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Welcome

This is the *AWS Shield Advanced API Reference*. This guide is for developers who need detailed information about the AWS Shield Advanced API actions, data types, and errors. For detailed information about AWS WAF and AWS Shield Advanced features and an overview of how to use the AWS WAF and AWS Shield Advanced APIs, see the [AWS WAF and AWS Shield Developer Guide](#).

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Actions

The following actions are supported:

- CreateProtection (p. 3)
- CreateSubscription (p. 6)
- DeleteProtection (p. 7)
- DeleteSubscription (p. 9)
- DescribeAttack (p. 10)
- DescribeProtection (p. 13)
- DescribeSubscription (p. 15)
- GetSubscriptionState (p. 17)
- ListAttacks (p. 18)
- ListProtections (p. 21)
CreateProtection

Enables AWS Shield Advanced for a specific AWS resource. The resource can be an Amazon CloudFront distribution, Elastic Load Balancing load balancer, Elastic IP Address, or an Amazon Route 53 hosted zone.

Request Syntax

```
{
    "Name": "string",
    "ResourceArn": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 39).

The request accepts the following data in JSON format.

Name (p. 3)

Friendly name for the Protection you are creating.

Type: String


Pattern: [ a-zA-Z0-9 \_\-]*

Required: Yes

ResourceArn (p. 3)

The ARN (Amazon Resource Name) of the resource to be protected.

The ARN should be in one of the following formats:

- For AWS CloudFront distribution: `arn:aws:cloudfront::account-id:distribution/distribution-id`
- For Amazon Route 53: `arn:aws:route53::account-id:hostedzone/hosted-zone-id`
- For an Elastic IP address: `arn:aws:ec2:region:account-id:eip-allocation/allocation-id`

Type: String

Length Constraints: Minimum length of 1.

Required: Yes
Response Syntax

{  "ProtectionId": "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.

**ProtectionId (p. 4)**

The unique identifier (ID) for the Protection (p. 32) object that is created.

Type: String


Pattern: [a-zA-Z0-9\-]*

Errors

For information about the errors that are common to all actions, see Common Errors (p. 41).

**InternalErrorException**

Exception that indicates that a problem occurred with the service infrastructure. You can retry the request.

HTTP Status Code: 500

**InvalidOperationException**

Exception that indicates that the operation would not cause any change to occur.

HTTP Status Code: 400

**InvalidResourceException**

Exception that indicates that the resource is invalid. You might not have access to the resource, or the resource might not exist.

HTTP Status Code: 400

**LimitsExceededException**

Exception that indicates that the operation would exceed a limit.

Type is the type of limit that would be exceed.

Limit is the threshold that would be exceed.

HTTP Status Code: 400

**OptimisticLockException**

Exception that indicates that the protection state has been modified by another client. You can retry the request.
HTTP Status Code: 400

**ResourceAlreadyExistsException**

Exception indicating the specified resource already exists.

HTTP Status Code: 400

**ResourceNotFoundException**

Exception indicating the specified resource does not exist.

HTTP Status Code: 400

See Also

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

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

Activates AWS Shield Advanced for an account.

Response Elements

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

Errors

For information about the errors that are common to all actions, see Common Errors (p. 41).

InternalErrorException

Exception that indicates that a problem occurred with the service infrastructure. You can retry the request.

HTTP Status Code: 500

ResourceAlreadyExistsException

Exception indicating the specified resource already exists.

HTTP Status Code: 400

See Also

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

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

Deletes an AWS Shield Advanced Protection (p. 32).

Request Syntax

```json
{
    "ProtectionId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 39).

The request accepts the following data in JSON format.

**ProtectionId (p. 7)**

The unique identifier (ID) for the Protection (p. 32) object to be deleted.

- Type: String
- Pattern: [\a-zA-Z0-9\-]*
- Required: Yes

Response Elements

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

Errors

For information about the errors that are common to all actions, see Common Errors (p. 41).

