
AWS Health

API Reference

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AWS Health: API Reference

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Welcome

The AWS Health API provides programmatic access to the AWS Health information that is presented in the [AWS Personal Health Dashboard](#). You can get information about events that affect your AWS resources:

- [DescribeEvents \(p. 14\)](#): Summary information about events.
- [DescribeEventDetails \(p. 11\)](#): Detailed information about one or more events.
- [DescribeAffectedEntities \(p. 3\)](#): Information about AWS resources that are affected by one or more events.

In addition, these operations provide information about event types and summary counts of events or affected entities:

- [DescribeEventTypes \(p. 17\)](#): Information about the kinds of events that AWS Health tracks.
- [DescribeEventAggregates \(p. 8\)](#): A count of the number of events that meet specified criteria.
- [DescribeEntityAggregates \(p. 6\)](#): A count of the number of affected entities that meet specified criteria.

The Health API requires a Business or Enterprise support plan from [AWS Support](#). Calling the Health API from an account that does not have a Business or Enterprise support plan causes a `SubscriptionRequiredException`.

For authentication of requests, AWS Health uses the [Signature Version 4 Signing Process](#).

See the [AWS Health User Guide](#) for information about how to use the API.

Service Endpoint

The HTTP endpoint for the AWS Health API is:

- <https://health.us-east-1.amazonaws.com>

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Actions

The following actions are supported:

- [DescribeAffectedEntities](#) (p. 3)
- [DescribeEntityAggregates](#) (p. 6)
- [DescribeEventAggregates](#) (p. 8)
- [DescribeEventDetails](#) (p. 11)
- [DescribeEvents](#) (p. 14)
- [DescribeEventTypes](#) (p. 17)

DescribeAffectedEntities

Returns a list of entities that have been affected by the specified events, based on the specified filter criteria. Entities can refer to individual customer resources, groups of customer resources, or any other construct, depending on the AWS service. Events that have impact beyond that of the affected entities, or where the extent of impact is unknown, include at least one entity indicating this.

At least one event ARN is required. Results are sorted by the `lastUpdatedTime` of the entity, starting with the most recent.

Request Syntax

```
{
  "filter": {
    "entityArns": [ "string" ],
    "entityValues": [ "string" ],
    "eventArns": [ "string" ],
    "lastUpdatedTimes": [
      {
        "from": number,
        "to": number
      }
    ],
    "statusCodes": [ "string" ],
    "tags": [
      {
        "string" : "string"
      }
    ]
  },
  "locale": "string",
  "maxResults": number,
  "nextToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 38\)](#).

The request accepts the following data in JSON format.

filter (p. 3)

Values to narrow the results returned. At least one event ARN is required.

Type: [EntityFilter \(p. 25\)](#) object

Required: Yes

locale (p. 3)

The locale (language) to return information in. English (en) is the default and the only supported value at this time.

Type: String

Length Constraints: Minimum length of 2. Maximum length of 256.

Required: No

maxResults (p. 3)

The maximum number of items to return in one batch, between 10 and 100, inclusive.

Type: Integer

Valid Range: Minimum value of 10. Maximum value of 100.

Required: No

nextToken (p. 3)

If the results of a search are large, only a portion of the results are returned, and a `nextToken` pagination token is returned in the response. To retrieve the next batch of results, reissue the search request and include the returned token. When all results have been returned, the response does not contain a pagination token value.

Type: String

Pattern: `[a-zA-Z0-9=/_.-]{4,512}`

Required: No

Response Syntax

```
{
  "entities": [
    {
      "awsAccountId": "string",
      "entityArn": "string",
      "entityValue": "string",
      "eventArn": "string",
      "lastUpdatedTime": number,
      "statusCode": "string",
      "tags": {
        "string" : "string"
      }
    }
  ],
  "nextToken": "string"
}
```

Response Elements

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

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

entities (p. 4)

The entities that match the filter criteria.

Type: Array of [AffectedEntity \(p. 21\)](#) objects

nextToken (p. 4)

If the results of a search are large, only a portion of the results are returned, and a `nextToken` pagination token is returned in the response. To retrieve the next batch of results, reissue the search request and include the returned token. When all results have been returned, the response does not contain a pagination token value.

Type: String

Pattern: `[a-zA-Z0-9=/_.-]{4,512}`

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 40\)](#).

InvalidPaginationToken

The specified pagination token (`nextToken`) is not valid.

HTTP Status Code: 400

UnsupportedLocale

The specified locale is not supported.

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](#)

DescribeEntityAggregates

Returns the number of entities that are affected by each of the specified events. If no events are specified, the counts of all affected entities are returned.

Request Syntax

