
Amazon EventBridge

API Reference

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Amazon EventBridge: API Reference

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Table of Contents

Amazon EventBridge API Reference	1
Actions	2
ActivateEventSource	4
Request Syntax	4
Request Parameters	4
Response Elements	4
Errors	4
See Also	5
CancelReplay	6
Request Syntax	6
Request Parameters	6
Response Syntax	6
Response Elements	6
Errors	7
See Also	7
CreateApiDestination	9
Request Syntax	9
Request Parameters	9
Response Syntax	10
Response Elements	10
Errors	11
See Also	11
CreateArchive	12
Request Syntax	12
Request Parameters	12
Response Syntax	13
Response Elements	13
Errors	14
See Also	14
CreateConnection	15
Request Syntax	15
Request Parameters	16
Response Syntax	17
Response Elements	17
Errors	17
See Also	18
CreateEventBus	19
Request Syntax	19
Request Parameters	19
Response Syntax	20
Response Elements	20
Errors	20
See Also	21
CreatePartnerEventSource	22
Request Syntax	22
Request Parameters	22
Response Syntax	23
Response Elements	23
Errors	23
See Also	24
DeactivateEventSource	25
Request Syntax	25
Request Parameters	25
Response Elements	25

Errors	25
See Also	26
DeauthorizeConnection	27
Request Syntax	27
Request Parameters	27
Response Syntax	27
Response Elements	27
Errors	28
See Also	28
DeleteApiDestination	30
Request Syntax	30
Request Parameters	30
Response Elements	30
Errors	30
See Also	31
DeleteArchive	32
Request Syntax	32
Request Parameters	32
Response Elements	32
Errors	32
See Also	33
DeleteConnection	34
Request Syntax	34
Request Parameters	34
Response Syntax	34
Response Elements	34
Errors	35
See Also	35
DeleteEventBus	37
Request Syntax	37
Request Parameters	37
Response Elements	37
Errors	37
See Also	37
DeletePartnerEventSource	39
Request Syntax	39
Request Parameters	39
Response Elements	39
Errors	39
See Also	40
DeleteRule	41
Request Syntax	41
Request Parameters	41
Response Elements	42
Errors	42
Examples	42
See Also	43
DescribeApiDestination	44
Request Syntax	44
Request Parameters	44
Response Syntax	44
Response Elements	44
Errors	46
See Also	46
DescribeArchive	47
Request Syntax	47
Request Parameters	47

Response Syntax	47
Response Elements	47
Errors	49
See Also	49
DescribeConnection	50
Request Syntax	50
Request Parameters	50
Response Syntax	50
Response Elements	51
Errors	53
See Also	53
DescribeEventBus	54
Request Syntax	54
Request Parameters	54
Response Syntax	54
Response Elements	54
Errors	55
Examples	55
See Also	56
DescribeEventSource	57
Request Syntax	57
Request Parameters	57
Response Syntax	57
Response Elements	57
Errors	58
See Also	58
DescribePartnerEventSource	60
Request Syntax	60
Request Parameters	60
Response Syntax	60
Response Elements	60
Errors	61
See Also	61
DescribeReplay	62
Request Syntax	62
Request Parameters	62
Response Syntax	62
Response Elements	63
Errors	64
See Also	64
DescribeRule	66
Request Syntax	66
Request Parameters	66
Response Syntax	66
Response Elements	67
Errors	68
Examples	68
See Also	69
DisableRule	70
Request Syntax	70
Request Parameters	70
Response Elements	70
Errors	70
Examples	71
See Also	72
EnableRule	73
Request Syntax	73

Request Parameters	73
Response Elements	73
Errors	73
Examples	74
See Also	75
ListApiDestinations	76
Request Syntax	76
Request Parameters	76
Response Syntax	77
Response Elements	77
Errors	77
See Also	77
ListArchives	79
Request Syntax	79
Request Parameters	79
Response Syntax	80
Response Elements	80
Errors	80
See Also	81
ListConnections	82
Request Syntax	82
Request Parameters	82
Response Syntax	83
Response Elements	83
Errors	83
See Also	83
ListEventBuses	85
Request Syntax	85
Request Parameters	85
Response Syntax	85
Response Elements	86
Errors	86
See Also	86
ListEventSources	87
Request Syntax	87
Request Parameters	87
Response Syntax	87
Response Elements	88
Errors	88
See Also	88
ListPartnerEventSourceAccounts	90
Request Syntax	90
Request Parameters	90
Response Syntax	90
Response Elements	91
Errors	91
See Also	91
ListPartnerEventSources	93
Request Syntax	93
Request Parameters	93
Response Syntax	93
Response Elements	94
Errors	94
See Also	94
ListReplays	96
Request Syntax	96
Request Parameters	96

Response Syntax	97
Response Elements	97
Errors	97
See Also	98
ListRuleNamesByTarget	99
Request Syntax	99
Request Parameters	99
Response Syntax	100
Response Elements	100
Errors	100
Examples	100
See Also	101
ListRules	102
Request Syntax	102
Request Parameters	102
Response Syntax	103
Response Elements	103
Errors	103
Examples	104
See Also	104
ListTagsForResource	106
Request Syntax	106
Request Parameters	106
Response Syntax	106
Response Elements	106
Errors	106
Examples	107
See Also	107
ListTargetsByRule	109
Request Syntax	109
Request Parameters	109
Response Syntax	110
Response Elements	111
Errors	112
Examples	112
See Also	113
PutEvents	114
Request Syntax	114
Request Parameters	114
Response Syntax	114
Response Elements	114
Errors	115
Examples	115
See Also	116
PutPartnerEvents	117
Request Syntax	117
Request Parameters	117
Response Syntax	117
Response Elements	117
Errors	118
See Also	118
PutPermission	119
Request Syntax	119
Request Parameters	119
Response Elements	121
Errors	121
Examples	121

See Also	122
PutRule	123
Request Syntax	123
Request Parameters	124
Response Syntax	125
Response Elements	125
Errors	125
Examples	126
See Also	127
PutTargets	128
Request Syntax	129
Request Parameters	131
Response Syntax	132
Response Elements	132
Errors	132
Examples	133
See Also	140
RemovePermission	141
Request Syntax	141
Request Parameters	141
Response Elements	141
Errors	142
See Also	142
RemoveTargets	143
Request Syntax	143
Request Parameters	143
Response Syntax	144
Response Elements	144
Errors	144
Examples	145
See Also	146
StartReplay	147
Request Syntax	147
Request Parameters	147
Response Syntax	148
Response Elements	148
Errors	149
See Also	149
TagResource	151
Request Syntax	151
Request Parameters	151
Response Elements	151
Errors	152
Examples	152
See Also	153
TestEventPattern	154
Request Syntax	154
Request Parameters	154
Response Syntax	154
Response Elements	155
Errors	155
Examples	155
See Also	156
UntagResource	157
Request Syntax	157
Request Parameters	157
Response Elements	157

Errors	157
Examples	158
See Also	158
UpdateApiDestination	160
Request Syntax	160
Request Parameters	160
Response Syntax	161
Response Elements	161
Errors	162
See Also	162
UpdateArchive	163
Request Syntax	163
Request Parameters	163
Response Syntax	164
Response Elements	164
Errors	164
See Also	165
UpdateConnection	166
Request Syntax	166
Request Parameters	167
Response Syntax	168
Response Elements	168
Errors	168
See Also	169
Data Types	170
ApiDestination	172
Contents	172
See Also	173
Archive	174
Contents	174
See Also	175
AwsVpcConfiguration	176
Contents	176
See Also	176
BatchArrayProperties	177
Contents	177
See Also	177
BatchParameters	178
Contents	178
See Also	178
BatchRetryStrategy	179
Contents	179
See Also	179
CapacityProviderStrategyItem	180
Contents	180
See Also	180
Condition	181
Contents	181
See Also	181
Connection	182
Contents	182
See Also	183
ConnectionApiKeyAuthResponseParameters	184
Contents	184
See Also	184
ConnectionAuthResponseParameters	185
Contents	185

