.operand_1": "integration.response.body.a"
},
"responseTemplates": {
"application/json": "#set($res = $input.path('$'))\n{\n  "result": "$res.a, $res.b, $res.op => $res.c",
  "a" : "$res.a",
  "b" : "$res.b",
  "op" : "$res.op",
  "c" : "$res.c"
}"}
"selectionPattern": "",
"statusCode": "200"
}.
"method:responses": {
"_links": {
"self": {
"href": "/restapis/uojnr9hd57/resources/0cjtch/methods/GET/responses/200",
"name": "200",
"title": "200"
},
"methodresponse:delete": {
"href": "/restapis/uojnr9hd57/resources/0cjtch/methods/GET/responses/200"
},
"methodresponse:update": {
"href": "/restapis/uojnr9hd57/resources/0cjtch/methods/GET/responses/200"
}
},
"responseModels": {
"application/json": "Empty"
},
"responseParameters": {
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
GetMethodResponse

Describes a MethodResponse resource.

Request Syntax

GET /restapis/restapi_id/resources/resource_id/methods/http_method/responses/status_code
HTTP/1.1

URI Request Parameters

The request uses the following URI parameters.

http_method (p. 224)
The HTTP verb of the Method resource.
Required: Yes

resource_id (p. 224)
The Resource identifier for the MethodResponse resource.
Required: Yes

restapi_id (p. 224)
The string identifier of the associated RestApi.
Required: Yes

status_code (p. 224)
The status code for the MethodResponse resource.
Pattern: [1-5]\d\d
Required: Yes

Request Body

The request does not have a request body.

Response Syntax

HTTP/1.1 200
Content-type: application/json

{
  "responseModels": {
    "string": "string"
  },
  "responseParameters": {
    "string": boolean
  },
  "statusCode": "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.

**responseModels (p. 224)**

Specifies the Model resources used for the response's content-type. Response models are represented as a key/value map, with a content-type as the key and a Model name as the value.

Type: String to string map

**responseParameters (p. 224)**

A key-value map specifying required or optional response parameters that API Gateway can send back to the caller. A key defines a method response header and the value specifies whether the associated method response header is required or not. The expression of the key must match the pattern `method.response.header.{name}`, where `name` is a valid and unique header name. API Gateway passes certain integration response data to the method response headers specified here according to the mapping you prescribe in the API's IntegrationResponse. The integration response data that can be mapped include an integration response header expressed in `integration.response.header.{name}`, a static value enclosed within a pair of single quotes (e.g., `'application/json'`), or a JSON expression from the back-end response payload in the form of `integration.response.body.{JSON-expression}`, where `JSON-expression` is a valid JSON expression without the `$` prefix.)

Type: String to boolean map

**statusCode (p. 224)**

The method response's status code.

Type: String

Pattern: `[1-5]\d\d`

Errors

For information about the errors that are common to all actions, see [Common Errors (p. 541)].

**NotFoundException**

The requested resource is not found. Make sure that the request URI is correct.

HTTP Status Code: 404

**TooManyRequestsException**

The request has reached its throttling limit. Retry after the specified time period.

HTTP Status Code: 429

**UnauthorizedException**

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401
Examples

Get a 200 OK response of a GET method

This example illustrates one usage of GetMethodResponse.

Sample Request

GET /restapis/uojnr9hd57/resources/0cjtch/methods/GET/responses/200 HTTP/1.1
Content-Type: application/json
Host: apigateway.us-east-1.amazonaws.com
Content-Length: 117
X-Amz-Date: 20160613T215008Z
Authorization: AWS4-HMAC-SHA256 Credential={access_key_ID}/20160613/us-east-1/apigateway/
aws4_request, SignedHeaders=content-type;host;x-amz-date, Signature={sig4_hash}

Sample Response

{
   "_links": {
      "curies": {
         "href": "https://docs.aws.amazon.com/apigateway/latest/developerguide/restapi-method-
response-{rel}.html",
         "name": "methodresponse",
         "templated": true
      },
      "self": {
         "href": "/restapis/uojnr9hd57/resources/0cjtch/methods/GET/responses/200",
         "title": "200"
      },
      "methodresponse:delete": {
         "href": "/restapis/uojnr9hd57/resources/0cjtch/methods/GET/responses/200"
      },
      "methodresponse:update": {
         "href": "/restapis/uojnr9hd57/resources/0cjtch/methods/GET/responses/200"
      },
      "responseModels": {
         "application/json": "Empty"
      },
      "responseParameters": {
         "method.response.header.operator": false,
         "method.response.header.operand_2": false,
         "method.response.header.operand_1": false
      },
      "statusCode": "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
See Also

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

Describes an existing model defined for a RestApi resource.

Request Syntax

GET /restapis/restapi_id/models/model_name?flatten=flatten HTTP/1.1

URI Request Parameters

The request uses the following URI parameters.

flatten (p. 228)
A query parameter of a Boolean value to resolve (true) all external model references and returns a flattened model schema or not (false) The default is false.

model_name (p. 228)
The name of the model as an identifier.
Required: Yes

restapi_id (p. 228)
The RestApi identifier under which the Model exists.
Required: Yes

Request Body
The request does not have a request body.

Response Syntax

HTTP/1.1 200
Content-type: application/json
{
    "contentType": "string",
    "description": "string",
    "id": "string",
    "name": "string",
    "schema": "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.

contentType (p. 228)
The content-type for the model.
Type: String
description (p. 228)

The description of the model.

Type: String

id (p. 228)

The identifier for the model resource.

Type: String

name (p. 228)

The name of the model. Must be an alphanumeric string.

Type: String

schema (p. 228)

The schema for the model. For application/json models, this should be JSON schema draft 4 model. Do not include "\*/" characters in the description of any properties because such "\*/" characters may be interpreted as the closing marker for comments in some languages, such as Java or JavaScript, causing the installation of your API's SDK generated by API Gateway to fail.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors (p. 541).

BadRequestException

The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.

HTTP Status Code: 400

NotFoundException

The requested resource is not found. Make sure that the request URI is correct.

HTTP Status Code: 404

TooManyRequestsException

The request has reached its throttling limit. Retry after the specified time period.

HTTP Status Code: 429

UnauthorizedException

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401

Examples

Retrieve a named Model resource representing an API data model

This example illustrates one usage of GetModel.
Sample Request

```
GET /restapis/uojnr9hd57/models/output HTTP/1.1
Content-Type: application/x-amz-json-1.1
Host: apigateway.us-east-1.amazonaws.com
X-Amz-Date: 20160614T000826Z
Authorization: AWS4-HMAC-SHA256 Credential={access_key_ID}/20160614/us-east-1/apigateway/
aws4_request, SignedHeaders=content-type;host;x-amz-date, Signature={sig4_hash}
```

Sample Response

```
{
    "_links": {
        "curies": {
            "href": "https://docs.aws.amazon.com/apigateway/latest/developerguide/restapi-model-
{rel}.html",
            "name": "model",
            "templated": true
        },
        "self": {
            "href": "/restapis/uojnr9hd57/models/output?flatten=false"
        },
        "model:create": {
            "href": "/restapis/uojnr9hd57/models"
        },
        "model:delete": {
            "href": "/restapis/uojnr9hd57/models/output"
        },
        "model:generate-template": {
            "href": "/restapis/uojnr9hd57/models/output/default_template"
        },
        "model:update": {
            "href": "/restapis/uojnr9hd57/models/output"
        }
    },
    "contentType": "application/json",
    "id": "hkhn0z",
    "name": "output",
    "schema": "{"title": "Calc output", "object": {"properties ": {"a": {"type": "number"}, "b": {"type": "number"}, "op": {"description": "operations of +,-,*,/"}, "c": {"type": "number"}}}}
```

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
GetModels

Describes existing Models defined for a RestApi resource.

Request Syntax

GET /restapis/restapi_id/models?limit=limit&position=position HTTP/1.1

URI Request Parameters

The request uses the following URI parameters.

limit (p. 232)

The maximum number of returned results per page. The default value is 25 and the maximum value is 500.

position (p. 232)

The current pagination position in the paged result set.

restapi_id (p. 232)

The string identifier of the associated RestApi.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

HTTP/1.1 200
Content-type: application/json

{
    "item": [
        {
            "contentType": "string",
            "description": "string",
            "id": "string",
            "name": "string",
            "schema": "string"
        }
    ],
    "position": "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.
**item (p. 232)**

The current page of elements from this collection.

Type: Array of [Model (p. 515)] objects

**position (p. 232)**

The current pagination position in the paged result set.

Type: String

---

**Errors**

For information about the errors that are common to all actions, see [Common Errors (p. 541)].

**BadRequestException**

The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.

HTTP Status Code: 400

**NotFoundException**

The requested resource is not found. Make sure that the request URI is correct.

HTTP Status Code: 404

**TooManyRequestsException**

The request has reached its throttling limit. Retry after the specified time period.

HTTP Status Code: 429

**UnauthorizedException**

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401

---

**Examples**

**Get the collection of models defined for an API**

This example illustrates one usage of GetModels.

**Sample Request**

```bash
GET /restapis/l9kujxkzq2/models HTTP/1.1
Content-Type: application/json
Host: apigateway.us-east-1.amazonaws.com
Content-Length: 60
X-Amz-Date: 20170223T172652Z
Authorization: AWS4-HMAC-SHA256 Credential={access_key_ID}/20170223/us-east-1/apigateway/aws4_request, SignedHeaders=content-type;host;x-amz-date, Signature={sig4_hash}
```

**Sample Response**

```json
{
}
```
"_links": {
  "curies": {
    "href": "https://docs.aws.amazon.com/apigateway/latest/developerguide/restapi-model-{rel}.html",
    "name": "model",
    "templated": true
  },
  "self": {
    "href": "/restapis/l9kujxkjzq2/models"
  },
  "item": [
    {
      "href": "/restapis/l9kujxkjzq2/models/Empty?flatten=false"
    },
    {
      "href": "/restapis/l9kujxkjzq2/models/Error?flatten=false"
    }
  ],
  "model:by-name": {
    "href": "/restapis/l9kujxkjzq2/models/{model_name}?flatten=false",
    "templated": true
  }
},
"_embedded": {
  "item": [
    {
      "_links": {
        "self": {
          "href": "/restapis/l9kujxkjzq2/models/Empty?flatten=false"
        },
        "model:create": {
          "href": "/restapis/l9kujxkjzq2/models"
        },
        "model:delete": {
          "href": "/restapis/l9kujxkjzq2/models/Empty"
        },
        "model:generate-template": {
          "href": "/restapis/l9kujxkjzq2/models/Empty/default_template"
        },
        "model:update": {
          "href": "/restapis/l9kujxkjzq2/models/Empty"
        }
      },
      "contentType": "application/json",
      "description": "This is a default empty schema model",
      "id": "71l0yh",
      "name": "Empty",
      "schema": "{\n          "$schema": "http://json-schema.org/draft-04/schema#",
          "title": "Empty Schema",
          "type": "object"
        }"
    }
  ]
}
"See Also"
GetModelTemplate

Generates a sample mapping template that can be used to transform a payload into the structure of a model.

Request Syntax

GET /restapis/restapi_id/models/model_name/default_template HTTP/1.1

URI Request Parameters

The request uses the following URI parameters.

model_name (p. 236)

The name of the model for which to generate a template.

Required: Yes

restapi_id (p. 236)

The string identifier of the associated RestApi.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

HTTP/1.1 200
Content-type: application/json

{
"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.

value (p. 236)

The Apache Velocity Template Language (VTI) template content used for the template resource.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors (p. 541).
BadRequestException

The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.

HTTP Status Code: 400

NotFoundException

The requested resource is not found. Make sure that the request URI is correct.

HTTP Status Code: 404

TooManyRequestsException

The request has reached its throttling limit. Retry after the specified time period.

HTTP Status Code: 429

UnauthorizedException

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401

Examples

Generate the sample template from a model

This example illustrates one usage of GetModelTemplate.

Sample Request

```
GET /restapis/uojnr9hd57/models/output/default_template HTTP/1.1
Content-Type: application/json
Host: apigateway.us-east-1.amazonaws.com
X-Amz-Date: 20160614T202448Z
Authorization: AWS4-HMAC-SHA256 Credential={access_key_ID}/20160614/us-east-1/apigateway/aws4_request, SignedHeaders=content-type;host;x-amz-date, Signature={sig4_hash}
```

Sample Response

```
{
  "_links": {
    "self": {
      "href": "/restapis/uojnr9hd57/models/output/default_template"
    }},
  "value": 
  
  "#set($inputRoot = $input.path(’$’))
  $\n  \n  \n  \n  \n  "a" : 3.1415,
  "b" : 3.1415,
  "c" : 3.1415"
```

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
GetRequestValidator

Gets a RequestValidator of a given RestApi.

**Request Syntax**

```
GET /restapis/restapi_id/requestvalidators/requestvalidator_id HTTP/1.1
```

**URI Request Parameters**

The request uses the following URI parameters.

- `requestvalidator_id` *(p. 239)*
  
  The identifier of the RequestValidator to be retrieved.
  
  Required: Yes

- `restapi_id` *(p. 239)*
  
  The string identifier of the associated RestApi.
  
  Required: Yes

**Request Body**

The request does not have a request body.

**Response Syntax**

```
HTTP/1.1 200
Content-type: application/json

{
  "id": "string",
  "name": "string",
  "validateRequestBody": boolean,
  "validateRequestParameters": 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.

- **id** *(p. 239)*
  
  The identifier of this RequestValidator.
  
  Type: String

- **name** *(p. 239)*
  
  The name of this RequestValidator
Errors

For information about the errors that are common to all actions, see Common Errors (p. 541).

**BadRequestException**

The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.

HTTP Status Code: 400

**NotFoundException**

The requested resource is not found. Make sure that the request URI is correct.

HTTP Status Code: 404

**TooManyRequestsException**

The request has reached its throttling limit. Retry after the specified time period.

HTTP Status Code: 429

**UnauthorizedException**

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401

Examples

Get the specified RequestValidator of an API

This example illustrates one usage of GetRequestValidator.

Sample Request

```plaintext
GET /restapis/mkhqppt4e4/requestvalidators/1t3hul HTTP/1.1
Content-Type: application/json
Host: apigateway.us-east-1.amazonaws.com
X-Amz-Date: 20170223T172652Z
Authorization: AWS4-HMAC-SHA256 Credential={access_key_ID}/20170223/us-east-1/apigateway/aw4_request, SignedHeaders=content-type;host;x-amz-date, Signature={sig4_hash}
```

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Sample Response

```
{
  "_links": {
    "self": {
      "href": "/restapis/mkhqppt4e4/requestvalidators/1t3hul"
    },
    "request-validator-delete": {
      "href": "/restapis/mkhqppt4e4/requestvalidators/1t3hul"
    },
    "request-validator-update": {
      "href": "/restapis/mkhqppt4e4/requestvalidators/1t3hul"
    }
  },
  "id": "1t3hul",
  "name": "params-only",
  "validateRequestBody": false,
  "validateRequestParameters": 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
GetRequestValidators

Gets the RequestValidators collection of a given RestApi.

Request Syntax

GET /restapis/restapi_id/requestvalidators?limit=limit&position=position HTTP/1.1

URI Request Parameters

The request uses the following URI parameters.

**limit (p. 242)**

The maximum number of returned results per page. The default value is 25 and the maximum value is 500.

**position (p. 242)**

The current pagination position in the paged result set.

**restapi_id (p. 242)**

The string identifier of the associated RestApi.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

<table>
<thead>
<tr>
<th>HTTP/1.1  200</th>
</tr>
</thead>
<tbody>
<tr>
<td>Content-type: application/json</td>
</tr>
</tbody>
</table>

{ |
  "item": |
    [ |
      { |
        "id": "string",
        "name": "string",
        "validateRequestBody": boolean,
        "validateRequestParameters": boolean
      }, |
      |
      "position": "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.

**item (p. 242)**

The current page of elements from this collection.
Errors

For information about the errors that are common to all actions, see Common Errors (p. 541).

**BadRequestException**

The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.

HTTP Status Code: 400

**NotFoundException**

The requested resource is not found. Make sure that the request URI is correct.

HTTP Status Code: 404

**TooManyRequestsException**

The request has reached its throttling limit. Retry after the specified time period.

HTTP Status Code: 429

**UnauthorizedException**

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401

Examples

Get the RequestValidators collection of an API

This example illustrates one usage of GetRequestValidators.

**Sample Request**

```
GET /restapis/mkhqppt4e4/requestvalidators HTTP/1.1
Content-Type: application/json
Host: apigateway.us-east-1.amazonaws.com
X-Amz-Date: 20170223T172652Z
Authorization: AWS4-HMAC-SHA256 Credential={access_key_ID}/20170223/us-east-1/apigateway/aws4_request, SignedHeaders=content-type;host;x-amz-date, Signature={sig4_hash}
```

**Sample Response**

```
{
    "_links": {
        "curies": {
            "name": "requestvalidator"
        }
    }
}
```
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
GetResource

Lists information about a resource.

Request Syntax

GET /restapis/restapi_id/resources/resource_id?embed=embed HTTP/1.1

URI Request Parameters

The request uses the following URI parameters.

embed (p. 246)

A query parameter to retrieve the specified resources embedded in the returned Resource representation in the response. This embed parameter value is a list of comma-separated strings. Currently, the request supports only retrieval of the embedded Method resources this way. The query parameter value must be a single-valued list and contain the "methods" string. For example, GET /restapis/{restapi_id}/resources/{resource_id}?embed=methods.

resource_id (p. 246)

The identifier for the Resource resource.

Required: Yes

restapi_id (p. 246)

The string identifier of the associated RestApi.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

HTTP/1.1 200
Content-type: application/json

{  
  "id": "string",
  "parentId": "string",
  "path": "string",
  "pathPart": "string",
  "resourceMethods": {
    "string": {
      "apiKeyRequired": boolean,
      "authorizationScopes": [ "string" ],
      "authorizationType": "string",
      "authorizerId": "string",
      "httpMethod": "string",
      "methodIntegration": {
        "cacheKeyParameters": [ "string" ],
        "cacheNamespace": "string",
      },
      "methodIntegration": {
        "cacheKeyParameters": [ "string" ],
        "cacheNamespace": "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. 246)**

The resource's identifier.
Type: String

**parentid (p. 246)**

The parent resource's identifier.

Type: String

**path (p. 246)**

The full path for this resource.

Type: String

**pathPart (p. 246)**

The last path segment for this resource.

Type: String

**resourceMethods (p. 246)**

Gets an API resource's method of a given HTTP verb.

Type: String to [Method (p. 508)] object map

---

**Errors**

For information about the errors that are common to all actions, see [Common Errors (p. 541)].

**NotFoundException**

The requested resource is not found. Make sure that the request URI is correct.

HTTP Status Code: 404

**TooManyRequestsException**

The request has reached its throttling limit. Retry after the specified time period.

HTTP Status Code: 429

**UnauthorizedException**

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401

---

**Examples**

**Get an API resource of a given resource identifier**

This example illustrates one usage of GetResource.

**Sample Request**

```plaintext
GET /restapis/fugvjdxtri/resources/3kzxbg5sa2 HTTP/1.1
Content-Type: application/json
Host: apigateway.us-east-1.amazonaws.com
X-Amz-Date: 20170223T025309Z
```
Authorization: AWS4-HMAC-SHA256 Credential={access_key_ID}/20170223/us-east-1/apigateway/ aws4_request, SignedHeaders=content-type;host;x-amz-date, Signature={sig4_hash}

Sample Response

```json
{
    "_links": {
        "curies": [
            {
                "href": "https://docs.aws.amazon.com/apigateway/latest/developerguide/restapi-method-{rel}.html",
                "name": "method",
                "templated": true
            },
            {
                "href": "https://docs.aws.amazon.com/apigateway/latest/developerguide/restapi-resource-{rel}.html",
                "name": "resource",
                "templated": true
            }
        ],
        "self": {
            "href": "https://restapis/fugvjdxtri/resources/3kzxbg5sa2"
        },
        "method:by-http-method": {
            "href": "https://restapis/fugvjdxtri/resources/3kzxbg5sa2/methods/{http_method}",
            "templated": true
        },
        "method:put": {
            "href": "https://restapis/fugvjdxtri/resources/3kzxbg5sa2/methods/{http_method}",
            "templated": true
        },
        "resource:create-child": {
            "href": "https://restapis/fugvjdxtri/resources/3kzxbg5sa2"
        },
        "resource:methods": {
            "href": "https://restapis/fugvjdxtri/resources/3kzxbg5sa2/methods/GET",
            "name": "GET",
            "title": "GET"
        },
        "resource:update": {
            "href": "https://restapis/fugvjdxtri/resources/3kzxbg5sa2"
        }
    },
    "id": "3kzxbg5sa2",
    "path": "/"
}
```

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
GetResources

Lists information about a collection of Resource resources.

Request Syntax

GET /restapis/{restapi_id}/resources?embed=embed&limit=limit&position=position HTTP/1.1

URI Request Parameters

The request uses the following URI parameters.

embed (p. 251)

A query parameter used to retrieve the specified resources embedded in the returned Resources resource in the response. This embed parameter value is a list of comma-separated strings. Currently, the request supports only retrieval of the embedded Method resources this way. The query parameter value must be a single-valued list and contain the "methods" string. For example, GET /restapis/{restapi_id}/resources?embed=methods.

limit (p. 251)

The maximum number of returned results per page. The default value is 25 and the maximum value is 500.

position (p. 251)

The current pagination position in the paged result set.

restapi_id (p. 251)

The string identifier of the associated RestApi.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

HTTP/1.1 200
Content-type: application/json

{
   "item": [
      {
         "id": "string",
         "parentId": "string",
         "path": "string",
         "pathPart": "string",
         "resourceMethods": {
            "string": {
               "apiKeyRequired": boolean,
               "authorizationScopes": [ "string" ],
               "authorizationType": "string",
               "authorizerId": "string",
               "httpMethod": "string",
            }
         }
      }
   ]
}

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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.

**item (p. 251)**

The current page of elements from this collection.

Type: Array of [Resource (p. 522)] objects

**position (p. 251)**

The current pagination position in the paged result set.

Type: String

---

**Errors**

For information about the errors that are common to all actions, see [Common Errors (p. 541)].

**BadRequestException**

The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.

HTTP Status Code: 400

**NotFoundException**

The requested resource is not found. Make sure that the request URI is correct.

HTTP Status Code: 404

**TooManyRequestsException**

The request has reached its throttling limit. Retry after the specified time period.

HTTP Status Code: 429

**UnauthorizedException**

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401

---

**Examples**

**Get an API resource collection**

This example illustrates one usage of GetResources.

**Sample Request**

```
GET /restapis/fugvjdxtri/resources HTTP/1.1  
Content-Type: application/json  
Host: apigateway.us-east-1.amazonaws.com  
X-Amz-Date: 20160602T173305Z  
Authorization: AWS4-HMAC-SHA256 Credential={access_key_ID}/20160602/us-east-1/apigateway/  
asw4_request, SignedHeaders=content-type;host;x-amz-date, Signature={sig4_hash}  
```

**Response**

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Sample Response

```
{
  "_links": {
    "curies": [
      {
        "href": "https://docs.aws.amazon.com/apigateway/latest/developerguide/restapi-method-{rel}.html",
        "name": "method",
        "templated": true
      },
      {
        "href": "https://docs.aws.amazon.com/apigateway/latest/developerguide/restapi-resource-{rel}.html",
        "name": "resource",
        "templated": true
      }
    ],
    "self": {
      "href": "/restapis/fugvjdxtri/resources"
    },
    "item": {
      "href": "/restapis/fugvjdxtri/resources/3kzxbg5sa2"
    },
    "resource:by-id": {
      "href": "/restapis/fugvjdxtri/resources/{resource_id}?embed",
      "templated": true
    },
    "resource:create": {
      "href": "/restapis/fugvjdxtri/resources/{parent_id}"
    },
    "_embedded": {
      "item": {
        "_links": {
          "self": {
            "href": "/restapis/fugvjdxtri/resources/3kzxbg5sa2"
          },
          "method:by-http-method": {
            "href": "/restapis/fugvjdxtri/resources/3kzxbg5sa2/methods/{http_method}"
          },
          "method:put": {
            "href": "/restapis/fugvjdxtri/resources/3kzxbg5sa2/methods/{http_method}"
          },
          "resource:create-child": {
            "href": "/restapis/fugvjdxtri/resources/3kzxbg5sa2"
          },
          "resource:update": {
            "href": "/restapis/fugvjdxtri/resources/3kzxbg5sa2"
          }
        },
        "id": "3kzxbg5sa2",
        "path": "/"
      }
    }
  }
}
```

See Also

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

- 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
GetRestApi

Lists the RestApi resource in the collection.

Request Syntax

```
GET /restapis/restapi_id HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

**restapi_id** *(p. 256)*

The string identifier of the associated RestApi.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json
{
   "apiKeySource": "string",
   "binaryMediaTypes": [ "string" ],
   "createdDate": number,
   "description": "string",
   "disableExecuteApiEndpoint": boolean,
   "endpointConfiguration": {
      "types": [ "string" ],
      "vpcEndpointIds": [ "string" ]
   },
   "id": "string",
   "minimumCompressionSize": number,
   "name": "string",
   "policy": "string",
   "rootResourceId": "string",
   "tags": {
      "string" : "string"
   },
   "version": "string",
   "warnings": [ "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.
apiKeySource (p. 256)

The source of the API key for metering requests according to a usage plan. Valid values are: HEADER to read the API key from the X-API-Key header of a request. AUTHORIZER to read the API key from the UsageIdentifierKey from a custom authorizer.

Type: String

Valid Values: HEADER | AUTHORIZER

binaryMediaTypes (p. 256)

The list of binary media types supported by the RestApi. By default, the RestApi supports only UTF-8-encoded text payloads.

Type: Array of strings

createdDate (p. 256)

The timestamp when the API was created.

Type: Timestamp

description (p. 256)

The API's description.

Type: String

disableExecuteApiEndpoint (p. 256)

Specifies whether clients can invoke your API by using the default execute-api endpoint. By default, clients can invoke your API with the default https://{api_id}.execute-api.{region}.amazonaws.com endpoint. To require that clients use a custom domain name to invoke your API, disable the default endpoint.

Type: Boolean

endpointConfiguration (p. 256)

The endpoint configuration of this RestApi showing the endpoint types of the API.

Type: EndpointConfiguration (p. 499) object

id (p. 256)

The API's identifier. This identifier is unique across all of your APIs in API Gateway.

Type: String

minimumCompressionSize (p. 256)

A nullable integer that is used to enable compression (with non-negative between 0 and 10485760 (10M) bytes, inclusive) or disable compression (with a null value) on an API. When compression is enabled, compression or decompression is not applied on the payload if the payload size is smaller than this value. Setting it to zero allows compression for any payload size.

Type: Integer

name (p. 256)

The API's name.

Type: String

policy (p. 256)

A stringified JSON policy document that applies to this RestApi regardless of the caller and Method configuration.
Type: String

**rootResourceId (p. 256)**

The API's root resource ID.

Type: String

**tags (p. 256)**

The collection of tags. Each tag element is associated with a given resource.

Type: String to string map

**version (p. 256)**

A version identifier for the API.

Type: String

**warnings (p. 256)**

The warning messages reported when failonwarnings is turned on during API import.

Type: Array of strings

## Errors

For information about the errors that are common to all actions, see [Common Errors (p. 541)](#).

**BadRequestException**

The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.

HTTP Status Code: 400

**NotFoundException**

The requested resource is not found. Make sure that the request URI is correct.

HTTP Status Code: 404

**TooManyRequestsException**

The request has reached its throttling limit. Retry after the specified time period.

HTTP Status Code: 429

**UnauthorizedException**

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401

## Examples

**Retrieve information about a REST API**

This example illustrates one usage of GetRestApi.
Sample Request

GET /restapis/0n1anifwvf HTTP/1.1
Content-Type: application/json
Host: apigateway.us-east-1.amazonaws.com
X-Amz-Date: 20160601T182517Z
Authorization: AWS4-HMAC-SHA256 Credential={access_key_ID}/20160601/us-east-1/apigateway/
aws4_request, SignedHeaders=content-type;host;x-amz-date, Signature={sig4_hash}

Sample Response

{
  "_links": {
    "curies": [
      { "href": "https://docs.aws.amazon.com/apigateway/latest/developerguide/restapi-authorizer-{rel}.html",
      "name": "authorizer",
      "templated": true
    },
    { "href": "https://docs.aws.amazon.com/apigateway/latest/developerguide/restapi-deployment-{rel}.html",
      "name": "deployment",
      "templated": true
    },
    { "href": "https://docs.aws.amazon.com/apigateway/latest/developerguide/restapi-model-{rel}.html",
      "name": "model",
      "templated": true
    },
    { "href": "https://docs.aws.amazon.com/apigateway/latest/developerguide/restapi-resource-{rel}.html",
      "name": "resource",
      "templated": true
    },
    { "href": "https://docs.aws.amazon.com/apigateway/latest/developerguide/restapi-restapi-{rel}.html",
      "name": "restapi",
      "templated": true
    },
    { "href": "https://docs.aws.amazon.com/apigateway/latest/developerguide/restapi-stage-{rel}.html",
      "name": "stage",
      "templated": true
    }
  ],
  "self": {
    "href": "/restapis/0n1anifwvf"
  },
  "authorizer:by-id": {
    "href": "/restapis/0n1anifwvf/authorizers/{authorizer_id}",
    "templated": true
  },
  "authorizer:create": {
    "href": "/restapis/0n1anifwvf/authorizers"
  },
  "deployment:by-id": {
    "href": "/*restapis/0n1anifwvf/deployments/{deployment_id}?embed"
  },
}

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"templated": true
},
"deployment:create": {
  "href": "/restapis/0n1anifwvf/deployments"
},
"model:by-name": {
  "href": "/restapis/0n1anifwvf/models/{model_name}?flatten=false",
  "templated": true
},
"model:create": {
  "href": "/restapis/0n1anifwvf/models"
},
"resource:by-id": {
  "href": "/restapis/0n1anifwvf/resources/{resource_id}{?embed}",
  "templated": true
},
"resource:create": {
  "href": "/restapis/0n1anifwvf/resources/ny9qrywoj2"
},
"restapi:authorizers": {
  "href": "/restapis/0n1anifwvf/authorizers"
},
"restapi:delete": {
  "href": "/restapis/0n1anifwvf"
},
"restapi:deployments": {
  "href": "/restapis/0n1anifwvf/deployments{?limit}",
  "templated": true
},
"restapi:models": {
  "href": "/restapis/0n1anifwvf/models"
},
"restapi:resources": {
  "href": "/restapis/0n1anifwvf/resources{?limit,embed}",
  "templated": true
},
"restapi:stages": {
  "href": "/restapis/0n1anifwvf/stages{?deployment_id}",
  "templated": true
},
"restapi:update": {
  "href": "/restapis/0n1anifwvf"
},
"stage:by-name": {
  "href": "/restapis/0n1anifwvf/stages/{stage_name}",
  "templated": true
},
"stage:create": {
  "href": "/restapis/0n1anifwvf/stages"
}
},
"createdDate": "2016-04-05T19:58:27Z",
"description": "Your first API with Amazon API Gateway. This is a sample API that integrates via HTTP with our demo Pet Store endpoints",
"id": "0n1anifwvf",
"rootResourceId": "1abcd23e4f",
"name": "PetStore"
}

See Also

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

- AWS Command Line Interface
See Also

- 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
GetRestApis

Lists the RestApis resources for your collection.

Request Syntax

GET /restapis?limit=limit&position=position HTTP/1.1

URI Request Parameters

The request uses the following URI parameters.

limit (p. 262)

The maximum number of returned results per page. The default value is 25 and the maximum value is 500.

position (p. 262)

The current pagination position in the paged result set.

Request Body

The request does not have a request body.

Response Syntax

HTTP/1.1 200
Content-type: application/json

```json
{
  "item": [
    {
      "apiKeySource": "string",
      "binaryMediaTypes": [ "string" ],
      "createdDate": number,
      "description": "string",
      "disableExecuteApiEndpoint": boolean,
      "endpointConfiguration": {
        "types": [ "string" ],
        "vpcEndpointIds": [ "string" ]
      },
      "id": "string",
      "minimumCompressionSize": number,
      "name": "string",
      "policy": "string",
      "rootResourceId": "string",
      "tags": {
        "string" : "string"
      },
      "version": "string",
      "warnings": [ "string" ]
    }
  ],
  "position": "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.

**item (p. 262)**

The current page of elements from this collection.

Type: Array of [RestApi (p. 523)] objects

**position (p. 262)**

The current pagination position in the paged result set.

Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors (p. 541)].

**BadRequestException**

The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.

HTTP Status Code: 400

**NotFoundException**

The requested resource is not found. Make sure that the request URI is correct.

HTTP Status Code: 404

**TooManyRequestsException**

The request has reached its throttling limit. Retry after the specified time period.

HTTP Status Code: 429

**UnauthorizedException**

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401

Examples

**Retrieve REST APIs**

The following example GET request retrieves one API from an account. The `limit` query string parameter is used to limit the quantity of the returned result. For illustrative purposes, we choose `limit=1`.

A successful response returns an API that can be navigated to by following the linked item or examining the embedded item resource.
Sample Request

GET /restapis?limit=1 HTTP/1.1
Content-Type: application/json
Host: apigateway.us-east-1.amazonaws.com
X-Amz-Date: 20160531T233903Z
Authorization: AWS4-HMAC-SHA256 Credential={access_key_ID}/us-east-1/apigateway/
aws4_request, SignedHeaders=content-type;host;x-amz-date, Signature={sig4_hash}

Sample Response

{
   "_links": {
      "curies": [
         {
            "href": "https://docs.aws.amazon.com/apigateway/latest/developerguide/restapi-authorizer-{rel}.html",
            "name": "authorizer",
            "templated": true
         },
         {
            "href": "https://docs.aws.amazon.com/apigateway/latest/developerguide/restapi-deployment-{rel}.html",
            "name": "deployment",
            "templated": true
         },
         {
            "href": "https://docs.aws.amazon.com/apigateway/latest/developerguide/restapi-model-{rel}.html",
            "name": "model",
            "templated": true
         },
         {
            "href": "https://docs.aws.amazon.com/apigateway/latest/developerguide/restapi-resource-{rel}.html",
            "name": "resource",
            "templated": true
         },
         {
            "href": "https://docs.aws.amazon.com/apigateway/latest/developerguide/restapi-restapi-{rel}.html",
            "name": "restapi",
            "templated": true
         },
         {
            "href": "https://docs.aws.amazon.com/apigateway/latest/developerguide/restapi-stage-{rel}.html",
            "name": "stage",
            "templated": true
         }
      ],
      "self": {
         "href": "/restapis?limit=1"
      },
      "item": {
         "href": "/restapis/0n1anifwvf"
      },
      "next": {
         "href": "/restapis?position=aWQ9UzBuMWFuaWZ3dmY%3D&limit=1"
      },
      "restapi:by-id": {
         "href": "/restapis/\{restapi_id\}"
      },
      "templated": 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
GetSdk

Generates a client SDK for a RestApi and Stage.

**Request Syntax**

```
GET /restapis/restapi_id/stages/stage_name/sdks/sdk_type?parameters HTTP/1.1
```

**URI Request Parameters**

The request uses the following URI parameters.

- **parameters (p. 267)**
  
  A string-to-string key-value map of query parameters sdkType-dependent properties of the SDK. For sdkType of objectivec or swift, a parameter named classPrefix is required. For sdkType of android, parameters named groupId, artifactId, artifactVersion, and invokerPackage are required. For sdkType of java, parameters named serviceName and javaPackageName are required.

- **restapi_id (p. 267)**
  
  The string identifier of the associated RestApi. Required: Yes

- **sdk_type (p. 267)**
  
  The language for the generated SDK. Currently java, javascript, android, objectivec (for iOS), swift (for iOS), and ruby are supported. Required: Yes

- **stage_name (p. 267)**
  
  The name of the Stage that the SDK will use. Required: Yes

**Request Body**

The request does not have a request body.

**Response Syntax**

```
HTTP/1.1 200
Content-Type: contentType
Content-Disposition: contentDisposition

body
```

**Response Elements**

If the action is successful, the service sends back an HTTP 200 response.
The response returns the following HTTP headers.

**contentDisposition** *(p. 267)*

The content-disposition header value in the HTTP response.

**contentType** *(p. 267)*

The content-type header value in the HTTP response.

The response returns the following as the HTTP body.

**body** *(p. 267)*

The binary blob response to GetSdk, which contains the generated SDK.

**Errors**

For information about the errors that are common to all actions, see Common Errors *(p. 541).*

**BadRequestException**

The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.

HTTP Status Code: 400

**ConflictException**

The request configuration has conflicts. For details, see the accompanying error message.

HTTP Status Code: 409

**LimitExceededException**

The request exceeded the rate limit. Retry after the specified time period.

HTTP Status Code: 429

**NotFoundException**

The requested resource is not found. Make sure that the request URI is correct.

HTTP Status Code: 404

**TooManyRequestsException**

The request has reached its throttling limit. Retry after the specified time period.

HTTP Status Code: 429

**UnauthorizedException**

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401

**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
GetSdkType

Gets an SDK type.

Request Syntax

GET /sdktypes/sdktype_id HTTP/1.1

URI Request Parameters

The request uses the following URI parameters.

sdktype_id (p. 270)

The identifier of the queried SdkType instance.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

HTTP/1.1 200
Content-type: application/json

{
   "configurationProperties": [
      {
         "defaultValue": "string",
         "description": "string",
         "friendlyName": "string",
         "name": "string",
         "required": boolean
      }
   ],
   "description": "string",
   "friendlyName": "string",
   "id": "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.

configurationProperties (p. 270)

A list of configuration properties of an SdkType.

Type: Array of SdkConfigurationProperty (p. 526) objects
description (p. 270)
    The description of an SdkType.
    Type: String

friendlyName (p. 270)
    The user-friendly name of an SdkType instance.
    Type: String

id (p. 270)
    The identifier of an SdkType instance.
    Type: String

Errors

For information about the errors that are common to all actions, see Common Errors (p. 541).