```
{  
  "eventArns": [ "string" ]  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 38).

The request accepts the following data in JSON format.

[eventArns](#) (p. 6)

A list of event ARNs (unique identifiers). For example: "arn:aws:health:us-east-1::event/AWS_EC2_MAINTENANCE_5331", "arn:aws:health:us-west-1::event/AWS_EBS_LOST_VOLUME_xyz"

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 50 items.

Length Constraints: Maximum length of 1600.

Pattern: arn:aws:health:[^:]*:[^:]*:event/[\w-]+

Required: No

Response Syntax

```
{  
  "entityAggregates": [  
    {  
      "count": number,  
      "eventArn": "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.

[entityAggregates](#) (p. 6)

The number of entities that are affected by each of the specified events.

Type: Array of [EntityAggregate](#) (p. 24) objects

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 40\)](#).

See Also

For more information about using this API in one of the language-specific AWS 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](#)

DescribeEventAggregates

Returns the number of events of each event type (issue, scheduled change, and account notification). If no filter is specified, the counts of all events in each category are returned.

Request Syntax

```
{
  "aggregateField": "string",
  "filter": {
    "availabilityZones": [ "string" ],
    "endTimes": [
      {
        "from": number,
        "to": number
      }
    ],
    "entityArns": [ "string" ],
    "entityValues": [ "string" ],
    "eventArns": [ "string" ],
    "eventStatusCodes": [ "string" ],
    "eventTypeCategories": [ "string" ],
    "eventTypeCodes": [ "string" ],
    "lastUpdatedTimes": [
      {
        "from": number,
        "to": number
      }
    ],
    "regions": [ "string" ],
    "services": [ "string" ],
    "startTimes": [
      {
        "from": number,
        "to": number
      }
    ],
    "tags": [
      {
        "string" : "string"
      }
    ]
  },
  "maxResults": number,
  "nextToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 38\)](#).

The request accepts the following data in JSON format.

aggregateField (p. 8)

The only currently supported value is `eventTypeCategory`.

Type: String

Valid Values: `eventTypeCategory`

Required: Yes

filter (p. 8)

Values to narrow the results returned.

Type: [EventFilter \(p. 33\)](#) object

Required: No

maxResults (p. 8)

The maximum number of items to return in one batch, between 10 and 100, inclusive.

Type: Integer

Valid Range: Minimum value of 10. Maximum value of 100.

Required: No

nextToken (p. 8)

If the results of a search are large, only a portion of the results are returned, and a `nextToken` pagination token is returned in the response. To retrieve the next batch of results, reissue the search request and include the returned token. When all results have been returned, the response does not contain a pagination token value.

Type: String

Pattern: `[a-zA-Z0-9=/_.-]{4,512}`

Required: No

Response Syntax

```
{
  "eventAggregates": [
    {
      "aggregateValue": "string",
      "count": 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.

eventAggregates (p. 9)

The number of events in each category that meet the optional filter criteria.

Type: Array of [EventAggregate \(p. 29\)](#) objects

nextToken (p. 9)

If the results of a search are large, only a portion of the results are returned, and a `nextToken` pagination token is returned in the response. To retrieve the next batch of results, reissue the search

request and include the returned token. When all results have been returned, the response does not contain a pagination token value.

Type: String

Pattern: `[a-zA-Z0-9=/_.-]{4,512}`

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 40\)](#).

InvalidPaginationToken

The specified pagination token (`nextToken`) is not valid.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V2](#)

DescribeEventDetails

Returns detailed information about one or more specified events. Information includes standard event data (region, service, etc., as returned by [DescribeEvents](#) (p. 14)), a detailed event description, and possible additional metadata that depends upon the nature of the event. Affected entities are not included; to retrieve those, use the [DescribeAffectedEntities](#) (p. 3) operation.

If a specified event cannot be retrieved, an error message is returned for that event.

Request Syntax

```
{
  "eventArns": [ "string" ],
  "locale": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 38).