- **InternalErrorException**
  - Exception that indicates that a problem occurred with the service infrastructure. You can retry the request.
  - HTTP Status Code: 500

- **OptimisticLockException**
  - Exception that indicates that the protection state has been modified by another client. You can retry the request.
  - HTTP Status Code: 400

- **ResourceNotFoundException**
  - Exception indicating the specified resource does not exist.
  - HTTP Status Code: 400
See Also

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

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

Removes AWS Shield Advanced from an account. AWS Shield Advanced requires a 1-year subscription commitment. You cannot delete a subscription prior to the completion of that commitment.

Response Elements

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

Errors

For information about the errors that are common to all actions, see Common Errors (p. 41).

InternalErrorException

Exception that indicates that a problem occurred with the service infrastructure. You can retry the request.

HTTP Status Code: 500

LockedSubscriptionException

Exception that indicates that the subscription you are trying to delete has not yet completed the 1-year commitment. You cannot delete this subscription.

HTTP Status Code: 400

ResourceNotFoundException

Exception indicating the specified resource does not exist.

HTTP Status Code: 400

See Also

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

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

Describes the details of a DDoS attack.

Request Syntax

```
{
  "AttackId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 39).

The request accepts the following data in JSON format.

**AttackId (p. 10)**

The unique identifier (ID) for the attack that to be described.

Type: String


Pattern: [a-zA-Z0-9\-]*

Required: Yes

Response Syntax

```
{
  "Attack": {
    "AttackCounters": [
      {
        "Average": number,
        "Max": number,
        "N": number,
        "Name": "string",
        "Sum": number,
        "Unit": "string"
      }
    ],
    "AttackId": "string",
    "AttackProperties": [
      {
        "AttackLayer": "string",
        "AttackPropertyIdentifier": "string",
        "TopContributors": [
          {
            "Name": "string",
            "Value": number
          }
        ],
        "Total": number,
        "Unit": "string"
      }
    ],
  }
}
```
"EndTime": number,
"Mitigations": [
  {
    "MitigationName": "string"
  }
],
"ResourceArn": "string",
"StartTime": number,
"SubResources": [
  {
    "AttackVectors": [
      {
        "VectorCounters": [
          {
            "Average": number,
            "Max": number,
            "N": number,
            "Name": "string",
            "Sum": number,
            "Unit": "string"
          }
        ],
        "VectorType": "string"
      }
    ],
    "Counters": [
      {
        "Average": number,
        "Max": number,
        "N": number,
        "Name": "string",
        "Sum": number,
        "Unit": "string"
      }
    ],
    "Id": "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.

**Attack (p. 10)**

The attack that is described.

Type: `AttackDetail (p. 24)` object

**Errors**

For information about the errors that are common to all actions, see [Common Errors (p. 41)].

**InternalErrorException**

Exception that indicates that a problem occurred with the service infrastructure. You can retry the request.
HTTP Status Code: 500

**InvalidParameterException**

Exception that indicates that the parameters passed to the API are invalid.

HTTP Status Code: 400

**See Also**

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

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

Lists the details of a Protection (p. 32) object.

Request Syntax

```
{
  "ProtectionId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 39).

The request accepts the following data in JSON format.

**ProtectionId (p. 13)**

The unique identifier (ID) for the Protection (p. 32) object that is described.

Type: String


Pattern: `[a-zA-Z0-9\-]*`

Required: Yes

Response Syntax

```
{
  "Protection": {
    "Id": "string",
    "Name": "string",
    "ResourceArn": "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.

**Protection (p. 13)**

The Protection (p. 32) object that is described.

Type: Protection (p. 32) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 41).
InternalErrorException

Exception that indicates that a problem occurred with the service infrastructure. You can retry the request.

HTTP Status Code: 500

ResourceNotFoundException

Exception indicating the specified resource does not exist.

HTTP Status Code: 400

See Also

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

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

Provides details about the AWS Shield Advanced subscription for an account.

Response Syntax

```json
{
    "Subscription": {
        "StartTime": number,
        "TimeCommitmentInSeconds": 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.

**Subscription (p. 15)**

The AWS Shield Advanced subscription details for an account.