See Also	185
ConnectionBasicAuthResponseParameters	186
Contents	186
See Also	186
ConnectionBodyParameter	187
Contents	187
See Also	187
ConnectionHeaderParameter	188
Contents	188
See Also	188
ConnectionHttpParameters	189
Contents	189
See Also	189
ConnectionOAuthClientResponseParameters	190
Contents	190
See Also	190
ConnectionOAuthResponseParameters	191
Contents	191
See Also	191
ConnectionQueryStringParameter	192
Contents	192
See Also	192
CreateConnectionApiKeyAuthRequestParameters	193
Contents	193
See Also	193
CreateConnectionAuthRequestParameters	194
Contents	194
See Also	194
CreateConnectionBasicAuthRequestParameters	195
Contents	195
See Also	195
CreateConnectionOAuthClientRequestParameters	196
Contents	196
See Also	196
CreateConnectionOAuthRequestParameters	197
Contents	197
See Also	197
DeadLetterConfig	198
Contents	198
See Also	198
EcsParameters	199
Contents	199
See Also	201
EventBus	202
Contents	202
See Also	202
EventSource	203
Contents	203
See Also	204
HttpParameters	205
Contents	205
See Also	205
InputTransformer	207
Contents	207
See Also	208
KinesisParameters	209
Contents	209

See Also	209
NetworkConfiguration	210
Contents	210
See Also	210
PartnerEventSource	211
Contents	211
See Also	211
PartnerEventSourceAccount	212
Contents	212
See Also	212
PlacementConstraint	213
Contents	213
See Also	213
PlacementStrategy	214
Contents	214
See Also	214
PutEventsRequestEntry	215
Contents	215
See Also	216
PutEventsResultEntry	217
Contents	217
See Also	217
PutPartnerEventsRequestEntry	218
Contents	218
See Also	218
PutPartnerEventsResultEntry	220
Contents	220
See Also	220
PutTargetsResultEntry	221
Contents	221
See Also	221
RedshiftDataParameters	222
Contents	222
See Also	223
RemoveTargetsResultEntry	224
Contents	224
See Also	224
Replay	225
Contents	225
See Also	226
ReplayDestination	227
Contents	227
See Also	227
RetryPolicy	228
Contents	228
See Also	228
Rule	229
Contents	229
See Also	230
RunCommandParameters	231
Contents	231
See Also	231
RunCommandTarget	232
Contents	232
See Also	232
SageMakerPipelineParameter	233
Contents	233

See Also	233
SageMakerPipelineParameters	234
Contents	234
See Also	234
SqsParameters	235
Contents	235
See Also	235
Tag	236
Contents	236
See Also	236
Target	237
Contents	237
See Also	239
UpdateConnectionApiKeyAuthRequestParameters	240
Contents	240
See Also	240
UpdateConnectionAuthRequestParameters	241
Contents	241
See Also	241
UpdateConnectionBasicAuthRequestParameters	242
Contents	242
See Also	242
UpdateConnectionOAuthClientRequestParameters	243
Contents	243
See Also	243
UpdateConnectionOAuthRequestParameters	244
Contents	244
See Also	244
Making API Requests	245
EventBridge Endpoints	245
Query Parameters	245
Request Identifiers	245
Query API Authentication	245
Available Libraries	245
Common Parameters	247
Common Errors	249

Amazon EventBridge API Reference

Amazon EventBridge is a serverless event bus service that makes it easy to connect your applications with data from a variety of sources.

EventBridge was formerly known as Amazon CloudWatch Events. EventBridge expands on the capabilities of CloudWatch Events, adding support for processing events from software-as-a-service (SaaS) partner applications and making it easier for you to process events from your own applications. EventBridge starts with the same set of APIs as CloudWatch Events and adds new APIs. EventBridge also offers more functionality both in the API and on the console.

Use the following links to get started using the EventBridge API:

- [Actions \(p. 2\)](#): An alphabetical list of all EventBridge actions
- [Data Types \(p. 170\)](#): An alphabetical list of all EventBridge data types
- [Common Parameters \(p. 247\)](#): Parameters that all Query actions can use
- [Common Errors \(p. 249\)](#): Client and server errors that all actions can return
- [Regions and Endpoints](#): Supported Regions and endpoints for all AWS products

Alternatively, you can use one of the [AWS SDKs](#) to access EventBridge using an API that is tailored to your programming language or platform.

Developers in the AWS developer community also provide their own libraries, which you can find at the following AWS developer centers:

- [Java Developer Center](#)
- [JavaScript Developer Center](#)
- [AWS Mobile Services](#)
- [PHP Developer Center](#)
- [Python Developer Center](#)
- [Ruby Developer Center](#)
- [Windows and .NET Developer Center](#)

Actions

The following actions are supported:

- [ActivateEventSource](#) (p. 4)
- [CancelReplay](#) (p. 6)
- [CreateApiDestination](#) (p. 9)
- [CreateArchive](#) (p. 12)
- [CreateConnection](#) (p. 15)
- [CreateEventBus](#) (p. 19)
- [CreatePartnerEventSource](#) (p. 22)
- [DeactivateEventSource](#) (p. 25)
- [DeauthorizeConnection](#) (p. 27)
- [DeleteApiDestination](#) (p. 30)
- [DeleteArchive](#) (p. 32)
- [DeleteConnection](#) (p. 34)
- [DeleteEventBus](#) (p. 37)
- [DeletePartnerEventSource](#) (p. 39)
- [DeleteRule](#) (p. 41)
- [DescribeApiDestination](#) (p. 44)
- [DescribeArchive](#) (p. 47)
- [DescribeConnection](#) (p. 50)
- [DescribeEventBus](#) (p. 54)
- [DescribeEventSource](#) (p. 57)
- [DescribePartnerEventSource](#) (p. 60)
- [DescribeReplay](#) (p. 62)
- [DescribeRule](#) (p. 66)
- [DisableRule](#) (p. 70)
- [EnableRule](#) (p. 73)
- [ListApiDestinations](#) (p. 76)
- [ListArchives](#) (p. 79)
- [ListConnections](#) (p. 82)
- [ListEventBuses](#) (p. 85)
- [ListEventSources](#) (p. 87)
- [ListPartnerEventSourceAccounts](#) (p. 90)
- [ListPartnerEventSources](#) (p. 93)
- [ListReplays](#) (p. 96)
- [ListRuleNamesByTarget](#) (p. 99)
- [ListRules](#) (p. 102)
- [ListTagsForResource](#) (p. 106)
- [ListTargetsByRule](#) (p. 109)
- [PutEvents](#) (p. 114)
- [PutPartnerEvents](#) (p. 117)
- [PutPermission](#) (p. 119)

- [PutRule](#) (p. 123)
- [PutTargets](#) (p. 128)
- [RemovePermission](#) (p. 141)
- [RemoveTargets](#) (p. 143)
- [StartReplay](#) (p. 147)
- [TagResource](#) (p. 151)
- [TestEventPattern](#) (p. 154)
- [UntagResource](#) (p. 157)
- [UpdateApiDestination](#) (p. 160)
- [UpdateArchive](#) (p. 163)
- [UpdateConnection](#) (p. 166)

ActivateEventSource

Activates a partner event source that has been deactivated. Once activated, your matching event bus will start receiving events from the event source.

Request Syntax

```
{  
  "Name": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 247\)](#).

The request accepts the following data in JSON format.

Name (p. 4)

The name of the partner event source to activate.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `aws\.partner(/[\. \- _A-Za-z0-9]+){2, }`

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 \(p. 249\)](#).

ConcurrentModificationException

There is concurrent modification on a rule, target, archive, or replay.

HTTP Status Code: 400

InternalException

This exception occurs due to unexpected causes.

HTTP Status Code: 500

InvalidStateException

The specified state is not a valid state for an event source.

HTTP Status Code: 400

OperationDisabledException

The operation you are attempting is not available in this region.

HTTP Status Code: 400

ResourceNotFoundException

An entity that you specified does not exist.

HTTP Status Code: 400

See Also

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

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

CancelReplay

Cancels the specified replay.

Request Syntax

```
{  
  "ReplayName": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 247\)](#).

The request accepts the following data in JSON format.

ReplayName (p. 6)

The name of the replay to cancel.

