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](https://docs.aws.amazon.com/general/latest/gr/signaturev4.html).

See the [AWS Health User Guide](https://docs.aws.amazon.com/awshealth/latest/ug/) 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

```json
{
    "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


Required: No
maxResults (p. 3)

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

Type: Integer


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/[^-]+

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.
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


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/[^-]+`

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


Required: No

Response Syntax

```
{
  "failedSet": [
    {
      "errorMessage": "string",
      "eventArns": [ "string" ],
      "locale": "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
Required: No
maxResults (p. 14)
The maximum number of items to return in one batch, between 10 and 100, inclusive.
Type: Integer
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

```json
{
   "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

```json
{
    "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


Required: No

**maxResults (p. 17)**

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

Type: Integer


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.
Response Syntax

```json
{
  "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

deliveryArn


Type: String

Length Constraints: Maximum length of 1600.

Required: No

deliveryValue

The ID of the affected entity.

Type: String

Length Constraints: Maximum length of 256.

Required: No

deliveryArn


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

**Key Length Constraints**: Maximum length of 127.

**Value 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


Type: String

Length Constraints: Maximum length of 1600.

Pattern: arn:aws:health:[^:*[^*[^*[^*[^*[^*:event/[^-]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]}
EntityFilter

The values to use to filter results from the DescribeAffectedEntities (p. 3) operation.

Contents

datatype 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

datatype 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

datatype 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/[^-]+

Required: Yes

datatype 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

datatype statusCodes

A list of entity status codes (IMPAIRED, UNIMPAIRED, or 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.

Key Length Constraints: Maximum length of 127.

Value 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**


Type: String

Length Constraints: Maximum length of 1600.

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

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


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


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


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

Value 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 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


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

dentimes

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

dentityArns

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

dentityValues

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

deventArns

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.  
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.  
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.


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.

Key Length Constraints: Maximum length of 127.

Value 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


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


Required: No

*service*

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

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
EventTypeNameFilter

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.


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.


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.


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