Type: Subscription (p. 34) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 41).

**InternalErrorException**

Exception that indicates that a problem occurred with the service infrastructure. You can retry the request.

HTTP Status Code: 500

**ResourceNotFoundException**

Exception indicating the specified resource does not exist.

HTTP Status Code: 400

See Also

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

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

Returns the SubscriptionState, either Active or Inactive.

Response Syntax

```json
{
    "SubscriptionState": "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.

SubscriptionState (p. 17)

The status of the subscription.
Type: String
Valid Values: ACTIVE | INACTIVE

Errors

For information about the errors that are common to all actions, see Common Errors (p. 41).

InternalErrorException

Exception that indicates that a problem occurred with the service infrastructure. You can retry the request.

HTTP Status Code: 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
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2

API Version 2016-06-02
ListAttacks

Returns all ongoing DDoS attacks or all DDoS attacks during a specified time period.

Request Syntax

```
{
   "EndTime": {
      "FromInclusive": number,
      "ToExclusive": number
   },
   "MaxResults": number,
   "NextToken": "string",
   "ResourceArns": [ "string" ],
   "StartTime": {
      "FromInclusive": number,
      "ToExclusive": number
   }
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 39).

The request accepts the following data in JSON format.

**EndTime (p. 18)**

The end of the time period for the attacks. This is a timestamp type. The sample request above indicates a number type because the default used by WAF is Unix time in seconds. However any valid timestamp format is allowed.

- Type: TimeRange (p. 38) object
- Required: No

**MaxResults (p. 18)**

The maximum number of AttackSummary (p. 28) objects to be returned. If this is left blank, the first 20 results will be returned.

- Type: Integer
- Valid Range: Minimum value of 0. Maximum value of 10000.
- Required: No

**NextToken (p. 18)**

The ListAttacksRequest.NextMarker value from a previous call to ListAttacksRequest. Pass null if this is the first call.

- Type: String
- Length Constraints: Minimum length of 1.
- Required: No
ResourceArns (p. 18)

The ARN (Amazon Resource Name) of the resource that was attacked. If this is left blank, all applicable resources for this account will be included.

Type: Array of strings

Length Constraints: Minimum length of 1.

Required: No

StartTime (p. 18)

The start of the time period for the attacks. This is a timestamp type. The sample request above indicates a number type because the default used by WAF is Unix time in seconds. However any valid timestamp format is allowed.

Type: TimeRange (p. 38) object

Required: No

Response Syntax

```json
{
    "AttackSummaries": [
        {
            "AttackId": "string",
            "AttackVectors": [
                {
                    "VectorType": "string"
                }
            ],
            "EndTime": number,
            "ResourceArn": "string",
            "StartTime": number
        }
    ],
    "NextToken": "string"
}
```

Response Elements

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

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

AttackSummaries (p. 19)

The attack information for the specified time range.

Type: Array of AttackSummary (p. 28) objects

NextToken (p. 19)

The token returned by a previous call to indicate that there is more data available. If not null, more results are available. Pass this value for the NextMarker parameter in a subsequent call to ListAttacks to retrieve the next set of items.

Type: String

Length Constraints: Minimum length of 1.
Errors

For information about the errors that are common to all actions, see Common Errors (p. 41).

**InternalErrorException**

Exception that indicates that a problem occurred with the service infrastructure. You can retry the request.

HTTP Status Code: 500

**InvalidOperationException**

Exception that indicates that the operation would not cause any change to occur.

HTTP Status Code: 400

**InvalidParameterException**

Exception that indicates that the parameters passed to the API are invalid.

HTTP Status Code: 400

See Also

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

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

Lists all Protection (p. 32) objects for the account.