BadRequestException
    The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.
    HTTP Status Code: 400

NotFoundException
    The requested resource is not found. Make sure that the request URI is correct.
    HTTP Status Code: 404

TooManyRequestsException
    The request has reached its throttling limit. Retry after the specified time period.
    HTTP Status Code: 429

UnauthorizedException
    The request is denied because the caller has insufficient permissions.
    HTTP Status Code: 401

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
GetSdkTypes

Gets SDK types

Request Syntax

GET /sdktypes?limit=limit&position=position HTTP/1.1

URI Request Parameters

The request uses the following URI parameters.

limit (p. 273)

The maximum number of returned results per page. The default value is 25 and the maximum value is 500.

position (p. 273)

The current pagination position in the paged result set.

Request Body

The request does not have a request body.

Response Syntax

HTTP/1.1 200
Content-type: application/json

{   "item": [       {           "configurationProperties": [               {                   "defaultValue": "string",                   "description": "string",                   "friendlyName": "string",                   "name": "string",                   "required": boolean               }           ],           "description": "string",           "friendlyName": "string",           "id": "string"       },       "position": "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.
item (p. 273)

The current page of elements from this collection.

Type: Array of SdkType (p. 527) objects

position (p. 273)

The current pagination position in the paged result set.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors (p. 541).

BadRequestException

The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.

HTTP Status Code: 400

NotFoundException

The requested resource is not found. Make sure that the request URI is correct.

HTTP Status Code: 404

TooManyRequestsException

The request has reached its throttling limit. Retry after the specified time period.

HTTP Status Code: 429

UnauthorizedException

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401

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
GetStage

Gets information about a Stage resource.

**Request Syntax**

```
GET /restapis/restapi_id/stages/stage_name HTTP/1.1
```

**URI Request Parameters**

The request uses the following URI parameters.

- **restapi_id (p. 275)**
  - The string identifier of the associated RestApi.
  - Required: Yes

- **stage_name (p. 275)**
  - The name of the Stage resource to get information about.
  - Required: Yes

**Request Body**

The request does not have a request body.

**Response Syntax**

```
HTTP/1.1 200
Content-type: application/json

{
   "accessLogSettings": {
      "destinationArn": "string",
      "format": "string"
   },
   "cacheClusterEnabled": boolean,
   "cacheClusterSize": "string",
   "cacheClusterStatus": "string",
   "canarySettings": {
      "deploymentId": "string",
      "percentTraffic": number,
      "stageVariableOverrides": {
         "string": "string"
      }
   },
   "useStageCache": boolean,
   "clientCertificateId": "string",
   "createdAt": number,
   "deploymentId": "string",
   "description": "string",
   "documentationVersion": "string",
   "lastUpdatedDate": number,
   "methodSettings": {
      "string": "string"
   }
}
```

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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.

- **accessLogSettings (p. 275)**
  Settings for logging access in this stage.
  
  Type: AccessLogSettings (p. 479) object

- **cacheClusterEnabled (p. 275)**
  Specifies whether a cache cluster is enabled for the stage.
  
  Type: Boolean

- **cacheClusterSize (p. 275)**
  The stage's cache capacity in GB. For more information about choosing a cache size, see [Enabling API caching to enhance responsiveness](#).
  
  Type: String
  
  Valid Values: 0.5 | 1.6 | 6.1 | 13.5 | 28.4 | 58.2 | 118 | 237

- **cacheClusterStatus (p. 275)**
  The status of the cache cluster for the stage, if enabled.
  
  Type: String
  
  Valid Values: CREATE_IN_PROGRESS | AVAILABLE | DELETE_IN_PROGRESS | NOT_AVAILABLE | FLUSH_IN_PROGRESS

- **canarySettings (p. 275)**
  Settings for the canary deployment in this stage.
  
  Type: CanarySettings (p. 487) object
**clientCertificateId (p. 275)**
The identifier of a client certificate for an API stage.
Type: String

**createdDate (p. 275)**
The timestamp when the stage was created.
Type: Timestamp

**deploymentId (p. 275)**
The identifier of the Deployment that the stage points to.
Type: String

**description (p. 275)**
The stage's description.
Type: String

**documentationVersion (p. 275)**
The version of the associated API documentation.
Type: String

**lastUpdatedDate (p. 275)**
The timestamp when the stage last updated.
Type: Timestamp

**methodSettings (p. 275)**
A map that defines the method settings for a Stage resource. Keys (designated as /{method_setting_key below) are method paths defined as {resource_path}/{http_method} for an individual method override, or /\*\*/ for overriding all methods in the stage.
Type: String to MethodSetting (p. 512) object map

**stageName (p. 275)**
The name of the stage is the first path segment in the Uniform Resource Identifier (URI) of a call to API Gateway. Stage names can only contain alphanumeric characters, hyphens, and underscores. Maximum length is 128 characters.
Type: String

**tags (p. 275)**
The collection of tags. Each tag element is associated with a given resource.
Type: String to string map

**tracingEnabled (p. 275)**
Specifies whether active tracing with X-ray is enabled for the Stage.
Type: Boolean

**variables (p. 275)**
A map that defines the stage variables for a Stage resource. Variable names can have alphanumeric and underscore characters, and the values must match [A-Za-z0-9-_~:/?#&=, ]+.
Type: String to string map

webAclArn (p. 275)

The ARN of the WebAcl associated with the Stage.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors (p. 541).

BadRequestException

The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.

HTTP Status Code: 400

ConflictException

The request configuration has conflicts. For details, see the accompanying error message.

HTTP Status Code: 409

LimitExceededException

The request exceeded the rate limit. Retry after the specified time period.

HTTP Status Code: 429

NotFoundException

The requested resource is not found. Make sure that the request URI is correct.

HTTP Status Code: 404

TooManyRequestsException

The request has reached its throttling limit. Retry after the specified time period.

HTTP Status Code: 429

UnauthorizedException

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401

Examples

Get a named stage of an API

This example illustrates one usage of GetStage.

Sample Request

```
GET /restapis/uycll6xg9a/stages/prod HTTP/1.1
Content-Type: application/json
Host: apigateway.us-east-1.amazonaws.com
X-Amz-Date: 20170223T194603Z
```
Sample Response

```
{
  "_links": {
    "curies": {
      "href": "https://docs.aws.amazon.com/apigateway/latest/developerguide/restapi-stage-{rel}.html",
      "name": "stage",
      "templated": true
    },
    "self": {
      "href": "/restapis/uycll6xg9a/stages/prod"
    },
    "stage:delete": {
      "href": "/restapis/uycll6xg9a/stages/prod"
    },
    "stage:flush-authorizer-cache": {
      "href": "/restapis/uycll6xg9a/stages/prod/cache/authorizers"
    },
    "stage:update": {
      "href": "/restapis/uycll6xg9a/stages/prod"
    }
  },
  "cacheClusterEnabled": false,
  "cacheClusterStatus": "NOT_AVAILABLE",
  "createdDate": "2016-04-15T17:53:35Z",
  "deploymentId": "vakw79",
  "lastUpdatedDate": "2016-04-15T18:30:10Z",
  "methodSettings": {},
  "stageName": "prod",
  "variables": {
    "version": "v-prod",
    "url": "petstore-demo-endpoint.execute-api.com/petstore/pets",
    "function": "HelloEveryone"
  }
}
```

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](#)
GetStages

Gets information about one or more Stage resources.

Request Syntax

GET /restapis/restapi_id/stages?deploymentId=deploymentId HTTP/1.1

URI Request Parameters

The request uses the following URI parameters.

**deploymentId (p. 280)**

The stages' deployment identifiers.

**restapi_id (p. 280)**

The string identifier of the associated RestApi.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

HTTP/1.1 200
Content-type: application/json

```json
{
  "item": [
    {
      "accessLogSettings": {
        "destinationArn": "string",
        "format": "string"
      },
      "cacheClusterEnabled": boolean,
      "cacheClusterSize": "string",
      "cacheClusterStatus": "string",
      "canarySettings": {
        "deploymentId": "string",
        "percentTraffic": number,
        "stageVariableOverrides": {
          "string": "string"
        },
        "useStageCache": boolean
      },
      "clientCertificateId": "string",
      "createdDate": number,
      "deploymentId": "string",
      "description": "string",
      "documentationVersion": "string",
      "lastUpdatedDate": number,
      "methodSettings": {
        "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.

item (p. 280)

The current page of elements from this collection.

Type: Array of Stage (p. 528) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 541).

**BadRequestException**

The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.

HTTP Status Code: 400

**ConflictException**

The request configuration has conflicts. For details, see the accompanying error message.

HTTP Status Code: 409

**LimitExceededException**

The request exceeded the rate limit. Retry after the specified time period.

HTTP Status Code: 429

**NotFoundException**

The requested resource is not found. Make sure that the request URI is correct.
HTTP Status Code: 404
**TooManyRequestsException**

The request has reached its throttling limit. Retry after the specified time period.

HTTP Status Code: 429
**UnauthorizedException**

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401

**Examples**

**Get Stages**

This example illustrates one usage of GetStages.

**Sample Request**

```plaintext
GET /restapis/{restapi_id}/stages?deployment_id=vakw79 HTTP/1.1
Content-Type: application/json
Host: apigateway.us-east-1.amazonaws.com
X-Amz-Date: 20160524T061752Z
Authorization: AWS4-HMAC-SHA256 Credential={access_key_ID}/20160524/us-east-1/apigateway/
aws4_request, SignedHeaders=content-type;host;x-amz-date, Signature={sig-hash}
Cache-Control: no-cache
```

**Sample Response**

```json
{
    "_links": {
        "curies": {
            "href": "https://docs.aws.amazon.com/apigateway/latest/developerguide/restapi-stage-
{rel}).html",
            "name": "stage",
            "templated": true
        },
        "self": {
            "href": "/restapis/{restapi_id}/stages?deployment_id",
            "templated": true
        },
        "item": [
            {"href": "/restapis/{restapi_id}/stages/beta"
            },
            {"href": "/restapis/{restapi_id}/stages/prod"
            }
        ],
        "stage:by-name": {
            "href": "/restapis/{restapi_id}/stages/{stage_name}"
            "templated": true
        },
        "stage:create": {
            "href": "/restapis/{restapi_id}/stages"
        }
    },
    "_embedded": {
```
"item": [
{
"_links": {
"self": {
 "href": "/restapis/{restapi_id}/stages/beta"
 },
 "stage:delete": {
 "href": "/restapis/{restapi_id}/stages/beta"
 },
 "stage:flush-authorizer-cache": {
 "href": "/restapis/{restapi_id}/stages/beta/cache/authorizers"
 },
 "stage:update": {
 "href": "/restapis/{restapi_id}/stages/beta"
 }
},
"cacheClusterEnabled": false,
"cacheClusterStatus": "NOT_AVAILABLE",
"createdDate": "2016-04-15T17:38:08Z",
"deploymentId": "vakw79",
"lastUpdatedDate": "2016-04-15T17:45:48Z",
"methodSettings": {},
"stageName": "beta",
"variables": {
 "version": "v-beta",
 "url": "myDomain.com",
 "function": "HelloWorld"
 }
},
{  
"_links": {
 "self": {
 "href": "/restapis/{restapi_id}/stages/prod"
 },
 "stage:delete": {
 "href": "/restapis/{restapi_id}/stages/prod"
 },
 "stage:flush-authorizer-cache": {
 "href": "/restapis/{restapi_id}/stages/prod/cache/authorizers"
 },
 "stage:update": {
 "href": "/restapis/{restapi_id}/stages/prod"
 }
},
"cacheClusterEnabled": false,
"cacheClusterStatus": "NOT_AVAILABLE",
"createdDate": "2016-04-15T17:53:35Z",
"deploymentId": "vakw79",
"lastUpdatedDate": "2016-04-15T18:30:10Z",
"methodSettings": {},
"stageName": "prod",
"variables": {
 "version": "v-prod",
 "url": "petstore-demo-endpoint.execute-api.com/petstore/pets",
 "function": "HelloEveryone"
 }
}
]  
}  

See Also

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

- 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
GetTags

Gets the Tags collection for a given resource.

Request Syntax

GET /tags/resource_arn?limit=limit&position=position HTTP/1.1

URI Request Parameters

The request uses the following URI parameters.

- **limit (p. 285)**
  
  (Not currently supported) The maximum number of returned results per page. The default value is 25 and the maximum value is 500.

- **position (p. 285)**
  
  (Not currently supported) The current pagination position in the paged result set.

- **resource_arn (p. 285)**
  
  The ARN of a resource that can be tagged.

  Required: Yes

Request Body

The request does not have a request body.

Response Syntax

HTTP/1.1 200
Content-type: application/json

```
{
    "tags": {
        "string": "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.

- **tags (p. 285)**
  
  The collection of tags. Each tag element is associated with a given resource.

  Type: String to string map
Errors

For information about the errors that are common to all actions, see Common Errors (p. 541).

**BadRequestException**

The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.

HTTP Status Code: 400

**NotFoundException**

The requested resource is not found. Make sure that the request URI is correct.

HTTP Status Code: 404

**TooManyRequestsException**

The request has reached its throttling limit. Retry after the specified time period.

HTTP Status Code: 429

**UnauthorizedException**

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401

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](#)
GetUsage

Gets the usage data of a usage plan in a specified time interval.

**Request Syntax**

```
GET /usageplans/usageplanId/usage?
endDate=endDate&keyId=keyId&limit=limit&position=position&startDate=startDate HTTP/1.1
```

**URI Request Parameters**

The request uses the following URI parameters.

- **endDate (p. 287)**
  - The ending date (e.g., 2016-12-31) of the usage data.
  - Required: Yes
- **keyId (p. 287)**
  - The Id of the API key associated with the resultant usage data.
- **limit (p. 287)**
  - The maximum number of returned results per page. The default value is 25 and the maximum value is 500.
- **position (p. 287)**
  - The current pagination position in the paged result set.
- **startDate (p. 287)**
  - The starting date (e.g., 2016-01-01) of the usage data.
  - Required: Yes
- **usageplanId (p. 287)**
  - The Id of the usage plan associated with the usage data.
  - Required: Yes

**Request Body**

The request does not have a request body.

**Response Syntax**

```
HTTP/1.1 200
Content-type: application/json

{
   "endDate": "string",
   "values": {
      "string": [
         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.

**endDate (p. 287)**

The ending date of the usage data.

Type: String

**values (p. 287)**

The usage data, as daily logs of used and remaining quotas, over the specified time interval indexed over the API keys in a usage plan. For example, {..., "values" : { "api_key" : [ [0, 100], [10, 90], [100, 10] ]}}, where api_key stands for an API key ID and the daily log entry is of the format [used quota, remaining quota].

Type: String to array of arrays of longs map

**position (p. 287)**

The current pagination position in the paged result set.

Type: String

**startDate (p. 287)**

The starting date of the usage data.

Type: String

**usagePlanId (p. 287)**

The plan ID associated with this usage data.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors (p. 541).

**BadRequestException**

The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.

HTTP Status Code: 400

**NotFoundException**

The requested resource is not found. Make sure that the request URI is correct.

HTTP Status Code: 404
TooManyRequestsException

The request has reached its throttling limit. Retry after the specified time period.

HTTP Status Code: 429

UnauthorizedException

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401

Examples

Get usage data

This example illustrates one usage of GetUsage.

Sample Request

```
GET /usageplans/q2hrol/usage?startDate=2016-08-01&endDate=2016-08-04 HTTP/1.1
Content-Type: application/json
Host: apigateway.ap-southeast-1.amazonaws.com
Content-Length: 254
X-Amz-Date: 20160801T211516Z
Authorization: AWS4-HMAC-SHA256 Credential={access_key_ID}/20160801/ap-southeast-1/apigateway/aws4_request, SignedHeaders=content-type;host;x-amz-date, Signature={sigv4_hash}
```

Sample Response

```
{
"_links": {
"self": {
"href": "/usageplans/q2hrol/usage?startDate=2016-08-01&endDate=2016-08-04"
},
"first": {
"href": "/usageplans/q2hrol/usage?startDate=2016-08-01&endDate=2016-08-04"
}
},
"endDate": "2016-08-04",
"startDate": "2016-08-01",
"usagePlanId": "q2hrol",
"values": {
"px1KWGTIqK6L8PfqZyr3R3rrFw5574B6S5qBaz0JH6": [
[0, 5000],
[0, 5000],
[0, 10],
[0, 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
GetUsagePlan

Gets a usage plan of a given plan identifier.

Request Syntax

GET /usageplans/usageplanId HTTP/1.1

URI Request Parameters

The request uses the following URI parameters.

usageplanId (p. 291)

The identifier of the UsagePlan resource to be retrieved.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

HTTP/1.1 200
Content-type: application/json

{
  "apiStages": [
    {
      "apiId": "string",
      "stage": "string",
      "throttle": {
        "string": {
          "burstLimit": number,
          "rateLimit": number
        }
      }
    }
  ],
  "description": "string",
  "id": "string",
  "name": "string",
  "productCode": "string",
  "quota": {
    "limit": number,
    "offset": number,
    "period": "string"
  },
  "tags": {
    "string": "string"
  },
  "throttle": {
    "burstLimit": number,
    "rateLimit": 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.

apiStages (p. 291)

The associated API stages of a usage plan.
Type: Array of ApiStage (p. 482) objects

description (p. 291)

The description of a usage plan.
Type: String

id (p. 291)

The identifier of a UsagePlan resource.
Type: String

name (p. 291)

The name of a usage plan.
Type: String

productCode (p. 291)

The AWS Marketplace product identifier to associate with the usage plan as a SaaS product on the AWS Marketplace.
Type: String

quota (p. 291)

The target maximum number of permitted requests per a given unit time interval.
Type: QuotaSettings (p. 520) object

tags (p. 291)

The collection of tags. Each tag element is associated with a given resource.
Type: String to string map

throttle (p. 291)

A map containing method level throttling information for API stage in a usage plan.
Type: ThrottleSettings (p. 532) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 541).

BadRequestException

The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.
HTTP Status Code: 400
**NotFoundException**

The requested resource is not found. Make sure that the request URI is correct.

HTTP Status Code: 404
**TooManyRequestsException**

The request has reached its throttling limit. Retry after the specified time period.

HTTP Status Code: 429
**UnauthorizedException**

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401

## Examples

### Retrieve information about a usage plan

This example illustrates one usage of GetUsagePlan.

#### Sample Request

```plaintext
GET /usageplans/n371pt HTTP/1.1
Content-Type: application/json
Host: apigateway.us-east-1.amazonaws.com
X-Amz-Date: 20160805T012305Z
Authorization: AWS4-HMAC-SHA256 Credential={access_key_ID}/20160805/us-east-1/apigateway/
aws4_request, SignedHeaders=content-type;host;x-amz-date, Signature={sigv4_hash}
```

#### Sample Response

```json
{
    "_links": {
        "curies": [
            {
                "href": "https://docs.aws.amazon.com/apigateway/latest/developerguide/restapi-usage-{rel}.html",
                "name": "usage",
                "templated": true
            },
            {
                "href": "https://docs.aws.amazon.com/apigateway/latest/developerguide/restapi-usageplan-{rel}.html",
                "name": "usageplan",
                "templated": true
            },
            {
                "href": "https://docs.aws.amazon.com/apigateway/latest/developerguide/restapi-usageplankey-{rel}.html",
                "name": "usageplankey",
                "templated": true
            }
        ],
        "self": {
            "_links": {
                "curies": [
                    {
                        "href": "https://docs.aws.amazon.com/apigateway/latest/developers..."
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](#)
GetUsagePlanKey

Gets a usage plan key of a given key identifier.

Request Syntax

```
GET /usageplans/usageplanId/keys/keyId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

**keyId (p. 295)**

The key Id of the to-be-retrieved UsagePlanKey resource representing a plan customer.

Required: Yes

**usageplanld (p. 295)**

The Id of the UsagePlan resource representing the usage plan containing the to-be-retrieved UsagePlanKey resource representing a plan customer.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "id": "string",
  "name": "string",
  "type": "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.

**id (p. 295)**

The Id of a usage plan key.

Type: String

**name (p. 295)**

The name of a usage plan key.
Errors

For information about the errors that are common to all actions, see Common Errors (p. 541).

**BadRequestException**

The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.

HTTP Status Code: 400

**NotFoundException**

The requested resource is not found. Make sure that the request URI is correct.

HTTP Status Code: 404

**TooManyRequestsException**

The request has reached its throttling limit. Retry after the specified time period.

HTTP Status Code: 429

**UnauthorizedException**

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401

Examples

Retrieve a usage plan key

This example illustrates one usage of GetUsagePlanKey.

Sample Request

```
GET /usageplans/n371pt/keys/4wj0d1lt91 HTTP/1.1
Content-Type: application/json
Host: apigateway.us-east-1.amazonaws.com
Content-Length: 58
X-Amz-Date: 20160805T180524Z
Authorization: AWS4-HMAC-SHA256 Credential={access_key_ID}/20160805/us-east-1/apigateway/aws4_request, SignedHeaders=content-type;host;x-amz-date, Signature={sigv4_hash}
```

Response

```
API Version 2015-07-09
296
```
Sample Response

```
{
  "_links": {
    "self": {
      "href": "/usageplans/n371pt/keys/4wj0d1lt91"
    }
  },
  "id": "4wj0d1lt91",
  "name": "MyApiKey",
  "type": "API_KEY"
}
```

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
GetUsagePlanKeys

Gets all the usage plan keys representing the API keys added to a specified usage plan.

Request Syntax

GET /usageplans/usageplanId/keys?limit=limit&name=nameQuery&position=position HTTP/1.1

URI Request Parameters

The request uses the following URI parameters.

**limit (p. 298)**

The maximum number of returned results per page. The default value is 25 and the maximum value is 500.

**nameQuery (p. 298)**

A query parameter specifying the name of the to-be-returned usage plan keys.

**position (p. 298)**

The current pagination position in the paged result set.

**usageplanId (p. 298)**

The Id of the UsagePlan resource representing the usage plan containing the to-be-retrieved UsagePlanKey resource representing a plan customer.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

HTTP/1.1 200
Content-type: application/json

```
{
    "item": [
        {
            "id": "string",
            "name": "string",
            "type": "string",
            "value": "string"
        }
    ],
    "position": "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.

**item (p. 298)**

The current page of elements from this collection.

Type: Array of **UsagePlanKey (p. 536)** objects

**position (p. 298)**

The current pagination position in the paged result set.

Type: String

**Errors**

For information about the errors that are common to all actions, see [Common Errors (p. 541)](#).

**BadRequestException**

The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.

HTTP Status Code: 400

**NotFoundException**

The requested resource is not found. Make sure that the request URI is correct.

HTTP Status Code: 404

**TooManyRequestsException**

The request has reached its throttling limit. Retry after the specified time period.

HTTP Status Code: 429

**UnauthorizedException**

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401

**Examples**

**Retrieve usage plan keys**

This example illustrates one usage of GetUsagePlanKeys.

**Sample Request**

```
GET /usageplans/n371pt/keys HTTP/1.1
Content-Type: application/json
Host: apigateway.us-east-1.amazonaws.com
Content-Length: 58
X-Amz-Date: 20160805T185459Z
Authorization: AWS4-HMAC-SHA256 Credential={access_key_ID}/20160805/us-east-1/apigateway/aws4_request, SignedHeaders=content-type;host;x-amz-date, Signature={sigv4_hash}
```

Response
Sample Response

```json
{
   "_links": {
      "self": {
         "href": "/usageplans/n371pt/keys"
      },
      "item": {
         "href": "/usageplans/n371pt/keys/4wj0d1lt91"
      }
   },
   "_embedded": {
      "item": {
         "_links": {
            "self": {
               "href": "/usageplans/n371pt/keys/4wj0d1lt91"
            }
         },
         "id": "4wj0d1lt91",
         "name": "MyApiKey",
         "type": "API_KEY"
      }
   }
}
```

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
GetUsagePlans

Gets all the usage plans of the caller's account.

**Request Syntax**

```
GET /usageplans?keyId=KeyId&limit=limit&position=position HTTP/1.1
```

**URI Request Parameters**

The request uses the following URI parameters.

- **KeyId (p. 301)**
  
  The identifier of the API key associated with the usage plans.

- **limit (p. 301)**
  
  The maximum number of returned results per page. The default value is 25 and the maximum value is 500.

- **position (p. 301)**
  
  The current pagination position in the paged result set.

**Request Body**

The request does not have a request body.

**Response Syntax**

```
HTTP/1.1 200
Content-type: application/json

{
  "item": [
    {
      "apiStages": [
        {
          "apiId": "string",
          "stage": "string",
          "throttle": {
            "string": {
              "burstLimit": number,
              "rateLimit": number
            }
          }
        }
      ],
      "description": "string",
      "id": "string",
      "name": "string",
      "productCode": "string",
      "quota": {
        "limit": number,
        "offset": 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.

**item (p. 301)**

The current page of elements from this collection.

Type: Array of UsagePlan (p. 534) objects

**position (p. 301)**

The current pagination position in the paged result set.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors (p. 541).

**BadRequestException**

The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.

HTTP Status Code: 400

**NotFoundException**

The requested resource is not found. Make sure that the request URI is correct.

HTTP Status Code: 404

**TooManyRequestsException**

The request has reached its throttling limit. Retry after the specified time period.

HTTP Status Code: 429

**UnauthorizedException**

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401
Examples

Retrieve usage plans

The following example request gets the UsagePlans of the caller's account.

The successful response returns a 200 OK status code and a payload similar to the following:

Sample Request

```
GET /usageplans HTTP/1.1
Content-Type: application/json
Host: apigateway.ap-southeast-1.amazonaws.com
Content-Length: 254
X-Amz-Date: 20160801T204414Z
Authorization: AWS4-HMAC-SHA256 Credential={access_key_ID}/20160801/ap-southeast-1/apigateway/aws4_request, SignedHeaders=content-type;host;x-amz-date, Signature={sigv4_hash}
```

Sample Response

```
{
  "_links": {
    "curies": [
      {
        "href": "https://docs.aws.amazon.com/apigateway/latest/developerguide/restapi-usage-{rel}.html",
        "name": "usage",
        "templated": true
      },
      {
        "href": "https://docs.aws.amazon.com/apigateway/latest/developerguide/restapi-usageplan-{rel}.html",
        "name": "usageplan",
        "templated": true
      },
      {
        "href": "https://docs.aws.amazon.com/apigateway/latest/developerguide/restapi-usageplankey-{rel}.html",
        "name": "usageplankey",
        "templated": true
      }
    ],
    "self": {
      "href": "/usageplans"
    },
    "item": {
      "href": "/usageplans/wwbqww"
    },
    "usageplan:by-id": {
      "href": "/usageplans/{usageplanId}",
      "templated": true
    },
    "usageplan:create": {
      "href": "/usageplans"
    }
  },
  "_embedded": {
    "item": {
      "_links": {
        "self": {
          "href": "/usageplans/wwbqww"
        }
      }
    }
  }
}
```
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
GetVpcLink

Gets a specified VPC link under the caller's account in a region.

Request Syntax

GET /vpclinks/vpclink_id HTTP/1.1

URI Request Parameters

The request uses the following URI parameters.

vpclink_id (p. 305)

The identifier of the VpcLink. It is used in an Integration to reference this VpcLink.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

HTTP/1.1 200
Content-type: application/json

{  
"description": "string",
"id": "string",
"name": "string",
"status": "string",
"statusMessage": "string",
"tags": {
  "string": "string"
},
"targetArns": [ "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.

description (p. 305)

The description of the VPC link.

Type: String

id (p. 305)

The identifier of the VpcLink. It is used in an Integration to reference this VpcLink.
Errors

For information about the errors that are common to all actions, see Common Errors (p. 541).

BadRequestException

The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.

HTTP Status Code: 400

NotFoundException

The requested resource is not found. Make sure that the request URI is correct.

HTTP Status Code: 404

TooManyRequestsException

The request has reached its throttling limit. Retry after the specified time period.

HTTP Status Code: 429

UnauthorizedException

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401
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
GetVpcLinks

Gets the VpcLinks collection under the caller's account in a selected region.

Request Syntax

```
GET /vpclinks?limit=limit&position=position HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

- **limit (p. 308)**
  - The maximum number of returned results per page. The default value is 25 and the maximum value is 500.

- **position (p. 308)**
  - The current pagination position in the paged result set.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "item": [
    {
      "description": "string",
      "id": "string",
      "name": "string",
      "status": "string",
      "statusMessage": "string",
      "tags": {
        "string": "string"
      },
      "targetArns": [ "string" ]
    },
    {
      "description": "string",
      "id": "string",
      "name": "string",
      "status": "string",
      "statusMessage": "string",
      "tags": {
        "string": "string"
      },
      "targetArns": [ "string" ]
    }
  ],
  "position": "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.

- **item (p. 308)**
  - The current page of elements from this collection.
Errors

For information about the errors that are common to all actions, see Common Errors (p. 541).

**BadRequestException**

The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.

HTTP Status Code: 400

**NotFoundException**

The requested resource is not found. Make sure that the request URI is correct.

HTTP Status Code: 404

**TooManyRequestsException**

The request has reached its throttling limit. Retry after the specified time period.

HTTP Status Code: 429

**UnauthorizedException**

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401

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](#)
ImportApiKeys

Import API keys from an external source, such as a CSV-formatted file.

Request Syntax

POST /apikeys?mode=import&failonwarnings={failOnWarnings}&format={format} HTTP/1.1

body

URI Request Parameters

The request uses the following URI parameters.

failOnWarnings (p. 310)

A query parameter to indicate whether to rollback ApiKey importation (true) or not (false) when error is encountered.

format (p. 310)

A query parameter to specify the input format to imported API keys. Currently, only the csv format is supported.

Valid Values: csv

Required: Yes

Request Body

The request accepts the following binary data.

body (p. 310)

The payload of the POST request to import API keys. For the payload format, see API Key File Format.

Required: Yes

Response Syntax

HTTP/1.1 201
Content-type: application/json

{
    "ids": [ "string" ],
    "warnings": [ "string" ]
}

Response Elements

If the action is successful, the service sends back an HTTP 201 response.
The following data is returned in JSON format by the service.

**ids (p. 310)**
A list of all the ApiKey identifiers.
Type: Array of strings

**warnings (p. 310)**
A list of warning messages.
Type: Array of strings

### Errors

For information about the errors that are common to all actions, see [Common Errors (p. 541)].

**BadRequestException**
The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.
HTTP Status Code: 400

**ConflictException**
The request configuration has conflicts. For details, see the accompanying error message.
HTTP Status Code: 409

**LimitExceededException**
The request exceeded the rate limit. Retry after the specified time period.
HTTP Status Code: 429

**NotFoundException**
The requested resource is not found. Make sure that the request URI is correct.
HTTP Status Code: 404

**TooManyRequestsException**
The request has reached its throttling limit. Retry after the specified time period.
HTTP Status Code: 429

**UnauthorizedException**
The request is denied because the caller has insufficient permissions.
HTTP Status Code: 401

### 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
ImportDocumentationParts

Imports documentation parts

Request Syntax

```
PUT /restapis/restapi_id/documentation/parts?failonwarnings=FailOnWarnings&mode=mode
HTTP/1.1

body
```

URI Request Parameters

The request uses the following URI parameters.

**failOnWarnings (p. 313)**

A query parameter to specify whether to rollback the documentation importation (true) or not (false) when a warning is encountered. The default value is false.

**mode (p. 313)**

A query parameter to indicate whether to overwrite (overwrite) any existing DocumentationParts definition or to merge (merge) the new definition into the existing one. The default value is merge.

Valid Values: merge | overwrite

**restapi_id (p. 313)**

The string identifier of the associated RestApi.

Required: Yes

Request Body

The request accepts the following binary data.

**body (p. 313)**

Raw byte array representing the to-be-imported documentation parts. To import from an OpenAPI file, this is a JSON object.

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "ids": [ "string" ],
   "warnings": [ "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.

**ids (p. 313)**
A list of the returned documentation part identifiers.
Type: Array of strings

**warnings (p. 313)**
A list of warning messages reported during import of documentation parts.
Type: Array of strings

Errors

For information about the errors that are common to all actions, see [Common Errors (p. 541)](https://docs.aws.amazon.com/api-gateway/api-reference/).

**BadRequestException**
The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.
HTTP Status Code: 400

**ConflictException**
The request configuration has conflicts. For details, see the accompanying error message.
HTTP Status Code: 409

**LimitExceededException**
The request exceeded the rate limit. Retry after the specified time period.
HTTP Status Code: 429

**NotFoundException**
The requested resource is not found. Make sure that the request URI is correct.
HTTP Status Code: 404

**TooManyRequestsException**
The request has reached its throttling limit. Retry after the specified time period.
HTTP Status Code: 429

**UnauthorizedException**
The request is denied because the caller has insufficient permissions.
HTTP Status Code: 401

See Also

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

- 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
ImportRestApi

A feature of the API Gateway control service for creating a new API from an external API definition file.

Request Syntax

```http
POST /restapis?mode=import&parameters&failonwarnings=FailOnWarnings HTTP/1.1
body
```

URI Request Parameters

The request uses the following URI parameters.

**failOnWarnings (p. 316)**

A query parameter to indicate whether to rollback the API creation (true) or not (false) when a warning is encountered. The default value is false.

**parameters (p. 316)**

A key-value map of context-specific query string parameters specifying the behavior of different API importing operations. The following shows operation-specific parameters and their supported values.

To exclude DocumentationParts from the import, set parameters as `ignore=documentation`.

To configure the endpoint type, set parameters as `endpointConfigurationTypes=EDGE`, `endpointConfigurationTypes=REGIONAL`, or `endpointConfigurationTypes=PRIVATE`. The default endpoint type is EDGE.

To handle imported basepath, set parameters as `basepath=ignore`, `basepath=prepend` or `basepath=split`.

Request Body

The request accepts the following binary data.

**body (p. 316)**

The POST request body containing external API definitions. Currently, only OpenAPI definition JSON/YAML files are supported. The maximum size of the API definition file is 6MB.

Required: Yes

Response Syntax

```json
HTTP/1.1 201
Content-type: application/json
{
    "apiKeySource": "String",
    "BinaryMediaTypes": [ "string" ],
    "createdDate": number,
}
```
Response Elements

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

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

**apiKeySource (p. 316)**

The source of the API key for metering requests according to a usage plan. Valid values are: `HEADER` to read the API key from the `X-API-Key` header of a request. `AUTHORIZER` to read the API key from the `UsageIdentifierKey` from a custom authorizer.

Type: String

Valid Values: HEADER | AUTHORIZER

**binaryMediaTypes (p. 316)**

The list of binary media types supported by the RestApi. By default, the RestApi supports only UTF-8-encoded text payloads.

Type: Array of strings

**createdDate (p. 316)**

The timestamp when the API was created.

Type: Timestamp

**description (p. 316)**

The API's description.

Type: String

**disableExecuteApiEndpoint (p. 316)**

Specifies whether clients can invoke your API by using the default `execute-api` endpoint. By default, clients can invoke your API with the default `https://{api_id}.execute-api.{region}.amazonaws.com` endpoint. To require that clients use a custom domain name to invoke your API, disable the default endpoint.

Type: Boolean

**endpointConfiguration (p. 316)**

The endpoint configuration of this RestApi showing the endpoint types of the API.
Type: `EndpointConfiguration (p. 499)` object

`id (p. 316)`

The API's identifier. This identifier is unique across all of your APIs in API Gateway.

Type: String

`minimumCompressionSize (p. 316)`

A nullable integer that is used to enable compression (with non-negative between 0 and 10485760 (10M) bytes, inclusive) or disable compression (with a null value) on an API. When compression is enabled, compression or decompression is not applied on the payload if the payload size is smaller than this value. Setting it to zero allows compression for any payload size.

Type: Integer

`name (p. 316)`

The API's name.

Type: String

`policy (p. 316)`

A stringified JSON policy document that applies to this RestApi regardless of the caller and Method configuration.

Type: String

`rootResourceId (p. 316)`

The API's root resource ID.

Type: String

`tags (p. 316)`

The collection of tags. Each tag element is associated with a given resource.

Type: String to string map

`version (p. 316)`

A version identifier for the API.

Type: String

`warnings (p. 316)`

The warning messages reported when `failonwarnings` is turned on during API import.

Type: Array of strings

**Errors**

For information about the errors that are common to all actions, see `Common Errors (p. 541)`.

**BadRequestException**

The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.

HTTP Status Code: 400
ConflictException

The request configuration has conflicts. For details, see the accompanying error message.

HTTP Status Code: 409

LimitExceededException

The request exceeded the rate limit. Retry after the specified time period.

HTTP Status Code: 429

NotFoundException

The requested resource is not found. Make sure that the request URI is correct.

HTTP Status Code: 404

TooManyRequestsException

The request has reached its throttling limit. Retry after the specified time period.

HTTP Status Code: 429

UnauthorizedException

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401

Examples

Import an OpenAPI API definition

This example illustrates one usage of ImportRestApi.

Sample Request

```xml
POST /restapis?mode=import&failonwarning=true&basepath=ignore HTTP/1.1
Content-Type: application/json
Host: apigateway.us-east-1.amazonaws.com
X-Amz-Date: 20160606T234936Z
Authorization: AWS4-HMAC-SHA256 Credential={access_key_ID}/20160606/us-east-1/
apigateway/aws4_request, SignedHeaders=content-length;content-type;host;x-amz-date,
Signature={sig4_hash}

{
  "swagger": "2.0",
  "info": {
    "version": "2016-06-06T23:48:44Z",
    "title": "my-sample-api"
  },
  "host": "fugvjdxtri.execute-api.us-east-1.amazonaws.com",
  "basepath": "/stage2",
  "schemes": [
    "https"
  ],
  "paths": {
    ":": {
      "get": {
        "consumes": [
          "application/json"
        ]
      }
    }
  }
}
```

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"produces": ["application/json"],
"responses": {
  "200": {
    "description": "200 response",
    "schema": {
      "$ref": "#/definitions/Empty"
    },
    "headers": {
      "Content-Type": {
        "type": "string"
      }
    }
  }
},
"x-amazon-apigateway-integration": {
  "credentials": "arn:aws:iam::123456789012:role/apigAwsProxyRole",
  "responses": {
    "default": {
      "statusCode": "200",
      "responseParameters": {
        "method.response.header.Content-Type": "application/xml"
      },
      "responseTemplates": {
        "application/json": "$util.urlDecode('"\%3CkinesisStreams\%3E#foreach($stream in $input.path('$.StreamNames'))%3Cstream\%3E%3C/name\%3E%3C/stream\%3E#end\%3C/kinesisStreams\%3E"')"
      }
    },
    "requestTemplates": {
      "application/json": "{\n        \n      }"
    },
    "uri": "arn:aws:apigateway:us-east-1:kinesis:action/ListStreams",
    "passthroughBehavior": "when_no_match",
    "httpMethod": "POST",
    "requestParameters": {
      "integration.request.header.Content-Type": "application/x-amz-json-1.1"
    },
    "type": "aws"
  }
},
"definitions": {
  "Empty": {
    "type": "object"
  }
}

Sample Response

[
  {
    "_links": {
      "curies": [
        {
          "href": "https://docs.aws.amazon.com/apigateway/latest/developerguide/restapi-authorizer-{rel}.html",
          "name": "authorizer",
          "templated": true
        },
      ]
    }
  }
]
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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
PutGatewayResponse

Creates a customization of a GatewayResponse of a specified response type and status code on the given RestApi.

Request Syntax

```
PUT /restapis/restapi_id/gatewayresponses/response_type HTTP/1.1
Content-type: application/json

{
   "responseParameters": {
      "string": "string"
   },
   "responseTemplates": {
      "string": "string"
   },
   "statusCode": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

**response_type** *(p. 323)*

The response type of the associated GatewayResponse

- Valid Values: DEFAULT_4XX | DEFAULT_5XX | RESOURCE_NOT_FOUND | UNAUTHORIZED | INVALID_API_KEY | ACCESS_DENIED | AUTHORIZER_FAILURE | AUTHORIZER_CONFIGURATION_ERROR | INVALID_SIGNATURE | EXPIRED_TOKEN | MISSING_AUTHENTICATION_TOKEN | INTEGRATION_FAILURE | INTEGRATION_TIMEOUT | API_CONFIGURATION_ERROR | UNSUPPORTED_MEDIA_TYPE | BAD_REQUEST_PARAMETERS | BAD_REQUEST_BODY | REQUEST_TOO_LARGE | THROTTLED | QUOTA_EXCEEDED | WAF_FILTERED

- Required: Yes

**restapi_id** *(p. 323)*

The string identifier of the associated RestApi.