Type: String

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

Pattern: [`\. \- _A-Za-z0-9`]+

Required: Yes

Response Syntax

```
{  
  "ReplayArn": "string",  
  "State": "string",  
  "StateReason": "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.

ReplayArn (p. 6)

The ARN of the replay to cancel.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

Pattern: `^arn:aws([a-z]|\-)*:events:([a-z]|\d|\-)*:([0-9]{12})?:.+\/[\. \- _A-Za-z0-9]+$`

State (p. 6)

The current state of the replay.

Type: String

Valid Values: `STARTING` | `RUNNING` | `CANCELLING` | `COMPLETED` | `CANCELLED` | `FAILED`

StateReason (p. 6)

The reason that the replay is in the current state.

Type: String

Length Constraints: Maximum length of 512.

Pattern: `. *`

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 249\)](#).

ConcurrentModificationException

There is concurrent modification on a rule, target, archive, or replay.

HTTP Status Code: 400

IllegalStateException

An error occurred because a replay can be canceled only when the state is Running or Starting.

HTTP Status Code: 400

InternalException

This exception occurs due to unexpected causes.

HTTP Status Code: 500

ResourceNotFoundException

An entity that you specified does not exist.

HTTP Status Code: 400

See Also

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

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

- [AWS SDK for Ruby V3](#)

CreateApiDestination

Creates an API destination, which is an HTTP invocation endpoint configured as a target for events.

Request Syntax

```
{
  "ConnectionArn": "string",
  "Description": "string",
  "HttpMethod": "string",
  "InvocationEndpoint": "string",
  "InvocationRateLimitPerSecond": number,
  "Name": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 247).

The request accepts the following data in JSON format.

ConnectionArn (p. 9)

The ARN of the connection to use for the API destination. The destination endpoint must support the authorization type specified for the connection.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

Pattern: `^arn:aws([a-z]|\-)*:events:([a-z]|\d|\-)*:([0-9]{12})?:connection\/[\\.\-_A-Za-z0-9]+\.[\\.\-_A-Za-z0-9]+$`

Required: Yes

Description (p. 9)

A description for the API destination to create.

Type: String

Length Constraints: Maximum length of 512.

Pattern: `.*`

Required: No

HttpMethod (p. 9)

The method to use for the request to the HTTP invocation endpoint.

Type: String

Valid Values: POST | GET | HEAD | OPTIONS | PUT | PATCH | DELETE

Required: Yes

InvocationEndpoint (p. 9)

The URL to the HTTP invocation endpoint for the API destination.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `^(%([0-9A-Za-z]{2}|[-()_.!~*';/?:@x26=+$,A-Za-z0-9]))+)([.!' ;/?:,])?$`

Required: Yes

InvocationRateLimitPerSecond (p. 9)

The maximum number of requests per second to send to the HTTP invocation endpoint.

Type: Integer

Valid Range: Minimum value of 1.

Required: No

Name (p. 9)

The name for the API destination to create.

Type: String

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

Pattern: `[\.\-_A-Za-z0-9]+`

Required: Yes

Response Syntax

```
{
  "ApiDestinationArn": "string",
  "ApiDestinationState": "string",
  "CreationTime": number,
  "LastModifiedTime": 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.

ApiDestinationArn (p. 10)

The ARN of the API destination that was created by the request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

Pattern: `^arn:aws([a-z]|\-)*:events:([a-z]|\d|\-)*:([0-9]{12})?:api-destination\[.\.\-_A-Za-z0-9]+\[/\[-A-Za-z0-9]+$`

ApiDestinationState (p. 10)

The state of the API destination that was created by the request.

Type: String

Valid Values: `ACTIVE` | `INACTIVE`

CreationTime (p. 10)

A time stamp indicating the time that the API destination was created.

Type: Timestamp

LastModifiedTime (p. 10)

A time stamp indicating the time that the API destination was last modified.

Type: Timestamp

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 249).

InternalException

This exception occurs due to unexpected causes.

HTTP Status Code: 500

LimitExceededException

The request failed because it attempted to create resource beyond the allowed service quota.

HTTP Status Code: 400

ResourceAlreadyExistsException

The resource you are trying to create already exists.

HTTP Status Code: 400

ResourceNotFoundException

An entity that you specified does not exist.

HTTP Status Code: 400

See Also

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

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

CreateArchive

Creates an archive of events with the specified settings. When you create an archive, incoming events might not immediately start being sent to the archive. Allow a short period of time for changes to take effect. If you do not specify a pattern to filter events sent to the archive, all events are sent to the archive except replayed events. Replayed events are not sent to an archive.

Request Syntax

```
{
  "ArchiveName": "string",
  "Description": "string",
  "EventPattern": "string",
  "EventSourceArn": "string",
  "RetentionDays": number
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 247\)](#).

The request accepts the following data in JSON format.

ArchiveName (p. 12)

The name for the archive to create.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 48.

Pattern: [\ . \ _ _ A - Z a - z 0 - 9] +

Required: Yes

Description (p. 12)

A description for the archive.

Type: String

Length Constraints: Maximum length of 512.

Pattern: . *

Required: No

EventPattern (p. 12)

An event pattern to use to filter events sent to the archive.

Type: String

Required: No

EventSourceArn (p. 12)

The ARN of the event bus that sends events to the archive.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

Required: Yes

RetentionDays (p. 12)

The number of days to retain events for. Default value is 0. If set to 0, events are retained indefinitely

Type: Integer

Valid Range: Minimum value of 0.

Required: No

Response Syntax

```
{
  "ArchiveArn": "string",
  "CreationTime": number,
  "State": "string",
  "StateReason": "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.

ArchiveArn (p. 13)

The ARN of the archive that was created.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

Pattern: `^arn:aws([a-z]|\-)*:events:([a-z]|\d|\-)*:([0-9]{12})?:.+\/.+$`

CreationTime (p. 13)

The time at which the archive was created.

Type: Timestamp

State (p. 13)

The state of the archive that was created.

Type: String

Valid Values: `ENABLED | DISABLED | CREATING | UPDATING | CREATE_FAILED | UPDATE_FAILED`

StateReason (p. 13)

The reason that the archive is in the state.

Type: String

Length Constraints: Maximum length of 512.

Pattern: . *

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 249\)](#).

ConcurrentModificationException

There is concurrent modification on a rule, target, archive, or replay.

HTTP Status Code: 400

InternalException

This exception occurs due to unexpected causes.

HTTP Status Code: 500

InvalidEventPatternException

The event pattern is not valid.

HTTP Status Code: 400

LimitExceededException

The request failed because it attempted to create resource beyond the allowed service quota.

HTTP Status Code: 400

ResourceAlreadyExistsException

The resource you are trying to create already exists.

HTTP Status Code: 400

ResourceNotFoundException

An entity that you specified does not exist.

HTTP Status Code: 400

See Also

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

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

CreateConnection

Creates a connection. A connection defines the authorization type and credentials to use for authorization with an API destination HTTP endpoint.

Request Syntax

```
{
  "AuthorizationType": "string",
  "AuthParameters": {
    "ApiKeyAuthParameters": {
      "ApiKeyName": "string",
      "ApiKeyValue": "string"
    },
    "BasicAuthParameters": {
      "Password": "string",
      "Username": "string"
    },
    "InvocationHttpParameters": {
      "BodyParameters": [
        {
          "IsValueSecret": boolean,
          "Key": "string",
          "Value": "string"
        }
      ],
      "HeaderParameters": [
        {
          "IsValueSecret": boolean,
          "Key": "string",
          "Value": "string"
        }
      ],
      "QueryStringParameters": [
        {
          "IsValueSecret": boolean,
          "Key": "string",
          "Value": "string"
        }
      ]
    },
    "OAuthParameters": {
      "AuthorizationEndpoint": "string",
      "ClientParameters": {
        "ClientID": "string",
        "ClientSecret": "string"
      },
      "HttpMethod": "string",
      "OAuthHttpParameters": {
        "BodyParameters": [
          {
            "IsValueSecret": boolean,
            "Key": "string",
            "Value": "string"
          }
        ],
        "HeaderParameters": [
          {
            "IsValueSecret": boolean,
            "Key": "string",
            "Value": "string"
          }
        ]
      }
    }
  }
}
```

```
    ],
    "QueryStringParameters": [
      {
        "IsValueSecret": boolean,
        "Key": "string",
        "Value": "string"
      }
    ]
  }
},
"Description": "string",
"Name": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 247\)](#).

The request accepts the following data in JSON format.

AuthorizationType (p. 15)

The type of authorization to use for the connection.

Type: String

Valid Values: BASIC | OAUTH_CLIENT_CREDENTIALS | API_KEY

Required: Yes

AuthParameters (p. 15)

A `CreateConnectionAuthRequestParameters` object that contains the authorization parameters to use to authorize with the endpoint.

Type: [CreateConnectionAuthRequestParameters \(p. 194\)](#) object

Required: Yes

Description (p. 15)

A description for the connection to create.

Type: String

Length Constraints: Maximum length of 512.