The request accepts the following data in JSON format.

[eventArns](#) (p. 11)

A list of event ARNs (unique identifiers). For example: "arn:aws:health:us-east-1::event/AWS_EC2_MAINTENANCE_5331", "arn:aws:health:us-west-1::event/AWS_EBS_LOST_VOLUME_xyz"

Type: Array of strings

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

Length Constraints: Maximum length of 1600.

Pattern: arn:aws:health:[^:]*:[^:]*:event/[\w-]+

Required: Yes

[locale](#) (p. 11)

The locale (language) to return information in. English (en) is the default and the only supported value at this time.

Type: String

Length Constraints: Minimum length of 2. Maximum length of 256.

Required: No

Response Syntax

```
{
  "failedSet": [
    {
      "errorMessage": "string",
      "eventName": "string",
      "eventArn": "string"
    }
  ]
}
```

```

    }
  ],
  "successfulSet": [
    {
      "event": {
        "arn": "string",
        "availabilityZone": "string",
        "endTime": number,
        "eventTypeCategory": "string",
        "eventTypeCode": "string",
        "lastUpdatedTime": number,
        "region": "string",
        "service": "string",
        "startTime": number,
        "statusCode": "string"
      },
      "eventDescription": {
        "latestDescription": "string"
      },
      "eventMetadata": {
        "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.

failedSet (p. 11)

Error messages for any events that could not be retrieved.

Type: Array of [EventDetailsErrorItem \(p. 32\)](#) objects

successfulSet (p. 11)

Information about the events that could be retrieved.

Type: Array of [EventDetails \(p. 31\)](#) objects

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 40\)](#).

UnsupportedLocale

The specified locale is not supported.

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](#)

DescribeEvents

Returns information about events that meet the specified filter criteria. Events are returned in a summary form and do not include the detailed description, any additional metadata that depends on the event type, or any affected resources. To retrieve that information, use the [DescribeEventDetails \(p. 11\)](#) and [DescribeAffectedEntities \(p. 3\)](#) operations.

If no filter criteria are specified, all events are returned. Results are sorted by `lastModifiedTime`, starting with the most recent.

Request Syntax

```
{
  "filter": {
    "availabilityZones": [ "string" ],
    "endTimes": [
      {
        "from": number,
        "to": number
      }
    ],
    "entityArns": [ "string" ],
    "entityValues": [ "string" ],
    "eventArns": [ "string" ],
    "eventStatusCodes": [ "string" ],
    "eventTypeCategories": [ "string" ],
    "eventTypeCodes": [ "string" ],
    "lastUpdatedTimes": [
      {
        "from": number,
        "to": number
      }
    ],
    "regions": [ "string" ],
    "services": [ "string" ],
    "startTimes": [
      {
        "from": number,
        "to": number
      }
    ],
    "tags": [
      {
        "string" : "string"
      }
    ]
  },
  "locale": "string",
  "maxResults": number,
  "nextToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 38\)](#).

The request accepts the following data in JSON format.

filter (p. 14)

Values to narrow the results returned.

Type: [EventFilter \(p. 33\)](#) object

Required: No

locale (p. 14)

The locale (language) to return information in. English (en) is the default and the only supported value at this time.

Type: String

Length Constraints: Minimum length of 2. Maximum length of 256.

Required: No

maxResults (p. 14)

The maximum number of items to return in one batch, between 10 and 100, inclusive.

Type: Integer

Valid Range: Minimum value of 10. Maximum value of 100.

Required: No

nextToken (p. 14)

If the results of a search are large, only a portion of the results are returned, and a `nextToken` pagination token is returned in the response. To retrieve the next batch of results, reissue the search request and include the returned token. When all results have been returned, the response does not contain a pagination token value.