- Required: Yes

Request Body

The request accepts the following data in JSON format.

**responseParameters** *(p. 323)*

Response parameters (paths, query strings and headers) of the GatewayResponse as a string-to-string map of key-value pairs.

- Type: String to string map

- Required: No
responseTemplates (p. 323)

Response templates of the GatewayResponse as a string-to-string map of key-value pairs.

Type: String to string map

Required: No

statusCode (p. 323)

The HTTP status code of the GatewayResponse.

Type: String

Pattern: [1-5]\d\d

Required: No

Response Syntax

HTTP/1.1 201
Content-type: application/json

{
    "defaultResponse": boolean,
    "responseParameters": {
        "string": "string"
    },
    "responseTemplates": {
        "string": "string"
    },
    "responseType": "string",
    "statusCode": "string"
}

Response Elements

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

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

defaultResponse (p. 324)

A Boolean flag to indicate whether this GatewayResponse is the default gateway response (true) or not (false). A default gateway response is one generated by API Gateway without any customization by an API developer.

Type: Boolean

customParameters (p. 324)

Response parameters (paths, query strings and headers) of the GatewayResponse as a string-to-string map of key-value pairs.

Type: String to string map

customTemplates (p. 324)

Response templates of the GatewayResponse as a string-to-string map of key-value pairs.

Type: String to string map
**responseType (p. 324)**

The response type of the associated GatewayResponse.

Type: String

Valid Values: DEFAULT_4XX | DEFAULT_5XX | RESOURCE_NOT_FOUND | UNAUTHORIZED | INVALID_API_KEY | ACCESS_DENIED | AUTHORIZER_FAILURE | AUTHORIZER_CONFIGURATION_ERROR | INVALID_SIGNATURE | EXPIRED_TOKEN | MISSING_AUTHENTICATION_TOKEN | INTEGRATION_FAILURE | INTEGRATION_TIMEOUT | API_CONFIGURATION_ERROR | UNSUPPORTED_MEDIA_TYPE | BAD_REQUEST_PARAMETERS | BAD_REQUEST_BODY | REQUEST_TOO_LARGE | THROTTLED | QUOTA_EXCEEDED | WAF_FILTERED

**statusCode (p. 324)**

The HTTP status code for this GatewayResponse.

Type: String

Pattern: [1-5]\d\d

**Errors**

For information about the errors that are common to all actions, see [Common Errors (p. 541)](#).

**BadRequestException**

The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.

HTTP Status Code: 400

**ConflictException**

The request configuration has conflicts. For details, see the accompanying error message.

HTTP Status Code: 409

**LimitExceededException**

The request exceeded the rate limit. Retry after the specified time period.

HTTP Status Code: 429

**NotFoundException**

The requested resource is not found. Make sure that the request URI is correct.

HTTP Status Code: 404

**TooManyRequestsException**

The request has reached its throttling limit. Retry after the specified time period.

HTTP Status Code: 429

**UnauthorizedException**

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401
Examples

Set up a Gateway Response of a given response type

This example illustrates one usage of PutGatewayResponse.

Sample Request

```
PUT /restapis/o81lxisefl/gatewayresponses/MISSING_AUTHENTICATION_TOKEN HTTP/1.1
Host: beta-apigateway.us-east-1.amazonaws.com
Content-Type: application/json
X-Amz-Date: 20170503T201609Z
Authorization: AWS4-HMAC-SHA256 Credential={access-key-id}/20170503/us-east-1/
apigateway/aws4_request, SignedHeaders=content-length;content-type;host;x-amz-date,
    Signature=15e138ede132fa8c35c665412f407bd25a9993bdc79b3bef22f1cccccc4c6fac1
Cache-Control: no-cache
Postman-Token: 639177c3-627e-3566-a367-7746659d2360

{
    "statusCode": "404",
    "responseParameters": {
        "gatewayresponse.header.x-request-path": "method.request.path.petId",
        "gatewayresponse.header.Access-Control-Allow-Origin": "'a.b.c'",
        "gatewayresponse.header.x-request-query": "method.request.querystring.q",
        "gatewayresponse.header.x-request-header": "method.request.header.Accept"
    },
    "responseTemplates": {"application/json": "{\n        \"message\": $context.error.messageString,\n        \"type\": $context.error.responseType,\n        \"stage\": $context.stage,\n        \"resourcePath\": $context.resourcePath,\n        \"stageVariables.a\": $stageVariables.a,\n        \"statusCode\": '404'\n    \n}}
```

Sample Response

```
{
    "_links": {
        "curies": {
            "name": "gatewayresponse",
            "templated": true
        },
        "self": {
            "href": "/restapis/o81lxisefl/gatewayresponses/MISSING_AUTHENTICATION_TOKEN"
        },
        "gatewayresponse:delete": {
            "href": "/restapis/o81lxisefl/gatewayresponses/MISSING_AUTHENTICATION_TOKEN"
        },
        "gatewayresponse:put": {
            "href": "/restapis/o81lxisefl/gatewayresponses/{response_type}",
            "templated": true
        },
        "gatewayresponse:update": {
            "href": "/restapis/o81lxisefl/gatewayresponses/MISSING_AUTHENTICATION_TOKEN"
        }
    },
    "defaultResponse": false,
    "responseParameters": {
        "gatewayresponse.header.x-request-path": "method.request.path.petId",
```
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
PutIntegration

Sets up a method's integration.

Request Syntax

PUT /restapis/restapi_id/resources/resource_id/methods/http_method/integration HTTP/1.1
Content-type: application/json

{
    "cacheKeyParameters": [ "string" ],
    "cacheNamespace": "string",
    "connectionId": "string",
    "connectionType": "string",
    "contentHandling": "string",
    "credentials": "string",
    "httpMethod": "string",
    "passthroughBehavior": "string",
    "requestParameters": {
        "string": "string"
    },
    "requestTemplates": {
        "string": "string"
    },
    "timeoutInMilliseconds": number,
    "tlsConfig": {
        "insecureSkipVerification": boolean
    },
    "type": "string",
    "url": "string"
}

URI Request Parameters

The request uses the following URI parameters.

http_method (p. 328)

Specifies the HTTP method for the integration.

   Required: Yes

resource_id (p. 328)

Specifies a put integration request's resource ID.

   Required: Yes

restapi_id (p. 328)

The string identifier of the associated RestApi.

   Required: Yes

Request Body

The request accepts the following data in JSON format.
**cacheKeyParameters (p. 328)**

A list of request parameters whose values API Gateway caches. To be valid values for `cacheKeyParameters`, these parameters must also be specified for `Method requestParameters`.

Type: Array of strings

Required: No

**cacheNamespace (p. 328)**

Specifies a group of related cached parameters. By default, API Gateway uses the resource ID as the `cacheNamespace`. You can specify the same `cacheNamespace` across resources to return the same cached data for requests to different resources.

Type: String

Required: No

**connectionId (p. 328)**

The ID of the VpcLink used for the integration. Specify this value only if you specify VPC_LINK as the connection type.

Type: String

Required: No

**connectionType (p. 328)**

The type of the network connection to the integration endpoint. The valid value is INTERNET for connections through the public routable internet or VPC_LINK for private connections between API Gateway and a network load balancer in a VPC. The default value is INTERNET.

Type: String

Valid Values: INTERNET | VPC_LINK

Required: No

**contentHandling (p. 328)**

Specifies how to handle request payload content type conversions. Supported values are CONVET_TO_BINARY and CONVERT_TO_TEXT, with the following behaviors:

If this property is not defined, the request payload will be passed through from the method request to integration request without modification, provided that the `passthroughBehavior` is configured to support payload pass-through.

Type: String

Valid Values: CONVERT_TO_BINARY | CONVERT_TO_TEXT

Required: No

**credentials (p. 328)**

Specifies whether credentials are required for a put integration.

Type: String

Required: No
httpMethod (p. 328)

The HTTP method for the integration.

Type: String

Required: No

passthroughBehavior (p. 328)

Specifies the pass-through behavior for incoming requests based on the Content-Type header in the request, and the available mapping templates specified as the requestTemplates property on the Integration resource. There are three valid values: WHEN_NO_MATCH, WHEN_NO_TEMPLATES, and NEVER.

Type: String

Required: No

requestParameters (p. 328)

A key-value map specifying request parameters that are passed from the method request to the back end. The key is an integration request parameter name and the associated value is a method request parameter value or static value that must be enclosed within single quotes and pre-encoded as required by the back end. The method request parameter value must match the pattern of method.request.{location}.{name}, where location is querystring, path, or header and name must be a valid and unique method request parameter name.

Type: String to string map

Required: No

requestTemplates (p. 328)

Represents a map of Velocity templates that are applied on the request payload based on the value of the Content-Type header sent by the client. The content type value is the key in this map, and the template (as a String) is the value.

Type: String to string map

Required: No

timeoutInMillis (p. 328)

Custom timeout between 50 and 29,000 milliseconds. The default value is 29,000 milliseconds or 29 seconds.

Type: Integer

Required: No

tlsConfig (p. 328)

Specifies the TLS configuration for an integration.

Type: TlsConfig (p. 533) object

Required: No

type (p. 328)

Specifies a put integration input's type.

Type: String

Valid Values: HTTP | AWS | MOCK | HTTP_PROXY | AWS_PROXY
Required: Yes

**uri (p. 328)**

Specifies the Uniform Resource Identifier (URI) of the integration endpoint. For HTTP or HTTP_PROXY integrations, the URI must be a fully formed, encoded HTTP(S) URL according to the RFC-3986 specification, and use a valid top-level domain. For a private HTTP integration with a connectionType of VPC_LINK, the URI is not used for routing. For AWS or AWS_PROXY integrations, the URI is of the form `arn:aws:apigateway:{region}:{subdomain.service|service}:path|action/{service_api}`. Here, `{Region}` is the API Gateway region (e.g., us-east-1); `{service}` is the name of the integrated AWS service (e.g., s3); and `{subdomain}` is a designated subdomain supported by certain AWS service for fast host-name lookup. action can be used for an AWS service action-based API, using an Action={name}&{p1}={v1}&p2={v2}... query string. The ensuing `{service_api}` refers to a supported action `{name}` plus any required input parameters. Alternatively, path can be used for an AWS service path-based API. The ensuing service_api refers to the path to an AWS service resource, including the region of the integrated AWS service, if applicable. For example, for integration with the S3 API of GetObject, the uri can be either `arn:aws:apigateway:us-west-2:s3:action/GetObject&Bucket={bucket}&Key={key}` or `arn:aws:apigateway:us-west-2:s3:path/{bucket}/{key}`.

Type: String

Required: No

**Response Syntax**

```
HTTP/1.1 201
Content-type: application/json

{
    "cacheKeyParameters": [ "string" ],
    "cacheNamespace": "string",
    "connectionId": "string",
    "connectionType": "string",
    "contentHandling": "string",
    "credentials": "string",
    "httpMethod": "string",
    "integrationResponses": {
        "string": {
            "contentHandling": "string",
            "responseParameters": {
                "string": "string"
            },
            "responseTemplates": {
                "string": "string"
            },
            "selectionPattern": "string",
            "statusCode": "string"
        }
    },
    "passthroughBehavior": "string",
    "requestParameters": {
        "string": "string"
    },
    "requestTemplates": {
        "string": "string"
    },
    "timeoutInMillis": number,
    "tlsConfig": {
        "insecureSkipVerification": boolean
    }
}
```
Response Elements

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

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

**cacheKeyParameters (p. 331)**

A list of request parameters whose values API Gateway caches. To be valid values for cacheKeyParameters, these parameters must also be specified for Method requestParameters.

Type: Array of strings

**cacheNamespace (p. 331)**

Specifies a group of related cached parameters. By default, API Gateway uses the resource ID as the cacheNamespace. You can specify the same cacheNamespace across resources to return the same cached data for requests to different resources.

Type: String

**connectionId (p. 331)**

The ID of the VpcLink used for the integration when connectionType=VPC_LINK and undefined, otherwise.

Type: String

**connectionType (p. 331)**

The type of the network connection to the integration endpoint. The valid value is INTERNET for connections through the public routable internet or VPC_LINK for private connections between API Gateway and a network load balancer in a VPC. The default value is INTERNET.

Type: String

Valid Values: INTERNET | VPC_LINK

**contentHandling (p. 331)**

Specifies how to handle request payload content type conversions. Supported values are CONVERT_TO_BINARY and CONVERT_TO_TEXT, with the following behaviors:

If this property is not defined, the request payload will be passed through from the method request to integration request without modification, provided that the passthroughBehavior is configured to support payload pass-through.

Type: String

Valid Values: CONVERT_TO_BINARY | CONVERT_TO_TEXT

**credentials (p. 331)**

Specifies the credentials required for the integration, if any. For AWS integrations, three options are available. To specify an IAM Role for API Gateway to assume, use the role's Amazon Resource Name (ARN). To require that the caller's identity be passed through from the request, specify the string arn:aws:iam::\*:user/\*. To use resource-based permissions on supported AWS services, specify null.
httpMethod (p. 331)

Specifies the integration's HTTP method type. For the Type property, if you specify MOCK, this property is optional. For Lambda integrations, you must set the integration method to POST. For all other types, you must specify this property.

integrationResponses (p. 331)

Specifies the integration’s responses.

passthroughBehavior (p. 331)

Specifies how the method request body of an unmapped content type will be passed through the integration request to the back end without transformation. A content type is unmapped if no mapping template is defined in the integration or the content type does not match any of the mapped content types, as specified in requestTemplates. The valid value is one of the following:

- WHEN_NO_MATCH: passes the method request body through the integration request to the back end without transformation when the method request content type does not match any content type associated with the mapping templates defined in the integration request.
- WHEN_NO_TEMPLATES: passes the method request body through the integration request to the back end without transformation when no mapping template is defined in the integration request. If a template is defined when this option is selected, the method request of an unmapped content-type will be rejected with an HTTP 415 Unsupported Media Type response.
- NEVER: rejects the method request with an HTTP 415 Unsupported Media Type response when either the method request content type does not match any content type associated with the mapping templates defined in the integration request or no mapping template is defined in the integration request.

requestParameters (p. 331)

A key-value map specifying request parameters that are passed from the method request to the back end. The key is an integration request parameter name and the associated value is a method request parameter value or static value that must be enclosed within single quotes and pre-encoded as required by the back end. The method request parameter value must match the pattern of method.request.{location}.{name}, where location is querystring, path, or header and name must be a valid and unique method request parameter name.

requestTemplates (p. 331)

Represents a map of Velocity templates that are applied on the request payload based on the value of the Content-Type header sent by the client. The content type value is the key in this map, and the template (as a String) is the value.

timeoutInMillis (p. 331)

Custom timeout between 50 and 29,000 milliseconds. The default value is 29,000 milliseconds or 29 seconds.

Type: Integer
tlsConfig (p. 331)

Specifies the TLS configuration for an integration.
Type: **TlsConfig** *(p. 533)* object

Specifies an API method integration type. The valid value is one of the following:

For the HTTP and HTTP proxy integrations, each integration can specify a protocol (http/https), port and path. Standard 80 and 443 ports are supported as well as custom ports above 1024. An HTTP or HTTP proxy integration with a `connectionType` of VPC_LINK is referred to as a private integration and uses a VpcLink to connect API Gateway to a network load balancer of a VPC.

Type: String

Valid Values: HTTP | AWS | MOCK | HTTP_PROXY | AWS_PROXY

**uri** *(p. 331)*

Specifies Uniform Resource Identifier (URI) of the integration endpoint.

For HTTP or HTTP_PROXY integrations, the URI must be a fully formed, encoded HTTP(S) URL according to the RFC-3986 specification for standard integrations. If `connectionType` is VPC_LINK specify the Network Load Balancer DNS name. For AWS or AWS_PROXY integrations, the URI is of the form `arn:aws:apigateway:{region}:{subdomain.service|service}:path|action/{service_api}`. Here, `{Region}` is the API Gateway region (e.g., us-east-1); `{service}` is the name of the integrated AWS service (e.g., s3); and `{subdomain}` is a designated subdomain supported by certain AWS service for fast host-name lookup. action can be used for an AWS service action-based API, using an `Action={name}&{p1}={v1}&p2={v2}...` query string. The ensuing `{service_api}` refers to a supported action `{name}` plus any required input parameters. Alternatively, `path` can be used for an AWS service path-based API. The ensuing `service_api` refers to the path to an AWS service resource, including the region of the integrated AWS service, if applicable. For example, for integration with the S3 API of GetObject, the URI can be either `arn:aws:apigateway:us-west-2:s3:action/GetObject&Bucket={bucket}&Key={key}` or `arn:aws:apigateway:us-west-2:s3:path/{bucket}/{key}`.

Type: String

**Errors**

For information about the errors that are common to all actions, see **Common Errors** *(p. 541)*.

**BadRequestException**

The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.

HTTP Status Code: 400

**ConflictException**

The request configuration has conflicts. For details, see the accompanying error message.

HTTP Status Code: 409

**LimitExceededException**

The request exceeded the rate limit. Retry after the specified time period.

HTTP Status Code: 429

**NotFoundException**

The requested resource is not found. Make sure that the request URL is correct.
HTTP Status Code: 404

**TooManyRequestsException**

The request has reached its throttling limit. Retry after the specified time period.

HTTP Status Code: 429

**UnauthorizedException**

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401

**Examples**

**Integrate an HTTP GET method with the ListStreams action in Amazon Kinesis**

This example illustrates one usage of PutIntegration.

**Sample Request**

```
PUT /restapis/fugvjdxtri/resources/3kzxbg5sa2/methods/GET/integration HTTP/1.1
Content-Type: application/json
Host: apigateway.us-east-1.amazonaws.com
X-Amz-Date: 20160602T194050Z
Authorization: AWS4-HMAC-SHA256 Credential={access_key_ID}/20160602/us-east-1/apigateway/aws4_request, SignedHeaders=content-length;content-type;host;x-amz-date,
Signature={sig4_hash}

{
  "type" : "AWS",
  "httpMethod" : "POST",
  "credentials" : "arn:aws:iam::123456789012:role/apigAwsProxyRole",
  "requestParameters" : {
    "integration.request.header.Content-Type": "application/x-amz-json-1.1"
  },
  "requestTemplates" : {
    "application/json": "{
    
  }
  },
  "passthroughBehavior" : "WHEN_NO_MATCH"
}
```

**Sample Response**

```
{
  "_links": {
    "curies": [
      ...
    ],
    "self": {
      "href": "/restapis/fugvjdxtri/resources/3kzxbg5sa2/methods/GET/integration"
    },
    "integration:delete": {
      "href": "/restapis/fugvjdxtri/resources/3kzxbg5sa2/methods/GET/integration"
    },
    "integration:update": {
      "href": "/restapis/fugvjdxtri/resources/3kzxbg5sa2/methods/GET/integration"
    }
  }
}
```
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
PutIntegrationResponse

Represents a put integration.

Request Syntax

```
PUT /restapis/restapi_id/resources/resource_id/methods/http_method/integration/responses/status_code HTTP/1.1
Content-type: application/json

{
   "contentHandling": "string",
   "responseParameters": {
      "string": "string"
   },
   "responseTemplates": {
      "string": "string"
   },
   "selectionPattern": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

**http_method (p. 337)**

Specifies a put integration response request's HTTP method.

Required: Yes

**resource_id (p. 337)**

Specifies a put integration response request's resource identifier.

Required: Yes

**restapi_id (p. 337)**

The string identifier of the associated RestApi.

Required: Yes

**status_code (p. 337)**

Specifies the status code that is used to map the integration response to an existing MethodResponse.

Pattern: [1-5]\d\d

Required: Yes

Request Body

The request accepts the following data in JSON format.

**contentHandling (p. 337)**

Specifies how to handle response payload content type conversions. Supported values are CONVERT_TO_BINARY and CONVERT_TO_TEXT, with the following behaviors:
If this property is not defined, the response payload will be passed through from the integration response to the method response without modification.

Type: String

Valid Values: CONVERT_TO_BINARY | CONVERT_TO_TEXT

Required: No

**responseParameters (p. 337)**

A key-value map specifying response parameters that are passed to the method response from the back end. The key is a method response header parameter name and the mapped value is an integration response header value, a static value enclosed within a pair of single quotes, or a JSON expression from the integration response body. The mapping key must match the pattern of *method.response.header.*{name}**, where name is a valid and unique header name. The mapped non-static value must match the pattern of *integration.response.header.*{name}* or *integration.response.body.*{JSON-expression}*), where name must be a valid and unique response header name and JSON-expression a valid JSON expression without the $ prefix.

Type: String to string map

Required: No

**responseTemplates (p. 337)**

Specifies a put integration response's templates.

Type: String to string map

Required: No

**selectionPattern (p. 337)**

Specifies the selection pattern of a put integration response.

Type: String

Required: No

---

**Response Syntax**

```json
HTTP/1.1 201
Content-type: application/json

{
   "contentHandling": "string",
   "responseParameters": {
      "string": "string"
   },
   "responseTemplates": {
      "string": "string"
   },
   "selectionPattern": "string",
   "statusCode": "string"
}
```

**Response Elements**

If the action is successful, the service sends back an HTTP 201 response.
The following data is returned in JSON format by the service.

**contentHandling (p. 338)**

Specifies how to handle response payload content type conversions. Supported values are CONVERT_TO_BINARY and CONVERT_TO_TEXT, with the following behaviors:

If this property is not defined, the response payload will be passed through from the integration response to the method response without modification.

Type: String

Valid Values: CONVERT_TO_BINARY | CONVERT_TO_TEXT

**responseParameters (p. 338)**

A key-value map specifying response parameters that are passed to the method response from the back end. The key is a method response header parameter name and the mapped value is an integration response header value, a static value enclosed within a pair of single quotes, or a JSON expression from the integration response body. The mapping key must match the pattern of method.response.header.{name}, where name is a valid and unique header name. The mapped non-static value must match the pattern of integration.response.header.{name} or integration.response.body.{JSON-expression}, where name is a valid and unique response header name and JSON-expression is a valid JSON expression without the $ prefix.

Type: String to string map

**responseTemplates (p. 338)**

Specifies the templates used to transform the integration response body. Response templates are represented as a key/value map, with a content-type as the key and a template as the value.

Type: String to string map

**selectionPattern (p. 338)**

Specifies the regular expression (regex) pattern used to choose an integration response based on the response from the back end. For example, if the success response returns nothing and the error response returns some string, you could use the .+ regex to match error response. However, make sure that the error response does not contain any newline (\n) character in such cases. If the back end is an AWS Lambda function, the AWS Lambda function error header is matched. For all other HTTP and AWS back ends, the HTTP status code is matched.

Type: String

**statusCode (p. 338)**

Specifies the status code that is used to map the integration response to an existing MethodResponse.

Type: String

Pattern: [1-5]\d\d

### Errors

For information about the errors that are common to all actions, see [Common Errors (p. 541)](#).

**BadRequestException**

The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.
HTTP Status Code: 400  
**ConflictException**  
The request configuration has conflicts. For details, see the accompanying error message.

HTTP Status Code: 409  
**LimitExceededException**  
The request exceeded the rate limit. Retry after the specified time period.

HTTP Status Code: 429  
**NotFoundException**  
The requested resource is not found. Make sure that the request URI is correct.

HTTP Status Code: 404  
**TooManyRequestsException**  
The request has reached its throttling limit. Retry after the specified time period.

HTTP Status Code: 401  
**UnauthorizedException**  
The request is denied because the caller has insufficient permissions.

**Examples**

**Set up an integration response**

This example illustrates one usage of PutIntegrationResponse.

**Sample Request**

```
PUT /restapis/fugvjdxtri/resources/3kzxbg5sas2/methods/GET/integration/responses/200
HTTP/1.1
Content-Type: application/json
Host: apigateway.us-east-1.amazonaws.com
X-Amz-Date: 20160602T233930Z
Authorization: AWS4-HMAC-SHA256 Credential={access_key_ID}/20160602/us-east-1/apigateway/aws4_request, SignedHeaders=content-length;content-type;host;x-amz-date, Signature={sig4_hash}
{
  "selectionPattern" : "2\d{2}",
  "responseParameters" : {
    "method.response.header.Content-Type" : "application/json"
  }
}
```

**Sample Response**

```
{
  "_links": {
    "curies": {
```
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
PutMethod

Add a method to an existing Resource resource.

Request Syntax

PUT /restapis/restapi_id/resources/resource_id/methods/http_method HTTP/1.1
Content-type: application/json

{
   "apiKeyRequired": boolean,
   "authorizationScopes": [ "string" ],
   "authorizationType": "string",
   "authorizerId": "string",
   "operationName": "string",
   "requestModels": {
      "string": "string"
   },
   "requestParameters": {
      "string": boolean
   },
   "requestValidatorId": "string"
}

URI Request Parameters

The request uses the following URI parameters.

**http_method (p. 342)**

Specifies the method request's HTTP method type.

Required: Yes

**resource_id (p. 342)**

The Resource identifier for the new Method resource.

Required: Yes

**restapi_id (p. 342)**

The string identifier of the associated RestApi.

Required: Yes

Request Body

The request accepts the following data in JSON format.

**apiKeyRequired (p. 342)**

Specifies whether the method required a valid ApiKey.

Type: Boolean

Required: No
**authorizationScopes (p. 342)**

A list of authorization scopes configured on the method. The scopes are used with a COGNITO_USER_POOLS authorizer to authorize the method invocation. The authorization works by matching the method scopes against the scopes parsed from the access token in the incoming request. The method invocation is authorized if any method scopes matches a claimed scope in the access token. Otherwise, the invocation is not authorized. When the method scope is configured, the client must provide an access token instead of an identity token for authorization purposes.

Type: Array of strings

Required: No

**authorizationType (p. 342)**

The method's authorization type. Valid values are NONE for open access, AWS_IAM for using AWS IAM permissions, CUSTOM for using a custom authorizer, or COGNITO_USER_POOLS for using a Cognito user pool.

Type: String

Required: Yes

**authorizerId (p. 342)**

Specifies the identifier of an Authorizer to use on this Method, if the type is CUSTOM or COGNITO_USER_POOLS. The authorizer identifier is generated by API Gateway when you created the authorizer.

Type: String

Required: No

**operationName (p. 342)**

A human-friendly operation identifier for the method. For example, you can assign the operationName of ListPets for the GET /pets method in the PetStore example.

Type: String

Required: No

**requestModels (p. 342)**

Specifies the Model resources used for the request's content type. Request models are represented as a key/value map, with a content type as the key and a Model name as the value.

Type: String to string map

Required: No

**requestParameters (p. 342)**

A key-value map defining required or optional method request parameters that can be accepted by API Gateway. A key defines a method request parameter name matching the pattern of method.request.{location}.{name}, where location is querystring, path, or header and name is a valid and unique parameter name. The value associated with the key is a Boolean flag indicating whether the parameter is required (true) or optional (false). The method request parameter names defined here are available in Integration to be mapped to integration request parameters or body-mapping templates.

Type: String to boolean map

Required: No
**Response Syntax**

HTTP/1.1 201
Content-type: application/json

```json
{
  "apiKeyRequired": boolean,
  "authorizationScopes": [ "string" ],
  "authorizationType": "string",
  "authorizerId": "String",
  "httpMethod": "string",
  "methodIntegration": {
    "cacheKeyParameters": [ "string" ],
    "cacheNamespace": "string",
    "connectionId": "string",
    "connectionType": "string",
    "contentHandling": "string",
    "credentials": "string",
    "httpMethod": "string",
    "integrationResponses": {
      "string": {
        "contentHandling": "string",
        "responseParameters": {
          "string": "string"
        },
        "responseTemplates": {
          "string": "string"
        },
        "selectionPattern": "string",
        "statusCode": "string"
      }
    },
    "passThroughBehavior": "string",
    "requestParameters": {
      "string": "string"
    },
    "requestTemplates": {
      "string": "string"
    },
    "timeoutInMillis": number,
    "tlsConfig": {
      "insecureSkipVerification": boolean
    },
    "type": "string",
    "uri": "string"
  },
  "methodResponses": {
    "string": {
      "responseModels": {
        "string": "string"
      },
      "responseParameters": {
        "string": boolean
      },
      "statusCode": "string"
    }
  }
}
```
Response Elements

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

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

**apiKeyRequired (p. 344)**

A boolean flag specifying whether a valid ApiKey is required to invoke this method.

Type: Boolean

**authorizationScopes (p. 344)**

A list of authorization scopes configured on the method. The scopes are used with a COGNITO_USER_POOLS authorizer to authorize the method invocation. The authorization works by matching the method scopes against the scopes parsed from the access token in the incoming request. The method invocation is authorized if any method scopes matches a claimed scope in the access token. Otherwise, the invocation is not authorized. When the method scope is configured, the client must provide an access token instead of an identity token for authorization purposes.

Type: Array of strings

**authorizationType (p. 344)**

The method's authorization type. Valid values are NONE for open access, AWS_IAM for using AWS IAM permissions, CUSTOM for using a custom authorizer, or COGNITO_USER_POOLS for using a Cognito user pool.

Type: String

**authorizerId (p. 344)**

The identifier of an authorizer to use on this method. The method's authorization type must be CUSTOM or COGNITO_USER_POOLS.

Type: String

**httpMethod (p. 344)**

The method's HTTP verb.

Type: String

**methodIntegration (p. 344)**

Gets the method's integration responsible for passing the client-submitted request to the back end and performing necessary transformations to make the request compliant with the back end.

Type: [Integration](p. 502) object
**methodResponses (p. 344)**

Gets a method response associated with a given HTTP status code.

Type: String to MethodResponse object map

**operationName (p. 344)**

A human-friendly operation identifier for the method. For example, you can assign the operationName of ListPets for the GET /pets method in the PetStore example.

Type: String

**requestModels (p. 344)**

A key-value map specifying data schemas, represented by Model resources, (as the mapped value) of the request payloads of given content types (as the mapping key).

Type: String to string map

**requestParameters (p. 344)**

A key-value map defining required or optional method request parameters that can be accepted by API Gateway. A key is a method request parameter name matching the pattern of method.request.{location}.{name}, where location is querystring, path, or header and name is a valid and unique parameter name. The value associated with the key is a Boolean flag indicating whether the parameter is required (true) or optional (false). The method request parameter names defined here are available in Integration to be mapped to integration request parameters or templates.

Type: String to boolean map

**requestValidatorId (p. 344)**

The identifier of a RequestValidator for request validation.

Type: String

**Errors**

For information about the errors that are common to all actions, see Common Errors (p. 541).

**BadRequestException**

The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.

HTTP Status Code: 400

**ConflictException**

The request configuration has conflicts. For details, see the accompanying error message.

HTTP Status Code: 409

**LimitExceededException**

The request exceeded the rate limit. Retry after the specified time period.

HTTP Status Code: 429

**NotFoundException**

The requested resource is not found. Make sure that the request URI is correct.
HTTP Status Code: 404

TooManyRequestsException

The request has reached its throttling limit. Retry after the specified time period.

HTTP Status Code: 429

UnauthorizedException

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401

Examples

Create a GET method on an API's root resource

This example illustrates one usage of PutMethod.

Sample Request

```request
PUT /restapis/fugvjdxtri/resources/3kzxbg5sa2/methods/GET HTTP/1.1
Content-Type: application/json
Host: apigateway.us-east-1.amazonaws.com
X-Amz-Date: 20160602T180831Z
Authorization: AWS4-HMAC-SHA256 Credential={access_key_ID}/20160602/us-east-1/apigateway/aws4_request, SignedHeaders=content-length;content-type;host;x-amz-date,
Signature={sig4_hash}

{
  "authorizationType" : "NONE"
}
```

Sample Response

```json
{
  "_links": {
    "curies": [
      ...
    ],
    "self": {
      "href": "/restapis/fugvjdxtri/resources/3kzxbg5sa2/methods/GET",
      "name": "GET",
      "title": "GET"
    },
    "integration:put": {
      "href": "/restapis/fugvjdxtri/resources/3kzxbg5sa2/methods/GET/integration"
    },
    "method:delete": {
      "href": "/restapis/fugvjdxtri/resources/3kzxbg5sa2/methods/GET"
    },
    "method: update": {
      "href": "/restapis/fugvjdxtri/resources/3kzxbg5sa2/methods/GET"
    },
    "methodresponse:put": {
      "href": "/restapis/fugvjdxtri/resources/3kzxbg5sa2/methods/GET/responses/{status_code}",
      "templated": true
    }
  },
```

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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
PutMethodResponse

Adds a MethodResponse to an existing Method resource.

Request Syntax

```
PUT /restapis/restapi_id/resources/resource_id/methods/http_method/responses/status_code
HTTP/1.1
Content-type: application/json

{
  "responseModels": {
    "string": "string"
  },
  "responseParameters": {
    "string": boolean
  }
}
```

URI Request Parameters

The request uses the following URI parameters.

http_method (p. 349)

The HTTP verb of the Method resource.

Required: Yes

resource_id (p. 349)

The Resource identifier for the Method resource.

Required: Yes

restapi_id (p. 349)

The string identifier of the associated RestApi.

Required: Yes

status_code (p. 349)

The method response's status code.

Pattern: [1-5]d\d

Required: Yes

Request Body

The request accepts the following data in JSON format.

responseModels (p. 349)

Specifies the Model resources used for the response's content type. Response models are represented as a key/value map, with a content type as the key and a Model name as the value.

Type: String to string map
Required: No

**responseParameters (p. 349)**

A key-value map specifying required or optional response parameters that API Gateway can send back to the caller. A key defines a method response header name and the associated value is a Boolean flag indicating whether the method response parameter is required or not. The method response header names must match the pattern of `method.response.header.{name}`, where `name` is a valid and unique header name. The response parameter names defined here are available in the integration response to be mapped from an integration response header expressed in `integration.response.header.{name}`, a static value enclosed within a pair of single quotes (e.g., `'application/json'`), or a JSON expression from the back-end response payload in the form of `integration.response.body.{JSON-expression}`, where `JSON-expression` is a valid JSON expression without the `$` prefix.

Type: String to boolean map

Required: No

---

**Response Syntax**

```json
HTTP/1.1 201
Content-type: application/json
{
   "responseModels": {
      "string": "string"
   },
   "responseParameters": {
      "string": boolean
   },
   "statusCode": "string"
}
```

**Response Elements**

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

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

**responseModels (p. 350)**

Specifies the Model resources used for the response's content-type. Response models are represented as a key/value map, with a content-type as the key and a Model name as the value.

Type: String to string map

**responseParameters (p. 350)**

A key-value map specifying required or optional response parameters that API Gateway can send back to the caller. A key defines a method response header and the value specifies whether the associated method response header is required or not. The expression of the key must match the pattern `method.response.header.{name}`, where `name` is a valid and unique header name. API Gateway passes certain integration response data to the method response headers specified here according to the mapping you prescribe in the API's IntegrationResponse. The integration response data that can be mapped include an integration response header expressed in `integration.response.header.{name}`, a static value enclosed within a pair of single quotes (e.g., `'application/json'`), or a JSON expression from the back-end response payload in the
form of integration.response.body.{JSON-expression}, where JSON-expression is a valid JSON expression without the $ prefix.)

Type: String to boolean map

**statusCode (p. 350)**

The method response's status code.

Type: String

Pattern: [1-5]\d\d

**Errors**

For information about the errors that are common to all actions, see [Common Errors (p. 541)](#).

**BadRequestException**

The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.

HTTP Status Code: 400

**ConflictException**

The request configuration has conflicts. For details, see the accompanying error message.

HTTP Status Code: 409

**LimitExceededException**

The request exceeded the rate limit. Retry after the specified time period.

HTTP Status Code: 429

**NotFoundException**

The requested resource is not found. Make sure that the request URI is correct.

HTTP Status Code: 404

**TooManyRequestsException**

The request has reached its throttling limit. Retry after the specified time period.

HTTP Status Code: 429

**UnauthorizedException**

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401

**Examples**

**Set up a method response with an optional Content-Type header**

This example illustrates one usage of PutMethodResponse.
Sample Request

```
PUT /restapis/fugvjdxtri/resources/3kzxbg5sa2/methods/GET/responses/200 HTTP/1.1
Content-Type: application/json
Host: apigateway.us-east-1.amazonaws.com
X-Amz-Date: 20160603T004142Z
Authorization: AWS4-HMAC-SHA256 Credential={access_key_ID}/20160603/us-east-1/
apigateway/aws4_request, SignedHeaders=content-length;content-type;host;x-amz-date,
Signature={sig4_hash}
{
  "responseParameters": {
    "method.response.header.Content-Type": false
  },
  "responseModels": {
    "application/json": "Empty"
  }
}
```

Sample Response

```
{
  "_links": {
    "curies": {
      "name": "methodresponse",
      "templated": true
    },
    "self": {
      "href": "/restapis/fugvjdxtri/resources/3kzxbg5sa2/methods/GET/responses/200",
      "title": "200"
    },
    "methodresponse:delete": {
      "href": "/restapis/fugvjdxtri/resources/3kzxbg5sa2/methods/GET/responses/200"
    },
    "methodresponse:update": {
      "href": "/restapis/fugvjdxtri/resources/3kzxbg5sa2/methods/GET/responses/200"
    }
  },
  "responseModels": {
    "application/json": "Empty"
  },
  "responseParameters": {
    "method.response.header.Content-Type": false
  },
  "statusCode": "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
PutRestApi

A feature of the API Gateway control service for updating an existing API with an input of external API definitions. The update can take the form of merging the supplied definition into the existing API or overwriting the existing API.