Pattern: . *

Required: No

Name (p. 15)

The name for the connection to create.

Type: String

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

Pattern: [\ . \ - _ A - Z a - z 0 - 9] +

Required: Yes

Response Syntax

```
{  
  "ConnectionArn": "string",  
  "ConnectionState": "string",  
  "CreationTime": number,  
  "LastModifiedTime": 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.

ConnectionArn (p. 17)

The ARN of the connection that was created by the request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

Pattern: `^arn:aws([a-z]|\-)*:events:([a-z]|\d|\-)*:([0-9]{12})?:connection\/[\.\-_A-Za-z0-9]+\.[\.\-_A-Za-z0-9]+$`

ConnectionState (p. 17)

The state of the connection that was created by the request.

Type: String

Valid Values: CREATING | UPDATING | DELETING | AUTHORIZED | DEAUTHORIZED | AUTHORIZING | DEAUTHORIZING

CreationTime (p. 17)

A time stamp for the time that the connection was created.

Type: Timestamp

LastModifiedTime (p. 17)

A time stamp for the time that the connection was last updated.

Type: Timestamp

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 249\)](#).

InternalException

This exception occurs due to unexpected causes.

HTTP Status Code: 500

LimitExceededException

The request failed because it attempted to create resource beyond the allowed service quota.

HTTP Status Code: 400

ResourceAlreadyExistsException

The resource you are trying to create 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 V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

CreateEventBus

Creates a new event bus within your account. This can be a custom event bus which you can use to receive events from your custom applications and services, or it can be a partner event bus which can be matched to a partner event source.

Request Syntax

```
{
  "EventSourceName": "string",
  "Name": "string",
  "Tags": [
    {
      "Key": "string",
      "Value": "string"
    }
  ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 247\)](#).

The request accepts the following data in JSON format.

EventSourceName (p. 19)

If you are creating a partner event bus, this specifies the partner event source that the new event bus will be matched with.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `aws\.partner(/[\. \- _A-Za-z0-9]+){2, }`

Required: No

Name (p. 19)

The name of the new event bus.

Event bus names cannot contain the / character. You can't use the name `default` for a custom event bus, as this name is already used for your account's default event bus.

If this is a partner event bus, the name must exactly match the name of the partner event source that this event bus is matched to.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `[/ \. \- _A-Za-z0-9]+`

Required: Yes

Tags (p. 19)

Tags to associate with the event bus.

Type: Array of [Tag \(p. 236\)](#) objects

Required: No

Response Syntax

```
{  
  "EventBusArn": "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.

EventBusArn (p. 20)

The ARN of the new event bus.

Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 249\)](#).

ConcurrentModificationException

There is concurrent modification on a rule, target, archive, or replay.

HTTP Status Code: 400

InternalException

This exception occurs due to unexpected causes.

HTTP Status Code: 500

InvalidStateException

The specified state is not a valid state for an event source.

HTTP Status Code: 400

LimitExceededException

The request failed because it attempted to create resource beyond the allowed service quota.

HTTP Status Code: 400

OperationDisabledException

The operation you are attempting is not available in this region.

HTTP Status Code: 400

ResourceAlreadyExistsException

The resource you are trying to create already exists.

HTTP Status Code: 400

ResourceNotFoundException

An entity that you specified does not exist.

HTTP Status Code: 400

See Also

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

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

CreatePartnerEventSource

Called by an SaaS partner to create a partner event source. This operation is not used by AWS customers.

Each partner event source can be used by one AWS account to create a matching partner event bus in that AWS account. A SaaS partner must create one partner event source for each AWS account that wants to receive those event types.

A partner event source creates events based on resources within the SaaS partner's service or application.

An AWS account that creates a partner event bus that matches the partner event source can use that event bus to receive events from the partner, and then process them using AWS Events rules and targets.

Partner event source names follow this format:

partner_name/event_namespace/event_name

partner_name is determined during partner registration and identifies the partner to AWS customers. *event_namespace* is determined by the partner and is a way for the partner to categorize their events. *event_name* is determined by the partner, and should uniquely identify an event-generating resource within the partner system. The combination of *event_namespace* and *event_name* should help AWS customers decide whether to create an event bus to receive these events.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 247\)](#).

The request accepts the following data in JSON format.

[Account \(p. 22\)](#)

The AWS account ID that is permitted to create a matching partner event bus for this partner event source.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `\d{12}`

Required: Yes

[Name \(p. 22\)](#)

The name of the partner event source. This name must be unique and must be in the format *partner_name/event_namespace/event_name*. The AWS account that wants to use this partner event source must create a partner event bus with a name that matches the name of the partner event source.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `aws\.partner(/[\.\\-_A-Za-z0-9]{2,}`

Required: Yes

Response Syntax

```
{  
  "EventSourceArn": "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.

EventSourceArn (p. 23)

The ARN of the partner event source.

Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 249\)](#).

ConcurrentModificationException

There is concurrent modification on a rule, target, archive, or replay.

HTTP Status Code: 400

InternalException

This exception occurs due to unexpected causes.

HTTP Status Code: 500

LimitExceededException

The request failed because it attempted to create resource beyond the allowed service quota.

HTTP Status Code: 400

OperationDisabledException

The operation you are attempting is not available in this region.

HTTP Status Code: 400

ResourceAlreadyExistsException

The resource you are trying to create 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 V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

DeactivateEventSource

You can use this operation to temporarily stop receiving events from the specified partner event source. The matching event bus is not deleted.

When you deactivate a partner event source, the source goes into PENDING state. If it remains in PENDING state for more than two weeks, it is deleted.

To activate a deactivated partner event source, use [ActivateEventSource](#).

Request Syntax

```
{  
  "Name": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 247).

The request accepts the following data in JSON format.

Name (p. 25)

The name of the partner event source to deactivate.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `aws\.partner(/[\.\\-_A-Za-z0-9]{2,}`

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. 249).

ConcurrentModificationException

There is concurrent modification on a rule, target, archive, or replay.

HTTP Status Code: 400

InternalException

This exception occurs due to unexpected causes.

HTTP Status Code: 500

InvalidStateException

The specified state is not a valid state for an event source.

HTTP Status Code: 400

OperationDisabledException

The operation you are attempting is not available in this region.

HTTP Status Code: 400

ResourceNotFoundException

An entity that you specified does not exist.

HTTP Status Code: 400

See Also

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

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

DeauthorizeConnection

Removes all authorization parameters from the connection. This lets you remove the secret from the connection so you can reuse it without having to create a new connection.

Request Syntax

```
{  
  "Name": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 247\)](#).

The request accepts the following data in JSON format.

Name (p. 27)

The name of the connection to remove authorization from.

Type: String

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

Pattern: [\. \- _A-Za-z0-9]+

Required: Yes

Response Syntax

```
{  
  "ConnectionArn": "string",  
  "ConnectionState": "string",  
  "CreationTime": number,  
  "LastAuthorizedTime": number,  
  "LastModifiedTime": 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.

ConnectionArn (p. 27)

The ARN of the connection that authorization was removed from.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

Pattern: ^arn:aws([a-z]|\-)*:events:([a-z]|\d|\-)*:([0-9]{12})?:connection\/
[\.\-_A-Za-z0-9]+\.[\/[\-A-Za-z0-9]]+\$

ConnectionState (p. 27)

The state of the connection.

Type: String

Valid Values: CREATING | UPDATING | DELETING | AUTHORIZED | DEAUTHORIZED |
AUTHORIZING | DEAUTHORIZING

CreationTime (p. 27)

A time stamp for the time that the connection was created.

Type: Timestamp

LastAuthorizedTime (p. 27)

A time stamp for the time that the connection was last authorized.

Type: Timestamp

LastModifiedTime (p. 27)

A time stamp for the time that the connection was last updated.

Type: Timestamp

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 249\)](#).

ConcurrentModificationException

There is concurrent modification on a rule, target, archive, or replay.

HTTP Status Code: 400

InternalException

This exception occurs due to unexpected causes.

HTTP Status Code: 500

ResourceNotFoundException

An entity that you specified does not exist.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)

- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

DeleteApiDestination

Deletes the specified API destination.

Request Syntax

```
{  
  "Name": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 247\)](#).

The request accepts the following data in JSON format.

Name (p. 30)

The name of the destination to delete.

Type: String

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

Pattern: [\ . \ - _ A - Z a - z 0 - 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 \(p. 249\)](#).