Request Syntax

```
{
    "MaxResults": number,
    "NextToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 39).

The request accepts the following data in JSON format.

**MaxResults (p. 21)**

The maximum number of Protection (p. 32) objects to be returned. If this is left blank the first 20 results will be returned.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 10000.

Required: No

**NextToken (p. 21)**

The ListProtectionsRequest.NextToken value from a previous call to ListProtections. Pass null if this is the first call.

Type: String

Length Constraints: Minimum length of 1.

Required: No

Response Syntax

```
{
    "NextToken": "string",
    "Protections": [
    {
        "Id": "string",
        "Name": "string",
        "ResourceArn": "string"
    }
    ]
}
```

Response Elements

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

API Version 2016-06-02
The following data is returned in JSON format by the service.

**NextToken (p. 21)**

If you specify a value for `MaxResults` and you have more Protections than the value of `MaxResults`, AWS Shield Advanced returns a `NextToken` value in the response that allows you to list another group of Protections. For the second and subsequent ListProtections requests, specify the value of `NextToken` from the previous response to get information about another batch of Protections.

Type: String
Length Constraints: Minimum length of 1.

**Protections (p. 21)**

The array of enabled Protection (p. 32) objects.

Type: Array of Protection (p. 32) objects

**Errors**

For information about the errors that are common to all actions, see Common Errors (p. 41).

**InternalErrorException**

Exception that indicates that a problem occurred with the service infrastructure. You can retry the request.

HTTP Status Code: 500

**ResourceNotFoundException**

Exception indicating the specified resource does not exist.

HTTP Status Code: 400

**See Also**

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

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

The AWS Shield 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:

- AttackDetail (p. 24)
- AttackProperty (p. 26)
- AttackSummary (p. 28)
- AttackVectorDescription (p. 29)
- Contributor (p. 30)
- Mitigation (p. 31)
- Protection (p. 32)
- SubResourceSummary (p. 33)
- Subscription (p. 34)
- SummarizedAttackVector (p. 35)
- SummarizedCounter (p. 36)
- TimeRange (p. 38)
AttackDetail

The details of a DDoS attack.

Contents

AttackCounters
List of counters that describe the attack for the specified time period.
Type: Array of SummarizedCounter (p. 36) objects
Required: No

AttackId
The unique identifier (ID) of the attack.
Type: String
Pattern: [a-zA-Z0-9\-_]*
Required: No

AttackProperties
The array of AttackProperty (p. 26) objects.
Type: Array of AttackProperty (p. 26) objects
Required: No

EndTime
The time the attack ended, in Unix time in seconds. For more information see timestamp.
Type: Timestamp
Required: No

Mitigations
List of mitigation actions taken for the attack.
Type: Array of Mitigation (p. 31) objects
Required: No

ResourceArn
The ARN (Amazon Resource Name) of the resource that was attacked.
Type: String
Length Constraints: Minimum length of 1.
Required: No

StartTime
The time the attack started, in Unix time in seconds. For more information see timestamp.
Type: Timestamp
Required: No

SubResources

If applicable, additional detail about the resource being attacked, for example, IP address or URL.
Type: Array of SubResourceSummary (p. 33) objects
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
- AWS SDK for Ruby V2
AttackProperty

Details of the described attack.

Contents

**AttackLayer**

The type of DDoS event that was observed. NETWORK indicates layer 3 and layer 4 events and APPLICATION indicates layer 7 events.

Type: String

Valid Values: NETWORK | APPLICATION

Required: No

**AttackPropertyIdentifier**

Defines the DDoS attack property information that is provided.

Type: String

Valid Values: DESTINATION_URL | REFERER | SOURCE_ASN | SOURCE_COUNTRY | SOURCE_IP_ADDRESS | SOURCE_USER_AGENT

Required: No

**TopContributors**

The array of Contributor (p. 30) objects that includes the top five contributors to an attack.

Type: Array of Contributor (p. 30) objects

Required: No

**Total**

The total contributions made to this attack by all contributors, not just the five listed in the TopContributors list.

Type: Long

Required: No

**Unit**

The unit of the Value of the contributions.

Type: String

Valid Values: BITS | BYTES | PACKETS | REQUESTS

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
- AWS SDK for Ruby V2
AttackSummary

Summarizes all DDoS attacks for a specified time period.

Contents

AttackId