Request Syntax

```
PUT /restapis/restapi_id?parameters&failonwarnings=FailOnWarnings&mode=mode HTTP/1.1
body
```

URI Request Parameters

The request uses the following URI parameters.

**failOnWarnings (p. 354)**

A query parameter to indicate whether to rollback the API update (true) or not (false) when a warning is encountered. The default value is false.

**mode (p. 354)**

The mode query parameter to specify the update mode. Valid values are "merge" and "overwrite". By default, the update mode is "merge".

- Valid Values: merge | overwrite

**parameters (p. 354)**

Custom header parameters as part of the request. For example, to exclude DocumentationParts from an imported API, set `ignore=documentation` as a parameters value, as in the AWS CLI command of `aws apigateway import-rest-api --parameters ignore=documentation --body 'file:///path/to/imported-api-body.json'.

**restapi_id (p. 354)**

The string identifier of the associated RestApi.

- Required: Yes

Request Body

The request accepts the following binary data.

**body (p. 354)**

The PUT request body containing external API definitions. Currently, only OpenAPI definition JSON/YAML files are supported. The maximum size of the API definition file is 6MB.

- Required: Yes

Response Syntax

```
HTTP/1.1 200
```
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.

apiKeySource (p. 354)

The source of the API key for metering requests according to a usage plan. Valid values are: >HEADER to read the API key from the X-API-Key header of a request. AUTHORIZER to read the API key from the UsageIdentifierKey from a custom authorizer.

Type: String

Valid Values: HEADER | AUTHORIZER

binaryMediaTypes (p. 354)

The list of binary media types supported by the RestApi. By default, the RestApi supports only UTF-8-encoded text payloads.

Type: Array of strings

createdDate (p. 354)

The timestamp when the API was created.

Type: Timestamp

description (p. 354)

The API's description.

Type: String

disableExecuteApiEndpoint (p. 354)

Specifies whether clients can invoke your API by using the default execute-api endpoint. By default, clients can invoke your API with the default https://[api_id].execute-api.
{region}.amazonaws.com endpoint. To require that clients use a custom domain name to invoke your API, disable the default endpoint.

Type: Boolean

eendpointConfiguration (p. 354)

The endpoint configuration of this RestApi showing the endpoint types of the API.

Type: EndpointConfiguration (p. 499) object

id (p. 354)

The API's identifier. This identifier is unique across all of your APIs in API Gateway.

Type: String

minimumCompressionSize (p. 354)

A nullable integer that is used to enable compression (with non-negative between 0 and 10485760 (10M) bytes, inclusive) or disable compression (with a null value) on an API. When compression is enabled, compression or decompression is not applied on the payload if the payload size is smaller than this value. Setting it to zero allows compression for any payload size.

Type: Integer

name (p. 354)

The API's name.

Type: String

policy (p. 354)

A stringified JSON policy document that applies to this RestApi regardless of the caller and Method configuration.

Type: String

rootResourceId (p. 354)

The API's root resource ID.

Type: String

tags (p. 354)

The collection of tags. Each tag element is associated with a given resource.

Type: String to string map

version (p. 354)

A version identifier for the API.

Type: String

warnings (p. 354)

The warning messages reported when failonwarnings is turned on during API import.

Type: Array of strings

Errors

For information about the errors that are common to all actions, see Common Errors (p. 541).
BadRequestException

The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.

HTTP Status Code: 400

ConflictException

The request configuration has conflicts. For details, see the accompanying error message.

HTTP Status Code: 409

LimitExceededException

The request exceeded the rate limit. Retry after the specified time period.

HTTP Status Code: 429

TooManyRequestsException

The request has reached its throttling limit. Retry after the specified time period.

HTTP Status Code: 429

UnauthorizedException

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401

Examples

Merge a supplied OpenAPI API definition with an existing API

This example illustrates one usage of PutRestApi.

Sample Request

PUT /restapis/wn611yeyp3?mode=merge HTTP/1.1
Content-Type: application/json
Host: apigateway.us-east-1.amazonaws.com
X-Amz-Date: 20160607T154932Z
Authorization: AWS4-HMAC-SHA256 Credential={access_key_ID}/20160607/us-east-1/apigateway/aws4_request, SignedHeaders=content-length;content-type;host;x-amz-date, Signature={sig4_hash}

{
    "swagger": "2.0",
    "info": {
        "version": "2016-06-07T15:48:21Z",
        "title": "HelloWorld"
    },
    "host": "vys2gggws7.execute-api.us-east-1.amazonaws.com",
    "basepath": "/test",
    "schemes": ["https"],
    "paths": {
        "/gello": {
            "get": {
                "consumes": ["application/json"]
            }
        }
    }
}
"application/json",
"produces": [
"application/json"
],
"responses": {
"200": {
"description": "200 response",
"schema": {
"$ref": "#/definitions/Empty"
}
}
},
"x-amazon-apigateway-integration": {
"responses": {
"default": {
"statusCode": "200"
}
}
}
]
},
"post": {
"produces": [
"application/json"
],
"responses": {
"200": {
"description": "200 response",
"schema": {
"$ref": "#/definitions/Empty"
}
}
}
},
"x-amazon-apigateway-integration": {
"responses": {
"default": {
"statusCode": "200"
}
}
}
]
},
"passthroughBehavior": "when_no_match",
"httpMethod": "POST",
"type": "aws"
}
},
"post": {
"produces": [
"application/json"
],
"responses": {
"200": {
"description": "200 response",
"schema": {
"$ref": "#/definitions/Empty"
}
}
}
},
"x-amazon-apigateway-integration": {
"responses": {
"default": {
"statusCode": "200"
}
}
}
]
},
"passthroughBehavior": "when_no_match",
"httpMethod": "POST",
"type": "aws"
}
}
},
"hello": {
"get": {
"produces": [
"application/json"
],
"responses": {
"200": {
"description": "200 response",
"schema": {
"$ref": "#/definitions/Empty"
}
},
"x-amazon-apigateway-integration": {
"responses": {
"default": {
"statusCode": "200"
}
}
}
]
},
"passthroughBehavior": "when_no_match",
"httpMethod": "POST",
"type": "aws"
}
}
"headers": {
    "Access-Control-Allow-Origin": {
        "type": "string"
    }
},
"x-amazon-apigateway-integration": {
    "responses": {
        "default": {
            "statusCode": "200",
            "responseParameters": {
                "method.response.header.Access-Control-Allow-Origin": "*"
            }
        }
    },
    "uri": "https://example.com",
    "passthroughBehavior": "when_no_match",
    "httpMethod": "GET",
    "type": "http"
},
"options": {
    "consumes": [
        "application/json"
    ],
    "produces": [
        "application/json"
    ],
    "responses": {
        "200": {
            "description": "200 response",
            "schema": {
                "$ref": "#/definitions/Empty"
            },
            "headers": {
                "Access-Control-Allow-Origin": {
                    "type": "string"
                },
                "Access-Control-Allow-Methods": {
                    "type": "string"
                },
                "Access-Control-Allow-Headers": {
                    "type": "string"
                }
            }
        }
    },
    "x-amazon-apigateway-integration": {
        "responses": {
            "default": {
                "statusCode": "200",
                "responseParameters": {
                    "method.response.header.Access-Control-Allow-Methods": "'GET,OPTIONS'",
                    "method.response.header.Access-Control-Allow-Headers": "'Content-Type,X-Amz-Date,Authorization,X-Api-Key,X-Amz-Security-Token'",
                    "method.response.header.Access-Control-Allow-Origin": "*"
                }
            }
        },
        "requestTemplates": {
            "application/json": "{"statusCode": 200}"
        },
        "passthroughBehavior": "when_no_match",
        "type": "mock"
    }
Sample Response

```
{
  "_links": {
    "curies": [
      {
        "href": "https://docs.aws.amazon.com/apigateway/latest/developerguide/restapi-authorizer-{rel}.html",
        "name": "authorizer",
        "templated": true
      },
      {
        "href": "https://docs.aws.amazon.com/apigateway/latest/developerguide/restapi-deployment-{rel}.html",
        "name": "deployment",
        "templated": true
      },
      {
        "href": "https://docs.aws.amazon.com/apigateway/latest/developerguide/restapi-model-{rel}.html",
        "name": "model",
        "templated": true
      },
      {
        "href": "https://docs.aws.amazon.com/apigateway/latest/developerguide/restapi-resource-{rel}.html",
        "name": "resource",
        "templated": true
      },
      {
        "href": "https://docs.aws.amazon.com/apigateway/latest/developerguide/restapi-restapi-{rel}.html",
        "name": "restapi",
        "templated": true
      },
      {
        "href": "https://docs.aws.amazon.com/apigateway/latest/developerguide/restapi-stage-{rel}.html",
        "name": "stage",
        "templated": true
      }
    ],
    "self": {
      "href": "/restapis/wn611yeyp3"
    },
    "authorizer:by-id": {
      "href": "/restapis/wn611yeyp3/authorizers/{authorizer_id}"
    },
    "authorizer:create": {
      "href": "/restapis/wn611yeyp3/authorizers"
    },
    "deployment:by-id": {
      "href": "/restapis/wn611yeyp3/deployments/{deployment_id}"
    }
  }
}
```
"templated": true
},
"deployment:create": {
  "href": "/restapis/wn611yeyp3/deployments"
},
"model:by-name": {
  "href": "/restapis/wn611yeyp3/models/{model_name}?flatten=false",
  "templated": true
},
"model:create": {
  "href": "/restapis/wn611yeyp3/models"
},
"resource:by-id": {
  "href": "/restapis/wn611yeyp3/resources/{resource_id}?embed",
  "templated": true
},
"resource:create": {
  "href": "/restapis/wn611yeyp3/resources/s3dmsjgijc"
},
"restapi:authorizers": {
  "href": "/restapis/wn611yeyp3/authorizers"
},
"restapi:delete": {
  "href": "/restapis/wn611yeyp3"
},
"restapi:deployments": {
  "href": "/restapis/wn611yeyp3/deployments{?limit}"
},
"restapi:models": {
  "href": "/restapis/wn611yeyp3/models"
},
"restapi:resources": {
  "href": "/restapis/wn611yeyp3/resources{?limit,embed}"
},
"restapi:stages": {
  "href": "/restapis/wn611yeyp3/stages{?deployment_id}"
},
"restapi:update": {
  "href": "/restapis/wn611yeyp3"
},
"stage:by-name": {
  "href": "/restapis/wn611yeyp3/stages/{stage_name}"
},
"stage:create": {
  "href": "/restapis/wn611yeyp3/stages"
},
"createdDate": "2016-06-06T23:49:37Z",
"id": "wn611yeyp3",
"name": "HelloWorld"
}

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++

API Version 2015-07-09
• 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

Adds or updates a tag on a given resource.

Request Syntax

PUT /tags/resource_arn HTTP/1.1
Content-type: application/json

{  
  "tags": {
    "string": "string"
  }
}

URI Request Parameters

The request uses the following URI parameters.

resource_arn (p. 363)

The ARN of a resource that can be tagged.

Required: Yes

Request Body

The request accepts the following data in JSON format.

tags (p. 363)

The key-value map of strings. The valid character set is [a-zA-Z+-_=./]. The tag key can be up to 128 characters and must not start with aws:. The tag value can be up to 256 characters.

Type: String to string map

Required: Yes

Response Syntax

HTTP/1.1 204

Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors (p. 541).
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
TestInvokeAuthorizer

Simulate the execution of an Authorizer in your RestApi with headers, parameters, and an incoming request body.

Request Syntax

```
POST /restapis/restapi_id/authorizers/authorizer_id HTTP/1.1
Content-type: application/json

{
    "additionalContext": {
        "string": "string"
    },
    "body": "string",
    "headers": {
        "string": "string"
    },
    "multiValueHeaders": {
        "string": [{"string"]
    },
    "pathWithQueryString": "string",
    "stageVariables": {
        "string": "string"
    }
}
```

URI Request Parameters

The request uses the following URI parameters.

**authorizer_id (p. 365)**

Specifies a test invoke authorizer request's Authorizer ID.

Required: Yes

**restapi_id (p. 365)**

The string identifier of the associated RestApi.

Required: Yes

Request Body

The request accepts the following data in JSON format.

**additionalContext (p. 365)**

A key-value map of additional context variables.

Type: String to string map

Required: No

**body (p. 365)**

The simulated request body of an incoming invocation request.
Type: String
Required: No

**headers (p. 365)**

A key-value map of headers to simulate an incoming invocation request. This is where the incoming authorization token, or identity source, should be specified.

Type: String to string map
Required: No

**multiValueHeaders (p. 365)**

The headers as a map from string to list of values to simulate an incoming invocation request. This is where the incoming authorization token, or identity source, may be specified.

Type: String to array of strings map
Required: No

**pathWithQueryString (p. 365)**

The URI path, including query string, of the simulated invocation request. Use this to specify path parameters and query string parameters.

Type: String
Required: No

**stageVariables (p. 365)**

A key-value map of stage variables to simulate an invocation on a deployed Stage.

Type: String to string map
Required: No

---

**Response Syntax**

```
HTTP/1.1 200
Content-type: application/json

{   
    "authorization": {   
        "string": [ "string" ]
    },
    "claims": {   
        "string": "string"
    },
    "clientStatus": number,
    "latency": number,
    "log": "string",
    "policy": "string",
    "principalId": "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.

**authorization (p. 366)**

The authorization response.
Type: String to array of strings map

**claims (p. 366)**

The open identity claims, with any supported custom attributes, returned from the Cognito User Pool configured for the API.
Type: String to string map

**clientStatus (p. 366)**

The HTTP status code that the client would have received. Value is 0 if the authorizer succeeded.
Type: Integer

**latency (p. 366)**

The execution latency, in ms, of the test authorizer request.
Type: Long

**log (p. 366)**

The API Gateway execution log for the test authorizer request.
Type: String

**policy (p. 366)**

The JSON policy document returned by the Authorizer
Type: String

**principalId (p. 366)**

The principal identity returned by the Authorizer
Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors (p. 541)](https://docs.aws.amazon.com/APIReference/API_Errors.html).

**BadRequestException**

The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.

HTTP Status Code: 400

**NotFoundException**

The requested resource is not found. Make sure that the request URI is correct.

HTTP Status Code: 404

**TooManyRequestsException**

The request has reached its throttling limit. Retry after the specified time period.
HTTP Status Code: 429

UnauthorizedException

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401

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
TestInvokeMethod

Simulate the invocation of a Method in your RestApi with headers, parameters, and an incoming request body.

Request Syntax

POST /restapis/restapi_id/resources/resource_id/methods/http_method HTTP/1.1
Content-type: application/json

{
    "body": "string",
    "clientCertificateId": "string",
    "headers": {
        "string": "string"
    },
    "multiValueHeaders": {
        "string": [ "string" ]
    },
    "pathWithQueryString": "string",
    "stageVariables": {
        "string": "string"
    }
}

URI Request Parameters

The request uses the following URI parameters.

**http_method (p. 369)**

Specifies a test invoke method request's HTTP method.

Required: Yes

**resource_id (p. 369)**

Specifies a test invoke method request's resource ID.

Required: Yes

**restapi_id (p. 369)**

The string identifier of the associated RestApi.

Required: Yes

Request Body

The request accepts the following data in JSON format.

**body (p. 369)**

The simulated request body of an incoming invocation request.

Type: String

Required: No
clientCertificateId (p. 369)
A ClientCertificate identifier to use in the test invocation. API Gateway will use the certificate when making the HTTPS request to the defined back-end endpoint.
Type: String
Required: No
headers (p. 369)
A key-value map of headers to simulate an incoming invocation request.
Type: String to string map
Required: No
multiValueHeaders (p. 369)
The headers as a map from string to list of values to simulate an incoming invocation request.
Type: String to array of strings map
Required: No
pathWithQueryString (p. 369)
The URI path, including query string, of the simulated invocation request. Use this to specify path parameters and query string parameters.
Type: String
Required: No
stageVariables (p. 369)
A key-value map of stage variables to simulate an invocation on a deployed Stage.
Type: String to string map
Required: No

Response Syntax

HTTP/1.1 200
Content-type: application/json
{
  "body": "string",
  "headers": {
    "string": "string"
  },
  "latency": number,
  "log": "string",
  "multiValueHeaders": {
    "string": [ "string" ]
  },
  "status": 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.

**body (p. 370)**

The body of the HTTP response.
Type: String

**headers (p. 370)**

The headers of the HTTP response.
Type: String to string map

**latency (p. 370)**

The execution latency, in ms, of the test invoke request.
Type: Long

**log (p. 370)**

The API Gateway execution log for the test invoke request.
Type: String

**multiValueHeaders (p. 370)**

The headers of the HTTP response as a map from string to list of values.
Type: String to array of strings map

**status (p. 370)**

The HTTP status code.
Type: Integer

---

**Errors**

For information about the errors that are common to all actions, see [Common Errors (p. 541)](#).

**BadRequestException**

The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.

HTTP Status Code: 400

**NotFoundException**

The requested resource is not found. Make sure that the request URI is correct.

HTTP Status Code: 404

**TooManyRequestsException**

The request has reached its throttling limit. Retry after the specified time period.

HTTP Status Code: 429

**UnauthorizedException**

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401
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

Removes a tag from a given resource.

Request Syntax

DELETE /tags/{resource_arn}?tagKeys={tagKeys} HTTP/1.1

URI Request Parameters

The request uses the following URI parameters.

resource_arn (p. 373)

The ARN of a resource that can be tagged.

Required: Yes
tagKeys (p. 373)

The Tag keys to delete.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

HTTP/1.1 204

Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see Common Errors (p. 541).

BadRequestException

The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.

HTTP Status Code: 400

ConflictException

The request configuration has conflicts. For details, see the accompanying error message.

HTTP Status Code: 409
LimitExceededException

The request exceeded the rate limit. Retry after the specified time period.

HTTP Status Code: 429

NotFoundException

The requested resource is not found. Make sure that the request URI is correct.

HTTP Status Code: 404

TooManyRequestsException

The request has reached its throttling limit. Retry after the specified time period.

HTTP Status Code: 429

UnauthorizedException

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401

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
UpdateAccount

Changes information about the current Account resource.

Request Syntax

PATCH /account HTTP/1.1
Content-type: application/json

{
    "patchOperations": [
        {
            "from": "string",
            "op": "string",
            "path": "string",
            "value": "string"
        }
    ]
}

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

patchOperations (p. 375)

For more information about supported patch operations, see Patch Operations (p. 543).

Type: Array of PatchOperation (p. 518) objects

Required: No

Response Syntax

HTTP/1.1 200
Content-type: application/json

{
    "apiKeyVersion": "string",
    "cloudwatchRoleArn": "string",
    "features": [ "string" ],
    "throttleSettings": {
        "burstLimit": number,
        "rateLimit": 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.

**apiKeyVersion (p. 375)**

The version of the API keys used for the account.

Type: String

**cloudwatchRoleArn (p. 375)**

The ARN of an Amazon CloudWatch role for the current Account.

Type: String

**features (p. 375)**

A list of features supported for the account. When usage plans are enabled, the features list will include an entry of "UsagePlans".

Type: Array of strings

**throttleSettings (p. 375)**

Specifies the API request limits configured for the current Account.

Type: [ThrottleSettings (p. 532)] object

### Errors

For information about the errors that are common to all actions, see [Common Errors (p. 541)].

**BadRequestsException**

The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.

HTTP Status Code: 400

**ConflictException**

The request configuration has conflicts. For details, see the accompanying error message.

HTTP Status Code: 409

**LimitExceededException**

The request exceeded the rate limit. Retry after the specified time period.

HTTP Status Code: 429

**NotFoundException**

The requested resource is not found. Make sure that the request URI is correct.

HTTP Status Code: 404

**TooManyRequestsException**

The request has reached its throttling limit. Retry after the specified time period.

HTTP Status Code: 429

**UnauthorizedException**

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401
Examples

Update an Account's CloudWatch role

The following example updates an account's CloudWatch role ARN by replacing the existing one with a new CloudWatch role ARN.

If you specify an invalid role, i.e., a role that does not permit API Gateway to invoke CloudWatch logs, you will receive an error response. If you attempt to replace the throttleSettings, in part or as a whole, you will receive 400 Bad Request response with an error message stating that /throttleSettings value cannot be changed this way, but the /cloudwatchRoleArn value can.

Sample Request

PATCH /account HTTP/1.1
Content-Type: application/json
Host: apigateway.us-east-1.amazonaws.com
X-Amz-Date: 20160531T212738Z
Authorization: AWS4-HMAC-SHA256 Credential={access_key_ID}/20160531/us-east-1/
apigateway/aws4_request, SignedHeaders=content-length;content-type;host;x-amz-date,
Signature={sig4_hash}
{
  "patchOperations" : [ {
    "op" : "replace",
    "path" : "/cloudwatchRoleArn",
    "value" : "arn:aws:iam::123456789012:role/apigAwsProxyRole"
  }]
}

Sample Response

{
  "_links": {
    "curies": {
      "href": "https://docs.aws.amazon.com/apigateway/latest/developerguide/account-
apigateway-{rel}.html",
      "name": "account",
      "templated": true
    },
    "self": {
      "href": "/account"
    },
    "account:update": {
      "href": "/account"
    },
    "cloudwatchRoleArn": "arn:aws:iam::123456789012:role/apigAwsProxyRole",
    "throttleSettings": {
      "rateLimit": 500,
      "burstLimit": 1000
    }
  }
}

See Also

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

- AWS Command Line Interface
See Also

- 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
UpdateApiKey

Changes information about an ApiKey resource.

Request Syntax

PATCH /apikeys/api_key HTTP/1.1
Content-type: application/json

{
    "patchOperations": [
        {
            "from": "string",
            "op": "string",
            "path": "string",
            "value": "string"
        }
    ]
}

URI Request Parameters

The request uses the following URI parameters.

api_key (p. 379)

The identifier of the ApiKey resource to be updated.

Required: Yes

Request Body

The request accepts the following data in JSON format.

patchOperations (p. 379)

For more information about supported patch operations, see Patch Operations (p. 543).

Type: Array of PatchOperation (p. 518) objects

Required: No

Response Syntax

HTTP/1.1 200
Content-type: application/json

{
    "createdDate": number,
    "customerId": "string",
    "description": "string",
    "enabled": boolean,
    "id": "string",
    "lastUpdatedDate": number,
    "name": "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.

- **createdDate (p. 379)**
  - The timestamp when the API Key was created.
  - Type: Timestamp

- **customerId (p. 379)**
  - An AWS Marketplace customer identifier, when integrating with the AWS SaaS Marketplace.
  - Type: String

- **description (p. 379)**
  - The description of the API Key.
  - Type: String

- **enabled (p. 379)**
  - Specifies whether the API Key can be used by callers.
  - Type: Boolean

- **id (p. 379)**
  - The identifier of the API Key.
  - Type: String

- **lastUpdatedDate (p. 379)**
  - The timestamp when the API Key was last updated.
  - Type: Timestamp

- **name (p. 379)**
  - The name of the API Key.
  - Type: String

- **stageKeys (p. 379)**
  - A list of Stage resources that are associated with the ApiKey resource.
  - Type: Array of strings

- **tags (p. 379)**
  - The collection of tags. Each tag element is associated with a given resource.
  - Type: String to string map
value (p. 379)

The value of the API Key.
Type: String

Errors

For information about the errors that are common to all actions, see Common Errors (p. 541).

BadRequestException

The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.

HTTP Status Code: 400

ConflictException

The request configuration has conflicts. For details, see the accompanying error message.

HTTP Status Code: 409

LimitExceededException

The request exceeded the rate limit. Retry after the specified time period.

HTTP Status Code: 429

NotFoundException

The requested resource is not found. Make sure that the request URI is correct.

HTTP Status Code: 404

TooManyRequestsException

The request has reached its throttling limit. Retry after the specified time period.

HTTP Status Code: 429

UnauthorizedException

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401

Examples

Retrieve client certificates

The following example request retrieves the available client certificates in the caller's AWS account.

A successful response returns the requested ClientCertificate resources that can be navigated to by following the linked item or examining the embedded item resource.

Sample Request
Sample Response

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
UpdateAuthorizer

Updates an existing Authorizer resource.

Request Syntax

PATCH /restapis/restapi_id/authorizers/authorizer_id HTTP/1.1
Content-type: application/json

{
    "patchOperations": [
        {
            "from": "string",
            "op": "string",
            "path": "string",
            "value": "string"
        }
    ]
}

URI Request Parameters

The request uses the following URI parameters.

**authorizer_id (p. 383)**

The identifier of the Authorizer resource.

Required: Yes

**restapi_id (p. 383)**

The string identifier of the associated RestApi.

Required: Yes

Request Body

The request accepts the following data in JSON format.

**patchOperations (p. 383)**

For more information about supported patch operations, see Patch Operations (p. 543).

Type: Array of PatchOperation (p. 518) objects

Required: No

Response Syntax

HTTP/1.1 200
Content-type: application/json

{
    "authorizerCredentials": "string",
    "authorizerResultTtlInSeconds": 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.

**authorizerCredentials (p. 383)**

Specifies the required credentials as an IAM role for API Gateway to invoke the authorizer. To specify an IAM role for API Gateway to assume, use the role's Amazon Resource Name (ARN). To use resource-based permissions on the Lambda function, specify null.

Type: String

**authorizerResultTtlInSeconds (p. 383)**

The TTL in seconds of cached authorizer results. If it equals 0, authorization caching is disabled. If it is greater than 0, API Gateway will cache authorizer responses. If this field is not set, the default value is 300. The maximum value is 3600, or 1 hour.

Type: Integer

**authorizerUri (p. 383)**

Specifies the authorizer's Uniform Resource Identifier (URI). For TOKEN or REQUEST authorizers, this must be a well-formed Lambda function URI, for example, `arn:aws:apigateway:us-west-2:lambda:path/2015-03-31/functions/arn:aws:lambda:us-west-2: {account_id}:function:{lambda_function_name}/invocations`. In general, the URI has this form `arn:aws:apigateway:{region}:lambda:path/{service_api}`, where `{region}` is the same as the region hosting the Lambda function, path indicates that the remaining substring in the URI should be treated as the path to the resource, including the initial `/`. For Lambda functions, this is usually of the form `/2015-03-31/functions/[FunctionARN]/invocations`.

Type: String

**authType (p. 383)**

Optional customer-defined field, used in OpenAPI imports and exports without functional impact.

Type: String

**id (p. 383)**

The identifier for the authorizer resource.

Type: String

**identitySource (p. 383)**

The identity source for which authorization is requested. For a TOKEN or COGNITO_USER_POOLS authorizer, this is required and specifies the request header mapping expression for the custom header holding the authorization token submitted by the client. For example, if the token header name is Auth, the header mapping expression is `method.request.header.Auth`.

Type: String
REQUEST authorizer, this is required when authorization caching is enabled. The value is a comma-separated string of one or more mapping expressions of the specified request parameters. For example, if an Auth header, a Name query string parameter are defined as identity sources, this value is method.request.header.Auth, method.request.querystring.Name. These parameters will be used to derive the authorization caching key and to perform runtime validation of the REQUEST authorizer by verifying all of the identity-related request parameters are present, not null and non-empty. Only when this is true does the authorizer invoke the authorizer Lambda function, otherwise, it returns a 401 Unauthorized response without calling the Lambda function. The valid value is a string of comma-separated mapping expressions of the specified request parameters. When the authorization caching is not enabled, this property is optional.

Type: String

identityValidationExpression (p. 383)

A validation expression for the incoming identity token. For TOKEN authorizers, this value is a regular expression. For COGNITO_USER_POOLS authorizers, API Gateway will match the aud field of the incoming token from the client against the specified regular expression. It will invoke the authorizer's Lambda function when there is a match. Otherwise, it will return a 401 Unauthorized response without calling the Lambda function. The validation expression does not apply to the REQUEST authorizer.

Type: String

name (p. 383)

The name of the authorizer.

Type: String

providerARNs (p. 383)

A list of the Amazon Cognito user pool ARNs for the COGNITO_USER_POOLS authorizer. Each element is of this format: arn:aws:cognito-idp:{region}:{account_id}:userpool/{user_pool_id}. For a TOKEN or REQUEST authorizer, this is not defined.

Type: Array of strings

type (p. 383)

The authorizer type. Valid values are TOKEN for a Lambda function using a single authorization token submitted in a custom header, REQUEST for a Lambda function using incoming request parameters, and COGNITO_USER_POOLS for using an Amazon Cognito user pool.

Type: String

Valid Values: TOKEN | REQUEST | COGNITO_USER_POOLS

Errors

For information about the errors that are common to all actions, see Common Errors (p. 541).

BadRequestException

The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.

HTTP Status Code: 400

ConflictException

The request configuration has conflicts. For details, see the accompanying error message.
HTTP Status Code: 409

LimitExceededException

The request exceeded the rate limit. Retry after the specified time period.

HTTP Status Code: 429

NotFoundException

The requested resource is not found. Make sure that the request URI is correct.

HTTP Status Code: 404

TooManyRequestsException

The request has reached its throttling limit. Retry after the specified time period.

HTTP Status Code: 429

UnauthorizedException

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401

Examples

Update a custom authorizer

The following request updates the identitySource property of a custom authorizer to use a different header to pass the token used by the specified custom authorizer.

Sample Request

PATCH /restapis/mxsmn867vb/authorizers/4unj71 HTTP/1.1
Content-Type: application/json
Host: apigateway.us-east-1.amazonaws.com
X-Amz-Date: 20170223T233106Z
Authorization: AWS4-HMAC-SHA256 Credential={access_key_ID}/20170223/us-east-1/apigateway/aws4_request, SignedHeaders=content-length;content-type;host;x-amz-date, Signature={sig4_hash}

{
  "patchOperations": [
    {
      "op": "replace",
      "path": "/identitySource",
      "value": "method.request.header.ApiAuth"
    }
  ]
}

Sample Response

{
  "_links": {
    "curies": {
      "href": "https://docs.aws.amazon.com/apigateway/latest/developerguide/restapi-authorizer-{rel}.html",
      "name": "authorizer",
      "templated": 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](#)
UpdateBasePathMapping

Changes information about the BasePathMapping resource.

Request Syntax

```
PATCH /domainnames/domain_name/basepathmappings/base_path HTTP/1.1
Content-type: application/json
{
  "patchOperations": [
    {
      "from": "string",
      "op": "string",
      "path": "string",
      "value": "string"
    }
  ]
}
```

URI Request Parameters

The request uses the following URI parameters.

**base_path (p. 388)**

The base path of the BasePathMapping resource to change.

To specify an empty base path, set this parameter to '(none)'.

Required: Yes

**domain_name (p. 388)**

The domain name of the BasePathMapping resource to change.

Required: Yes

Request Body

The request accepts the following data in JSON format.

**patchOperations (p. 388)**

For more information about supported patch operations, see Patch Operations (p. 543).

Type: Array of PatchOperation (p. 518) objects

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json
```
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.

**basePath (p. 388)**

The base path name that callers of the API must provide as part of the URL after the domain name.

Type: String

**restApiId (p. 388)**

The string identifier of the associated RestApi.

Type: String

**stage (p. 388)**

The name of the associated stage.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors (p. 541).

**BadRequestException**

The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.

HTTP Status Code: 400

**ConflictException**

The request configuration has conflicts. For details, see the accompanying error message.

HTTP Status Code: 409

**LimitExceededException**

The request exceeded the rate limit. Retry after the specified time period.

HTTP Status Code: 429

**NotFoundException**

The requested resource is not found. Make sure that the request URI is correct.

HTTP Status Code: 404

**TooManyRequestsException**

The request has reached its throttling limit. Retry after the specified time period.
HTTP Status Code: 429
**UnauthorizedException**

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401

Examples

Update the base path mapping of an API

The following example request updates the base path (TestApi) of a custom domain name (a.b.c.com) to map to a different deployment stage (stage2 of an API (fugvjdxtri)).

Sample Request

```
PATCH /domainnames/a.b.c.com/basepathmappings/TestApi HTTP/1.1
Content-Type: application/json
Host: apigateway.us-east-1.amazonaws.com
X-Amz-Date: 20160615T025216Z
Authorization: AWS4-HMAC-SHA256 Credential={access_key_ID}/20160615/us-east-1/
apigateway/aws4_request, SignedHeaders=content-length;content-type;host;x-amz-date,
Signature={sig4_hash}

{
  "patchOperations" : [ {
    "op" : "replace",
    "path" : "/stage",
    "value" : "stage2"
  } ]
}
```

Sample Response

```
{
  "_links": {
    "curies": {
      "href": "https://docs.aws.amazon.com/apigateway/latest/developerguide/restapi-
basepathmapping-{rel}.html",
      "name": "basepathmapping",
      "templated": true
    },
    "self": {
      "href": "/domainnames/a.b.c.com/basepathmappings/TestApi"
    },
    "basepathmapping:create": {
      "href": "/domainnames/a.b.c.com/basepathmappings"
    },
    "basepathmapping:delete": {
      "href": "/domainnames/a.b.c.com/basepathmappings/TestApi"
    },
    "basepathmapping:update": {
      "href": "/domainnames/a.b.c.com/basepathmappings/TestApi"
    },
    "basepath": "TestApi",
    "restApiId": "fugvjdxtri",
    "stage": "stage2"
  }
}
```
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
UpdateClientCertificate

Changes information about an ClientCertificate resource.

Request Syntax

PATCH /clientcertificates/clientcertificate_id HTTP/1.1
Content-type: application/json

{
    "patchOperations": [
        {
            "from": "string",
            "op": "string",
            "path": "string",
            "value": "string"
        }
    ]
}

URI Request Parameters

The request uses the following URI parameters.

clientcertificate_id (p. 392)

The identifier of the ClientCertificate resource to be updated.

Required: Yes

Request Body

The request accepts the following data in JSON format.

patchOperations (p. 392)

For more information about supported patch operations, see Patch Operations (p. 543).

Type: Array of PatchOperation (p. 518) objects

Required: No

Response Syntax

HTTP/1.1 200
Content-type: application/json

{
    "clientCertificateId": "string",
    "createdDate": number,
    "description": "string",
    "expirationDate": number,
    "pemEncodedCertificate": "string",
    "tags": {
        "string": "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.

**clientCertificateId** *(p. 392)*

The identifier of the client certificate.

Type: String

**createdDate** *(p. 392)*

The timestamp when the client certificate was created.

Type: Timestamp

**description** *(p. 392)*

The description of the client certificate.

Type: String

**expirationDate** *(p. 392)*

The timestamp when the client certificate will expire.

Type: Timestamp

**pemEncodedCertificate** *(p. 392)*

The PEM-encoded public key of the client certificate, which can be used to configure certificate authentication in the integration endpoint.

Type: String

**tags** *(p. 392)*

The collection of tags. Each tag element is associated with a given resource.

Type: String to string map

Errors

For information about the errors that are common to all actions, see *Common Errors* *(p. 541).*

**BadRequestException**

The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.

HTTP Status Code: 400

**ConflictException**

The request configuration has conflicts. For details, see the accompanying error message.

HTTP Status Code: 409
**LimitExceededException**

The request exceeded the rate limit. Retry after the specified time period.

HTTP Status Code: 429

**NotFoundException**

The requested resource is not found. Make sure that the request URI is correct.

HTTP Status Code: 404

**TooManyRequestsException**

The request has reached its throttling limit. Retry after the specified time period.

HTTP Status Code: 429

**UnauthorizedException**

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401

**Examples**

**Update the description of a client-side certificate**

This example illustrates one usage of UpdateClientCertificate.