Type: String

Pattern: `[a-zA-Z0-9=/_.-]{4,512}`

Required: No

Response Syntax

```
{
  "events": [
    {
      "arn": "string",
      "availabilityZone": "string",
      "endTime": number,
      "eventTypeCategory": "string",
      "eventTypeCode": "string",
      "lastUpdatedTime": number,
      "region": "string",
      "service": "string",
      "startTime": number,
      "statusCode": "string"
    }
  ],
  "nextToken": "string"
}
```

Response Elements

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

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

events (p. 15)

The events that match the specified filter criteria.

Type: Array of [Event](#) (p. 27) objects

nextToken (p. 15)

If the results of a search are large, only a portion of the results are returned, and a `nextToken` pagination token is returned in the response. To retrieve the next batch of results, reissue the search request and include the returned token. When all results have been returned, the response does not contain a pagination token value.

Type: String

Pattern: `[a-zA-Z0-9=/_.-]{4,512}`

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 40).

InvalidPaginationToken

The specified pagination token (`nextToken`) is not valid.

HTTP Status Code: 400

UnsupportedLocale

The specified locale is not supported.

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](#)

DescribeEventTypes

Returns the event types that meet the specified filter criteria. If no filter criteria are specified, all event types are returned, in no particular order.

Request Syntax

```
{
  "filter": {
    "eventTypeCategories": [ "string" ],
    "eventTypeCodes": [ "string" ],
    "services": [ "string" ]
  },
  "locale": "string",
  "maxResults": number,
  "nextToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 38).

The request accepts the following data in JSON format.

filter (p. 17)

Values to narrow the results returned.

Type: [EventTypeFilter](#) (p. 37) object

Required: No

locale (p. 17)

The locale (language) to return information in. English (en) is the default and the only supported value at this time.

Type: String

Length Constraints: Minimum length of 2. Maximum length of 256.

Required: No

maxResults (p. 17)

The maximum number of items to return in one batch, between 10 and 100, inclusive.

Type: Integer

Valid Range: Minimum value of 10. Maximum value of 100.

Required: No

nextToken (p. 17)

If the results of a search are large, only a portion of the results are returned, and a `nextToken` pagination token is returned in the response. To retrieve the next batch of results, reissue the search request and include the returned token. When all results have been returned, the response does not contain a pagination token value.

Type: String

Pattern: [a-zA-Z0-9=/_.-]{4,512}

Required: No

Response Syntax