The unique identifier (ID) of the attack.
Type: String
Required: No

AttackVectors
The list of attacks for a specified time period.
Type: Array of AttackVectorDescription (p. 29) objects
Required: No

EndTime
The end time of the attack, in Unix time in seconds. For more information see timestamp.
Type: Timestamp
Required: No

ResourceArn
The ARN (Amazon Resource Name) of the resource that was attacked.
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
- AWS SDK for Ruby V2
AttackVectorDescription

Describes the attack.

Contents

VectorType

The attack type. Valid values:
- UDP_TRAFFIC
- UDP_FRAGMEN
- GENERIC_UDP_REFLECTION
- DNS_REFLECTION
- NTP_REFLECTION
- CHARGEN_REFLECTION
- SSDP_REFLECTION
- PORT_MAPPER
- RIP_REFLECTION
- SNMP_REFLECTION
- MSSQL_REFLECTION
- NET_BIOS_REFLECTION
- SYN_FLOOD
- ACK_FLOOD
- REQUEST_FLOOD

Type: String
Required: Yes

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V2
Contributor

A contributor to the attack and their contribution.

Contents

Name

The name of the contributor. This is dependent on the AttackPropertyIdentifier. For example, if the AttackPropertyIdentifier is SOURCE_COUNTRY, the Name could be United States.

Type: String

Required: No

Value

The contribution of this contributor expressed in Protection (p. 32) units. For example 10,000.

Type: Long

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V2
Mitigation

The mitigation applied to a DDoS attack.

Contents

MitigationName

The name of the mitigation taken for this attack.

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
- AWS SDK for Ruby V2
Protection

An object that represents a resource that is under DDoS protection.

Contents

Id

The unique identifier (ID) of the protection.

Type: String


Pattern: \[a-zA-Z0-9\-\]\*

Required: No

Name

The friendly name of the protection. For example, My CloudFront distributions.

Type: String


Pattern: \[a-zA-Z0-9\._\-\]\*

Required: No

ResourceArn

The ARN (Amazon Resource Name) of the AWS resource that is protected.

Type: String

Length Constraints: Minimum length of 1.

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V2
SubResourceSummary

The attack information for the specified SubResource.

Contents

AttackVectors

The list of attack types and associated counters.

Type: Array of SummarizedAttackVector (p. 35) objects

Required: No

Counters

The counters that describe the details of the attack.

Type: Array of SummarizedCounter (p. 36) objects

Required: No

Id

The unique identifier (ID) of the SubResource.

Type: String

Required: No

Type

The SubResource type.

Type: String

Valid Values: IP | URL

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
- AWS SDK for Ruby V2
Subscription

Information about the AWS Shield Advanced subscription for an account.

Contents

StartTime

The start time of the subscription, in Unix time in seconds. For more information see timestamp.

Type: Timestamp

Required: No

TimeCommitmentInSeconds

The length, in seconds, of the AWS Shield Advanced subscription for the account.

Type: Long

Valid Range: Minimum value of 0.

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
- AWS SDK for Ruby V2
SummarizedAttackVector

A summary of information about the attack.

Contents

VectorCounters

The list of counters that describe the details of the attack.

Type: Array of SummarizedCounter (p. 36) objects

Required: No

VectorType

The attack type, for example, SNMP reflection or SYN flood.

Type: String

Required: Yes

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V2
SummarizedCounter

The counter that describes a DDoS attack.

Contents

Average
The average value of the counter for a specified time period.
Type: Double
Required: No

Max
The maximum value of the counter for a specified time period.
Type: Double
Required: No

N
The number of counters for a specified time period.
Type: Integer
Required: No

Name
The counter name.
Type: String
Required: No

Sum
The total of counter values for a specified time period.
Type: Double
Required: No

Unit
The unit of the counters.
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
• AWS SDK for Ruby V2
TimeRange

The time range.

Contents

FromInclusive

The start time, in Unix time in seconds. For more information see timestamp.

Type: Timestamp

Required: No

ToExclusive

The end time, in Unix time in seconds. For more information see timestamp.

Type: Timestamp

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
- AWS SDK for Ruby V2
Common Parameters

The following list contains the parameters that all actions use for signing Signature Version 4 requests with a query string. Any action-specific parameters are listed in the topic for that action. For more information about Signature Version 4, see Signature Version 4 Signing Process in the Amazon Web Services General Reference.