**Sample Request**

```plaintext
PATCH /clientcertificates/9ao60f HTTP/1.1
Content-Type: application/json
Host: apigateway.us-east-1.amazonaws.com
X-Amz-Date: 20160615T225025Z
Authorization: AWS4-HMAC-SHA256 Credential={access_key_ID}/20160615/us-east-1/
apigateway/aws4_request, SignedHeaders=content-length;content-type;host;x-amz-date,
Signature={sig4_hash}

{
  "patchOperations": [
    {
      "op": "replace",
      "path": "/description",
      "value": "my second client-side cert"
    }
  ]
}
```

**Sample Response**

```plaintext
{
  "_links": {
    "curies": {
      "href": "https://docs.aws.amazon.com/apigateway/latest/developerguide/restapi-clientcertificate-{rel}.html",
      "name": "clientcertificate",
      "templated": true
    },
    "self": {
      "href": "/clientcertificates/9ao60f"
    }
  }
}
```
"clientcertificate:delete": {
    "href": "/clientcertificates/9ao60f"
},
"clientcertificate:update": {
    "href": "/clientcertificates/9ao60f"
}
},
"clientCertificateId": "9ao60f",
"createdDate": "2016-06-15T22:33:13Z",
"description": "my second client-side cert",
"expirationDate": "2017-06-15T22:33:13Z",
"pemEncodedCertificate": "-----BEGIN CERTIFICATE-----
MIIC6TC...
-----END CERTIFICATE-----"}

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
UpdateDeployment

Changes information about a Deployment resource.

Request Syntax

```
PATCH /restapis/restapi_id/deployments/deployment_id HTTP/1.1
Content-type: application/json

{
    "patchOperations": [
        {
            "from": "string",
            "op": "string",
            "path": "string",
            "value": "string"
        }
    ]
}
```

URI Request Parameters

The request uses the following URI parameters.

**deployment_id (p. 396)**

The replacement identifier for the Deployment resource to change information about.

Required: Yes

**restapi_id (p. 396)**

The string identifier of the associated RestApi.

Required: Yes

Request Body

The request accepts the following data in JSON format.

**patchOperations (p. 396)**

For more information about supported patch operations, see Patch Operations (p. 543).

Type: Array of PatchOperation (p. 518) objects

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
    "$apiSummary": {
```
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.

**apiSummary (p. 396)**

A summary of the RestApi at the date and time that the deployment resource was created.

Type: String to string to MethodSnapshot (p. 514) object map map

**createdDate (p. 396)**

The date and time that the deployment resource was created.

Type: Timestamp

**description (p. 396)**

The description for the deployment resource.

Type: String

**id (p. 396)**

The identifier for the deployment resource.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors (p. 541).

**BadRequestException**

The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.

HTTP Status Code: 400

**ConflictException**

The request configuration has conflicts. For details, see the accompanying error message.

HTTP Status Code: 409

**LimitExceededException**

The request exceeded the rate limit. Retry after the specified time period.
Examples

Update a deployment description

This example illustrates one usage of UpdateDeployment.

Sample Request

```
PATCH /restapis/fugvjdxtri/deployments/dzacq7 HTTP/1.1
Content-Type: application/json
Host: apigateway.us-east-1.amazonaws.com
X-Amz-Date: 20160603T192159Z
Authorization: AWS4-HMAC-SHA256 Credential={access_key_ID}/20160603/us-east-1/apigateway/aws4_request, SignedHeaders=content-length;content-type;host;x-amz-date, Signature={sig4_hash}

{
    "patchOperations" : [ {
        "op" : "replace",
        "path" : "/description",
        "value" : "Updated first deployment"
    } ]
}
```

Sample Response

```
{
    "_links": {
        "curies": {
            "href": "https://docs.aws.amazon.com/apigateway/latest/developerguide/restapi-deployment-{rel}.html",
            "name": "deployment",
            "templated": 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**
UpdateDocumentationPart

Updates a documentation part.

Request Syntax

PATCH /restapis/restapi_id/documentation/parts/part_id HTTP/1.1
Content-type: application/json

{
    "patchOperations": [
        {
            "from": "string",
            "op": "string",
            "path": "string",
            "value": "string"
        }
    ]
}

URI Request Parameters

The request uses the following URI parameters.

**part_id (p. 400)**

The identifier of the to-be-updated documentation part.

Required: Yes

**restapi_id (p. 400)**

The string identifier of the associated RestApi.

Required: Yes

Request Body

The request accepts the following data in JSON format.

**patchOperations (p. 400)**

For more information about supported patch operations, see Patch Operations (p. 543).

Type: Array of PatchOperation (p. 518) objects

Required: No

Response Syntax

HTTP/1.1 200
Content-type: application/json

{
    "id": "string",
    "location": {

    }
}
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. 400)**

The DocumentationPart identifier, generated by API Gateway when the DocumentationPart is created.

Type: String

**location (p. 400)**

The location of the API entity to which the documentation applies. Valid fields depend on the targeted API entity type. All the valid location fields are not required. If not explicitly specified, a valid location field is treated as a wildcard and associated documentation content may be inherited by matching entities, unless overridden.

Type: DocumentationPartLocation (p. 493) object

**properties (p. 400)**

A content map of API-specific key-value pairs describing the targeted API entity. The map must be encoded as a JSON string, e.g., `{ "description": "The API does ..." }`. Only OpenAPI-compliant documentation-related fields from the properties map are exported and, hence, published as part of the API entity definitions, while the original documentation parts are exported in a OpenAPI extension of x-amazon-apigateway-documentation.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors (p. 541).

**BadRequestException**

The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.

HTTP Status Code: 400

**ConflictException**

The request configuration has conflicts. For details, see the accompanying error message.

HTTP Status Code: 409

**LimitExceededException**

The request exceeded the rate limit. Retry after the specified time period.
HTTP Status Code: 429
**NotFoundException**

The requested resource is not found. Make sure that the request URI is correct.

HTTP Status Code: 404
**TooManyRequestsException**

The request has reached its throttling limit. Retry after the specified time period.

HTTP Status Code: 429
**UnauthorizedException**

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401

**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
UpdateDocumentationVersion

Updates a documentation version.

Request Syntax

```json
PATCH /restapis/restapi_id/documentation/versions/doc_version HTTP/1.1
Content-type: application/json
{
  "patchOperations": [
    {
      "from": "string",
      "op": "string",
      "path": "string",
      "value": "string"
    }
  ]
}
```

URI Request Parameters

The request uses the following URI parameters.

**doc_version (p. 403)**

The version identifier of the to-be-updated documentation version.

Required: Yes

**restapi_id (p. 403)**

The string identifier of the associated RestApi.

Required: Yes

Request Body

The request accepts the following data in JSON format.

**patchOperations (p. 403)**

For more information about supported patch operations, see Patch Operations (p. 543).

Type: Array of PatchOperation (p. 518) objects

Required: No

Response Syntax

```json
HTTP/1.1 200
Content-type: application/json
{
  "createdDate": 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.

`createdDate (p. 403)`

The date when the API documentation snapshot is created.

Type: Timestamp

`description (p. 403)`

The description of the API documentation snapshot.

Type: String

`version (p. 403)`

The version identifier of the API documentation snapshot.

Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors (p. 541)].

`BadRequestException`

The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.

HTTP Status Code: 400

`ConflictException`

The request configuration has conflicts. For details, see the accompanying error message.

HTTP Status Code: 409

`LimitExceededException`

The request exceeded the rate limit. Retry after the specified time period.

HTTP Status Code: 429

`NotFoundException`

The requested resource is not found. Make sure that the request URI is correct.

HTTP Status Code: 404

`TooManyRequestsException`

The request has reached its throttling limit. Retry after the specified time period.

HTTP Status Code: 429
UnauthorizedException

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401

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
UpdateDomainName

Changes information about the DomainName resource.

Request Syntax

PATCH /domainnames/{domain_name} HTTP/1.1
Content-type: application/json

```
{
  "patchOperations": [
    {
      "from": "string",
      "op": "string",
      "path": "string",
      "value": "string"
    }
  ]
}
```

URI Request Parameters

The request uses the following URI parameters.

**domain_name (p. 406)**

The name of the DomainName resource to be changed.

Required: Yes

Request Body

The request accepts the following data in JSON format.

**patchOperations (p. 406)**

For more information about supported patch operations, see Patch Operations (p. 543).

Type: Array of PatchOperation (p. 518) objects

Required: No

Response Syntax

HTTP/1.1 200
Content-type: application/json

```
{
  "certificateArn": "string",
  "certificateName": "string",
  "certificateUploadDate": number,
  "distributionDomainName": "string",
  "distributionHostedZoneId": "string",
  "domainName": "string",
  "domainNameStatus": "string",
}
```
"domainNameStatusMessage": "string",
"endpointConfiguration": {
  "types": [ "string" ],
  "vpcEndpointIds": [ "string" ]
},
"mutualTlsAuthentication": {
  "truststoreUri": "string",
  "truststoreVersion": "string",
  "truststoreWarnings": [ "string" ]
},
"ownershipVerificationCertificateArn": "string",
"regionalCertificateArn": "string",
"regionalCertificateName": "string",
"regionalDomainName": "string",
"regionalHostedZoneId": "string",
"securityPolicy": "string",
"tags": {
  "string": "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.

certificateArn (p. 406)

The reference to an AWS-managed certificate that will be used by edge-optimized endpoint for this domain name. AWS Certificate Manager is the only supported source.

Type: String
certificateName (p. 406)

The name of the certificate that will be used by edge-optimized endpoint for this domain name.

Type: String
certificateUploadDate (p. 406)

The timestamp when the certificate that was used by edge-optimized endpoint for this domain name was uploaded.

Type: Timestamp
distributionDomainName (p. 406)

The domain name of the Amazon CloudFront distribution associated with this custom domain name for an edge-optimized endpoint. You set up this association when adding a DNS record pointing the custom domain name to this distribution name. For more information about CloudFront distributions, see the Amazon CloudFront documentation.

Type: String
distributionHostedZoneId (p. 406)

The region-agnostic Amazon Route 53 Hosted Zone ID of the edge-optimized endpoint. The valid value is Z2FDTNDAQYTW2 for all the regions. For more information, see Set up a Regional Custom Domain Name and AWS Regions and Endpoints for API Gateway.

Type: String
**domainName (p. 406)**

The custom domain name as an API host name, for example, my-api.example.com.

Type: String

**domainNameStatus (p. 406)**

The status of the DomainName migration. The valid values are AVAILABLE and UPDATING. If the status is UPDATING, the domain cannot be modified further until the existing operation is complete. If it is AVAILABLE, the domain can be updated.

Type: String

Valid Values: AVAILABLE | UPDATING | PENDING | PENDING_CERTIFICATE_REIMPORT | PENDING_OWNERSHIP_VERIFICATION

**domainNameStatusMessage (p. 406)**

An optional text message containing detailed information about status of the DomainName migration.

Type: String

**endpointConfiguration (p. 406)**

The endpoint configuration of this DomainName showing the endpoint types of the domain name.

Type: EndpointConfiguration (p. 499) object

**mutualTlsAuthentication (p. 406)**

The mutual TLS authentication configuration for a custom domain name. If specified, API Gateway performs two-way authentication between the client and the server. Clients must present a trusted certificate to access your API.

Type: MutualTlsAuthentication (p. 516) object

**ownershipVerificationCertificateArn (p. 406)**

The ARN of the public certificate issued by ACM to validate ownership of your custom domain. Only required when configuring mutual TLS and using an ACM imported or private CA certificate ARN as the regionalCertificateArn.

Type: String

**regionalCertificateArn (p. 406)**

The reference to an AWS-managed certificate that will be used for validating the regional domain name. AWS Certificate Manager is the only supported source.

Type: String

**regionalCertificateName (p. 406)**

The name of the certificate that will be used for validating the regional domain name.

Type: String

**regionalDomainName (p. 406)**

The domain name associated with the regional endpoint for this custom domain name. You set up this association by adding a DNS record that points the custom domain name to this regional domain name. The regional domain name is returned by API Gateway when you create a regional endpoint.
Type: String

**regionalHostedZoneId (p. 406)**

The region-specific Amazon Route 53 Hosted Zone ID of the regional endpoint. For more information, see Set up a Regional Custom Domain Name and AWS Regions and Endpoints for API Gateway.

Type: String

**securityPolicy (p. 406)**

The Transport Layer Security (TLS) version + cipher suite for this DomainName. The valid values are TLS_1_0 and TLS_1_2.

Type: String

Valid Values: TLS_1_0 | TLS_1_2

**tags (p. 406)**

The collection of tags. Each tag element is associated with a given resource.

Type: String to string map

**Errors**

For information about the errors that are common to all actions, see [Common Errors (p. 541)].

**BadRequestException**

The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.

HTTP Status Code: 400

**ConflictException**

The request configuration has conflicts. For details, see the accompanying error message.

HTTP Status Code: 409

**LimitExceededException**

The request exceeded the rate limit. Retry after the specified time period.

HTTP Status Code: 429

**NotFoundException**

The requested resource is not found. Make sure that the request URI is correct.

HTTP Status Code: 404

**TooManyRequestsException**

The request has reached its throttling limit. Retry after the specified time period.

HTTP Status Code: 429

**UnauthorizedException**

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401
Examples

Rotate the certificate name of an edge-optimized custom domain name

This example illustrates one usage of UpdateDomainName.

Sample Request

PATCH /domainnames/mon-api.com HTTP/1.1
Content-Type: application/json
Host: apigateway.us-east-1.amazonaws.com
X-Amz-Date: 20160615T214257Z
Authorization: AWS4-HMAC-SHA256 Credential={access_key_ID}/20160615/us-east-1/
apigateway/aws4_request, SignedHeaders=content-length;content-type;host;x-amz-date,
Signature={sig4_hash}

{
  "patchOperations": [
    {
      "op": "replace",
      "path": "/certificateName",
      "value": "mon-api.com-cert-rotated-today"
    },
    {
      "op": "replace",
      "path": "/certificateArn",
      "value": "arn:aws:acm:us-east-1:012345678910:certificate/34a95aa1-77fa-427c-
aa07-5a88bd9f3c0a"
    }
  ]
}

Sample Response

{
  "_links": {
    "curies": [
      {
        "href": "https://docs.aws.amazon.com/apigateway/latest/developerguide/restapi-
basemapping-{rel}.html",
        "name": "basemapping",
        "templated": true
      },
      {
        "href": "https://docs.aws.amazon.com/apigateway/latest/developerguide/restapi-
domainname-{rel}.html",
        "name": "domainname",
        "templated": true
      }
    ],
    "self": {
      "href": "/domainnames/mon-api.com"
    },
    "basemapping:by-base-path": {
      "href": "/domainnames/mon-api.com/basemapping/{base_path}",
      "templated": true
    },
    "basemapping:create": {
      "href": "/domainnames/mon-api.com/basemapping"
    },
    "domainname:basemapping": {
      "href": "/domainnames/mon-api.com/basemapping{?limit}",
      "templated": 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
UpdateGatewayResponse

Updates a GatewayResponse of a specified response type on the given RestApi.

Request Syntax

PATCH /restapis/restapi_id/gatewayresponses/response_type HTTP/1.1
Content-type: application/json

{
   "patchOperations": [
      {
         "from": "string",
         "op": "string",
         "path": "string",
         "value": "string"
      }
   ]
}

URI Request Parameters

The request uses the following URI parameters.

response_type (p. 412)

The response type of the associated GatewayResponse.

Valid Values: DEFAULT_4XX | DEFAULT_5XX | RESOURCE_NOT_FOUND | UNAUTHORIZED | INVALID_API_KEY | ACCESS_DENIED | AUTHORIZER_FAILURE | AUTHORIZER_CONFIGURATION_ERROR | INVALID_SIGNATURE | EXPIRED_TOKEN | MISSING_AUTHENTICATION_TOKEN | INTEGRATION_FAILURE | INTEGRATION_TIMEOUT | API_CONFIGURATION_ERROR | UNSUPPORTED_MEDIA_TYPE | BAD_REQUEST_PARAMETERS | BAD_REQUEST_BODY | REQUEST_TOO_LARGE | THROTTLED | QUOTA_EXCEEDED | WAF_FILTERED

Required: Yes

restapi_id (p. 412)

The string identifier of the associated RestApi.

Required: Yes

Request Body

The request accepts the following data in JSON format.

patchOperations (p. 412)

For more information about supported patch operations, see Patch Operations (p. 543).

Type: Array of PatchOperation (p. 518) objects

Required: No
Response Syntax

HTTP/1.1 200
Content-type: application/json

{
    "defaultResponse": boolean,
    "responseParameters": {
        "string": "string"
    },
    "responseTemplates": {
        "string": "string"
    },
    "responseType": "string",
    "statusCode": "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.

defaultResponse (p. 413)

A Boolean flag to indicate whether this GatewayResponse is the default gateway response (true) or not (false). A default gateway response is one generated by API Gateway without any customization by an API developer.

Type: Boolean

responseParameters (p. 413)

Response parameters (paths, query strings and headers) of the GatewayResponse as a string-to-string map of key-value pairs.

Type: String to string map

responseTemplates (p. 413)

Response templates of the GatewayResponse as a string-to-string map of key-value pairs.

Type: String to string map

responseType (p. 413)

The response type of the associated GatewayResponse.

Type: String

Valid Values: DEFAULT_4XX | DEFAULT_5XX | RESOURCE_NOT_FOUND | UNAUTHORIZED | INVALID_API_KEY | ACCESS_DENIED | AUTHORIZER_FAILURE | AUTHORIZER_CONFIGURATION_ERROR | INVALID_SIGNATURE | EXPIRED_TOKEN | MISSING_AUTHENTICATION_TOKEN | INTEGRATION_FAILURE | INTEGRATION_TIMEOUT | API_CONFIGURATION_ERROR | UNSUPPORTED_MEDIA_TYPE | BAD_REQUEST_PARAMETERS | BAD_REQUEST_BODY | REQUEST_TOO_LARGE | THROTTLED | QUOTA_EXCEEDED | WAF_FILTERED

statusCode (p. 413)

The HTTP status code for this GatewayResponse.

Type: String
Errors

For information about the errors that are common to all actions, see Common Errors (p. 541).

**BadRequestException**

The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.

HTTP Status Code: 400

**ConflictException**

The request configuration has conflicts. For details, see the accompanying error message.

HTTP Status Code: 409

**LimitExceededException**

The request exceeded the rate limit. Retry after the specified time period.

HTTP Status Code: 429

**NotFoundException**

The requested resource is not found. Make sure that the request URI is correct.

HTTP Status Code: 404

**TooManyRequestsException**

The request has reached its throttling limit. Retry after the specified time period.

HTTP Status Code: 429

**UnauthorizedException**

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401

Examples

Update a gateway response

This example illustrates one usage of UpdateGatewayResponse.

**Sample Request**

```
PATCH /restapis/o81lxisefl/gatewayresponses/MISSING_AUTHENTICATION_TOKEN HTTP/1.1
Host: apigateway.us-east-1.amazonaws.com
Content-Type: application/json
X-Amz-Date: 20170503T070722Z
Authorization: AWS4-HMAC-SHA256 Credential={access-key-id}/20170503/us-east-1/apigateway/aws4_request, SignedHeaders=content-length;content-type;host;x-amz-date,
Signature=69cc3552631a97....875d6931c497ace2
Cache-Control: no-cache
Postman-Token: 4ffd6473-f1e9-3b91-735d-658306e319de
{
```
See Also

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

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415
• 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
UpdateIntegration

Represents an update integration.

Request Syntax

PATCH /restapis/restapi_id/resources/resource_id/methods/http_method/integration HTTP/1.1
Content-type: application/json

{
  "patchOperations": [
  {
    "from": "string",
    "op": "string",
    "path": "string",
    "value": "string"
  }
  ]
}

URI Request Parameters

The request uses the following URI parameters.

http_method (p. 417)

Represents an update integration request's HTTP method.

Required: Yes

resource_id (p. 417)

Represents an update integration request's resource identifier.

Required: Yes

restapi_id (p. 417)

The string identifier of the associated RestApi.

Required: Yes

Request Body

The request accepts the following data in JSON format.

patchOperations (p. 417)

For more information about supported patch operations, see Patch Operations (p. 543).

Type: Array of PatchOperation (p. 518) objects

Required: No

Response Syntax

HTTP/1.1 200
Content-type: application/json

```json
{
    "cacheKeyParameters": [ "string" ],
    "cacheNamespace": "string",
    "connectionId": "string",
    "connectionType": "string",
    "contentHandling": "string",
    "credentials": "string",
    "httpMethod": "string",
    "IntegrationResponses": {
        "string": {
            "contentHandling": "string",
            "ResponseParameters": {
                "string": "string"
            },
            "responseTemplates": {
                "string": "string"
            },
            "selectionPattern": "string",
            "statusCode": "string"
        }
    },
    "passthroughBehavior": "string",
    "requestParameters": {
        "string": "string"
    },
    "requestTemplates": {
        "string": "string"
    },
    "timeoutInMillis": number,
    "tlsConfig": {
        "insecureSkipVerification": boolean
    },
    "type": "string",
    "url": "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.

**cacheKeyParameters** *(p. 417)*

A list of request parameters whose values API Gateway caches. To be valid values for cacheKeyParameters, these parameters must also be specified for Method requestParameters.

Type: Array of strings

**cacheNamespace** *(p. 417)*

Specifies a group of related cached parameters. By default, API Gateway uses the resource ID as the cacheNamespace. You can specify the same cacheNamespace across resources to return the same cached data for requests to different resources.

Type: String

**connectionId** *(p. 417)*

The ID of the VpcLink used for the integration when connectionType=VPC_LINK and undefined, otherwise.
Type: String

**connectionType (p. 417)**

The type of the network connection to the integration endpoint. The valid value is INTERNET for connections through the public routable internet or VPC_LINK for private connections between API Gateway and a network load balancer in a VPC. The default value is INTERNET.

Type: String

Valid Values: INTERNET | VPC_LINK

**contentHandling (p. 417)**

Specifies how to handle request payload content type conversions. Supported values are CONVERT_TO_BINARY and CONVERT_TO_TEXT, with the following behaviors:

If this property is not defined, the request payload will be passed through from the method request to integration request without modification, provided that the passthroughBehavior is configured to support payload pass-through.

Type: String

Valid Values: CONVERT_TO_BINARY | CONVERT_TO_TEXT

**credentials (p. 417)**

Specifies the credentials required for the integration, if any. For AWS integrations, three options are available. To specify an IAM Role for API Gateway to assume, use the role's Amazon Resource Name (ARN). To require that the caller's identity be passed through from the request, specify the string arn:aws:iam:::*::user/*.

To use resource-based permissions on supported AWS services, specify null.

Type: String

**httpMethod (p. 417)**

Specifies the integration's HTTP method type. For the Type property, if you specify MOCK, this property is optional. For Lambda integrations, you must set the integration method to POST. For all other types, you must specify this property.

Type: String

**integrationResponses (p. 417)**

Specifies the integration's responses.

Type: String to IntegrationResponse (p. 506) object map

**passthroughBehavior (p. 417)**

Specifies how the method request body of an unmapped content type will be passed through the integration request to the back end without transformation. A content type is unmapped if no mapping template is defined in the integration or the content type does not match any of the mapped content types, as specified in requestTemplates. The valid value is one of the following: WHEN_NO_MATCH: passes the method request body through the integration request to the back end without transformation when the method request content type does not match any content type associated with the mapping templates defined in the integration request. WHEN_NO_TEMPLATES: passes the method request body through the integration request to the back end without transformation when no mapping template is defined in the integration request. If a template is defined when this option is selected, the method request of an unmapped content-type will be rejected with an HTTP 415 Unsupported Media Type response. NEVER: rejects the method request with an HTTP 415 Unsupported Media Type response when either the method request
content type does not match any content type associated with the mapping templates defined in the integration request or no mapping template is defined in the integration request.

Type: String

**requestParameters (p. 417)**

A key-value map specifying request parameters that are passed from the method request to the back end. The key is an integration request parameter name and the associated value is a method request parameter value or static value that must be enclosed within single quotes and pre-encoded as required by the back end. The method request parameter value must match the pattern of `method.request.{location}.name`, where location is querystring, path, or header and name must be a valid and unique method request parameter name.

Type: String to string map

**requestTemplates (p. 417)**

Represents a map of Velocity templates that are applied on the request payload based on the value of the Content-Type header sent by the client. The content type value is the key in this map, and the template (as a String) is the value.

Type: String to string map

**timeoutInMillis (p. 417)**

Custom timeout between 50 and 29,000 milliseconds. The default value is 29,000 milliseconds or 29 seconds.

Type: Integer

**tlsConfig (p. 417)**

Specifies the TLS configuration for an integration.

Type: `TlsConfig (p. 533)` object

**type (p. 417)**

Specifies an API method integration type. The valid value is one of the following:

For the HTTP and HTTP proxy integrations, each integration can specify a protocol (http/https), port and path. Standard 80 and 443 ports are supported as well as custom ports above 1024. An HTTP or HTTP proxy integration with a `connectionType` of VPC_LINK is referred to as a private integration and uses a VpcLink to connect API Gateway to a network load balancer of a VPC.

Type: String

**uri (p. 417)**

Specifies Uniform Resource Identifier (URI) of the integration endpoint.

For HTTP or HTTP_PROXY integrations, the URI must be a fully formed, encoded HTTP(S) URL according to the RFC-3986 specification for standard integrations. If `connectionType` is VPC_LINK specify the Network Load Balancer DNS name. For AWS or AWS_PROXY integrations, the URI is of the form `arn:aws:apigateway:{region}:service:action/{service_api}`. Here, `{Region}` is the API Gateway region (e.g., us-east-1); `{service}` is the name of the integrated AWS service (e.g., s3); and `{subdomain}` is a designated subdomain supported by certain AWS service for fast host-name lookup. action can be used for an AWS service action-based API, using an Action={name}&{p1}={v1}&p2={v2}... query string. The ensuing `service_api` refers to a supported action `{name}` plus any required input parameters. Alternatively, path can be used for an AWS service path-based API. The ensuing service_api
refers to the path to an AWS service resource, including the region of the integrated AWS service, if applicable. For example, for integration with the S3 API of GetObject, the uri can be either

```
arn:aws:apigateway:us-west-2:s3:action/GetObject&Bucket={bucket}&Key={key}
```

or

```
arn:aws:apigateway:us-west-2:s3:path/{bucket}/{key}
```

Type: String

**Errors**

For information about the errors that are common to all actions, see Common Errors (p. 541).

**BadRequestException**

The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.

HTTP Status Code: 400

**ConflictException**

The request configuration has conflicts. For details, see the accompanying error message.

HTTP Status Code: 409

**LimitExceededException**

The request exceeded the rate limit. Retry after the specified time period.

HTTP Status Code: 429

**NotFoundException**

The requested resource is not found. Make sure that the request URI is correct.

HTTP Status Code: 404

**TooManyRequestsException**

The request has reached its throttling limit. Retry after the specified time period.

HTTP Status Code: 429

**UnauthorizedException**

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401

**Examples**

**Remove, add, and replace a request template**

This example illustrates one usage of UpdateIntegration.

**Sample Request**

```
PATCH /restapis/fugvjdxtri/resources/3kzxbg5sa2/methods/GET/integration HTTP/1.1
Content-Type: application/json
Host: apigateway.us-east-1.amazonaws.com
X-Amz-Date: 20160614T234104Z
```
Authorization: AWS4-HMAC-SHA256 Credential={access_key_ID}/20160614/us-east-1/apigateway/aws4_request, SignedHeaders=content-length;content-type;host;x-amz-date, Signature={sig4_hash}

{
  "patchOperations": [ {
    "op": "remove",
    "path": "/requestTemplates/application~1xml"
  },
  { "op": "add",
    "path": "/requestTemplates/application~1xml",
    "value": "3"
  },
  { "op": "replace",
    "path": "/requestTemplates/application~1xml",
    "value": "3"
  }
]
}

Sample Response


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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](#)

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• AWS SDK for Python
• AWS SDK for Ruby V3
UpdateIntegrationResponse

Represents an update integration response.

Request Syntax

PATCH /restapis/restapi_id/resources/resource_id/methods/http_method/integration/responses/status_code HTTP/1.1
Content-type: application/json

{
    "patchOperations": [
        {
            "from": "string",
            "op": "string",
            "path": "string",
            "value": "string"
        }
    ]
}

URI Request Parameters

The request uses the following URI parameters.

http_method (p. 425)

Specifies an update integration response request's HTTP method.

Required: Yes

resource_id (p. 425)

Specifies an update integration response request's resource identifier.

Required: Yes

restapi_id (p. 425)

The string identifier of the associated RestApi.

Required: Yes

status_code (p. 425)

Specifies an update integration response request's status code.

Pattern: [1-5]\d\d

Required: Yes

Request Body

The request accepts the following data in JSON format.

patchOperations (p. 425)

For more information about supported patch operations, see Patch Operations (p. 543).

Type: Array of PatchOperation (p. 518) objects
Response Syntax

HTTP/1.1 200
Content-type: application/json
{
   "contentHandling": "string",
   "responseParameters": {
      "string": "string"
   },
   "responseTemplates": {
      "string": "string"
   },
   "selectionPattern": "string",
   "statusCode": "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.

**contentHandling (p. 426)**

Specifies how to handle response payload content type conversions. Supported values are CONVERT_TO_BINARY and CONVERT_TO_TEXT, with the following behaviors:

If this property is not defined, the response payload will be passed through from the integration response to the method response without modification.

Type: String

Valid Values: CONVERT_TO_BINARY | CONVERT_TO_TEXT

**responseParameters (p. 426)**

A key-value map specifying response parameters that are passed to the method response from the back end. The key is a method response header parameter name and the mapped value is an integration response header value, a static value enclosed within a pair of single quotes, or a JSON expression from the integration response body. The mapping key must match the pattern of method.response.header.{name}, where name is a valid and unique header name. The mapped non-static value must match the pattern of integration.response.header.{name} or integration.response.body.{JSON-expression}, where name is a valid and unique response header name and JSON-expression is a valid JSON expression without the $ prefix.

Type: String to string map

**responseTemplates (p. 426)**

Specifies the templates used to transform the integration response body. Response templates are represented as a key/value map, with a content-type as the key and a template as the value.

Type: String to string map

**selectionPattern (p. 426)**

Specifies the regular expression (regex) pattern used to choose an integration response based on the response from the back end. For example, if the success response returns nothing and the error
response returns some string, you could use the .+ regex to match error response. However, make sure that the error response does not contain any newline (\n) character in such cases. If the back end is an AWS Lambda function, the AWS Lambda function error header is matched. For all other HTTP and AWS back ends, the HTTP status code is matched.

Type: String
**statusCode** *(p. 426)*

Specifies the status code that is used to map the integration response to an existing MethodResponse.

Type: String
Pattern: [1-5]\d\d

### Errors

For information about the errors that are common to all actions, see [Common Errors (p. 541)](#).

**BadRequestException**

The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.

HTTP Status Code: 400

**ConflictException**

The request configuration has conflicts. For details, see the accompanying error message.

HTTP Status Code: 409

**LimitExceededException**

The request exceeded the rate limit. Retry after the specified time period.

HTTP Status Code: 429

**NotFoundException**

The requested resource is not found. Make sure that the request URI is correct.

HTTP Status Code: 404

**TooManyRequestsException**

The request has reached its throttling limit. Retry after the specified time period.

HTTP Status Code: 429

**UnauthorizedException**

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401

### Examples

**Update a response template**

This example illustrates one usage of UpdateIntegrationResponse.
Sample Request

```http
PATCH /restapis/fugvjdxtri/resources/3kzxbg5sa2/methods/GET/integration/responses/200
HTTP/1.1
Content-Type: application/json
Host: apigateway.us-east-1.amazonaws.com
X-Amz-Date: 20160615T002050Z
Authorization: AWS4-HMAC-SHA256 Credential={access_key_ID}/20160615/us-east-1/
apigateway/aws4_request, SignedHeaders=content-length;content-type;host;x-amz-date,
Signature={sig4_hash}

{
  "patchOperations": [
    {
      "op": "replace",
      "path": "/responseTemplates/application~1json",
      "value": "{"n}"
    }
  ]
}
```

Sample Response

```json
{
  "_links": {
    "curies": {
      "href": "https://docs.aws.amazon.com/apigateway/latest/developerguide/restapi-
integration-response-{rel}.html",
      "name": "integrationresponse",
      "templated": true
    },
    "self": {
      "href": "/restapis/fugvjdxtri/resources/3kzxbg5sa2/methods/GET/integration/
responses/200",
      "title": "200"
    },
    "integrationresponse:delete": {
      "href": "/restapis/fugvjdxtri/resources/3kzxbg5sa2/methods/GET/integration/
responses/200"
    },
    "integrationresponse:update": {
      "href": "/restapis/fugvjdxtri/resources/3kzxbg5sa2/methods/GET/integration/
responses/200"
    },
    "responseTemplates": {
      "application/json": "{"n}"
    },
    "statusCode": "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
See Also

- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
**UpdateMethod**

Updates an existing Method resource.

**Request Syntax**

```
PATCH /restapis/restapi_id/resources/resource_id/methods/http_method HTTP/1.1
Content-type: application/json

[
    "patchOperations": [
        {
            "from": "string",
            "op": "string",
            "path": "string",
            "value": "string"
        }
    ]
]
```

**URI Request Parameters**

The request uses the following URI parameters.

- **http_method (p. 430)**
  
  The HTTP verb of the Method resource.
  
  Required: Yes

- **resource_id (p. 430)**
  
  The Resource identifier for the Method resource.
  
  Required: Yes

- **restapi_id (p. 430)**
  
  The string identifier of the associated RestApi.
  
  Required: Yes

**Request Body**

The request accepts the following data in JSON format.

- **patchOperations (p. 430)**
  
  
  Required: No

**Response Syntax**

```
HTTP/1.1 200
Content-type: application/json
```

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{
    "apiKeyRequired": boolean,
    "authorizationScopes": [ "string" ],
    "authorizationType": "string",
    "authorizerId": "string",
    "httpMethod": "string",
    "methodIntegration": {
        "cacheKeyParameters": [ "string" ],
        "cacheNamespace": "string",
        "connectionId": "string",
        "connectionType": "string",
        "contentHandling": "string",
        "credentials": "string",
        "httpMethod": "string",
        "integrationResponses": {
            "string": {
                "contentHandling": "string",
                "responseParameters": {
                    "string": "string"
                },
                "responseTemplates": {
                    "string": "string"
                },
                "selectionPattern": "string",
                "statusCode": "string"
            }
        },
        "passthroughBehavior": "string",
        "requestParameters": {
            "string": "string"
        },
        "requestTemplates": {
            "string": "string"
        },
        "timeoutInMilliseconds": number,
        "tlsConfig": {
            "insecureSkipVerification": boolean
        },
        "type": "string",
        "uri": "string"
    },
    "methodResponses": {
        "string": {
            "responseModels": {
                "string": "string"
            },
            "responseParameters": {
                "string": boolean
            },
            "statusCode": "string"
        }
    },
    "operationName": "string",
    "requestModels": {
        "string": "string"
    },
    "requestParameters": {
        "string": boolean
    },
    "requestValidatorId": "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.

**apiKeyRequired (p. 430)**

A boolean flag specifying whether a valid ApiKey is required to invoke this method.

Type: Boolean

**authorizationScopes (p. 430)**

A list of authorization scopes configured on the method. The scopes are used with a
Cognito_USER_POOLS authorizer to authorize the method invocation. The authorization works
by matching the method scopes against the scopes parsed from the access token in the incoming
request. The method invocation is authorized if any method scopes matches a claimed scope in the
access token. Otherwise, the invocation is not authorized. When the method scope is configured, the
client must provide an access token instead of an identity token for authorization purposes.

Type: Array of strings

**authorizationType (p. 430)**

The method's authorization type. Valid values are NONE for open access, AWS_IAM for using AWS IAM
permissions, CUSTOM for using a custom authorizer, or Cognito_USER_POOLS for using a Cognito
user pool.

Type: String

**authorizerId (p. 430)**

The identifier of an authorizer to use on this method. The method's authorization type must be
CUSTOM or Cognito_USER_POOLS.

Type: String

**httpMethod (p. 430)**

The method's HTTP verb.

Type: String

**methodIntegration (p. 430)**

Gets the method's integration responsible for passing the client-submitted request to the back end
and performing necessary transformations to make the request compliant with the back end.

Type: Integration (p. 502) object

**methodResponses (p. 430)**

Gets a method response associated with a given HTTP status code.

Type: String to MethodResponse (p. 511) object map

**operationName (p. 430)**

A human-friendly operation identifier for the method. For example, you can assign the
operationName of ListPets for the GET /pets method in the PetStore example.

Type: String

**requestModels (p. 430)**

A key-value map specifying data schemas, represented by Model resources, (as the mapped value) of
the request payloads of given content types (as the mapping key).
Errors

For information about the errors that are common to all actions, see Common Errors (p. 541).

BadRequestException

The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.

HTTP Status Code: 400

ConflictException

The request configuration has conflicts. For details, see the accompanying error message.

HTTP Status Code: 409

NotFoundException

The requested resource is not found. Make sure that the request URI is correct.

HTTP Status Code: 404

TooManyRequestsException

The request has reached its throttling limit. Retry after the specified time period.

HTTP Status Code: 429

UnauthorizedException

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401

Examples

Update a method to require use of an API key

This example illustrates one usage of UpdateMethod.
Sample Request

PATCH /restapis/fugvjdxtri/resources/3kzxbg5sa2/methods/GET HTTP/1.1
Content-Type: application/json
Host: apigateway.us-east-1.amazonaws.com
X-Amz-Date: 20160602T185328Z
Authorization: AWS4-HMAC-SHA256 Credential={access_key_ID}/20160602/us-east-1/apigateway/aws4_request, SignedHeaders=content-length;content-type;host;x-amz-date,
Signature={sig4_hash}
Cache-Control: no-cache

{
  "patchOperations": [
    {
      "op": "replace",
      "path": "/apiKeyRequired",
      "value": "true"
    }
  ]
}

Sample Response

{
  "_links": {
    "curies": [
      {
        "href": "https://docs.aws.amazon.com/apigateway/latest/developerguide/restapi-integration-{rel}.html",
        "name": "integration",
        "templated": true
      },
      {
        "href": "https://docs.aws.amazon.com/apigateway/latest/developerguide/restapi-method-{rel}.html",
        "name": "method",
        "templated": true
      },
      {
        "name": "methodresponse",
        "templated": true
      }
    ],
    "self": {
      "href": "/restapis/fugvjdxtri/resources/3kzxbg5sa2/methods/GET",
      "name": "GET",
      "title": "GET"
    },
    "integration:put": {
      "href": "/restapis/fugvjdxtri/resources/3kzxbg5sa2/methods/GET/integration"
    },
    "method:delete": {
      "href": "/restapis/fugvjdxtri/resources/3kzxbg5sa2/methods/GET"
    },
    "method:update": {
      "href": "/restapis/fugvjdxtri/resources/3kzxbg5sa2/methods/GET"
    },
    "methodresponse:put": {
      "name": "methodresponse",
      "templated": true
    }
  },
  "apiKeyRequired": true
}

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434
"authorizationType": "NONE",
"httpMethod": "GET"
}

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
UpdateMethodResponse

Updates an existing MethodResponse resource.

Request Syntax

PATCH /restapis/restapi_id/resources/resource_id/methods/http_method/responses/status_code
HTTP/1.1
Content-type: application/json

{
  "patchOperations": [
    {
      "from": "string",
      "op": "string",
      "path": "string",
      "value": "string"
    }
  ]
}

URI Request Parameters

The request uses the following URI parameters.

http_method (p. 436)

The HTTP verb of the Method resource.

Required: Yes

resource_id (p. 436)

The Resource identifier for the MethodResponse resource.

Required: Yes

restapi_id (p. 436)

The string identifier of the associated RestApi.

Required: Yes

status_code (p. 436)

The status code for the MethodResponse resource.

Pattern: [1-5]\d\d

Required: Yes

Request Body

The request accepts the following data in JSON format.

patchOperations (p. 436)

For more information about supported patch operations, see Patch Operations (p. 543).

Type: Array of PatchOperation (p. 518) objects
Response Syntax

Required: No

Response Syntax

HTTP/1.1 201
Content-type: application/json

```json
{
    "responseModels": {
        "string": "string"
    },
    "responseParameters": {
        "string": boolean
    },
    "statusCode": "string"
}
```

Response Elements

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

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

`responseModels (p. 437)`

Specifies the Model resources used for the response's content-type. Response models are represented as a key/value map, with a content-type as the key and a Model name as the value.

Type: String to string map

`responseParameters (p. 437)`

A key-value map specifying required or optional response parameters that API Gateway can send back to the caller. A key defines a method response header and the value specifies whether the associated method response header is required or not. The expression of the key must match the pattern `method.response.header.{name}`, where `name` is a valid and unique header name. API Gateway passes certain integration response data to the method response headers specified here according to the mapping you prescribe in the API's IntegrationResponse. The integration response data that can be mapped include an integration response header expressed in `integration.response.header.{name}`, a static value enclosed within a pair of single quotes (e.g., 'application/json'), or a JSON expression from the back-end response payload in the form of `integration.response.body.{JSON-expression}`, where JSON-expression is a valid JSON expression without the $ prefix.)

Type: String to boolean map

`statusCode (p. 437)`

The method response's status code.

Type: String

Pattern: [1-5]\d\d

Errors

For information about the errors that are common to all actions, see Common Errors (p. 541).
BadRequestException

The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.

HTTP Status Code: 400

ConflictException

The request configuration has conflicts. For details, see the accompanying error message.

HTTP Status Code: 409

LimitExceededException

The request exceeded the rate limit. Retry after the specified time period.

HTTP Status Code: 429

NotFoundException

The requested resource is not found. Make sure that the request URI is correct.

HTTP Status Code: 404

TooManyRequestsException

The request has reached its throttling limit. Retry after the specified time period.

HTTP Status Code: 429

UnauthorizedException

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401

Examples

Update response parameters and models

This example illustrates one usage of UpdateMethodResponse.

Sample Request

PATCH /restapis/uojnr9hd57/resources/0cjtc8/methods/GET/responses/200 HTTP/1.1
Content-Type: application/x-amz-json-1.1
Host: apigateway.us-east-1.amazonaws.com
X-Amz-Date: 20160613T233140Z
Authorization: AWS4-HMAC-SHA256 Credential={access_key_ID}/20160613/us-east-1/apigateway/aws4_request, SignedHeaders=content-length;content-type;host;x-amz-date, Signature={sig4_hash}

{
    "patchOperations" : [
        {
            "op" : "replace",
            "path" : "/responseParameters/method.response.header.operator",
            "value" : "true"
        },
        {
            "op" : "replace",
            "path" : "/responseModels/application~1json",
            "value" : "output"
        }
    ]
}
Sample Response

```json
{
    "_links": {
        "curies": {
            "name": "methodresponse",
            "templated": true
        },
        "self": {
            "href": "/restapis/uojnr9hd57/resources/0cjtch/methods/GET/responses/200",
            "title": "200"
        },
        "methodresponse:delete": {
            "href": "/restapis/uojnr9hd57/resources/0cjtch/methods/GET/responses/200"
        },
        "methodresponse:update": {
            "href": "/restapis/uojnr9hd57/resources/0cjtch/methods/GET/responses/200"
        }
    },
    "responseModels": {
        "application/json": "output"
    },
    "responseParameters": {
        "method.response.header.operator": true,
        "method.response.header.operand_2": false,
        "method.response.header.operand_1": false
    },
    "statusCode": "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](#)
UpdateModel

Changes information about a model.