ConcurrentModificationException

There is concurrent modification on a rule, target, archive, or replay.

HTTP Status Code: 400

InternalException

This exception occurs due to unexpected causes.

HTTP Status Code: 500

ResourceNotFoundException

An entity that you specified does not exist.

HTTP Status Code: 400

See Also

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

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

DeleteArchive

Deletes the specified archive.

Request Syntax

```
{  
  "ArchiveName": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 247\)](#).

The request accepts the following data in JSON format.

ArchiveName (p. 32)

The name of the archive to delete.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 48.

Pattern: [\ . \ - _ A - Z a - z 0 - 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 \(p. 249\)](#).

ConcurrentModificationException

There is concurrent modification on a rule, target, archive, or replay.

HTTP Status Code: 400

InternalException

This exception occurs due to unexpected causes.

HTTP Status Code: 500

ResourceNotFoundException

An entity that you specified does not exist.

HTTP Status Code: 400

See Also

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

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

DeleteConnection

Deletes a connection.

Request Syntax

```
{  
  "Name": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 247).

The request accepts the following data in JSON format.

Name (p. 34)

The name of the connection to delete.

Type: String

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

Pattern: [\. \- _A-Za-z0-9]+

Required: Yes

Response Syntax

```
{  
  "ConnectionArn": "string",  
  "ConnectionState": "string",  
  "CreationTime": number,  
  "LastAuthorizedTime": number,  
  "LastModifiedTime": 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.

ConnectionArn (p. 34)

The ARN of the connection that was deleted.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

Pattern: ^arn:aws([a-z]|\-)*:events:([a-z]|\d|\-)*:([0-9]{12})?:connection\/[\. \- _A-Za-z0-9]+\/[\-A-Za-z0-9]+\$/

ConnectionState (p. 34)

The state of the connection before it was deleted.

Type: String

Valid Values: CREATING | UPDATING | DELETING | AUTHORIZED | DEAUTHORIZED | AUTHORIZING | DEAUTHORIZING

CreationTime (p. 34)

A time stamp for the time that the connection was created.

Type: Timestamp

LastAuthorizedTime (p. 34)

A time stamp for the time that the connection was last authorized before it was deleted.

Type: Timestamp

LastModifiedTime (p. 34)

A time stamp for the time that the connection was last modified before it was deleted.

Type: Timestamp

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 249\)](#).

ConcurrentModificationException

There is concurrent modification on a rule, target, archive, or replay.

HTTP Status Code: 400

InternalException

This exception occurs due to unexpected causes.

HTTP Status Code: 500

ResourceNotFoundException

An entity that you specified does not exist.

HTTP Status Code: 400

See Also

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

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

- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

DeleteEventBus

Deletes the specified custom event bus or partner event bus. All rules associated with this event bus need to be deleted. You can't delete your account's default event bus.

Request Syntax

```
{  
  "Name": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 247\)](#).

The request accepts the following data in JSON format.

Name (p. 37)

The name of the event bus to delete.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: [/\ . \ - _ A - Z a - z 0 - 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 \(p. 249\)](#).

ConcurrentModificationException

There is concurrent modification on a rule, target, archive, or replay.

HTTP Status Code: 400

InternalException

This exception occurs due to unexpected causes.

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 V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

DeletePartnerEventSource

This operation is used by SaaS partners to delete a partner event source. This operation is not used by AWS customers.

When you delete an event source, the status of the corresponding partner event bus in the AWS customer account becomes DELETED.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 247).

The request accepts the following data in JSON format.

Account (p. 39)

The AWS account ID of the AWS customer that the event source was created for.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `\d{12}`

Required: Yes

Name (p. 39)

The name of the event source to delete.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `aws\.partner(/[\. \- _A-Za-z0-9]+){2, }`

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. 249).

ConcurrentModificationException

There is concurrent modification on a rule, target, archive, or replay.

HTTP Status Code: 400

InternalException

This exception occurs due to unexpected causes.

HTTP Status Code: 500

OperationDisabledException

The operation you are attempting is not available in this region.

HTTP Status Code: 400

See Also

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

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

DeleteRule

Deletes the specified rule.

Before you can delete the rule, you must remove all targets, using [RemoveTargets](#).

When you delete a rule, incoming events might continue to match to the deleted rule. Allow a short period of time for changes to take effect.

If you call delete rule multiple times for the same rule, all calls will succeed. When you call delete rule for a non-existent custom eventbus, `ResourceNotFoundException` is returned.

Managed rules are rules created and managed by another AWS service on your behalf. These rules are created by those other AWS services to support functionality in those services. You can delete these rules using the `Force` option, but you should do so only if you are sure the other service is not still using that rule.

Request Syntax

```
{  
  "EventBusName": "string",  
  "Force": boolean,  
  "Name": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 247).

The request accepts the following data in JSON format.

EventBusName (p. 41)

The name or ARN of the event bus associated with the rule. If you omit this, the default event bus is used.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

Pattern: `(arn:aws[\w-]*:events:[a-z]{2}-[a-z]+-[\w-]+:[0-9]{12}:event-bus\/)?
[\/\.\-_A-Za-z0-9]+`

Required: No

Force (p. 41)

If this is a managed rule, created by an AWS service on your behalf, you must specify `Force` as `True` to delete the rule. This parameter is ignored for rules that are not managed rules. You can check whether a rule is a managed rule by using `DescribeRule` or `ListRules` and checking the `ManagedBy` field of the response.

Type: Boolean

Required: No

Name (p. 41)

The name of the rule.

Type: String

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

Pattern: [\ . \ - \ _ A - Z a - z 0 - 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 \(p. 249\)](#).

ConcurrentModificationException

There is concurrent modification on a rule, target, archive, or replay.

HTTP Status Code: 400

InternalException

This exception occurs due to unexpected causes.

HTTP Status Code: 500

ManagedRuleException

This rule was created by an AWS service on behalf of your account. It is managed by that service. If you see this error in response to `DeleteRule` or `RemoveTargets`, you can use the `Force` parameter in those calls to delete the rule or remove targets from the rule. You cannot modify these managed rules by using `DisableRule`, `EnableRule`, `PutTargets`, `PutRule`, `TagResource`, or `UntagResource`.

HTTP Status Code: 400

ResourceNotFoundException

An entity that you specified does not exist.

HTTP Status Code: 400

Examples

Deletes a rule named "test"

The following is an example of a `DeleteRule` request.

Sample Request

```
POST / HTTP/1.1
Host: events.<region>.<domain>
x-amz-date: <Date>
Authorization: AWS4-HMAC-SHA256 Credential=<Credential>, SignedHeaders=content-type;date;host;user-agent;x-amz-date;x-amz-target;x-amzn-requestid, Signature=<Signature>
User-Agent: <UserAgentString>
```

```
Content-Type: application/x-amz-json-1.1
Content-Length: <PayloadSizeBytes>
Connection: Keep-Alive
X-Amz-Target: AWSEvents.DeleteRule

{
  "Name": "test"
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: <RequestId>
Content-Type: application/x-amz-json-1.1
Content-Length: <PayloadSizeBytes>
Date: <Date>
```

See Also

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

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

DescribeApiDestination

Retrieves details about an API destination.

Request Syntax

```
{  
  "Name": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 247).

The request accepts the following data in JSON format.

Name (p. 44)

The name of the API destination to retrieve.

Type: String

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

Pattern: [\. _ _A-Za-z0-9]+

Required: Yes

Response Syntax

```
{  
  "ApiDestinationArn": "string",  
  "ApiDestinationState": "string",  
  "ConnectionArn": "string",  
  "CreationTime": number,  
  "Description": "string",  
  "HttpMethod": "string",  
  "InvocationEndpoint": "string",  
  "InvocationRateLimitPerSecond": number,  
  "LastModifiedTime": number,  
  "Name": "string"  
}
```

Response Elements

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

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

ApiDestinationArn (p. 44)

The ARN of the API destination retrieved.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

Pattern: `^arn:aws([a-z]|\-)*:events:([a-z]|\d|\-)*:([0-9]{12})?:api-destination\[\. \- _A-Za-z0-9\]+\[/[\-A-Za-z0-9]+\$`

ApiDestinationState (p. 44)

The state of the API destination retrieved.