**Action**

The action to be performed.

Type: string

Required: Yes

**Version**

The API version that the request is written for, expressed in the format YYYY-MM-DD.

Type: string

Required: Yes

**X-Amz-Algorithm**

The hash algorithm that you used to create the request signature.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Valid Values: AWS4-HMAC-SHA256

Required: Conditional

**X-Amz-Credential**

The credential scope value, which is a string that includes your access key, the date, the region you are targeting, the service you are requesting, and a termination string (“aws4_request”). The value is expressed in the following format: access_key/YYYYMMDD/region/service/aws4_request.

For more information, see Task 2: Create a String to Sign for Signature Version 4 in the Amazon Web Services General Reference.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

**X-Amz-Date**

The date that is used to create the signature. The format must be ISO 8601 basic format (YYYYMMDD'T'HHMMSS'Z'). For example, the following date time is a valid X-Amz-Date value: 20120325T120000Z.

Condition: X-Amz-Date is optional for all requests; it can be used to override the date used for signing requests. If the Date header is specified in the ISO 8601 basic format, X-Amz-Date is
not required. When X-Amz-Date is used, it always overrides the value of the Date header. For more information, see Handling Dates in Signature Version 4 in the Amazon Web Services General Reference.

Type: string
Required: Conditional

**X-Amz-Security-Token**

The temporary security token that was obtained through a call to AWS Security Token Service (AWS STS). For a list of services that support temporary security credentials from AWS Security Token Service, go to AWS Services That Work with IAM in the IAM User Guide.

Condition: If you're using temporary security credentials from the AWS Security Token Service, you must include the security token.

Type: string
Required: Conditional

**X-Amz-Signature**

Specifies the hex-encoded signature that was calculated from the string to sign and the derived signing key.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string
Required: Conditional

**X-Amz-SignedHeaders**

Specifies all the HTTP headers that were included as part of the canonical request. For more information about specifying signed headers, see Task 1: Create a Canonical Request For Signature Version 4 in the Amazon Web Services General Reference.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string
Required: Conditional
Common Errors

This section lists the errors common to the API actions of all AWS services. For errors specific to an API action for this service, see the topic for that API action.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 400

**IncompleteSignature**

The request signature does not conform to AWS standards.

HTTP Status Code: 400

**InternalFailure**

The request processing has failed because of an unknown error, exception or failure.

HTTP Status Code: 500

**InvalidAction**

The action or operation requested is invalid. Verify that the action is typed correctly.

HTTP Status Code: 400

**InvalidClientTokenId**

The X.509 certificate or AWS access key ID provided does not exist in our records.

HTTP Status Code: 403

**InvalidParameterCombination**

Parameters that must not be used together were used together.

HTTP Status Code: 400

**InvalidParameterValue**

An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

**InvalidQueryParameter**

The AWS query string is malformed or does not adhere to AWS standards.

HTTP Status Code: 400

**MalformedQueryString**

The query string contains a syntax error.

HTTP Status Code: 404

**MissingAction**

The request is missing an action or a required parameter.

HTTP Status Code: 400
MissingAuthenticationToken

The request must contain either a valid (registered) AWS access key ID or X.509 certificate.

HTTP Status Code: 403

MissingParameter

A required parameter for the specified action is not supplied.

HTTP Status Code: 400

OptInRequired

The AWS access key ID needs a subscription for the service.

HTTP Status Code: 403

RequestExpired

The request reached the service more than 15 minutes after the date stamp on the request or more than 15 minutes after the request expiration date (such as for pre-signed URLs), or the date stamp on the request is more than 15 minutes in the future.

HTTP Status Code: 400

ServiceUnavailable

The request has failed due to a temporary failure of the server.

HTTP Status Code: 503

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 400

ValidationError

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400