Request Syntax

PATCH /restapis/restapi_id/models/model_name HTTP/1.1
Content-type: application/json
{
   "patchOperations": [
      {
         "from": "string",
         "op": "string",
         "path": "string",
         "value": "string"
      }
   ]
}

URI Request Parameters

The request uses the following URI parameters.

model_name (p. 440)

The name of the model to update.

Required: Yes

restapi_id (p. 440)

The string identifier of the associated RestApi.

Required: Yes

Request Body

The request accepts the following data in JSON format.

patchOperations (p. 440)

For more information about supported patch operations, see Patch Operations (p. 543).

Type: Array of PatchOperation (p. 518) objects

Required: No

Response Syntax

HTTP/1.1 200
Content-type: application/json
{
   "contentType": "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.

**contentType (p. 440)**

The content-type for the model.

Type: String

**description (p. 440)**

The description of the model.

Type: String

**id (p. 440)**

The identifier for the model resource.

Type: String

**name (p. 440)**

The name of the model. Must be an alphanumeric string.

Type: String

**schema (p. 440)**

The schema for the model. For application/json models, this should be JSON schema draft 4 model. Do not include "\*/" characters in the description of any properties because such "\*/" characters may be interpreted as the closing marker for comments in some languages, such as Java or JavaScript, causing the installation of your API's SDK generated by API Gateway to fail.

Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors (p. 541)](#).

**BadRequestException**

The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.

HTTP Status Code: 400

**ConflictException**

The request configuration has conflicts. For details, see the accompanying error message.

HTTP Status Code: 409
LimitExceededException

The request exceeded the rate limit. Retry after the specified time period.

HTTP Status Code: 429

NotFoundException

The requested resource is not found. Make sure that the request URI is correct.

HTTP Status Code: 404

TooManyRequestsException

The request has reached its throttling limit. Retry after the specified time period.

HTTP Status Code: 429

UnauthorizedException

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401

Examples

Update the schema definition of a model

This example illustrates one usage of UpdateModel.

Sample Request

PATCH /restapis/uojnr9hd57/models/output HTTP/1.1
Content-Type: application/json
Host: apigateway.us-east-1.amazonaws.com
X-Amz-Date: 20160614T004253Z
Authorization: AWS4-HMAC-SHA256 Credential={access_key_ID}/20160614/us-east-1/
apigateway/aws4_request, SignedHeaders=content-length;content-type;host;x-amz-date,
Signature={sig4_hash}
{
  "patchOperations": [
    {
      "op": "replace",
      "path": "/schema",
      "value": "{"title": "Calc output", "object": {
        "properties": {
          "a": {
            "type": "number"
          },
          "b": {
            "type": "number"
          },
          "op": {
            "description": "operation of +, -, * or /",
            "type": "string"
          },
          "c": {
            "type": "number"
          }
        },
        "required": ["a", "b", "op"]
      }
    }
  ]
}

Sample Response

{
  "_links": {
    "curies": {
      "href": "https://docs.aws.amazon.com/apigateway/latest/developerguide/restapi-model-{rel}.html",
      "name": "model",
      "templated": 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
UpdateRequestValidator

Updates a RequestValidator of a given RestApi.

Request Syntax

PATCH /restapis/restapi_id/requestvalidators/requestvalidator_id HTTP/1.1
Content-type: application/json

{   
    "patchOperations": [     
        {             
            "from": "string",             
            "op": "string",             
            "path": "string",             
            "value": "string"         
        }     
    ]  
}

URI Request Parameters

The request uses the following URI parameters.

requestvalidator_id (p. 444)

The identifier of RequestValidator to be updated.

Required: Yes

restapi_id (p. 444)

The string identifier of the associated RestApi.

Required: Yes

Request Body

The request accepts the following data in JSON format.

patchOperations (p. 444)

For more information about supported patch operations, see Patch Operations (p. 543).

Type: Array of PatchOperation (p. 518) objects

Required: No

Response Syntax

HTTP/1.1 200
Content-type: application/json

{   
    "id": "string",   
}

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444
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. 444)**

The identifier of this RequestValidator.

Type: String

**name (p. 444)**

The name of this RequestValidator

Type: String

**validateRequestBody (p. 444)**

A Boolean flag to indicate whether to validate a request body according to the configured Model schema.

Type: Boolean

**validateRequestParameters (p. 444)**

A Boolean flag to indicate whether to validate request parameters (true) or not (false).

Type: Boolean

Errors

For information about the errors that are common to all actions, see [Common Errors (p. 541)].

**BadRequestException**

The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.

HTTP Status Code: 400

**ConflictException**

The request configuration has conflicts. For details, see the accompanying error message.

HTTP Status Code: 409

**LimitExceededException**

The request exceeded the rate limit. Retry after the specified time period.

HTTP Status Code: 429

**NotFoundException**

The requested resource is not found. Make sure that the request URI is correct.
HTTP Status Code: 404

TooManyRequestsException

The request has reached its throttling limit. Retry after the specified time period.

HTTP Status Code: 429

UnauthorizedException

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401

Examples

Update a RequestValidator for an API

This example illustrates one usage of UpdateRequestValidator.

Sample Request

```
PATCH /restapis/mkhqppt4e4/requestvalidators/3n5aa0 HTTP/1.1
Content-Type: application/json
Host: apigateway.us-east-1.amazonaws.com
X-Amz-Date: 20170223T172652Z
Authorization: AWS4-HMAC-SHA256 Credential={access_key_ID}/20170223/us-east-1/apigateway/
aws4_request, SignedHeaders=content-type;host;x-amz-date, Signature={sig4_hash}

{
  "patchOperations": [ {
    "op": "replace",
    "path": "/name",
    "value": "body-parameters-switched"
  }, {
    "op": "replace",
    "path": "/validateRequestBody",
    "value": "false"
  }, {
    "op": "replace",
    "path": "/validateRequestParameters",
    "value": "true"
  } ]
}
```

Sample Response

```
{
  "_links": {
    "self": {
      "href": "/restapis/mkhqppt4e4/requestvalidators/3n5aa0"
    },
    "request-validator-delete": {
      "href": "/restapis/mkhqppt4e4/requestvalidators/3n5aa0"
    },
    "request-validator-update": {
      "href": "/restapis/mkhqppt4e4/requestvalidators/3n5aa0"
    }
  },
  "id": "3n5aa0",
  "name": "body-parameters-switched",
}
```
"validateRequestBody": false,
"validateRequestParameters": 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
UpdateResource

Changes information about a Resource resource.

Request Syntax

PATCH /restapis/restapi_id/resources/resource_id HTTP/1.1
Content-type: application/json

{  
  "patchOperations": [  
    {  
      "from": "string",
      "op": "string",
      "path": "string",
      "value": "string"
    }
  ]
}

URI Request Parameters

The request uses the following URI parameters.

**resource_id (p. 448)**

The identifier of the Resource resource.

Required: Yes

**restapi_id (p. 448)**

The string identifier of the associated RestApi.

Required: Yes

Request Body

The request accepts the following data in JSON format.

**patchOperations (p. 448)**

For more information about supported patch operations, see [Patch Operations (p. 543)](#).

Type: Array of [PatchOperation (p. 518)](#) objects

Required: No

Response Syntax

HTTP/1.1 200
Content-type: application/json

{  
  "id": "string",
}
"parentId": "string",
"path": "string",
"pathPart": "string",
"resourceMethods": {
  "string": {
    "apiKeyRequired": boolean,
    "authenticationScopes": [ "string" ],
    "authorizationType": "string",
    "authorizerId": "string",
    "httpMethod": "string",
    "methodIntegration": {
      "cacheKeyParameters": [ "string" ],
      "cacheNamespace": "string",
      "connectionId": "string",
      "connectionType": "string",
      "contentHandling": "string",
      "credentials": "string",
      "httpMethod": "string",
      "IntegrationResponses": {
        "string": {
          "contentHandling": "string",
          "responseParameters": {
            "string": "string"
          },
          "responseTemplates": {
            "string": "string"
          },
          "selectionPattern": "string",
          "statusCode": "string"
        }
      },
      "passthroughBehavior": "string",
      "requestParameters": {
        "string": "string"
      },
      "requestTemplates": {
        "string": "string"
      },
      "timeoutInMillis": number,
      "tlsConfig": {
        "insecureSkipVerification": boolean
      },
      "type": "string",
      "uri": "string"
    },
    "methodResponses": {
      "string": {
        "responseModels": {
          "string": "string"
        },
        "responseParameters": {
          "string": boolean
        },
        "statusCode": "string"
      }
    },
    "operationName": "string",
    "requestModels": {
      "string": "string"
    },
    "requestParameters": {
      "string": boolean
    },
    "requestValidatorId": "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. 448)**

- The resource's identifier.
- Type: String

**parentld (p. 448)**

- The parent resource's identifier.
- Type: String

**path (p. 448)**

- The full path for this resource.
- Type: String

**pathPart (p. 448)**

- The last path segment for this resource.
- Type: String

**resourceMethods (p. 448)**

- Gets an API resource's method of a given HTTP verb.
- Type: String to [Method (p. 508)] object map

Errors

For information about the errors that are common to all actions, see [Common Errors (p. 541)].

**BadRequestException**

- The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.
- HTTP Status Code: 400

**ConflictException**

- The request configuration has conflicts. For details, see the accompanying error message.
- HTTP Status Code: 409

**NotFoundException**

- The requested resource is not found. Make sure that the request URI is correct.
- HTTP Status Code: 404

**TooManyRequestsException**

- The request has reached its throttling limit. Retry after the specified time period.
HTTP Status Code: 429
UnauthorizedException
The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401

Examples

Update a resource

This example illustrates one usage of UpdateResource.

Sample Request

PATCH /restapis/86132671f6/resources/h9m85b HTTP/1.1
Content-Type: application/json
Host: apigateway.us-east-1.amazonaws.com
X-Amz-Date: 20170223T185829Z
Authorization: AWS4-HMAC-SHA256 Credential={access_key_ID}/20170223/us-east-1/apigateway/aws4_request, SignedHeaders=content-length;content-type;host;x-amz-date,
Signature={sig4_hash}
{
  "patchOperations": [{
    "op": "replace",
    "path": "/pathPart",
    "value": "r1-2"
  },
  {
    "op": "replace",
    "path": "/parentId",
    "value": "nprcay"
  }
}

Sample Response

{
  "_links": {
    "curies": [
      {
        "href": "https://docs.aws.amazon.com/apigateway/latest/developerguide/restapi-method-{rel}.html",
        "name": "method",
        "templated": true
      },
      {
        "href": "https://docs.aws.amazon.com/apigateway/latest/developerguide/restapi-resource-{rel}.html",
        "name": "resource",
        "templated": true
      }
    ],
    "self": {
      "href": "/restapis/86132671f6/resources/h9m85b"
    },
    "method:by-http-method": {
      "href": "/restapis/86132671f6/resources/h9m85b/methods/{http_method}".
    }
  }
}
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
UpdateRestApi

Changes information about the specified API.

Request Syntax

```
PATCH /restapis/restapi_id HTTP/1.1
Content-type: application/json

{
   "patchOperations": [
      {
         "from": "string",
         "op": "string",
         "path": "string",
         "value": "string"
      }
   ]
}
```

URI Request Parameters

The request uses the following URI parameters.

restapi_id (p. 453)

The string identifier of the associated RestApi.

Required: Yes

Request Body

The request accepts the following data in JSON format.

patchOperations (p. 453)

For more information about supported patch operations, see Patch Operations (p. 543).

Type: Array of PatchOperation (p. 518) objects

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "apiKeySource": "string",
   "binaryMediaTypes": [ "string" ],
   "createdDate": number,
   "description": "string",
   "disableExecuteApiEndpoint": boolean,
   "endpointConfiguration": {
      "types": [ "string" ],
      "vpcEndpointIds": [ "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.

**apiKeySource (p. 453)**

The source of the API key for metering requests according to a usage plan. Valid values are: >HEADER to read the API key from the X-API-Key header of a request. AUTHORIZER to read the API key from the UsageIdentifierKey from a custom authorizer.

Type: String

Valid Values: HEADER | AUTHORIZER

**binaryMediaTypes (p. 453)**

The list of binary media types supported by the RestApi. By default, the RestApi supports only UTF-8-encoded text payloads.

Type: Array of strings

**createdDate (p. 453)**

The timestamp when the API was created.

Type: Timestamp

**description (p. 453)**

The API's description.

Type: String

**disableExecuteApiEndpoint (p. 453)**

Specifies whether clients can invoke your API by using the default execute-api endpoint. By default, clients can invoke your API with the default https://{api_id}.execute-api.{region}.amazonaws.com endpoint. To require that clients use a custom domain name to invoke your API, disable the default endpoint.

Type: Boolean

**endpointConfiguration (p. 453)**

The endpoint configuration of this RestApi showing the endpoint types of the API.

Type: EndpointConfiguration (p. 499) object

**id (p. 453)**

The API's identifier. This identifier is unique across all of your APIs in API Gateway.
Type: String

**minimumCompressionSize (p. 453)**

A nullable integer that is used to enable compression (with non-negative between 0 and 10485760 (10M) bytes, inclusive) or disable compression (with a null value) on an API. When compression is enabled, compression or decompression is not applied on the payload if the payload size is smaller than this value. Setting it to zero allows compression for any payload size.

Type: Integer

**name (p. 453)**

The API's name.

Type: String

**policy (p. 453)**

A stringified JSON policy document that applies to this RestApi regardless of the caller and Method configuration.

Type: String

**rootResourceId (p. 453)**

The API's root resource ID.

Type: String

**tags (p. 453)**

The collection of tags. Each tag element is associated with a given resource.

Type: String to string map

**version (p. 453)**

A version identifier for the API.

Type: String

**warnings (p. 453)**

The warning messages reported when failonwarnings is turned on during API import.

Type: Array of strings

## Errors

For information about the errors that are common to all actions, see [Common Errors (p. 541)](#).

**BadRequestException**

The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.

HTTP Status Code: 400

**ConflictException**

The request configuration has conflicts. For details, see the accompanying error message.

HTTP Status Code: 409
**LimitExceededException**

The request exceeded the rate limit. Retry after the specified time period.

HTTP Status Code: 429

**NotFoundException**

The requested resource is not found. Make sure that the request URI is correct.

HTTP Status Code: 404

**TooManyRequestsException**

The request has reached its throttling limit. Retry after the specified time period.

HTTP Status Code: 429

**UnauthorizedException**

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401

### Examples

#### Update an API

This example illustrates one usage of UpdateRestApi.

**Sample Request**

```plaintext
PATCH /restapis/fugvjdxtri/ HTTP/1.1
Content-Type: application/json
Host: apigateway.us-east-1.amazonaws.com
X-Amz-Date: 20160603T205348Z
Authorization: AWS4-HMAC-SHA256 Credential={access_key_ID}/20160603/us-east-1/apigateway/aws4_request, SignedHeaders=content-length;content-type;host;x-amz-date, Signature={sig4_hash}

{
    "patchOperations": [
        {
            "op": "replace",
            "path": "/name",
            "value": "my-sample-api"
        },
        {
            "op": "remove",
            "path": "/description"
        },
        {
            "op": "add",
            "path": "/description",
            "value": "A test API"
        }
    ]
}
```

**Sample Response**

```plaintext
{

```
"_links": {
    "curies": [
        {
            "href": "https://docs.aws.amazon.com/apigateway/latest/developerguide/restapi-authorizer-{rel}.html",
            "name": "authorizer",
            "templated": true
        },
        {
            "href": "https://docs.aws.amazon.com/apigateway/latest/developerguide/restapi-deployment-{rel}.html",
            "name": "deployment",
            "templated": true
        },
        {
            "href": "https://docs.aws.amazon.com/apigateway/latest/developerguide/restapi-model-{rel}.html",
            "name": "model",
            "templated": true
        },
        {
            "href": "https://docs.aws.amazon.com/apigateway/latest/developerguide/restapi-resource-{rel}.html",
            "name": "resource",
            "templated": true
        },
        {
            "href": "https://docs.aws.amazon.com/apigateway/latest/developerguide/restapi-restapi-{rel}.html",
            "name": "restapi",
            "templated": true
        },
        {
            "href": "https://docs.aws.amazon.com/apigateway/latest/developerguide/restapi-stage-{rel}.html",
            "name": "stage",
            "templated": true
        }
    ],
    "self": {
        "href": "/restapis/fugvjdxtri"
    },
    "authorizer:by-id": {
        "href": "/restapis/fugvjdxtri/authorizers/{authorizer_id}"
    },
    "authorizer:create": {
        "href": "/restapis/fugvjdxtri/authorizers"
    },
    "deployment:by-id": {
        "href": "/restapis/fugvjdxtri/deployments/{deployment_id}?{embed}"
    },
    "deployment:create": {
        "href": "/restapis/fugvjdxtri/deployments"
    },
    "model:by-name": {
        "href": "/restapis/fugvjdxtri/models/{model_name}?{flatten}=false"
    },
    "model:create": {
        "href": "/restapis/fugvjdxtri/models"
    },
    "resource:by-id": {
        "href": "/restapis/fugvjdxtri/resources/{resource_id}?{embed}"
    },
    "resource:create": {
        "href": "/restapis/fugvjdxtri/resources"
    },
    "stages:by-id": {
        "href": "/restapis/fugvjdxtri/stages/{stage_id}"
    },
    "stages:create": {
        "href": "/restapis/fugvjdxtri/stages"
    },
    "stages:delete": {
        "href": "/restapis/fugvjdxtri/stages/{stage_id}""_links": {
    "curies": [
        {
            "href": "https://docs.aws.amazon.com/apigateway/latest/developerguide/restapi-authorizer-{rel}.html",
            "name": "authorizer",
            "templated": true
        },
        {
            "href": "https://docs.aws.amazon.com/apigateway/latest/developerguide/restapi-deployment-{rel}.html",
            "name": "deployment",
            "templated": true
        },
        {
            "href": "https://docs.aws.amazon.com/apigateway/latest/developerguide/restapi-model-{rel}.html",
            "name": "model",
            "templated": true
        },
        {
            "href": "https://docs.aws.amazon.com/apigateway/latest/developerguide/restapi-resource-{rel}.html",
            "name": "resource",
            "templated": true
        },
        {
            "href": "https://docs.aws.amazon.com/apigateway/latest/developerguide/restapi-restapi-{rel}.html",
            "name": "restapi",
            "templated": true
        },
        {
            "href": "https://docs.aws.amazon.com/apigateway/latest/developerguide/restapi-stage-{rel}.html",
            "name": "stage",
            "templated": true
        }
    ],
    "self": {
        "href": "/restapis/fugvjdxtri"
    },
    "authorizer:by-id": {
        "href": "/restapis/fugvjdxtri/authorizers/{authorizer_id}"
    },
    "authorizer:create": {
        "href": "/restapis/fugvjdxtri/authorizers"
    },
    "deployment:by-id": {
        "href": "/restapis/fugvjdxtri/deployments/{deployment_id}?{embed}"
    },
    "deployment:create": {
        "href": "/restapis/fugvjdxtri/deployments"
    },
    "model:by-name": {
        "href": "/restapis/fugvjdxtri/models/{model_name}?{flatten}=false"
    },
    "model:create": {
        "href": "/restapis/fugvjdxtri/models"
    },
    "resource:by-id": {
        "href": "/restapis/fugvjdxtri/resources/{resource_id}?{embed}"
    },
    "resource:create": {
        "href": "/restapis/fugvjdxtri/resources"
    },
    "stages:by-id": {
        "href": "/restapis/fugvjdxtri/stages/{stage_id}"
    },
    "stages:create": {
        "href": "/restapis/fugvjdxtri/stages"
    },
    "stages:delete": {
        "href": "/restapis/fugvjdxtri/stages/{stage_id}"
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](#)
UpdateStage

Changes information about a Stage resource.

Request Syntax

```plaintext
PATCH /restapis/restapi_id/stages/stage_name HTTP/1.1
Content-type: application/json

{
    "patchOperations": [
        {
            "from": "string",
            "op": "string",
            "path": "string",
            "value": "string"
        }
    ]
}
```

URI Request Parameters

The request uses the following URI parameters.

restapi_id (p. 459)

The string identifier of the associated RestApi.

Required: Yes

stage_name (p. 459)

The name of the Stage resource to change information about.

Required: Yes

Request Body

The request accepts the following data in JSON format.

patchOperations (p. 459)

For more information about supported patch operations, see Patch Operations (p. 543).

Type: Array of PatchOperation (p. 518) objects

Required: No

Response Syntax

```plaintext
HTTP/1.1 200
Content-type: application/json

{
```
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.

**accessLogSettings (p. 459)**

Settings for logging access in this stage.

Type: AccessLogSettings (p. 479) object

**cacheClusterEnabled (p. 459)**

Specifies whether a cache cluster is enabled for the stage.

Type: Boolean
**cacheClusterSize (p. 459)**

The stage's cache capacity in GB. For more information about choosing a cache size, see [Enabling API caching to enhance responsiveness](https://docs.aws.amazon.com/apigateway/latest/developerguide/apigateway-caching.html).

Type: String

Valid Values: 0.5 | 1.6 | 6.1 | 13.5 | 28.4 | 58.2 | 118 | 237

**cacheClusterStatus (p. 459)**

The status of the cache cluster for the stage, if enabled.

Type: String

Valid Values: CREATE_IN_PROGRESS | AVAILABLE | DELETE_IN_PROGRESS | NOT_AVAILABLE | FLUSH_IN_PROGRESS

**canarySettings (p. 459)**

Settings for the canary deployment in this stage.

Type: [CanarySettings (p. 487)](https://docs.aws.amazon.com/apigateway/latest/developerguide/apigateway-canary.html) object

**clientCertificateId (p. 459)**

The identifier of a client certificate for an API stage.

Type: String

**createdDate (p. 459)**

The timestamp when the stage was created.

Type: Timestamp

**deploymentId (p. 459)**

The identifier of the Deployment that the stage points to.

Type: String

**description (p. 459)**

The stage's description.

Type: String

**documentationVersion (p. 459)**

The version of the associated API documentation.

Type: String

**lastUpdatedDate (p. 459)**

The timestamp when the stage last updated.

Type: Timestamp

**methodSettings (p. 459)**

A map that defines the method settings for a Stage resource. Keys (designated as `/ {method_setting_key below) are method paths defined as `{resource_path}/{http_method}` for an individual method override, or `/\*\*` for overriding all methods in the stage.

Type: String to [MethodSetting (p. 512)](https://docs.aws.amazon.com/apigateway/latest/developerguide/apigateway-resource-method.html) object map
stageName (p. 459)

The name of the stage is the first path segment in the Uniform Resource Identifier (URI) of a call to API Gateway. Stage names can only contain alphanumeric characters, hyphens, and underscores. Maximum length is 128 characters.

Type: String
groups (p. 459)

The collection of tags. Each tag element is associated with a given resource.

Type: String to string map
tracingEnabled (p. 459)

Specifies whether active tracing with X-ray is enabled for the Stage.

Type: Boolean
variables (p. 459)

A map that defines the stage variables for a Stage resource. Variable names can have alphanumeric and underscore characters, and the values must match [A-Za-z0-9-_.~:/?#&=,]+.

Type: String to string map

webAclArn (p. 459)

The ARN of the WebAcl associated with the Stage.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors (p. 541).

BadRequestException

The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.

HTTP Status Code: 400

ConflictException

The request configuration has conflicts. For details, see the accompanying error message.

HTTP Status Code: 409

LimitExceededException

The request exceeded the rate limit. Retry after the specified time period.

HTTP Status Code: 429

NotFoundException

The requested resource is not found. Make sure that the request URI is correct.

HTTP Status Code: 404

TooManyRequestsException

The request has reached its throttling limit. Retry after the specified time period.
HTTP Status Code: 429

**UnauthorizedException**

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401

### Examples

#### Update a deployment stage

This example illustrates one usage of UpdateStage.

**Sample Request**

```
PATCH /restapis/fugvjdxtri/stages/stage1 HTTP/1.1
Content-Type: application/json
Host: apigateway.us-east-1.amazonaws.com
X-Amz-Date: 20160603T200400Z
Authorization: AWS4-HMAC-SHA256 Credential={access_key_ID}/20160603/us-east-1/
apigateway/aws4_request, SignedHeaders=content-length;content-type;host;x-amz-date,
Signature={sig4_hash}

{
  "patchOperations": [
    {
      "op": "replace",
      "path": "//*/metrics/enabled",
      "value": "true"
    },
    {
      "op": "replace",
      "path": "/cacheClusterEnabled",
      "value": "true"
    },
    {
      "op": "replace",
      "path": "/cacheClusterSize",
      "value": "0.5"
    },
    {
      "op": "replace",
      "path": "/variables/sv2",
      "value": "svVar"
    }
  ]
}
```

**Sample Response**

```
{
  "_links": {
    "curies": {
      "href": "https://docs.aws.amazon.com/apigateway/latest/developerguide/restapi-stage-\{rel\}.html",
      "name": "stage",
      "templated": true
    },
    "self": {
    
```
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
UpdateUsage

Grants a temporary extension to the remaining quota of a usage plan associated with a specified API key.

**Request Syntax**

PATCH /usageplans/usageplanId/keys/keyId/usages HTTP/1.1

Content-type: application/json

```json
{
   "patchOperations": [
      {
         "from": "string",
         "op": "string",
         "path": "string",
         "value": "string"
      }
   ]
}
```

**URI Request Parameters**

The request uses the following URI parameters.

- **keyId (p. 465)**
  
  The identifier of the API key associated with the usage plan in which a temporary extension is granted to the remaining quota.

  Required: Yes

- **usageplanId (p. 465)**
  
  The Id of the usage plan associated with the usage data.

  Required: Yes

**Request Body**

The request accepts the following data in JSON format.

- **patchOperations (p. 465)**
  
  For more information about supported patch operations, see Patch Operations (p. 543).

  Type: Array of PatchOperation (p. 518) objects

  Required: No

**Response Syntax**

HTTP/1.1 200
Content-type: application/json
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.

**endDate (p. 465)**

The ending date of the usage data.

Type: String

**values (p. 465)**

The usage data, as daily logs of used and remaining quotas, over the specified time interval indexed over the API keys in a usage plan. For example, {..., "values": { "api_key": [ [0, 100], [10, 90], [100, 10] ]}}, where {api_key} stands for an API key ID and the daily log entry is of the format [used quota, remaining quota].

Type: String to array of arrays of longs map

**position (p. 465)**

The current pagination position in the paged result set.

Type: String

**startDate (p. 465)**

The starting date of the usage data.

Type: String

**usagePlanId (p. 465)**

The plan Id associated with this usage data.

Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors (p. 541)](#).

**BadRequestException**

The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.

HTTP Status Code: 400
ConflictException

The request configuration has conflicts. For details, see the accompanying error message.

HTTP Status Code: 409

LimitExceededException

The request exceeded the rate limit. Retry after the specified time period.

HTTP Status Code: 429

NotFoundException

The requested resource is not found. Make sure that the request URI is correct.

HTTP Status Code: 404

TooManyRequestsException

The request has reached its throttling limit. Retry after the specified time period.

HTTP Status Code: 429

UnauthorizedException

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401

Examples

Update usage

This example illustrates one usage of UpdateUsage.

Sample Request

PATCH /usageplans/ywbqww/keys/3JX4ISs7Ik23cDsgiaJdu6SLffQpIsU7AyTMALs6/usage HTTP/1.1
Content-Type: application/json
Host: apigateway.ap-southeast-1.amazonaws.com
Content-Length: 114
X-Amz-Date: 20160801T235803Z
Authorization: AWS4-HMAC-SHA256 Credential={access_key_ID}/20160801/ap-southeast-1/apigateway/aws4_request, SignedHeaders=content-length;content-type;host;x-amz-date, Signature={sigv4_hash}

{
    "patchOperation": [
        {
            "op": "replace",
            "path": "/remaining",
            "value": "10"
        }
    ]
}

Sample Response

{
    "_links": {
        "self": {
            "href": "/usageplans/ywbqww/keys/3JX4ISs7Ik23cDsgiaJdu6SLffQpIsU7AyTMALs6/usage"
        }
    }
}
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
UpdateUsagePlan

Updates a usage plan of a given plan Id.

Request Syntax

PATCH /usageplans/usageplanId HTTP/1.1
Content-type: application/json

{   "patchOperations": [
    {   "from": "string",
        "op": "string",
        "path": "string",
        "value": "string"
    }
]
}

URI Request Parameters

The request uses the following URI parameters.

usageplanId (p. 469)

The Id of the to-be-updated usage plan.

Required: Yes

Request Body

The request accepts the following data in JSON format.

patchOperations (p. 469)

For more information about supported patch operations, see Patch Operations (p. 543).

Type: Array of PatchOperation (p. 518) objects

Required: No

Response Syntax

HTTP/1.1 200
Content-type: application/json

{   "apiStages": [
    {   "apiId": "string",
        "stage": "string",
        "throttle": {
            "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.

**apiStages (p. 469)**

The associated API stages of a usage plan.

Type: Array of [ApiStage](p. 482) objects

**description (p. 469)**

The description of a usage plan.

Type: String

**id (p. 469)**

The identifier of a UsagePlan resource.

Type: String

**name (p. 469)**

The name of a usage plan.

Type: String

**productCode (p. 469)**

The AWS Marketplace product identifier to associate with the usage plan as a SaaS product on the AWS Marketplace.

Type: String

**quota (p. 469)**

The target maximum number of permitted requests per a given unit time interval.
Errors

For information about the errors that are common to all actions, see Common Errors (p. 541).

**BadRequestException**

The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.

HTTP Status Code: 400

**ConflictException**

The request configuration has conflicts. For details, see the accompanying error message.

HTTP Status Code: 409

**LimitExceededException**

The request exceeded the rate limit. Retry after the specified time period.

HTTP Status Code: 429

**NotFoundException**

The requested resource is not found. Make sure that the request URI is correct.

HTTP Status Code: 404

**TooManyRequestsException**

The request has reached its throttling limit. Retry after the specified time period.

HTTP Status Code: 429

**UnauthorizedException**

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401

Examples

**Update a usage plan**

This example illustrates one usage of UpdateUsagePlan.
Sample Request

PATCH /usageplans/w0mvrr HTTP/1.1
Content-Type: application/json
Host: apigateway.us-east-1.amazonaws.com
X-Amz-Date: 20160805T200901Z
Authorization: AWS4-HMAC-SHA256 Credential={access_key_ID}/20160805/us-east-1/apigateway/aws4_request, SignedHeaders=content-length;content-type;host;x-amz-date,
Signature={sigv4_hash}

{
  "patchOperations": [ {
    "op": "add",
    "path": "/apiStages",
    "value": "081lxisefl:Stage_A"
  },
  {
    "op": "replace",
    "path": "/name",
    "value": "new-plan-name"
  },
  {
    "op": "replace",
    "path": "/description",
    "value": "new-plan-description"
  },
  {
    "op": "replace",
    "path": "/quota/period",
    "value": "MONTH"
  },
  {
    "op": "replace",
    "path": "/quota/limit",
    "value": "1300"
  },
  {
    "op": "replace",
    "path": "/quota/offset",
    "value": "5"
  }
]
}

Sample Response

{
  "_links": {
    "curies": [ {
      "href": "https://docs.aws.amazon.com/apigateway/latest/developerguide/restapiv2-usage-{rel}.html",
      "name": "usage",
      "templated": true
    },
    { "href": "https://docs.aws.amazon.com/apigateway/latest/developerguide/restapiv2-usageplan-{rel}.html",
      "name": "usageplan",
      "templated": true
    },
    { "href": "https://docs.aws.amazon.com/apigateway/latest/developerguide/restapiv2-usageplankey-{rel}.html",
      "name": "usageplankey",
      "templated": 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
**UpdateVpcLink**

Updates an existing VpcLink of a specified identifier.

**Request Syntax**

```
PATCH /vpclinks/vpcliplink_id HTTP/1.1
Content-type: application/json
{
  "patchOperations": [  
    {
      "from": "string",
      "op": "string",
      "path": "string",
      "value": "string"
    }
  ]
}
```

**URI Request Parameters**

The request uses the following URI parameters.

**vpcliplink_id (p. 474)**

The identifier of the VpcLink. It is used in an Integration to reference this VpcLink.

Required: Yes

**Request Body**

The request accepts the following data in JSON format.

**patchOperations (p. 474)**

For more information about supported patch operations, see [Patch Operations (p. 543)](#).