```
{
  "eventTypes": [
    {
      "category": "string",
      "code": "string",
      "service": "string"
    }
  ],
  "nextToken": "string"
}
```

Response Elements

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

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

eventTypes (p. 18)

A list of event types that match the filter criteria. Event types have a category (issue, accountNotification, or scheduledChange), a service (for example, EC2, RDS, DATAPIPELINE, BILLING), and a code (in the format `AWS_SERVICE_DESCRIPTION` ; for example, `AWS_EC2_SYSTEM_MAINTENANCE_EVENT`).

Type: Array of [EventType](#) (p. 36) objects

nextToken (p. 18)

If the results of a search are large, only a portion of the results are returned, and a `nextToken` pagination token is returned in the response. To retrieve the next batch of results, reissue the search request and include the returned token. When all results have been returned, the response does not contain a pagination token value.

Type: String

Pattern: [a-zA-Z0-9=/_.-]{4,512}

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 40).

InvalidPaginationToken

The specified pagination token (`nextToken`) is not valid.

HTTP Status Code: 400

UnsupportedLocale

The specified locale is not supported.

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 Health APIs and Notifications 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:

- [AffectedEntity](#) (p. 21)
- [DateTimeRange](#) (p. 23)
- [EntityAggregate](#) (p. 24)
- [EntityFilter](#) (p. 25)
- [Event](#) (p. 27)
- [EventAggregate](#) (p. 29)
- [EventDescription](#) (p. 30)
- [EventDetails](#) (p. 31)
- [EventDetailsErrorItem](#) (p. 32)
- [EventFilter](#) (p. 33)
- [EventType](#) (p. 36)
- [EventTypeFilter](#) (p. 37)

AffectedEntity

Information about an entity that is affected by a Health event.

Contents

awsAccountId

The 12-digit AWS account number that contains the affected entity.

Type: String

Pattern: [0-9]{12}

Required: No

entityArn

The unique identifier for the entity. Format: `arn:aws:health:entity-region:aws-account:entity/entity-id` . Example: `arn:aws:health:us-east-1:111222333444:entity/AVh5GGT7u11arKr1sE1K`

Type: String

Length Constraints: Maximum length of 1600.

Required: No

entityValue

The ID of the affected entity.

Type: String

Length Constraints: Maximum length of 256.

Required: No

eventArn

The unique identifier for the event. Format: `arn:aws:health:event-region::event/EVENT_TYPE_PLUS_ID` . Example: `arn:aws:health:us-east-1::event/AWS_EC2_MAINTENANCE_5331`

Type: String

Length Constraints: Maximum length of 1600.

Pattern: `arn:aws:health:[^:]*:[^:]*:event/[\w-]+`

Required: No

lastUpdatedTime

The most recent time that the entity was updated.

Type: Timestamp

Required: No

statusCode

The most recent status of the entity affected by the event. The possible values are `IMPAIRED`, `UNIMPAIRED`, and `UNKNOWN`.

Type: String

Valid Values: `IMPAIRED` | `UNIMPAIRED` | `UNKNOWN`

Required: No

tags

A map of entity tags attached to the affected entity.

Type: String to string map

Length Constraints: Maximum length of 255.

Required: No

See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

DateTimeRange

A range of dates and times that is used by the [EventFilter \(p. 33\)](#) and [EntityFilter \(p. 25\)](#) objects. If `from` is set and `to` is set: match items where the timestamp (`startTime`, `endTime`, or `lastUpdatedTime`) is between `from` and `to` inclusive. If `from` is set and `to` is not set: match items where the timestamp value is equal to or after `from`. If `from` is not set and `to` is set: match items where the timestamp value is equal to or before `to`.

Contents

from

The starting date and time of a time range.

Type: Timestamp

Required: No

to

The ending date and time of a time range.

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](#)

EntityAggregate

The number of entities that are affected by one or more events. Returned by the [DescribeEntityAggregates \(p. 6\)](#) operation.

Contents

count

The number entities that match the criteria for the specified events.

Type: Integer

Required: No

eventArn

The unique identifier for the event. Format: `arn:aws:health:event-region::event/EVENT_TYPE_PLUS_ID` . Example: `arn:aws:health:us-east-1::event/AWS_EC2_MAINTENANCE_5331`

Type: String

Length Constraints: Maximum length of 1600.

Pattern: `arn:aws:health:[^:]*:[^:]*:event/[\w-]+`

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](#)

EntityFilter

The values to use to filter results from the [DescribeAffectedEntities \(p. 3\)](#) operation.

Contents

entityArns

A list of entity ARNs (unique identifiers).

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 100 items.

Length Constraints: Maximum length of 1600.

Required: No

entityValues

A list of IDs for affected entities.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 100 items.

Length Constraints: Maximum length of 256.