Type: String

Valid Values: `ACTIVE` | `INACTIVE`

ConnectionArn (p. 44)

The ARN of the connection specified for the API destination retrieved.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

Pattern: `^arn:aws([a-z]|\-)*:events:([a-z]|\d|\-)*:([0-9]{12})?:connection\[\. \- _A-Za-z0-9\]+\[/[\-A-Za-z0-9]+\$`

CreationTime (p. 44)

A time stamp for the time that the API destination was created.

Type: Timestamp

Description (p. 44)

The description for the API destination retrieved.

Type: String

Length Constraints: Maximum length of 512.

Pattern: `. *`

HttpMethod (p. 44)

The method to use to connect to the HTTP endpoint.

Type: String

Valid Values: `POST` | `GET` | `HEAD` | `OPTIONS` | `PUT` | `PATCH` | `DELETE`

InvocationEndpoint (p. 44)

The URL to use to connect to the HTTP endpoint.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `^((%[0-9A-Fa-f]{2}|[-()_.!~*';/?:@\x26=+$,A-Za-z0-9])+)([.!' ;/?:,])?$`

InvocationRateLimitPerSecond (p. 44)

The maximum number of invocations per second to specified for the API destination. Note that if you set the invocation rate maximum to a value lower the rate necessary to send all events received on to the destination HTTP endpoint, some events may not be delivered within the 24-hour retry window. If you plan to set the rate lower than the rate necessary to deliver all events, consider using a dead-letter queue to catch events that are not delivered within 24 hours.

Type: Integer

Valid Range: Minimum value of 1.

LastModifiedTime (p. 44)

A time stamp for the time that the API destination was last modified.

Type: Timestamp

Name (p. 44)

The name of the API destination retrieved.

Type: String

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

Pattern: [\ . \ - _ A - Z a - z 0 - 9] +

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 249).

InternalException

This exception occurs due to unexpected causes.

HTTP Status Code: 500

ResourceNotFoundException

An entity that you specified does not exist.

HTTP Status Code: 400

See Also

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

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

DescribeArchive

Retrieves details about an archive.

Request Syntax

```
{  
  "ArchiveName": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 247\)](#).

The request accepts the following data in JSON format.

ArchiveName (p. 47)

The name of the archive to retrieve.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 48.

Pattern: [\ . \ - _ A - Z a - z 0 - 9] +

Required: Yes

Response Syntax

```
{  
  "ArchiveArn": "string",  
  "ArchiveName": "string",  
  "CreationTime": number,  
  "Description": "string",  
  "EventCount": number,  
  "EventPattern": "string",  
  "EventSourceArn": "string",  
  "RetentionDays": number,  
  "SizeBytes": number,  
  "State": "string",  
  "StateReason": "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.

ArchiveArn (p. 47)

The ARN of the archive.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

Pattern: `^arn:aws([a-z]|\-)*:events:([a-z]|\d|\-)*:([0-9]{12})?:.+\/.+$`

ArchiveName (p. 47)

The name of the archive.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 48.

Pattern: `[\._\-A-Za-z0-9]+`

CreationTime (p. 47)

The time at which the archive was created.

Type: Timestamp

Description (p. 47)

The description of the archive.

Type: String

Length Constraints: Maximum length of 512.

Pattern: `.*`

EventCount (p. 47)

The number of events in the archive.

Type: Long

EventPattern (p. 47)

The event pattern used to filter events sent to the archive.

Type: String

EventSourceArn (p. 47)

The ARN of the event source associated with the archive.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

RetentionDays (p. 47)

The number of days to retain events for in the archive.

Type: Integer

Valid Range: Minimum value of 0.

SizeBytes (p. 47)

The size of the archive in bytes.

Type: Long

State (p. 47)

The state of the archive.

Type: String

Valid Values: ENABLED | DISABLED | CREATING | UPDATING | CREATE_FAILED | UPDATE_FAILED

StateReason (p. 47)

The reason that the archive is in the state.

Type: String

Length Constraints: Maximum length of 512.

Pattern: . *

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 249\)](#).

InternalException

This exception occurs due to unexpected causes.

HTTP Status Code: 500

ResourceAlreadyExistsException

The resource you are trying to create already exists.

HTTP Status Code: 400

ResourceNotFoundException

An entity that you specified does not exist.

HTTP Status Code: 400

See Also

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

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

DescribeConnection

Retrieves details about a connection.

Request Syntax

```
{  
  "Name": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 247).

The request accepts the following data in JSON format.

Name (p. 50)

The name of the connection to retrieve.

Type: String

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

Pattern: `[\.\-_\A-Za-z0-9]+`

Required: Yes

Response Syntax

```
{  
  "AuthorizationType": "string",  
  "AuthParameters": {  
    "ApiKeyAuthParameters": {  
      "ApiKeyName": "string"  
    },  
    "BasicAuthParameters": {  
      "Username": "string"  
    },  
    "InvocationHttpParameters": {  
      "BodyParameters": [  
        {  
          "IsValueSecret": boolean,  
          "Key": "string",  
          "Value": "string"  
        }  
      ],  
      "HeaderParameters": [  
        {  
          "IsValueSecret": boolean,  
          "Key": "string",  
          "Value": "string"  
        }  
      ],  
      "QueryStringParameters": [  
        {  
          "IsValueSecret": boolean,
```

```

        "Key": "string",
        "Value": "string"
    }
]
},
"OAuthParameters": {
    "AuthorizationEndpoint": "string",
    "ClientParameters": {
        "ClientID": "string"
    },
    "HttpMethod": "string",
    "OAuthHttpParameters": {
        "BodyParameters": [
            {
                "IsValueSecret": boolean,
                "Key": "string",
                "Value": "string"
            }
        ],
        "HeaderParameters": [
            {
                "IsValueSecret": boolean,
                "Key": "string",
                "Value": "string"
            }
        ],
        "QueryStringParameters": [
            {
                "IsValueSecret": boolean,
                "Key": "string",
                "Value": "string"
            }
        ]
    }
}
},
"ConnectionArn": "string",
"ConnectionState": "string",
"CreationTime": number,
"Description": "string",
"LastAuthorizedTime": number,
"LastModifiedTime": number,
"Name": "string",
"SecretArn": "string",
"StateReason": "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.

AuthorizationType (p. 50)

The type of authorization specified for the connection.

Type: String

Valid Values: BASIC | OAUTH_CLIENT_CREDENTIALS | API_KEY

AuthParameters (p. 50)

The parameters to use for authorization for the connection.

Type: [ConnectionAuthResponseParameters](#) (p. 185) object

ConnectionArn (p. 50)

The ARN of the connection retrieved.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

Pattern: `^arn:aws([a-z]|\-)*:events:([a-z]|\d|\-)*:([0-9]{12})?:connection\/[\\.\-_A-Za-z0-9]+\.[\\.\-_A-Za-z0-9]+$`

ConnectionState (p. 50)

The state of the connection retrieved.

Type: String

Valid Values: `CREATING | UPDATING | DELETING | AUTHORIZED | DEAUTHORIZED | AUTHORIZING | DEAUTHORIZING`

CreationTime (p. 50)

A time stamp for the time that the connection was created.

Type: Timestamp

Description (p. 50)

The description for the connection retrieved.

Type: String

Length Constraints: Maximum length of 512.

Pattern: `.*`

LastAuthorizedTime (p. 50)

A time stamp for the time that the connection was last authorized.

Type: Timestamp

LastModifiedTime (p. 50)

A time stamp for the time that the connection was last modified.

Type: Timestamp

Name (p. 50)

The name of the connection retrieved.

Type: String

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

Pattern: `[\\.\-_A-Za-z0-9]+`

SecretArn (p. 50)

The ARN of the secret created from the authorization parameters specified for the connection.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `^arn:aws([a-z]|\-)*:secretsmanager:([a-z]|\d|\-)*:([0-9]{12})?:secret:[\/_+=\.@\-A-Za-z0-9]+$`

StateReason (p. 50)

The reason that the connection is in the current connection state.

Type: String

Length Constraints: Maximum length of 512.

Pattern: `.*`

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 249).

InternalException

This exception occurs due to unexpected causes.

HTTP Status Code: 500

ResourceNotFoundException

An entity that you specified does not exist.

HTTP Status Code: 400

See Also

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

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

DescribeEventBus

Displays details about an event bus in your account. This can include the external AWS accounts that are permitted to write events to your default event bus, and the associated policy. For custom event buses and partner event buses, it displays the name, ARN, policy, state, and creation time.

To enable your account to receive events from other accounts on its default event bus, use [PutPermission](#).

For more information about partner event buses, see [CreateEventBus](#).