Type: Array of [PatchOperation (p. 518)](#) objects

Required: No

**Response Syntax**

```
HTTP/1.1 200
Content-type: application/json
{
  "description": "string",
  "id": "string",
  "name": "string",
  "status": "string",
  "statusMessage": "string",
  "tags": {
    "string": "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.

description (p. 474)
The description of the VPC link.
Type: String

id (p. 474)
The identifier of the VpcLink. It is used in an Integration to reference this VpcLink.
Type: String

name (p. 474)
The name used to label and identify the VPC link.
Type: String

status (p. 474)
The status of the VPC link. The valid values are AVAILABLE, PENDING, DELETING, or FAILED. Deploying an API will wait if the status is PENDING and will fail if the status is DELETING.
Type: String
Valid Values: AVAILABLE | PENDING | DELETING | FAILED

statusMessage (p. 474)
A description about the VPC link status.
Type: String

tags (p. 474)
The collection of tags. Each tag element is associated with a given resource.
Type: String to string map

targetArns (p. 474)
The ARN of the network load balancer of the VPC targeted by the VPC link. The network load balancer must be owned by the same AWS account of the API owner.
Type: Array of strings

Errors

For information about the errors that are common to all actions, see Common Errors (p. 541).

BadRequestException
The submitted request is not valid, for example, the input is incomplete or incorrect. See the accompanying error message for details.
HTTP Status Code: 400

**ConflictException**

The request configuration has conflicts. For details, see the accompanying error message.

HTTP Status Code: 409

**LimitExceededException**

The request exceeded the rate limit. Retry after the specified time period.

HTTP Status Code: 429

**NotFoundException**

The requested resource is not found. Make sure that the request URI is correct.

HTTP Status Code: 404

**TooManyRequestsException**

The request has reached its throttling limit. Retry after the specified time period.

HTTP Status Code: 429

**UnauthorizedException**

The request is denied because the caller has insufficient permissions.

HTTP Status Code: 401

### 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](#)
Data Types

The Amazon API Gateway API contains several data types that various actions use. This section describes each data type in detail.

**Note**
The order of each element in a data type structure is not guaranteed. Applications should not assume a particular order.

The following data types are supported:

- `AccessLogSettings (p. 479)`
- `ApiKey (p. 480)`
- `ApiStage (p. 482)`
- `Authorizer (p. 483)`
- `BasePathMapping (p. 486)`
- `CanarySettings (p. 487)`
- `ClientCertificate (p. 488)`
- `Deployment (p. 490)`
- `DeploymentCanarySettings (p. 491)`
- `DocumentationPart (p. 492)`
- `DocumentationPartLocation (p. 493)`
- `DocumentationVersion (p. 495)`
- `DomainName (p. 496)`
- `EndpointConfiguration (p. 499)`
- `GatewayResponse (p. 500)`
- `Integration (p. 502)`
- `IntegrationResponse (p. 506)`
- `Method (p. 508)`
- `MethodResponse (p. 511)`
- `MethodSetting (p. 512)`
- `MethodSnapshot (p. 514)`
- `Model (p. 515)`
- `MutualTlsAuthentication (p. 516)`
- `MutualTlsAuthenticationInput (p. 517)`
- `PatchOperation (p. 518)`
- `QuotaSettings (p. 520)`
- `RequestValidator (p. 521)`
- `Resource (p. 522)`
- `RestApi (p. 523)`
- `SdkConfigurationProperty (p. 526)`
- `SdkType (p. 527)`
- `Stage (p. 528)`
- `StageKey (p. 531)`
- `ThrottleSettings (p. 532)`
- `TlsConfig (p. 533)`
• **UsagePlan (p. 534)**
• **UsagePlanKey (p. 536)**
• **VpcLink (p. 537)**
AccessLogSettings

Access log settings, including the access log format and access log destination ARN.

Contents

destinationArn

The Amazon Resource Name (ARN) of the CloudWatch Logs log group or Kinesis Data Firehose delivery stream to receive access logs. If you specify a Kinesis Data Firehose delivery stream, the stream name must begin with `amazon-apigateway-`.

Type: String
Required: No

format

A single line format of the access logs of data, as specified by selected $context variables. The format must include at least $context.requestId.

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](#)
ApiKey

A resource that can be distributed to callers for executing Method resources that require an API key. API keys can be mapped to any Stage on any RestApi, which indicates that the callers with the API key can make requests to that stage.

Contents

createdDate

The timestamp when the API Key was created.

Type: Timestamp
Required: No

customerId

An AWS Marketplace customer identifier, when integrating with the AWS SaaS Marketplace.

Type: String
Required: No

description

The description of the API Key.

Type: String
Required: No

enabled

Specifies whether the API Key can be used by callers.

Type: Boolean
Required: No

id

The identifier of the API Key.

Type: String
Required: No

lastUpdatedDate

The timestamp when the API Key was last updated.

Type: Timestamp
Required: No

name

The name of the API Key.

Type: String
Required: No
stageKeys

A list of Stage resources that are associated with the ApiKey resource.

Type: Array of strings
Required: No

tags

The collection of tags. Each tag element is associated with a given resource.

Type: String to string map
Required: No

value

The value of the API Key.

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](#)
ApiStage

API stage name of the associated API stage in a usage plan.

Contents

apId

API Id of the associated API stage in a usage plan.

Type: String

Required: No

stage

API stage name of the associated API stage in a usage plan.

Type: String

Required: No

throttle

Map containing method level throttling information for API stage in a usage plan.

Type: String to ThrottleSettings (p. 532) object map

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
Authorizer

Represents an authorization layer for methods. If enabled on a method, API Gateway will activate the authorizer when a client calls the method.

Contents

authorizerCredentials

Specifies the required credentials as an IAM role for API Gateway to invoke the authorizer. To specify an IAM role for API Gateway to assume, use the role’s Amazon Resource Name (ARN). To use resource-based permissions on the Lambda function, specify null.

Type: String
Required: No

authorizerResultTtlInSeconds

The TTL in seconds of cached authorizer results. If it equals 0, authorization caching is disabled. If it is greater than 0, API Gateway will cache authorizer responses. If this field is not set, the default value is 300. The maximum value is 3600, or 1 hour.

Type: Integer
Required: No

authorizerUri

Specifies the authorizer’s Uniform Resource Identifier (URI). For TOKEN or REQUEST authorizers, this must be a well-formed Lambda function URI, for example, arn:aws:apigateway:us-west-2:lambda:path/2015-03-31/functions/arn:aws:lambda:us-west-2: {account_id}:function:{lambda_function_name}/invocations. In general, the URI has this form arn:aws:apigateway:{region}:lambda:path/{service_api}, where {region} is the same as the region hosting the Lambda function, path indicates that the remaining substring in the URI should be treated as the path to the resource, including the initial /. For Lambda functions, this is usually of the form /2015-03-31/functions/[FunctionARN]/invocations.

Type: String
Required: No

authType

Optional customer-defined field, used in OpenAPI imports and exports without functional impact.

Type: String
Required: No

id

The identifier for the authorizer resource.

Type: String
Required: No

identitySource

The identity source for which authorization is requested. For a TOKEN or COGNITO_USER_POOLS authorizer, this is required and specifies the request header mapping expression for the custom header holding the authorization token submitted by the client. For example, if the token header
name is Auth, the header mapping expression is method.request.header.Auth. For the REQUEST authorizer, this is required when authorization caching is enabled. The value is a comma-separated string of one or more mapping expressions of the specified request parameters. For example, if an Auth header, a Name query string parameter are defined as identity sources, this value is method.request.header.Auth, method.request.querystring.Name. These parameters will be used to derive the authorization caching key and to perform runtime validation of the REQUEST authorizer by verifying all of the identity-related request parameters are present, not null and non-empty. Only when this is true does the authorizer invoke the authorizer Lambda function, otherwise, it returns a 401 Unauthorized response without calling the Lambda function. The valid value is a string of comma-separated mapping expressions of the specified request parameters. When the authorization caching is not enabled, this property is optional.

Type: String
Required: No

identityValidationExpression

A validation expression for the incoming identity token. For TOKEN authorizers, this value is a regular expression. For COGNITO_USER_POOLS authorizers, API Gateway will match the aud field of the incoming token from the client against the specified regular expression. It will invoke the authorizer's Lambda function when there is a match. Otherwise, it will return a 401 Unauthorized response without calling the Lambda function. The validation expression does not apply to the REQUEST authorizer.

Type: String
Required: No

name

The name of the authorizer.

Type: String
Required: No

providerARNs

A list of the Amazon Cognito user pool ARNs for the COGNITO_USER_POOLS authorizer. Each element is of this format: arn:aws:cognito-idp:{region}:{account_id}:userpool/{user_pool_id}. For a TOKEN or REQUEST authorizer, this is not defined.

Type: Array of strings
Required: No

type

The authorizer type. Valid values are TOKEN for a Lambda function using a single authorization token submitted in a custom header, REQUEST for a Lambda function using incoming request parameters, and COGNITO_USER_POOLS for using an Amazon Cognito user pool.

Type: String

Valid Values: TOKEN | REQUEST | COGNITO_USER_POOLS
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
BasePathMapping

Represents the base path that callers of the API must provide as part of the URL after the domain name.

Contents

basePath

The base path name that callers of the API must provide as part of the URL after the domain name.

Type: String
Required: No

restApiId

The string identifier of the associated RestApi.

Type: String
Required: No

stage

The name of the associated stage.

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
CanarySettings

Configuration settings of a canary deployment.

Contents

deploymentId

The ID of the canary deployment.

Type: String
Required: No

percentTraffic

The percent (0-100) of traffic diverted to a canary deployment.

Type: Double
Required: No

stageVariableOverrides

Stage variables overridden for a canary release deployment, including new stage variables introduced in the canary. These stage variables are represented as a string-to-string map between stage variable names and their values.

Type: String to string map
Required: No

useStageCache

A Boolean flag to indicate whether the canary deployment uses the stage cache or not.

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
ClientCertificate

Represents a client certificate used to configure client-side SSL authentication while sending requests to the integration endpoint.

Contents

clientCertificateId

The identifier of the client certificate.

Type: String

Required: No

createdDate

The timestamp when the client certificate was created.

Type: Timestamp

Required: No

description

The description of the client certificate.

Type: String

Required: No

expirationDate

The timestamp when the client certificate will expire.

Type: Timestamp

Required: No

pemEncodedCertificate

The PEM-encoded public key of the client certificate, which can be used to configure certificate authentication in the integration endpoint.

Type: String

Required: No

tags

The collection of tags. Each tag element is associated with a given resource.

Type: String to string map

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++
See Also

- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
Deployment

An immutable representation of a RestApi resource that can be called by users using Stages. A deployment must be associated with a Stage for it to be callable over the Internet.

Contents

apiSummary

A summary of the RestApi at the date and time that the deployment resource was created.

Type: String to string to MethodSnapshot (p. 514) object map map

Required: No

createdDate

The date and time that the deployment resource was created.

Type: Timestamp

Required: No

description

The description for the deployment resource.

Type: String

Required: No

id

The identifier for the deployment resource.

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
DeploymentCanarySettings

The input configuration for a canary deployment.

Contents

percentTraffic

The percentage (0.0-100.0) of traffic routed to the canary deployment.

Type: Double

Required: No

stageVariableOverrides

A stage variable overrides used for the canary release deployment. They can override existing stage variables or add new stage variables for the canary release deployment. These stage variables are represented as a string-to-string map between stage variable names and their values.

Type: String to string map

Required: No

useStageCache

A Boolean flag to indicate whether the canary release deployment uses the stage cache or not.

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
DocumentationPart

A documentation part for a targeted API entity.

Contents

id

The DocumentationPart identifier, generated by API Gateway when the DocumentationPart is created.

Type: String

Required: No

location

The location of the API entity to which the documentation applies. Valid fields depend on the targeted API entity type. All the valid location fields are not required. If not explicitly specified, a valid location field is treated as a wildcard and associated documentation content may be inherited by matching entities, unless overridden.

Type: DocumentationPartLocation (p. 493) object

Required: No

properties

A content map of API-specific key-value pairs describing the targeted API entity. The map must be encoded as a JSON string, e.g., 

"{ "description": "The API does ...
"

Only OpenAPI-compliant documentation-related fields from the properties map are exported and, hence, published as part of the API entity definitions, while the original documentation parts are exported in a OpenAPI extension of x-amazon-apigateway-documentation.

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
**DocumentationPartLocation**

Specifies the target API entity to which the documentation applies.

**Contents**

**type**

The type of API entity to which the documentation content applies. Valid values are API, AUTHORIZER, MODEL, RESOURCE, METHOD, PATH_PARAMETER, QUERY_PARAMETER, REQUEST_HEADER, REQUEST_BODY, RESPONSE, RESPONSE_HEADER, and RESPONSE_BODY. Content inheritance does not apply to any entity of the API, AUTHORIZER, METHOD, MODEL, REQUEST_BODY, or RESOURCE type.

Type: String

Valid Values: API | AUTHORIZER | MODEL | RESOURCE | METHOD | PATH_PARAMETER | QUERY_PARAMETER | REQUEST_HEADER | REQUEST_BODY | RESPONSE | RESPONSE_HEADER | RESPONSE_BODY

Required: Yes

**method**

The HTTP verb of a method. It is a valid field for the API entity types of METHOD, PATH_PARAMETER, QUERY_PARAMETER, REQUEST_HEADER, REQUEST_BODY, RESPONSE, RESPONSE_HEADER, and RESPONSE_BODY. The default value is * for any method. When an applicable child entity inherits the content of an entity of the same type with more general specifications of the other location attributes, the child entity's method attribute must match that of the parent entity exactly.

Type: String

Required: No

**name**

The name of the targeted API entity. It is a valid and required field for the API entity types of AUTHORIZER, MODEL, PATH_PARAMETER, QUERY_PARAMETER, REQUEST_HEADER, REQUEST_BODY, and RESPONSE_HEADER. It is an invalid field for any other entity type.

Type: String

Required: No

**path**

The URL path of the target. It is a valid field for the API entity types of RESOURCE, METHOD, PATH_PARAMETER, QUERY_PARAMETER, REQUEST_HEADER, REQUEST_BODY, RESPONSE, RESPONSE_HEADER, and RESPONSE_BODY. The default value is / for the root resource. When an applicable child entity inherits the content of another entity of the same type with more general specifications of the other location attributes, the child entity's path attribute must match that of the parent entity as a prefix.

Type: String

Required: No

**statusCode**

The HTTP status code of a response. It is a valid field for the API entity types of RESPONSE, RESPONSE_HEADER, and RESPONSE_BODY. The default value is * for any status code. When
an applicable child entity inherits the content of an entity of the same type with more general specifications of the other location attributes, the child entity's statusCode attribute must match that of the parent entity exactly.

Type: String
Pattern: ^([1-5]\d\d|\*|[s]*)$
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
DocumentationVersion

A snapshot of the documentation of an API.

Contents

createdDate

The date when the API documentation snapshot is created.

Type: Timestamp

Required: No

description

The description of the API documentation snapshot.

Type: String

Required: No

version

The version identifier of the API documentation snapshot.

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
DomainName

Represents a custom domain name as a user-friendly host name of an API (RestApi).

Contents

certificateArn

The reference to an AWS-managed certificate that will be used by edge-optimized endpoint for this domain name. AWS Certificate Manager is the only supported source.

Type: String
Required: No

certificateName

The name of the certificate that will be used by edge-optimized endpoint for this domain name.

Type: String
Required: No

certificateUploadDate

The timestamp when the certificate that was used by edge-optimized endpoint for this domain name was uploaded.

Type: Timestamp
Required: No

distributionDomainName

The domain name of the Amazon CloudFront distribution associated with this custom domain name for an edge-optimized endpoint. You set up this association when adding a DNS record pointing the custom domain name to this distribution name. For more information about CloudFront distributions, see the Amazon CloudFront documentation.

Type: String
Required: No

distributionHostedZoneId

The region-agnostic Amazon Route 53 Hosted Zone ID of the edge-optimized endpoint. The valid value is Z2FDTNDATAQYW2 for all the regions. For more information, see Set up a Regional Custom Domain Name and AWS Regions and Endpoints for API Gateway.

Type: String
Required: No

domainName

The custom domain name as an API host name, for example, my-api.example.com.

Type: String
Required: No
**domainNameStatus**

The status of the DomainName migration. The valid values are AVAILABLE and UPDATING. If the status is UPDATING, the domain cannot be modified further until the existing operation is complete. If it is AVAILABLE, the domain can be updated.

Type: String

Valid Values: AVAILABLE | UPDATING | PENDING | PENDING_CERTIFICATE_REIMPORT | PENDING_ownership_VERIFICATION

Required: No

**domainNameStatusMessage**

An optional text message containing detailed information about status of the DomainName migration.

Type: String

Required: No

**endpointConfiguration**

The endpoint configuration of this DomainName showing the endpoint types of the domain name.

Type: [EndpointConfiguration](#) object

Required: No

**mutualTlsAuthentication**

The mutual TLS authentication configuration for a custom domain name. If specified, API Gateway performs two-way authentication between the client and the server. Clients must present a trusted certificate to access your API.

Type: [MutualTlsAuthentication](#) object

Required: No

**ownershipVerificationCertificateArn**

The ARN of the public certificate issued by ACM to validate ownership of your custom domain. Only required when configuring mutual TLS and using an ACM imported or private CA certificate ARN as the regionalCertificateArn.

Type: String

Required: No

**regionalCertificateArn**

The reference to an AWS-managed certificate that will be used for validating the regional domain name. AWS Certificate Manager is the only supported source.

Type: String

Required: No

**regionalCertificateName**

The name of the certificate that will be used for validating the regional domain name.

Type: String

Required: No
regionalDomainName

The domain name associated with the regional endpoint for this custom domain name. You set up this association by adding a DNS record that points the custom domain name to this regional domain name. The regional domain name is returned by API Gateway when you create a regional endpoint.

Type: String
Required: No

regionalHostedZoneId

The region-specific Amazon Route 53 Hosted Zone ID of the regional endpoint. For more information, see Set up a Regional Custom Domain Name and AWS Regions and Endpoints for API Gateway.

Type: String
Required: No

securityPolicy

The Transport Layer Security (TLS) version + cipher suite for this DomainName. The valid values are TLS_1_0 and TLS_1_2.

Type: String
Valid Values: TLS_1_0 | TLS_1_2
Required: No

tags

The collection of tags. Each tag element is associated with a given resource.

Type: String to string map
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
EndpointConfiguration

The endpoint configuration to indicate the types of endpoints an API (RestApi) or its custom domain name (DomainName) has.

Contents

types

A list of endpoint types of an API (RestApi) or its custom domain name (DomainName). For an edge-optimized API and its custom domain name, the endpoint type is "EDGE". For a regional API and its custom domain name, the endpoint type is REGIONAL. For a private API, the endpoint type is PRIVATE.

Type: Array of strings

Valid Values: REGIONAL | EDGE | PRIVATE

Required: No

vpcEndpointIds

A list of VpcEndpointIds of an API (RestApi) against which to create Route53 ALIASes. It is only supported for PRIVATE endpoint type.

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
GatewayResponse

A gateway response of a given response type and status code, with optional response parameters and mapping templates.

Contents

defaultResponse

A Boolean flag to indicate whether this GatewayResponse is the default gateway response (true) or not (false). A default gateway response is one generated by API Gateway without any customization by an API developer.

Type: Boolean

Required: No

responseParameters

Response parameters (paths, query strings and headers) of the GatewayResponse as a string-to-string map of key-value pairs.

Type: String to string map

Required: No

responseTemplates

Response templates of the GatewayResponse as a string-to-string map of key-value pairs.

Type: String to string map

Required: No

responseType

The response type of the associated GatewayResponse.

Type: String

Valid Values: DEFAULT_4XX | DEFAULT_5XX | RESOURCE_NOT_FOUND | Unauthorized | INVALID_API_KEY | ACCESS_DENIED | AUTHORIZER_FAILURE | AUTHORIZER_CONFIGURATION_ERROR | INVALID_SIGNATURE | EXPIRED_TOKEN | MISSING_AUTHENTICATION_TOKEN | INTEGRATION_FAILURE | INTEGRATION_TIMEOUT | API_CONFIGURATION_ERROR | UNSUPPORTED_MEDIA_TYPE | BAD_REQUEST_PARAMETERS | BAD_REQUEST_HEADER | REQUEST_TOO_LARGE | THROTTLED | QUOTA_EXCEEDED | WAF_FILTERED

Required: No

statusCode

The HTTP status code for this GatewayResponse.

Type: String

Pattern: [1-5]\d\d

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
Integration

Represents an HTTP, HTTP_PROXY, AWS, AWS_PROXY, or Mock integration.

Contents

cacheKeyParameters

A list of request parameters whose values API Gateway caches. To be valid values for cacheKeyParameters, these parameters must also be specified for Method requestParameters.

Type: Array of strings
Required: No

cacheNamespace

Specifies a group of related cached parameters. By default, API Gateway uses the resource ID as the cacheNamespace. You can specify the same cacheNamespace across resources to return the same cached data for requests to different resources.

Type: String
Required: No

connexionId

The ID of the VpcLink used for the integration when connexionType=VPC_LINK and undefined, otherwise.

Type: String
Required: No

connexionType

The type of the network connection to the integration endpoint. The valid value is INTERNET for connections through the public routable internet or VPC_LINK for private connections between API Gateway and a network load balancer in a VPC. The default value is INTERNET.

Type: String
Valid Values: INTERNET | VPC_LINK
Required: No

contentHandling

Specifies how to handle request payload content type conversions. Supported values are CONVERT_TO_BINARY and CONVERT_TO_TEXT, with the following behaviors:

If this property is not defined, the request payload will be passed through from the method request to integration request without modification, provided that the passthroughBehavior is configured to support payload pass-through.

Type: String
Valid Values: CONVERT_TO_BINARY | CONVERT_TO_TEXT
Required: No
**credentials**

Specifies the credentials required for the integration, if any. For AWS integrations, three options are available. To specify an IAM Role for API Gateway to assume, use the role's Amazon Resource Name (ARN). To require that the caller's identity be passed through from the request, specify the string `arn:aws:iam::*:user/*`. To use resource-based permissions on supported AWS services, specify null.

*Type*: String

*Required*: No

**httpMethod**

Specifies the integration's HTTP method type. For the Type property, if you specify MOCK, this property is optional. For Lambda integrations, you must set the integration method to POST. For all other types, you must specify this property.

*Type*: String

*Required*: No

**integrationResponses**

Specifies the integration's responses.

*Type*: String to [IntegrationResponse](p. 506) object map

*Required*: No

**passthroughBehavior**

Specifies how the method request body of an unmapped content type will be passed through the integration request to the back end without transformation. A content type is unmapped if no mapping template is defined in the integration or the content type does not match any of the mapped content types, as specified in requestTemplates. The valid value is one of the following: WHEN_NO_MATCH: passes the method request body through the integration request to the back end without transformation when the method request content type does not match any content type associated with the mapping templates defined in the integration request. WHEN_NO_TEMPLATES: passes the method request body through the integration request to the back end without transformation when no mapping template is defined in the integration request. If a template is defined when this option is selected, the method request of an unmapped content-type will be rejected with an HTTP 415 Unsupported Media Type response. NEVER: rejects the method request with an HTTP 415 Unsupported Media Type response when either the method request content type does not match any content type associated with the mapping templates defined in the integration request or no mapping template is defined in the integration request.

*Type*: String

*Required*: No

**requestParameters**

A key-value map specifying request parameters that are passed from the method request to the back end. The key is an integration request parameter name and the associated value is a method request parameter value or static value that must be enclosed within single quotes and pre-encoded as required by the back end. The method request parameter value must match the pattern of `method.request.{location}.{name}`, where location is querystring, path, or header and name must be a valid and unique method request parameter name.

*Type*: String to string map

*Required*: No
**requestTemplates**

Represents a map of Velocity templates that are applied on the request payload based on the value of the Content-Type header sent by the client. The content type value is the key in this map, and the template (as a String) is the value.

Type: String to string map

Required: No

**timeoutInMillis**

Custom timeout between 50 and 29,000 milliseconds. The default value is 29,000 milliseconds or 29 seconds.

Type: Integer

Required: No

**tlsConfig**

Specifies the TLS configuration for an integration.

Type: [TlsConfig](p. 533) object

Required: No

**type**

Specifies an API method integration type. The valid value is one of the following:

For the HTTP and HTTP proxy integrations, each integration can specify a protocol (http/https), port and path. Standard 80 and 443 ports are supported as well as custom ports above 1024. An HTTP or HTTP proxy integration with a `connectionType` of VPC_LINK is referred to as a private integration and uses a VpcLink to connect API Gateway to a network load balancer of a VPC.

Type: String

Valid Values: HTTP | AWS | MOCK | HTTP_PROXY | AWS_PROXY

Required: No

**uri**

Specifies Uniform Resource Identifier (URI) of the integration endpoint.

For HTTP or HTTP_PROXY integrations, the URI must be a fully formed, encoded HTTP(S) URL according to the RFC-3986 specification for standard integrations. If `connectionType` is VPC_LINK specify the Network Load Balancer DNS name. For AWS or AWS_PROXY integrations, the URI is of the form `arn:aws:apigateway:{region}:{subdomain.service|service}:path|action/{service_api}. Here, {Region} is the API Gateway region (e.g., us-east-1); {service} is the name of the integrated AWS service (e.g., s3); and {subdomain} is a designated subdomain supported by certain AWS service for fast host-name lookup. action can be used for an AWS service action-based API, using an Action={name} & {p1}={v1} & {p2}={v2}... query string. The ensuing {service_api} refers to a supported action {name} plus any required input parameters. Alternatively, path can be used for an AWS service path-based API. The ensuing service_api refers to the path to an AWS service resource, including the region of the integrated AWS service, if applicable. For example, for integration with the S3 API of GetObject, the uri can be either `arn:aws:apigateway:us-west-2:s3:action/GetObject&Bucket={bucket}&Key={key}` or `arn:aws:apigateway:us-west-2:s3:path/{bucket}/{key}`

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
IntegrationResponse

Represents an integration response. The status code must map to an existing MethodResponse, and parameters and templates can be used to transform the back-end response.

Contents

contentHandling

Specifies how to handle response payload content type conversions. Supported values are CONVERT_TO_BINARY and CONVERT_TO_TEXT, with the following behaviors:

If this property is not defined, the response payload will be passed through from the integration response to the method response without modification.

Type: String
Valid Values: CONVERT_TO_BINARY | CONVERT_TO_TEXT
Required: No

responseParameters

A key-value map specifying response parameters that are passed to the method response from the back end. The key is a method response header parameter name and the mapped value is an integration response header value, a static value enclosed within a pair of single quotes, or a JSON expression from the integration response body. The mapping key must match the pattern of method.response.header.{name}, where name is a valid and unique header name. The mapped non-static value must match the pattern of integration.response.header.{name} or integration.response.body.{JSON-expression}, where name is a valid and unique response header name and JSON-expression is a valid JSON expression without the $ prefix.

Type: String to string map
Required: No

responseTemplates

Specifies the templates used to transform the integration response body. Response templates are represented as a key/value map, with a content-type as the key and a template as the value.

Type: String to string map
Required: No

selectionPattern

Specifies the regular expression (regex) pattern used to choose an integration response based on the response from the back end. For example, if the success response returns nothing and the error response returns some string, you could use the .+ regex to match error response. However, make sure that the error response does not contain any newline (\n) character in such cases. If the back end is an AWS Lambda function, the AWS Lambda function error header is matched. For all other HTTP and AWS back ends, the HTTP status code is matched.

Type: String
Required: No

statusCode

Specifies the status code that is used to map the integration response to an existing MethodResponse.
Type: String
Pattern: \[1-5]\d\d
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
Method

Represents a client-facing interface by which the client calls the API to access back-end resources. A Method resource is integrated with an Integration resource. Both consist of a request and one or more responses. The method request takes the client input that is passed to the back end through the integration request. A method response returns the output from the back end to the client through an integration response. A method request is embodied in a Method resource, whereas an integration request is embodied in an Integration resource. On the other hand, a method response is represented by a MethodResponse resource, whereas an integration response is represented by an IntegrationResponse resource.

Contents

apiKeyRequired

A boolean flag specifying whether a valid ApiKey is required to invoke this method.

Type: Boolean

Required: No

authorizationScopes

A list of authorization scopes configured on the method. The scopes are used with a COGNITO_USER_POOLS authorizer to authorize the method invocation. The authorization works by matching the method scopes against the scopes parsed from the access token in the incoming request. The method invocation is authorized if any method scopes matches a claimed scope in the access token. Otherwise, the invocation is not authorized. When the method scope is configured, the client must provide an access token instead of an identity token for authorization purposes.

Type: Array of strings

Required: No

authorizationType

The method's authorization type. Valid values are NONE for open access, AWS_IAM for using AWS IAM permissions, CUSTOM for using a custom authorizer, or COGNITO_USER_POOLS for using a Cognito user pool.

Type: String

Required: No

authorizerId

The identifier of an authorizer to use on this method. The method's authorization type must be CUSTOM or COGNITO_USER_POOLS.

Type: String

Required: No

httpMethod

The method's HTTP verb.

Type: String

Required: No
methodIntegration

Gets the method's integration responsible for passing the client-submitted request to the back end and performing necessary transformations to make the request compliant with the back end.

Type: Integration (p. 502) object

Required: No

methodResponses

Gets a method response associated with a given HTTP status code.

Type: String to MethodResponse (p. 511) object map

Required: No

operationName

A human-friendly operation identifier for the method. For example, you can assign the operationName of ListPets for the GET /pets method in the PetStore example.

Type: String

Required: No

requestModels

A key-value map specifying data schemas, represented by Model resources, (as the mapped value) of the request payloads of given content types (as the mapping key).

Type: String to string map

Required: No

requestParameters

A key-value map defining required or optional method request parameters that can be accepted by API Gateway. A key is a method request parameter name matching the pattern of method.request.{location}.{name}, where location is querystring, path, or header and name is a valid and unique parameter name. The value associated with the key is a Boolean flag indicating whether the parameter is required (true) or optional (false). The method request parameter names defined here are available in Integration to be mapped to integration request parameters or templates.

Type: String to boolean map

Required: No

requestValidatorId

The identifier of a RequestValidator for request validation.

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
See Also

- AWS SDK for Java V2
- AWS SDK for Ruby V3
MethodResponse

Represents a method response of a given HTTP status code returned to the client. The method response is passed from the back end through the associated integration response that can be transformed using a mapping template.

Contents

responseModels

Specifies the Model resources used for the response's content-type. Response models are represented as a key/value map, with a content-type as the key and a Model name as the value.

Type: String to string map

responseParameters

A key-value map specifying required or optional response parameters that API Gateway can send back to the caller. A key defines a method response header and the value specifies whether the associated method response header is required or not. The expression of the key must match the pattern method.response.header.{name}, where name is a valid and unique header name. API Gateway passes certain integration response data to the method response headers specified here according to the mapping you prescribe in the API's IntegrationResponse. The integration response data that can be mapped include an integration response header expressed in integration.response.header.{name}, a static value enclosed within a pair of single quotes (e.g., 'application/json'), or a JSON expression from the back-end response payload in the form of integration.response.body.{JSON-expression}, where JSON-expression is a valid JSON expression without the $ prefix.)

Type: String to boolean map

statusCode

The method response's status code.

Type: String

Pattern: [1-5]\d\d

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
MethodSetting

Specifies the method setting properties.

Contents

`cacheDataEncrypted`

Specifies whether the cached responses are encrypted.

Type: Boolean

Required: No

`cacheTtlInSeconds`

Specifies the time to live (TTL), in seconds, for cached responses. The higher the TTL, the longer the response will be cached.

Type: Integer

Required: No

`cachingEnabled`

Specifies whether responses should be cached and returned for requests. A cache cluster must be enabled on the stage for responses to be cached.

Type: Boolean

Required: No

`dataTraceEnabled`

Specifies whether data trace logging is enabled for this method, which affects the log entries pushed to Amazon CloudWatch Logs. This can be useful to troubleshoot APIs, but can result in logging sensitive data. We recommend that you don’t enable this option for production APIs.

Type: Boolean

Required: No

`loggingLevel`

Specifies the logging level for this method, which affects the log entries pushed to Amazon CloudWatch Logs. Valid values are OFF, ERROR, and INFO. Choose ERROR to write only error-level entries to CloudWatch Logs, or choose INFO to include all ERROR events as well as extra informational events.

Type: String

Required: No

`metricsEnabled`

Specifies whether Amazon CloudWatch metrics are enabled for this method.

Type: Boolean

Required: No

`requireAuthorizationForCacheControl`

Specifies whether authorization is required for a cache invalidation request.
Type: Boolean
Required: No

**throttlingBurstLimit**

Specifies the throttling burst limit.

Type: Integer
Required: No

**throttlingRateLimit**

Specifies the throttling rate limit.

Type: Double
Required: No

**unauthorizedCacheControlHeaderStrategy**

Specifies how to handle unauthorized requests for cache invalidation.

Type: String

Valid Values: FAIL_WITH_403 | SUCCEED_WITH_RESPONSE_HEADER | SUCCEED_WITHOUT_RESPONSE_HEADER

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](#)
MethodSnapshot

Represents a summary of a Method resource, given a particular date and time.

Contents

apiKeyRequired

Specifies whether the method requires a valid ApiKey.

Type: Boolean

Required: No

authorizationType

The method's authorization type. Valid values are NONE for open access, AWS_IAM for using AWS IAM permissions, CUSTOM for using a custom authorizer, or COGNITO_USER_POOLS for using a Cognito user pool.

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
Model

Represents the data structure of a method's request or response payload.

Contents

cContentType
The content-type for the model.
Type: String
Required: No
description
The description of the model.
Type: String
Required: No
id
The identifier for the model resource.
Type: String
Required: No
name
The name of the model. Must be an alphanumeric string.
Type: String
Required: No
schema