Required: No

eventArns

A list of event ARNs (unique identifiers). For example: "arn:aws:health:us-east-1::event/AWS_EC2_MAINTENANCE_5331", "arn:aws:health:us-west-1::event/AWS_EBS_LOST_VOLUME_xyz"

Type: Array of strings

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

Length Constraints: Maximum length of 1600.

Pattern: `arn:aws:health:[^:]*:[^:]*:event/[\\w-]+`

Required: Yes

lastUpdatedTimes

A list of the most recent dates and times that the entity was updated.

Type: Array of [DateTimeRange \(p. 23\)](#) objects

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

Required: No

statusCodes

A list of entity status codes (IMPAIRED, UNIMPAIRED, OF UNKNOWN).

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 3 items.

Valid Values: `IMPAIRED` | `UNIMPAIRED` | `UNKNOWN`

Required: No

tags

A map of entity tags attached to the affected entity.

Type: Array of string to string maps

Array Members: Maximum number of 50 items.

Length Constraints: Maximum length of 255.

Required: No

See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

Event

Summary information about an event, returned by the [DescribeEvents \(p. 14\)](#) operation. The [DescribeEventDetails \(p. 11\)](#) operation also returns this information, as well as the [EventDescription \(p. 30\)](#) and additional event metadata.

Contents

arn

The unique identifier for the event. Format: `arn:aws:health:event-region::event/EVENT_TYPE_PLUS_ID` . Example: `arn:aws:health:us-east-1::event/AWS_EC2_MAINTENANCE_5331`

Type: String

Length Constraints: Maximum length of 1600.

Pattern: `arn:aws:health:[^:]*:[^:]*:event/[\w-]+`

Required: No

availabilityZone

The AWS Availability Zone of the event. For example, us-east-1a.

Type: String

Pattern: `[a-z]{2}\-[0-9a-z\-\]{4,16}`

Required: No

endTime

The date and time that the event ended.

Type: Timestamp

Required: No

eventTypeCategory

The

Type: String

Length Constraints: Minimum length of 3. Maximum length of 255.

Valid Values: `issue | accountNotification | scheduledChange`

Required: No

eventTypeCode

The unique identifier for the event type. The format is `AWS_SERVICE_DESCRIPTION` ; for example, `AWS_EC2_SYSTEM_MAINTENANCE_EVENT`.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 100.

Required: No

lastUpdatedTime

The most recent date and time that the event was updated.

Type: Timestamp

Required: No

region

The AWS region name of the event.

Type: String

Pattern: [^:/]{2,25}

Required: No

service

The AWS service that is affected by the event. For example, `EC2`, `RDS`.

Type: String

Length Constraints: Minimum length of 2. Maximum length of 30.

Required: No

startTime

The date and time that the event began.

Type: Timestamp

Required: No

statusCode

The most recent status of the event. Possible values are `open`, `closed`, and `upcoming`.

Type: String

Valid Values: `open` | `closed` | `upcoming`

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](#)

EventAggregate

The number of events of each issue type. Returned by the [DescribeEventAggregates \(p. 8\)](#) operation.

Contents

aggregateValue

The issue type for the associated count.

Type: String

Required: No

count

The number of events of the associated issue type.

Type: Integer

Required: No

See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

EventDescription

The detailed description of the event. Included in the information returned by the [DescribeEventDetails \(p. 11\)](#) operation.

Contents

latestDescription

The most recent description of the event.

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](#)

EventDetails

Detailed information about an event. A combination of an [Event \(p. 27\)](#) object, an [EventDescription \(p. 30\)](#) object, and additional metadata about the event. Returned by the [DescribeEventDetails \(p. 11\)](#) operation.

Contents

event

Summary information about the event.

Type: [Event \(p. 27\)](#) object

Required: No

eventDescription

The most recent description of the event.

Type: [EventDescription \(p. 30\)](#) object

Required: No

eventMetadata

Additional metadata about the event.

Type: String to string map

Length Constraints: Maximum length of 10240.

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](#)

EventDetailsErrorItem

Error information returned when a [DescribeEventDetails](#) (p. 11) operation cannot find a specified event.

Contents

errorMessage

A message that describes the error.

Type: String

Required: No

errorName

The name of the error.

Type: String

Required: No

eventArn

The unique identifier for the event. Format: `arn:aws:health:event-region::event/EVENT_TYPE_PLUS_ID` . Example: `arn:aws:health:us-east-1::event/AWS_EC2_MAINTENANCE_5331`

Type: String

Length Constraints: Maximum length of 1600.

Pattern: `arn:aws:health:[^:]*:[^:]*:event/[\w-]+`

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](#)

EventFilter