Request Syntax

```
{  
  "Name": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 247).

The request accepts the following data in JSON format.

Name (p. 54)

The name or ARN of the event bus to show details for. If you omit this, the default event bus is displayed.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

Pattern: (arn:aws[\w-]*:events:[a-z]{2}-[a-z]+-[\w-]+:[0-9]{12}:event-bus\/)?
[/\._\A-Za-z0-9]+

Required: No

Response Syntax

```
{  
  "Arn": "string",  
  "Name": "string",  
  "Policy": "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.

Arn (p. 54)

The Amazon Resource Name (ARN) of the account permitted to write events to the current account.

Type: String

Name (p. 54)

The name of the event bus. Currently, this is always default.

Type: String

Policy (p. 54)

The policy that enables the external account to send events to your account.

Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 249).

InternalException

This exception occurs due to unexpected causes.

HTTP Status Code: 500

ResourceNotFoundException

An entity that you specified does not exist.

HTTP Status Code: 400

Examples

Example

The following example is run in account 444455556666, which has granted permission to AWS account 111122223333 to send events to 444455556666.

Sample Request

```
POST / HTTP/1.1
Host: events.<region>.<domain>
x-amz-Date: <Date>
Authorization: AWS4-HMAC-SHA256 Credential=<Credential>, SignedHeaders=content-type;date;host;user-agent;x-amz-date;x-amz-target;x-amzn-requestid, Signature=<Signature>
User-Agent: <UserAgentString>
Content-Type: application/x-amz-json-1.1
Content-Length: <PayloadSizeBytes>
Connection: Keep-Alive
X-Amz-Target: AWSEvents.DescribeEventBus
```

Example

This example illustrates one usage of DescribeEventBus.

Sample Response

```
HTTP/1.1 200 OK
```

```
x-amzn-RequestId: <RequestId>
Content-Type: application/x-amz-json-1.1
Content-Length: <PayloadSizeBytes>
Date: <Date>

{
  "Policy":
  {
    "Version": "2012-10-17",
    "Statement": [
      {
        "Sid": "mysid",
        "Effect": "Allow",
        "Principal": {
          "AWS": "arn:aws:iam::111122223333:root"
        },
        "Action": "events:PutEvents",
        "Resource": "arn:aws:events:us-east-1:444455556666:event-bus/default"
      }
    ]
  },
  "Name": "default",
  "Arn": "arn:aws:events:us-east-1:444455556666:event-bus/default"
}
```

See Also

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

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

DescribeEventSource

This operation lists details about a partner event source that is shared with your account.

Request Syntax

```
{
  "Name": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 247).

The request accepts the following data in JSON format.

Name (p. 57)

The name of the partner event source to display the details of.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `aws\.partner([\.\._A-Za-z0-9]+){2,}`

Required: Yes

Response Syntax

```
{
  "Arn": "string",
  "CreatedBy": "string",
  "CreationTime": number,
  "ExpirationTime": number,
  "Name": "string",
  "State": "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.

Arn (p. 57)

The ARN of the partner event source.

Type: String

CreatedBy (p. 57)

The name of the SaaS partner that created the event source.

Type: String

CreationTime (p. 57)

The date and time that the event source was created.

Type: Timestamp

ExpirationTime (p. 57)

The date and time that the event source will expire if you do not create a matching event bus.

Type: Timestamp

Name (p. 57)

The name of the partner event source.

Type: String

State (p. 57)

The state of the event source. If it is **ACTIVE**, you have already created a matching event bus for this event source, and that event bus is active. If it is **PENDING**, either you haven't yet created a matching event bus, or that event bus is deactivated. If it is **DELETED**, you have created a matching event bus, but the event source has since been deleted.

Type: String

Valid Values: **PENDING** | **ACTIVE** | **DELETED**

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 249).

InternalException

This exception occurs due to unexpected causes.

HTTP Status Code: 500

OperationDisabledException

The operation you are attempting is not available in this region.

HTTP Status Code: 400

ResourceNotFoundException

An entity that you specified does not exist.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)

- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

DescribePartnerEventSource

An SaaS partner can use this operation to list details about a partner event source that they have created. AWS customers do not use this operation. Instead, AWS customers can use [DescribeEventSource](#) to see details about a partner event source that is shared with them.

Request Syntax

```
{  
  "Name": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 247).

The request accepts the following data in JSON format.

Name (p. 60)

The name of the event source to display.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `aws\.partner(/[\.\\-_A-Za-z0-9]{2,}`

Required: Yes

Response Syntax

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

Response Elements

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

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

Arn (p. 60)

The ARN of the event source.

Type: String

Name (p. 60)

The name of the event source.

Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 249\)](#).

InternalException

This exception occurs due to unexpected causes.

HTTP Status Code: 500

OperationDisabledException

The operation you are attempting is not available in this region.

HTTP Status Code: 400

ResourceNotFoundException

An entity that you specified does not exist.

HTTP Status Code: 400

See Also

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

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

DescribeReplay

Retrieves details about a replay. Use `DescribeReplay` to determine the progress of a running replay. A replay processes events to replay based on the time in the event, and replays them using 1 minute intervals. If you use `StartReplay` and specify an `EventStartTime` and an `EventEndTime` that covers a 20 minute time range, the events are replayed from the first minute of that 20 minute range first. Then the events from the second minute are replayed. You can use `DescribeReplay` to determine the progress of a replay. The value returned for `EventLastReplayedTime` indicates the time within the specified time range associated with the last event replayed.

Request Syntax

```
{  
  "ReplayName": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 247).

The request accepts the following data in JSON format.

ReplayName (p. 62)

The name of the replay to retrieve.

Type: String

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

Pattern: `[\. \- _A-Za-z0-9]+`

Required: Yes

Response Syntax

```
{  
  "Description": "string",  
  "Destination": {  
    "Arn": "string",  
    "FilterArns": [ "string" ]  
  },  
  "EventEndTime": number,  
  "EventLastReplayedTime": number,  
  "EventSourceArn": "string",  
  "EventStartTime": number,  
  "ReplayArn": "string",  
  "ReplayEndTime": number,  
  "ReplayName": "string",  
  "ReplayStartTime": number,  
  "State": "string",  
  "StateReason": "string"  
}
```

Response Elements

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

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

Description (p. 62)

The description of the replay.

Type: String

Length Constraints: Maximum length of 512.

Pattern: . *

Destination (p. 62)

A `ReplayDestination` object that contains details about the replay.

Type: [ReplayDestination](#) (p. 227) object

EventEndTime (p. 62)

The time stamp for the last event that was replayed from the archive.

Type: Timestamp

EventLastReplayedTime (p. 62)

The time that the event was last replayed.

Type: Timestamp

EventSourceArn (p. 62)

The ARN of the archive events were replayed from.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

EventStartTime (p. 62)

The time stamp of the first event that was last replayed from the archive.

Type: Timestamp

ReplayArn (p. 62)

The ARN of the replay.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

Pattern: ^arn:aws([a-z]|\-)*:events:([a-z]|\d|\-)*:([0-9]{12})?:.+\/[\.\-_A-Za-z0-9]+\$

ReplayEndTime (p. 62)

A time stamp for the time that the replay stopped.

Type: Timestamp

[ReplayName \(p. 62\)](#)

The name of the replay.

Type: String

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

Pattern: [\ . \ - _ A - Z a - z 0 - 9] +

[ReplayStartTime \(p. 62\)](#)

A time stamp for the time that the replay started.

Type: Timestamp

[State \(p. 62\)](#)

The current state of the replay.

Type: String

Valid Values: STARTING | RUNNING | CANCELLING | COMPLETED | CANCELLED | FAILED

[StateReason \(p. 62\)](#)

The reason that the replay is in the current state.

Type: String

Length Constraints: Maximum length of 512.

Pattern: . *

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 249\)](#).

InternalException

This exception occurs due to unexpected causes.

HTTP Status Code: 500

ResourceNotFoundException

An entity that you specified does not exist.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)

- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

DescribeRule

Describes the specified rule.

DescribeRule does not list the targets of a rule. To see the targets associated with a rule, use [ListTargetsByRule](#).

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 247).

The request accepts the following data in JSON format.

EventBusName (p. 66)

The name or ARN of the event bus associated with the rule. If you omit this, the default event bus is used.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

Pattern: (arn:aws[\w-]*:events:[a-z]{2}-[a-z]+-[\w-]+:[0-9]{12}:event-bus\/)?
[\/\.__A-Za-z0-9]+

Required: No

Name (p. 66)

The name of the rule.