The schema for the model. For application/json models, this should be JSON schema draft 4 model. Do not include "\*/" characters in the description of any properties because such "\*/" characters may be interpreted as the closing marker for comments in some languages, such as Java or JavaScript, causing the installation of your API's SDK generated by API Gateway to fail.
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
MutualTlsAuthentication

The mutual TLS authentication configuration for a custom domain name. If specified, API Gateway performs two-way authentication between the client and the server. Clients must present a trusted certificate to access your API.

Contents

truststoreUri

An Amazon S3 URL that specifies the truststore for mutual TLS authentication, for example s3://bucket-name/key-name. The truststore can contain certificates from public or private certificate authorities. To update the truststore, upload a new version to S3, and then update your custom domain name to use the new version. To update the truststore, you must have permissions to access the S3 object.

Type: String
Required: No

truststoreVersion

The version of the S3 object that contains your truststore. To specify a version, you must have versioning enabled for the S3 bucket.

Type: String
Required: No

truststoreWarnings

A list of warnings that API Gateway returns while processing your truststore. Invalid certificates produce warnings. Mutual TLS is still enabled, but some clients might not be able to access your API. To resolve warnings, upload a new truststore to S3, and then update your domain name to use the new version.

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
MutualTlsAuthenticationInput

The mutual TLS authentication configuration for a custom domain name. If specified, API Gateway performs two-way authentication between the client and the server. Clients must present a trusted certificate to access your API.

Contents

truststoreUri

An Amazon S3 URL that specifies the truststore for mutual TLS authentication, for example s3://bucket-name/key-name. The truststore can contain certificates from public or private certificate authorities. To update the truststore, upload a new version to S3, and then update your custom domain name to use the new version. To update the truststore, you must have permissions to access the S3 object.

Type: String
Required: No

truststoreVersion

The version of the S3 object that contains your truststore. To specify a version, you must have versioning enabled for the S3 bucket.

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
PatchOperation

For more information about supported patch operations, see Patch Operations (p. 543).

Contents

from

The copy update operation's source as identified by a JSON-Pointer value referencing the location within the targeted resource to copy the value from. For example, to promote a canary deployment, you copy the canary deployment ID to the affiliated deployment ID by calling a PATCH request on a Stage resource with "op":"copy", "from":"/canarySettings/deploymentId" and "path":"/deploymentId".

Type: String
Required: No

op

An update operation to be performed with this PATCH request. The valid value can be add, remove, replace or copy. Not all valid operations are supported for a given resource. Support of the operations depends on specific operational contexts. Attempts to apply an unsupported operation on a resource will return an error message.

Type: String
Valid Values: add | remove | replace | move | copy | test
Required: No

path

The op operation's target, as identified by a JSON Pointer value that references a location within the targeted resource. For example, if the target resource has an updateable property of{"name":"value"}, the path for this property is /name. If the name property value is a JSON object (e.g.,{"name":{"child/name": "child-value"}}), the path for the child/name property will be /name/child~1name. Any slash (/) character appearing in path names must be escaped with "~1", as shown in the example above. Each op operation can have only one path associated with it.

Type: String
Required: No

value

The new target value of the update operation. It is applicable for the add or replace operation. When using AWS CLI to update a property of a JSON value, enclose the JSON object with a pair of single quotes in a Linux shell, e.g., '{"a": ...}'.

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
QuotaSettings

Quotas configured for a usage plan.

Contents

limit

The target maximum number of requests that can be made in a given time period.

Type: Integer

Required: No

offset

The number of requests subtracted from the given limit in the initial time period.

Type: Integer

Required: No

period

The time period in which the limit applies. Valid values are "DAY", "WEEK" or "MONTH".

Type: String

Valid Values: DAY | WEEK | MONTH

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
RequestValidator

A set of validation rules for incoming Method requests.

Contents

id

The identifier of this RequestValidator.

Type: String

Required: No

name

The name of this RequestValidator

Type: String

Required: No

validateRequestBody

A Boolean flag to indicate whether to validate a request body according to the configured Model schema.

Type: Boolean

Required: No

validateRequestParameters

A Boolean flag to indicate whether to validate request parameters (true) or not (false).

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
Resource

Represents an API resource.

Contents

id
  The resource's identifier.
  Type: String
  Required: No

parentId
  The parent resource's identifier.
  Type: String
  Required: No

path
  The full path for this resource.
  Type: String
  Required: No

pathPart
  The last path segment for this resource.
  Type: String
  Required: No

resourceMethods
  Gets an API resource's method of a given HTTP verb.
  Type: String to Method (p. 508) object map
  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](#)
RestApi

Represents a REST API.

Contents

apiKeySource

The source of the API key for metering requests according to a usage plan. Valid values are: HEADER to read the API key from the X-API-Key header of a request. AUTHORIZER to read the API key from the UsageIdentifierKey from a custom authorizer.

Type: String
Valid Values: HEADER | AUTHORIZER
Required: No

binaryMediaTypes

The list of binary media types supported by the RestApi. By default, the RestApi supports only UTF-8-encoded text payloads.

Type: Array of strings
Required: No

createdDate

The timestamp when the API was created.

Type: Timestamp
Required: No

description

The API's description.

Type: String
Required: No

disableExecuteApiEndpoint

Specifies whether clients can invoke your API by using the default execute-api endpoint. By default, clients can invoke your API with the default https://{api_id}.execute-api.{region}.amazonaws.com endpoint. To require that clients use a custom domain name to invoke your API, disable the default endpoint.

Type: Boolean
Required: No

endpointConfiguration

The endpoint configuration of this RestApi showing the endpoint types of the API.

Type: EndpointConfiguration (p. 499) object
Required: No
id

The API's identifier. This identifier is unique across all of your APIs in API Gateway.

Type: String

Required: No

minimumCompressionSize

A nullable integer that is used to enable compression (with non-negative between 0 and 10485760 (10M) bytes, inclusive) or disable compression (with a null value) on an API. When compression is enabled, compression or decompression is not applied on the payload if the payload size is smaller than this value. Setting it to zero allows compression for any payload size.

Type: Integer

Required: No

name

The API's name.

Type: String

Required: No

policy

A stringified JSON policy document that applies to this RestApi regardless of the caller and Method configuration.

Type: String

Required: No

rootResourceId

The API's root resource ID.

Type: String

Required: No

tags

The collection of tags. Each tag element is associated with a given resource.

Type: String to string map

Required: No

version

A version identifier for the API.

Type: String

Required: No

warnings

The warning messages reported when failonwarnings is turned on during API import.

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
SdkConfigurationProperty

A configuration property of an SDK type.

Contents

defaultValue

  The default value of an SdkType configuration property.
  Type: String
  Required: No

description

  The description of an SdkType configuration property.
  Type: String
  Required: No

friendlyName

  The user-friendly name of an SdkType configuration property.
  Type: String
  Required: No

name

  The name of a an SdkType configuration property.
  Type: String
  Required: No

required

  A boolean flag of an SdkType configuration property to indicate if the associated SDK configuration property is required (true) or not (false).
  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
SdkType

A type of SDK that API Gateway can generate.

Contents

configurationProperties

A list of configuration properties of an SdkType.

Type: Array of SdkConfigurationProperty (p. 526) objects

Required: No

description

The description of an SdkType.

Type: String

Required: No

friendlyName

The user-friendly name of an SdkType instance.

Type: String

Required: No

id

The identifier of an SdkType instance.

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
Stage

Represents a unique identifier for a version of a deployed RestApi that is callable by users.

Contents

accessLogSettings

Settings for logging access in this stage.
Type: AccessLogSettings (p. 479) object
Required: No

cacheClusterEnabled

Specifies whether a cache cluster is enabled for the stage.
Type: Boolean
Required: No

cacheClusterSize

The stage's cache capacity in GB. For more information about choosing a cache size, see Enabling API caching to enhance responsiveness.
Type: String
Valid Values: 0.5 | 1.6 | 6.1 | 13.5 | 28.4 | 58.2 | 118 | 237
Required: No

cacheClusterStatus

The status of the cache cluster for the stage, if enabled.
Type: String
Valid Values: CREATE_IN_PROGRESS | AVAILABLE | DELETE_IN_PROGRESS | NOT_AVAILABLE | FLUSH_IN_PROGRESS
Required: No

canarySettings

Settings for the canary deployment in this stage.
Type: CanarySettings (p. 487) object
Required: No

clientCertificateId

The identifier of a client certificate for an API stage.
Type: String
Required: No

createdDate

The timestamp when the stage was created.
Type: Timestamp
Required: No
deploymentId
The identifier of the Deployment that the stage points to.
Type: String
Required: No
description
The stage's description.
Type: String
Required: No
documentationVersion
The version of the associated API documentation.
Type: String
Required: No
lastUpdatedDate
The timestamp when the stage last updated.
Type: Timestamp
Required: No
methodSettings
A map that defines the method settings for a Stage resource. Keys (designated as / {method_setting_key below) are method paths defined as {resource_path}/{http_method} for an individual method override, or /\*\*/\* for overriding all methods in the stage.
Type: String to MethodSetting (p. 512) object map
Required: No
stageName
The name of the stage is the first path segment in the Uniform Resource Identifier (URI) of a call to API Gateway. Stage names can only contain alphanumeric characters, hyphens, and underscores. Maximum length is 128 characters.
Type: String
Required: No
tags
The collection of tags. Each tag element is associated with a given resource.
Type: String to string map
Required: No
tracingEnabled
Specifies whether active tracing with X-ray is enabled for the Stage.
Type: Boolean
Required: No

variables

A map that defines the stage variables for a Stage resource. Variable names can have alphanumeric and underscore characters, and the values must match \[A-Za-z0-9-._~:/?#&=,]+\.

Type: String to string map
Required: No

webAclArn

The ARN of the WebAcl associated with the Stage.

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
StageKey

A reference to a unique stage identified in the format {restApiId}/{stage}.

Contents

restApiId

The string identifier of the associated RestApi.

Type: String

Required: No

stageName

The stage name associated with the stage key.

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
ThrottleSettings

The API request rate limits.

Contents

burstLimit

The API target request burst rate limit. This allows more requests through for a period of time than the target rate limit.

Type: Integer
Required: No

rateLimit

The API target request rate limit.

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
TlsConfig

Specifies the TLS configuration for an integration.

Contents

insecureSkipVerification

Specifies whether or not API Gateway skips verification that the certificate for an integration endpoint is issued by a supported certificate authority. This isn't recommended, but it enables you to use certificates that are signed by private certificate authorities, or certificates that are self-signed. If enabled, API Gateway still performs basic certificate validation, which includes checking the certificate's expiration date, hostname, and presence of a root certificate authority. Supported only for HTTP and HTTP_PROXY integrations.

Important

Enabling insecureSkipVerification isn't recommended, especially for integrations with public HTTPS endpoints. If you enable insecureSkipVerification, you increase the risk of man-in-the-middle attacks.

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](#)
UsagePlan

Represents a usage plan used to specify who can assess associated API stages. Optionally, target request rate and quota limits can be set. In some cases clients can exceed the targets that you set. Don’t rely on usage plans to control costs. Consider using AWS Budgets to monitor costs and AWS WAF to manage API requests.

Contents

apiStages

The associated API stages of a usage plan.

Type: Array of ApiStage (p. 482) objects

Required: No

description

The description of a usage plan.

Type: String

Required: No

id

The identifier of a UsagePlan resource.

Type: String

Required: No

name

The name of a usage plan.

Type: String

Required: No

productCode

The AWS Marketplace product identifier to associate with the usage plan as a SaaS product on the AWS Marketplace.

Type: String

Required: No

quota

The target maximum number of permitted requests per a given unit time interval.

Type: QuotaSettings (p. 520) object

Required: No

tags

The collection of tags. Each tag element is associated with a given resource.

Type: String to string map
Required: No

**throttle**

A map containing method level throttling information for API stage in a usage plan.

Type: [ThrottleSettings](p. 532) 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-cpp)
- [AWS SDK for Go](aws-sdk-go)
- [AWS SDK for Java V2](aws-sdk-java)
- [AWS SDK for Ruby V3](aws-sdk-ruby)
UsagePlanKey

Represents a usage plan key to identify a plan customer.

Contents

id

The Id of a usage plan key.
Type: String
Required: No

name

The name of a usage plan key.
Type: String
Required: No

type

The type of a usage plan key. Currently, the valid key type is API_KEY.
Type: String
Required: No

value

The value of a usage plan key.
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
VpcLink

An API Gateway VPC link for a RestApi to access resources in an Amazon Virtual Private Cloud (VPC).

Contents

description
The description of the VPC link.
Type: String
Required: No

id
The identifier of the VpcLink. It is used in an Integration to reference this VpcLink.
Type: String
Required: No

name
The name used to label and identify the VPC link.
Type: String
Required: No

status
The status of the VPC link. The valid values are AVAILABLE, PENDING, DELETING, or FAILED. Deploying an API will wait if the status is PENDING and will fail if the status is DELETING.
Type: String
Valid Values: AVAILABLE | PENDING | DELETING | FAILED
Required: No

statusMessage
A description about the VPC link status.
Type: String
Required: No

tags
The collection of tags. Each tag element is associated with a given resource.
Type: String to string map
Required: No

targetArns
The ARN of the network load balancer of the VPC targeted by the VPC link. The network load balancer must be owned by the same AWS account of the API owner.
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
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 Signing AWS API requests in the IAM User Guide.

**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 Create a signed AWS API request in the IAM User Guide.**
- **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.
- **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.
- **Type:** string
- **Required:** Conditional
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 STS, see [AWS services that work with IAM](https://docs.aws.amazon.com/IAM/latest/userguide/iam-creds-service-list.html) in the **IAM User Guide**.

Condition: If you're using temporary security credentials from AWS STS, 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 [Create a signed AWS API request](https://docs.aws.amazon.com/IAM/latest/userguide/iam-creds-service-list.html) in the **IAM User Guide**.

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

**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

ValidationException

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400
**Patch Operations**

This section lists information about the supported patch operations to update resources.

### UpdateAccount

The following table shows the supported and unsupported op operations for UpdateAccount.

<table>
<thead>
<tr>
<th>Path</th>
<th>op:add</th>
<th>op:replace</th>
<th>op:remove</th>
<th>op:copy</th>
</tr>
</thead>
<tbody>
<tr>
<td>/cloudwatchRoleArn</td>
<td>Not supported</td>
<td>Supported</td>
<td>Not supported</td>
<td>Not supported</td>
</tr>
<tr>
<td>/features</td>
<td>Supported</td>
<td>Not supported</td>
<td>Supported, but not for the UsagePlans feature</td>
<td>Not supported</td>
</tr>
</tbody>
</table>

### UpdateApiKey

The following table shows the supported and unsupported op operations for UpdateApiKey.

<table>
<thead>
<tr>
<th>Path</th>
<th>op:add</th>
<th>op:replace</th>
<th>op:remove</th>
<th>op:copy</th>
</tr>
</thead>
<tbody>
<tr>
<td>/customerId</td>
<td>Not supported</td>
<td>Supported</td>
<td>Not supported</td>
<td>Not supported</td>
</tr>
<tr>
<td>/description</td>
<td>Not supported</td>
<td>Supported</td>
<td>Not supported</td>
<td>Not supported</td>
</tr>
<tr>
<td>/enabled</td>
<td>Not supported</td>
<td>Supported</td>
<td>Not supported</td>
<td>Not supported</td>
</tr>
<tr>
<td>/labels</td>
<td>Supported</td>
<td>Not supported</td>
<td>Supported</td>
<td>Not supported</td>
</tr>
<tr>
<td>/name</td>
<td>Not supported</td>
<td>Supported</td>
<td>Not supported</td>
<td>Not supported</td>
</tr>
<tr>
<td>/stages</td>
<td>Supported</td>
<td>Not supported</td>
<td>Supported</td>
<td>Not supported</td>
</tr>
</tbody>
</table>

### UpdateAuthorizer

The following table shows the supported and unsupported op operations for UpdateAuthorizer.

<table>
<thead>
<tr>
<th>Path</th>
<th>op:add</th>
<th>op:replace</th>
<th>op:remove</th>
<th>op:copy</th>
</tr>
</thead>
<tbody>
<tr>
<td>/authorizerUri</td>
<td>Not supported</td>
<td>Supported</td>
<td>Not supported</td>
<td>Not supported</td>
</tr>
<tr>
<td>/authorizerCredentials</td>
<td>Not supported</td>
<td>Supported</td>
<td>Not supported</td>
<td>Not supported</td>
</tr>
<tr>
<td>/authorizerResultTtlInSeconds</td>
<td>Not supported</td>
<td>Supported</td>
<td>Not supported</td>
<td>Not supported</td>
</tr>
</tbody>
</table>
The following table shows the supported and unsupported operation (op) results for UpdateBasePathMapping:

<table>
<thead>
<tr>
<th>Path</th>
<th>op:add</th>
<th>op:replace</th>
<th>op:remove</th>
<th>op:copy</th>
</tr>
</thead>
<tbody>
<tr>
<td>/authType</td>
<td>Not supported</td>
<td>Supported</td>
<td>Not supported</td>
<td>Not supported</td>
</tr>
<tr>
<td>/identitySource</td>
<td>Supported</td>
<td>Supported</td>
<td>Supported</td>
<td>Not supported</td>
</tr>
<tr>
<td>/identityValidationExpression</td>
<td>Not supported</td>
<td>Supported</td>
<td>Not supported</td>
<td>Not supported</td>
</tr>
<tr>
<td>/name</td>
<td>Not supported</td>
<td>Supported</td>
<td>Not supported</td>
<td>Not supported</td>
</tr>
<tr>
<td>/providerARNs</td>
<td>Supported</td>
<td>Not supported</td>
<td>Supported</td>
<td>Not supported</td>
</tr>
<tr>
<td>/type</td>
<td>Not supported</td>
<td>Supported</td>
<td>Not supported</td>
<td>Not supported</td>
</tr>
</tbody>
</table>

**UpdateClientCertificate**

The following table shows the supported and unsupported op operations for UpdateClientCertificate:

<table>
<thead>
<tr>
<th>Path</th>
<th>op:add</th>
<th>op:replace</th>
<th>op:remove</th>
<th>op:copy</th>
</tr>
</thead>
<tbody>
<tr>
<td>/description</td>
<td>Not supported</td>
<td>Supported</td>
<td>Not supported</td>
<td>Not supported</td>
</tr>
</tbody>
</table>

**UpdateDeployment**

The following table shows the supported and unsupported op operations for UpdateDeployment:

<table>
<thead>
<tr>
<th>Path</th>
<th>op:add</th>
<th>op:replace</th>
<th>op:remove</th>
<th>op:copy</th>
</tr>
</thead>
<tbody>
<tr>
<td>/description</td>
<td>Not supported</td>
<td>Supported</td>
<td>Not supported</td>
<td>Not supported</td>
</tr>
</tbody>
</table>

**UpdateDocumentationPart**

The following table shows the supported and unsupported op operations for UpdateDocumentationPart.
## UpdateDocumentationVersion

The following table shows the supported and unsupported op operations for `UpdateDocumentationVersion`.

<table>
<thead>
<tr>
<th>Path</th>
<th>op:add</th>
<th>op:replace</th>
<th>op:remove</th>
<th>op:copy</th>
</tr>
</thead>
<tbody>
<tr>
<td>/properties</td>
<td>Not supported</td>
<td>Supported</td>
<td>Not supported</td>
<td>Not supported</td>
</tr>
</tbody>
</table>

## UpdateDomainName

The following table shows the supported and unsupported op operations for `UpdateDomainName`.

<table>
<thead>
<tr>
<th>Path</th>
<th>op:add</th>
<th>op:replace</th>
<th>op:remove</th>
<th>op:copy</th>
</tr>
</thead>
<tbody>
<tr>
<td>/description</td>
<td>Not supported</td>
<td>Supported</td>
<td>Not supported</td>
<td>Not supported</td>
</tr>
<tr>
<td>/certificateName</td>
<td>Supported for adding an edge certificate while updating a regional domain name to an edge-optimized one. This operation cannot be included with the remove operation in the same request.</td>
<td>Supported for rotating an edge certificate of an edge-optimized domain name.</td>
<td>Supported for removing an edge certificate while updating an edge-optimized domain name to a regional one. This operation cannot be included with the add operation in the same request.</td>
<td>Not supported</td>
</tr>
<tr>
<td>/certificateArn</td>
<td>Supported for adding an edge certificate while updating a regional domain name to an edge-optimized one. This operation cannot be included with the remove operation in the same request.</td>
<td>Supported for rotating an edge certificate of an edge-optimized domain name.</td>
<td>Supported for removing an edge certificate while updating an edge-optimized domain name to a regional one. This operation cannot be included with the add operation in the same request.</td>
<td>Not supported</td>
</tr>
<tr>
<td>/endpointConfiguration/types</td>
<td>Supported for updates between edge-optimized and regional endpoints. This</td>
<td>Not supported</td>
<td>Supported for updates between edge-optimized and regional endpoints. This</td>
<td>Not supported</td>
</tr>
</tbody>
</table>
The following table shows the supported and unsupported op operations for UpdateGatewayResponse.

<table>
<thead>
<tr>
<th>Path</th>
<th>op:add</th>
<th>op:replace</th>
<th>op:remove</th>
<th>op:copy</th>
</tr>
</thead>
<tbody>
<tr>
<td>/mutualTlsAuthentication/truststoreUri</td>
<td>Supported</td>
<td>Supported</td>
<td>Supported</td>
<td>Not supported</td>
</tr>
<tr>
<td>/mutualTlsAuthentication/truststoreVersion</td>
<td>Supported</td>
<td>Supported</td>
<td>Not supported</td>
<td></td>
</tr>
<tr>
<td>/regionalCertificateName</td>
<td>Supported for adding a regional certificate. This operation cannot be included with the remove operation in the same request.</td>
<td>Supported for rotating a regional certificate of a regional domain name.</td>
<td>Supported for removing a regional certificate of an inactive API endpoint. This operation cannot be included with the add operation in the same request.</td>
<td>Not supported</td>
</tr>
<tr>
<td>/regionalCertificateArn</td>
<td>Supported for adding a regional certificate. This operation cannot be included with the remove operation in the same request.</td>
<td>Supported for rotating a regional certificate of a regional domain name.</td>
<td>Supported for removing a regional certificate of an inactive API endpoint. This operation cannot be included with the add operation in the same request.</td>
<td>Not supported</td>
</tr>
<tr>
<td>/securityPolicy</td>
<td>Not supported</td>
<td>Supported for migrating a domain name.</td>
<td>Not supported</td>
<td>Not supported</td>
</tr>
<tr>
<td>/ownershipVerificationCertificateArn</td>
<td>Supported</td>
<td>Supported</td>
<td>Supported</td>
<td>Not supported</td>
</tr>
</tbody>
</table>

UpdateGatewayResponse

The following table shows the supported and unsupported op operations for UpdateGatewayResponse.

<table>
<thead>
<tr>
<th>Path</th>
<th>op:add</th>
<th>op:replace</th>
<th>op:remove</th>
<th>op:copy</th>
</tr>
</thead>
<tbody>
<tr>
<td>/statusCode</td>
<td>Not supported</td>
<td>Supported</td>
<td>Not supported</td>
<td>Not supported</td>
</tr>
<tr>
<td>/responseParameters</td>
<td>Supported</td>
<td>Supported</td>
<td>Supported</td>
<td>Not supported</td>
</tr>
</tbody>
</table>
UpdateIntegration

The following table shows the supported and unsupported op operations for UpdateIntegration.

<table>
<thead>
<tr>
<th>Path</th>
<th>op:add</th>
<th>op:replace</th>
<th>op:remove</th>
<th>op:copy</th>
</tr>
</thead>
<tbody>
<tr>
<td>/responseTemplates</td>
<td>Supported</td>
<td>Supported</td>
<td>Supported</td>
<td>Not supported</td>
</tr>
<tr>
<td>/cacheKeyParameters</td>
<td>Supported</td>
<td>Supported</td>
<td>Supported</td>
<td>Not supported</td>
</tr>
<tr>
<td>/cacheNamespace</td>
<td>Not supported</td>
<td>Supported</td>
<td>Not supported</td>
<td>Not supported</td>
</tr>
<tr>
<td>/connectionId</td>
<td>Not supported</td>
<td>Supported</td>
<td>Not supported</td>
<td>Not supported</td>
</tr>
<tr>
<td>/connectionType</td>
<td>Not supported</td>
<td>Supported</td>
<td>Not supported</td>
<td>Not supported</td>
</tr>
<tr>
<td>/contentHandling</td>
<td>Not supported</td>
<td>Supported</td>
<td>Not supported</td>
<td>Not supported</td>
</tr>
<tr>
<td>/httpMethod</td>
<td>Not supported</td>
<td>Supported, except for MOCK integrations</td>
<td>Not supported</td>
<td>Not supported</td>
</tr>
<tr>
<td>/passthroughBehavior</td>
<td>Not supported</td>
<td>Supported</td>
<td>Not supported</td>
<td>Not supported</td>
</tr>
<tr>
<td>/requestParameters</td>
<td>Supported</td>
<td>Supported</td>
<td>Supported</td>
<td>Not supported</td>
</tr>
<tr>
<td>/requestTemplates</td>
<td>Supported</td>
<td>Supported</td>
<td>Supported</td>
<td>Not supported</td>
</tr>
<tr>
<td>/timeoutInMillis</td>
<td>Not supported</td>
<td>Supported</td>
<td>Not supported</td>
<td>Not supported</td>
</tr>
<tr>
<td>/tlsConfig/insecureSkipVerification</td>
<td>Not supported</td>
<td>Supported</td>
<td>Not supported</td>
<td>Not supported</td>
</tr>
<tr>
<td>/type</td>
<td>Not supported</td>
<td>Not supported</td>
<td>Not supported</td>
<td>Not supported</td>
</tr>
<tr>
<td>/uri</td>
<td>Not supported</td>
<td>Supported, except for MOCK integrations</td>
<td>Not supported</td>
<td>Not supported</td>
</tr>
</tbody>
</table>

UpdateIntegrationResponse

The following table shows the supported and unsupported op operations for UpdateIntegrationResponse.

<table>
<thead>
<tr>
<th>Path</th>
<th>op:add</th>
<th>op:replace</th>
<th>op:remove</th>
<th>op:copy</th>
</tr>
</thead>
<tbody>
<tr>
<td>/cacheKeyParameters</td>
<td>Supported</td>
<td>Supported</td>
<td>Supported</td>
<td>Not supported</td>
</tr>
<tr>
<td>/cacheNamespace</td>
<td>Not supported</td>
<td>Supported</td>
<td>Not supported</td>
<td>Not supported</td>
</tr>
<tr>
<td>/connectionId</td>
<td>Not supported</td>
<td>Supported</td>
<td>Not supported</td>
<td>Not supported</td>
</tr>
<tr>
<td>/connectionType</td>
<td>Not supported</td>
<td>Supported</td>
<td>Not supported</td>
<td>Not supported</td>
</tr>
<tr>
<td>/contentHandling</td>
<td>Not supported</td>
<td>Supported</td>
<td>Not supported</td>
<td>Not supported</td>
</tr>
<tr>
<td>/httpMethod</td>
<td>Not supported</td>
<td>Supported, except for MOCK integrations</td>
<td>Not supported</td>
<td>Not supported</td>
</tr>
<tr>
<td>/passthroughBehavior</td>
<td>Not supported</td>
<td>Supported</td>
<td>Not supported</td>
<td>Not supported</td>
</tr>
<tr>
<td>/requestParameters</td>
<td>Supported</td>
<td>Supported</td>
<td>Supported</td>
<td>Not supported</td>
</tr>
<tr>
<td>/requestTemplates</td>
<td>Supported</td>
<td>Supported</td>
<td>Supported</td>
<td>Not supported</td>
</tr>
<tr>
<td>/timeoutInMillis</td>
<td>Not supported</td>
<td>Supported</td>
<td>Not supported</td>
<td>Not supported</td>
</tr>
<tr>
<td>/tlsConfig/insecureSkipVerification</td>
<td>Not supported</td>
<td>Supported</td>
<td>Not supported</td>
<td>Not supported</td>
</tr>
<tr>
<td>/type</td>
<td>Not supported</td>
<td>Not supported</td>
<td>Not supported</td>
<td>Not supported</td>
</tr>
<tr>
<td>/uri</td>
<td>Not supported</td>
<td>Supported, except for MOCK integrations</td>
<td>Not supported</td>
<td>Not supported</td>
</tr>
</tbody>
</table>
UpdateMethod

The following table shows the supported and unsupported op operations for UpdateMethod.

<table>
<thead>
<tr>
<th>Path</th>
<th>op:add</th>
<th>op:replace</th>
<th>op:remove</th>
<th>op:copy</th>
</tr>
</thead>
<tbody>
<tr>
<td>/authorizationScopes</td>
<td>Supported</td>
<td>Not supported</td>
<td>Supported</td>
<td>Not supported</td>
</tr>
<tr>
<td>/authorizationType</td>
<td>Not supported</td>
<td>Supported</td>
<td>Not supported</td>
<td>Not supported</td>
</tr>
<tr>
<td>/authorizerId</td>
<td>Not supported</td>
<td>Supported</td>
<td>Not supported</td>
<td>Not supported</td>
</tr>
<tr>
<td>/apiKeyRequired</td>
<td>Not supported</td>
<td>Supported</td>
<td>Not supported</td>
<td>Not supported</td>
</tr>
<tr>
<td>/operationName</td>
<td>Not supported</td>
<td>Supported</td>
<td>Not supported</td>
<td>Not supported</td>
</tr>
<tr>
<td>/requestParameters</td>
<td>Supported</td>
<td>Supported, except for MOCK integrations</td>
<td>Supported</td>
<td>Not supported</td>
</tr>
<tr>
<td>/requestModels</td>
<td>Supported</td>
<td>Supported</td>
<td>Supported</td>
<td>Not supported</td>
</tr>
<tr>
<td>/requestValidatorId</td>
<td>Not supported</td>
<td>Supported</td>
<td>Not supported</td>
<td>Not supported</td>
</tr>
</tbody>
</table>

UpdateMethodResponse

The following table shows the supported and unsupported op operations for UpdateMethodResponse.

<table>
<thead>
<tr>
<th>Path</th>
<th>op:add</th>
<th>op:replace</th>
<th>op:remove</th>
<th>op:copy</th>
</tr>
</thead>
<tbody>
<tr>
<td>/responseModels</td>
<td>Supported</td>
<td>Supported</td>
<td>Supported</td>
<td>Not supported</td>
</tr>
<tr>
<td>/responseParameters</td>
<td>Supported</td>
<td>Supported</td>
<td>Supported</td>
<td>Not supported</td>
</tr>
</tbody>
</table>
UpdateModel

The following table shows the supported and unsupported op operations for UpdateModel.

<table>
<thead>
<tr>
<th>Path</th>
<th>op:add</th>
<th>op:replace</th>
<th>op:remove</th>
<th>op:copy</th>
</tr>
</thead>
<tbody>
<tr>
<td>/description</td>
<td>Not supported</td>
<td>Supported</td>
<td>Not supported</td>
<td>Not supported</td>
</tr>
<tr>
<td>/schema</td>
<td>Not supported</td>
<td>Supported</td>
<td>Not supported</td>
<td>Not supported</td>
</tr>
</tbody>
</table>

UpdateRequestValidator

The following table shows the supported and unsupported op operations for UpdateRequestValidator.

<table>
<thead>
<tr>
<th>Path</th>
<th>op:add</th>
<th>op:replace</th>
<th>op:remove</th>
<th>op:copy</th>
</tr>
</thead>
<tbody>
<tr>
<td>/name</td>
<td>Not supported</td>
<td>Supported</td>
<td>Not supported</td>
<td>Not supported</td>
</tr>
<tr>
<td>/validateRequestBody</td>
<td>Not supported</td>
<td>Supported</td>
<td>Not supported</td>
<td>Not supported</td>
</tr>
<tr>
<td>/validateRequestParameters</td>
<td>Not supported</td>
<td>Supported</td>
<td>Not supported</td>
<td>Not supported</td>
</tr>
</tbody>
</table>

UpdateResource

The following table shows the supported and unsupported op operations for UpdateResource.

<table>
<thead>
<tr>
<th>Path</th>
<th>op:add</th>
<th>op:replace</th>
<th>op:remove</th>
<th>op:copy</th>
</tr>
</thead>
<tbody>
<tr>
<td>/parentId</td>
<td>Not supported</td>
<td>Supported</td>
<td>Not supported</td>
<td>Not supported</td>
</tr>
<tr>
<td>/pathPart</td>
<td>Not supported</td>
<td>Supported</td>
<td>Not supported</td>
<td>Not supported</td>
</tr>
</tbody>
</table>

UpdateRestApi

The following table shows the supported and unsupported op operations for UpdateRestApi.

<table>
<thead>
<tr>
<th>Path</th>
<th>op:add</th>
<th>op:replace</th>
<th>op:remove</th>
<th>op:copy</th>
</tr>
</thead>
<tbody>
<tr>
<td>/apiKeySource</td>
<td>Not supported</td>
<td>Supported</td>
<td>Not supported</td>
<td>Not supported</td>
</tr>
<tr>
<td>/binaryMediaTypes</td>
<td>Supported</td>
<td>Supported</td>
<td>Supported</td>
<td>Not supported</td>
</tr>
<tr>
<td>/description</td>
<td>Supported</td>
<td>Supported</td>
<td>Supported</td>
<td>Not supported</td>
</tr>
<tr>
<td>/disableExecuteApiEndpoint</td>
<td>Not supported</td>
<td>Supported</td>
<td>Not supported</td>
<td>Not supported</td>
</tr>
</tbody>
</table>
## UpdateStage

The following table shows the supported and unsupported op operations for UpdateStage.

<table>
<thead>
<tr>
<th>Path</th>
<th>op:add</th>
<th>op:replace</th>
<th>op:remove</th>
<th>op:copy</th>
</tr>
</thead>
<tbody>
<tr>
<td>/accessLogSettings</td>
<td>Not supported</td>
<td>Not supported</td>
<td>Supported</td>
<td>Not supported</td>
</tr>
<tr>
<td>/accessLogSettings/*</td>
<td>Not supported</td>
<td>Supported</td>
<td>Not supported</td>
<td>Not supported</td>
</tr>
<tr>
<td>/accessLogSettings/destinationArn</td>
<td>Supported</td>
<td>Supported</td>
<td>Supported</td>
<td>Not supported</td>
</tr>
<tr>
<td>/accessLogSettings/format</td>
<td>Supported</td>
<td>Supported</td>
<td>Supported</td>
<td>Not supported</td>
</tr>
<tr>
<td>/cacheClusterEnabled</td>
<td>Not supported</td>
<td>Supported</td>
<td>Not supported</td>
<td>Not supported</td>
</tr>
<tr>
<td>/cacheClusterSize</td>
<td>Not supported</td>
<td>Supported</td>
<td>Not supported</td>
<td>Not supported</td>
</tr>
<tr>
<td>/canarySettings</td>
<td>Not supported</td>
<td>Not supported</td>
<td>Supported</td>
<td>Not supported</td>
</tr>
<tr>
<td>/canarySettings/deploymentId</td>
<td>Not supported</td>
<td>Supported</td>
<td>Not supported</td>
<td>Not supported</td>
</tr>
</tbody>
</table>

* To enable compression, apply a replace operation with the accompanying value property set to a non-negative integer between 0 and 10485760. To disable compression, apply a replace operation with the value property set to null or omit the value property.
<table>
<thead>
<tr>
<th>Path</th>
<th>op:add</th>
<th>op:replace</th>
<th>op:remove</th>
<th>op:copy</th>
</tr>
</thead>
<tbody>
<tr>
<td>/canarySettings/percentTraffic</td>
<td>Not supported</td>
<td>Supported</td>
<td>Not supported</td>
<td>Not supported</td>
</tr>
<tr>
<td>/canarySettings/stageVariableOverrides</td>
<td>Not supported</td>
<td>Supported</td>
<td>Not supported</td>
<td>Not supported</td>
</tr>
<tr>
<td>/canarySettings/useStageCache</td>
<td>Not supported</td>
<td>Supported</td>
<td>Not supported</td>
<td>Not supported</td>
</tr>
<tr>
<td>/clientCertificateId</td>
<td>Not supported</td>
<td>Supported</td>
<td>Not supported</td>
<td>Not supported</td>
</tr>
<tr>
<td>/deploymentId</td>
<td>Not supported</td>
<td>Supported</td>
<td>Not supported</td>
<td>Supported</td>
</tr>
<tr>
<td>/description</td>
<td>Not supported</td>
<td>Supported</td>
<td>Not supported</td>
<td>Not supported</td>
</tr>
<tr>
<td>/documentationVersion</td>
<td>Not supported</td>
<td>Supported</td>
<td>Not supported</td>
<td>Not supported</td>
</tr>
<tr>
<td>/methodSettings</td>
<td>Not supported</td>
<td>Supported</td>
<td>Not supported</td>
<td>Not supported</td>
</tr>
<tr>
<td>/variables</td>
<td>Not supported</td>
<td>Supported</td>
<td>Supported</td>
<td>Not supported</td>
</tr>
<tr>
<td>/variables/*</td>
<td>Not supported</td>
<td>Supported</td>
<td>Not supported</td>
<td>Not supported</td>
</tr>
<tr>
<td>/tracingEnabled</td>
<td>Not supported</td>
<td>Supported</td>
<td>Not supported</td>
<td>Not supported</td>
</tr>
<tr>
<td>/{resourcePath}/{httpMethod}/metrics/enabled</td>
<td>Not supported</td>
<td>Supported</td>
<td>Not supported</td>
<td>Not supported</td>
</tr>
<tr>
<td>/{resourcePath}/{httpMethod}/logging/dataTrace</td>
<td>Not supported</td>
<td>Supported</td>
<td>Not supported</td>
<td>Not supported</td>
</tr>
<tr>
<td>/{resourcePath}/{httpMethod}/logging/loglevel</td>
<td>Not supported</td>
<td>Supported</td>
<td>Not supported</td>
<td>Not supported</td>
</tr>
<tr>
<td>/{resourcePath}/{httpMethod}/throttling/burstLimit</td>
<td>Not supported</td>
<td>Supported</td>
<td>Not supported</td>
<td>Not supported</td>
</tr>
</tbody>
</table>
### UpdateUsage

The following table shows the supported and unsupported op operations for UpdateUsage.

<table>
<thead>
<tr>
<th>Path</th>
<th>op:add</th>
<th>op:replace</th>
<th>op:remove</th>
<th>op:copy</th>
</tr>
</thead>
<tbody>
<tr>
<td>/remaining</td>
<td>Not supported</td>
<td>Supported</td>
<td>Not supported</td>
<td>Not supported</td>
</tr>
</tbody>
</table>

### UpdateUsagePlan

The following table shows the supported and unsupported op operations for UpdateUsagePlan.

<table>
<thead>
<tr>
<th>Path</th>
<th>op:add</th>
<th>op:replace</th>
<th>op:remove</th>
<th>op:copy</th>
</tr>
</thead>
<tbody>
<tr>
<td>/apiStages</td>
<td>Supported</td>
<td>Not supported</td>
<td>Supported</td>
<td>Not supported</td>
</tr>
</tbody>
</table>
### UpdateVpcLink

The following table shows the supported and unsupported op operations for `UpdateVpcLink`.

<table>
<thead>
<tr>
<th>Path</th>
<th>op:add</th>
<th>op:replace</th>
<th>op:remove</th>
<th>op:copy</th>
</tr>
</thead>
<tbody>
<tr>
<td>/apiStages/</td>
<td>Not supported</td>
<td>Not supported</td>
<td>Supported</td>
<td>Not supported</td>
</tr>
<tr>
<td>{apidId:stageName}/throttle/</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>{resourcePath}/</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>{httpMethod}</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>/apiStages/</td>
<td>Supported</td>
<td></td>
<td>Not supported</td>
<td>Not supported</td>
</tr>
<tr>
<td>{apidId:stageName}/throttle/</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>{resourcePath}/</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>{httpMethod}/rateLimit</td>
<td>Supported</td>
<td></td>
<td>Not supported</td>
<td>Not supported</td>
</tr>
<tr>
<td>/apiStages/</td>
<td>Supported</td>
<td></td>
<td>Supported</td>
<td>Not supported</td>
</tr>
<tr>
<td>{apidId:stageName}/throttle/</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>{resourcePath}/</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>{httpMethod}/burstLimit</td>
<td>Supported</td>
<td></td>
<td>Supported</td>
<td>Not supported</td>
</tr>
<tr>
<td>/apiStages/</td>
<td>Supported</td>
<td></td>
<td>Supported</td>
<td>Not supported</td>
</tr>
<tr>
<td>{apidId:stageName}/throttle/</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>/description</td>
<td>Not supported</td>
<td>Supported</td>
<td>Not supported</td>
<td>Not supported</td>
</tr>
<tr>
<td>/name</td>
<td>Not supported</td>
<td>Supported</td>
<td>Not supported</td>
<td>Not supported</td>
</tr>
<tr>
<td>/productCode</td>
<td>Supported</td>
<td></td>
<td>Supported</td>
<td>Not supported</td>
</tr>
<tr>
<td>/quota</td>
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<td>Not supported</td>
<td>Supported</td>
<td>Not supported</td>
</tr>
<tr>
<td>/quota/limit</td>
<td>Supported</td>
<td></td>
<td>Not supported</td>
<td>Not supported</td>
</tr>
<tr>
<td>/quota/offset</td>
<td>Supported</td>
<td></td>
<td>Not supported</td>
<td>Not supported</td>
</tr>
<tr>
<td>/quota/period</td>
<td>Supported</td>
<td></td>
<td>Not supported</td>
<td>Not supported</td>
</tr>
<tr>
<td>/throttle</td>
<td>Not supported</td>
<td>Not supported</td>
<td>Supported</td>
<td>Not supported</td>
</tr>
<tr>
<td>/throttle/burstLimit</td>
<td>Supported</td>
<td></td>
<td>Not supported</td>
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</tr>
<tr>
<td>/throttle/rateLimit</td>
<td>Supported</td>
<td></td>
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</tr>
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</table>

API Version 2015-07-09

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