The values to use to filter results from the [DescribeEvents \(p. 14\)](#) and [DescribeEventAggregates \(p. 8\)](#) operations.

Contents

availabilityZones

A list of AWS availability zones.

Type: Array of strings

Pattern: `[a-z]{2}\-[0-9a-z\-\]{4,16}`

Required: No

endTimes

A list of dates and times that the event ended.

Type: Array of [DateTimeRange \(p. 23\)](#) objects

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

Required: No

entityArns

A list of entity ARNs (unique identifiers).

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 100 items.

Length Constraints: Maximum length of 1600.

Required: No

entityValues

A list of entity identifiers, such as EC2 instance IDs (`i-34ab692e`) or EBS volumes (`vol-426ab23e`).

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 100 items.

Length Constraints: Maximum length of 256.

Required: No

eventArns

A list of event ARNs (unique identifiers). For example: `"arn:aws:health:us-east-1::event/AWS_EC2_MAINTENANCE_5331"`, `"arn:aws:health:us-west-1::event/AWS_EBS_LOST_VOLUME_xyz"`

Type: Array of strings

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

Length Constraints: Maximum length of 1600.

Pattern: `arn:aws:health:[^:]*:[^:]*:event/[\\w-]+`

Required: No

eventStatusCodes

A list of event status codes.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 6 items.

Valid Values: `open` | `closed` | `upcoming`

Required: No

eventTypeCategories

A list of event type category codes (`issue`, `scheduledChange`, or `accountNotification`).

Type: Array of strings

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

Length Constraints: Minimum length of 3. Maximum length of 255.

Valid Values: `issue` | `accountNotification` | `scheduledChange`

Required: No

eventTypeCodes

A list of unique identifiers for event types. For example,
`"AWS_EC2_SYSTEM_MAINTENANCE_EVENT"`, `"AWS_RDS_MAINTENANCE_SCHEDULED"`

Type: Array of strings

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

Length Constraints: Minimum length of 3. Maximum length of 100.

Required: No

lastUpdatedTimes

A list of dates and times that the event was last updated.

Type: Array of [DateTimeRange \(p. 23\)](#) objects

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

Required: No

regions

A list of AWS regions.

Type: Array of strings

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

Pattern: `[^:/]{2,25}`

Required: No

services

The AWS services associated with the event. For example, `EC2`, `RDS`.

Type: Array of strings

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

Length Constraints: Minimum length of 2. Maximum length of 30.

Required: No

startTimes

A list of dates and times that the event began.

Type: Array of [DateTimeRange \(p. 23\)](#) objects

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

Required: No

tags

A map of entity tags attached to the affected entity.

Type: Array of string to string maps

Array Members: Maximum number of 50 items.

Length Constraints: Maximum length of 255.

Required: No

See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

EventType

Metadata about a type of event that is reported by AWS Health. Data consists of the category (for example, `issue`), the service (for example, `EC2`), and the event type code (for example, `AWS_EC2_SYSTEM_MAINTENANCE_EVENT`).

Contents

category

A list of event type category codes (`issue`, `scheduledChange`, or `accountNotification`).

Type: String

Length Constraints: Minimum length of 3. Maximum length of 255.

Valid Values: `issue` | `accountNotification` | `scheduledChange`

Required: No

code

The unique identifier for the event type. The format is `AWS_SERVICE_DESCRIPTION` ; for example, `AWS_EC2_SYSTEM_MAINTENANCE_EVENT`.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 100.

Required: No

service

The AWS service that is affected by the event. For example, `EC2`, `RDS`.

Type: String

Length Constraints: Minimum length of 2. Maximum length of 30.

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](#)

EventTypeFilter

The values to use to filter results from the [DescribeEventTypes](#) (p. 17) operation.

Contents

eventTypeCategories

A list of event type category codes (`issue`, `scheduledChange`, or `accountNotification`).

Type: Array of strings

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

Length Constraints: Minimum length of 3. Maximum length of 255.

Valid Values: `issue` | `accountNotification` | `scheduledChange`

Required: No

eventTypeCodes

A list of event type codes.

Type: Array of strings

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

Length Constraints: Minimum length of 3. Maximum length of 100.

Required: No

services

The AWS services associated with the event. For example, `EC2`, `RDS`.

Type: Array of strings

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

Length Constraints: Minimum length of 2. Maximum length of 30.

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