Type: String

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

Pattern: [\.__A-Za-z0-9]+

Required: Yes

Response Syntax

```
{  
  "Arn": "string",  
  "CreatedBy": "string",  
  "Description": "string",  
  "EventBusName": "string",  
  "EventPattern": "string",  
  "ManagedBy": "string",  
}
```

```
"Name": "string",  
"RoleArn": "string",  
"ScheduleExpression": "string",  
"State": "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.

Arn (p. 66)

The Amazon Resource Name (ARN) of the rule.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

CreatedBy (p. 66)

The account ID of the user that created the rule. If you use `PutRule` to put a rule on an event bus in another account, the other account is the owner of the rule, and the rule ARN includes the account ID for that account. However, the value for `CreatedBy` is the account ID as the account that created the rule in the other account.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Description (p. 66)

The description of the rule.

Type: String

Length Constraints: Maximum length of 512.

EventBusName (p. 66)

The name of the event bus associated with the rule.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `[/\ . \ - _ A - Z a - z 0 - 9] +`

EventPattern (p. 66)

The event pattern. For more information, see [Events and Event Patterns](#) in the *Amazon EventBridge User Guide*.

Type: String

ManagedBy (p. 66)

If this is a managed rule, created by an AWS service on your behalf, this field displays the principal name of the AWS service that created the rule.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Name (p. 66)

The name of the rule.

Type: String

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

Pattern: [\ . \ - _ A - Z a - z 0 - 9] +

RoleArn (p. 66)

The Amazon Resource Name (ARN) of the IAM role associated with the rule.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

ScheduleExpression (p. 66)

The scheduling expression. For example, "cron(0 20 * * ? *)", "rate(5 minutes)".

Type: String

Length Constraints: Maximum length of 256.

State (p. 66)

Specifies whether the rule is enabled or disabled.

Type: String

Valid Values: `ENABLED` | `DISABLED`

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 249\)](#).

InternalException

This exception occurs due to unexpected causes.

HTTP Status Code: 500

ResourceNotFoundException

An entity that you specified does not exist.

HTTP Status Code: 400

Examples

Describes a rule named "test"

The following is an example of a DescribeRule request and response.

Sample Request

```
POST / HTTP/1.1
Host: events.<region>.<domain>
```



```
x-amz-Date: <Date>
Authorization: AWS4-HMAC-SHA256 Credential=<Credential>, SignedHeaders=content-
type;date;host;user-agent;x-amz-date;x-amz-target;x-amzn-requestid, Signature=<Signature>
User-Agent: <UserAgentString>
Content-Type: application/x-amz-json-1.1
Content-Length: <PayloadSizeBytes>
Connection: Keep-Alive
X-Amz-Target: AWSEvents.DescribeRule

{
  "Name": "test"
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: <RequestId>
Content-Type: application/x-amz-json-1.1
Content-Length: <PayloadSizeBytes>
Date: <Date>

{
  "Name": "test",
  "EventPattern": "{\"source\":[\"aws.autoscaling\"],\"detail-type\":[\"EC2 Instance
Launch Successful\",\"EC2 Instance Terminate Successful\",\"EC2 Instance Launch
Unsuccessful\",\"EC2 Instance Terminate Unsuccessful\"]}\",
  \"State\": \"ENABLED\",
  \"Arn\": \"arn:aws:events:us-east-1:123456789012:rule/test\",
  \"Description\": \"Test rule for Auto Scaling events\"
}
```

See Also

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

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

DisableRule

Disables the specified rule. A disabled rule won't match any events, and won't self-trigger if it has a schedule expression.

When you disable a rule, incoming events might continue to match to the disabled rule. Allow a short period of time for changes to take effect.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 247\)](#).

The request accepts the following data in JSON format.

EventBusName (p. 70)

The name or ARN of the event bus associated with the rule. If you omit this, the default event bus is used.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

Pattern: `(arn:aws[\w-]*:events:[a-z]{2}-[a-z]+-[\w-]+:[0-9]{12}:event-bus\/)?
[\/\._\-_A-Za-z0-9]+`

Required: No

Name (p. 70)

The name of the rule.

Type: String

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

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 \(p. 249\)](#).

ConcurrentModificationException

There is concurrent modification on a rule, target, archive, or replay.

HTTP Status Code: 400

InternalException

This exception occurs due to unexpected causes.

HTTP Status Code: 500

ManagedRuleException

This rule was created by an AWS service on behalf of your account. It is managed by that service. If you see this error in response to `DeleteRule` or `RemoveTargets`, you can use the `Force` parameter in those calls to delete the rule or remove targets from the rule. You cannot modify these managed rules by using `DisableRule`, `EnableRule`, `PutTargets`, `PutRule`, `TagResource`, or `UntagResource`.

HTTP Status Code: 400

ResourceNotFoundException

An entity that you specified does not exist.

HTTP Status Code: 400

Examples

Disables a rule named "test"

The following is an example of a `DisableRule` request.

Sample Request

```
POST / HTTP/1.1
Host: events.<region>.<domain>
x-amz-Date: <Date>
Authorization: AWS4-HMAC-SHA256 Credential=<Credential>, SignedHeaders=content-type;date;host;user-agent;x-amz-date;x-amz-target;x-amzn-requestid, Signature=<Signature>
User-Agent: <UserAgentString>
Content-Type: application/x-amz-json-1.1
Content-Length: <PayloadSizeBytes>
Connection: Keep-Alive
X-Amz-Target: AWSEvents.DisableRule

{
  "Name": "test"
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: <RequestId>
Content-Type: application/x-amz-json-1.1
Content-Length: <PayloadSizeBytes>
Date: <Date>
```

See Also

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

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

EnableRule

Enables the specified rule. If the rule does not exist, the operation fails.

When you enable a rule, incoming events might not immediately start matching to a newly enabled rule. Allow a short period of time for changes to take effect.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 247).

The request accepts the following data in JSON format.

EventBusName (p. 73)

The name or ARN of the event bus associated with the rule. If you omit this, the default event bus is used.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

Pattern: (arn:aws[\w-]*:events:[a-z]{2}-[a-z]+-[\w-]+:[0-9]{12}:event-bus\/)?
[\/\.__A-Za-z0-9]+

Required: No

Name (p. 73)

The name of the rule.

Type: String

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

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. 249).

ConcurrentModificationException

There is concurrent modification on a rule, target, archive, or replay.

HTTP Status Code: 400

InternalException

This exception occurs due to unexpected causes.

HTTP Status Code: 500

ManagedRuleException

This rule was created by an AWS service on behalf of your account. It is managed by that service. If you see this error in response to `DeleteRule` or `RemoveTargets`, you can use the `Force` parameter in those calls to delete the rule or remove targets from the rule. You cannot modify these managed rules by using `DisableRule`, `EnableRule`, `PutTargets`, `PutRule`, `TagResource`, or `UntagResource`.

HTTP Status Code: 400

ResourceNotFoundException

An entity that you specified does not exist.

HTTP Status Code: 400

Examples

Enables a rule named "test"

The following is an example of an `EnableRule` request.

Sample Request

```
POST / HTTP/1.1
Host: events.<region>.<domain>
x-amz-Date: <Date>
Authorization: AWS4-HMAC-SHA256 Credential=<Credential>, SignedHeaders=content-type;date;host;user-agent;x-amz-date;x-amz-target;x-amzn-requestid, Signature=<Signature>
User-Agent: <UserAgentString>
Content-Type: application/x-amz-json-1.1
Content-Length: <PayloadSizeBytes>
Connection: Keep-Alive
X-Amz-Target: AWSEvents.EnableRule

{
  "Name": "test"
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: <RequestId>
Content-Type: application/x-amz-json-1.1
Content-Length: <PayloadSizeBytes>
Date: <Date>
```

See Also

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

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

ListApiDestinations

Retrieves a list of API destination in the account in the current Region.

Request Syntax

```
{  
  "ConnectionArn": "string",  
  "Limit": number,  
  "NamePrefix": "string",  
  "NextToken": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 247\)](#).

The request accepts the following data in JSON format.

ConnectionArn (p. 76)

The ARN of the connection specified for the API destination.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

Pattern: `^arn:aws([a-z]|\-)*:events:([a-z]|\d|\-)*:([0-9]{12})?:connection\[
[\.\-_A-Za-z0-9]+\[/[\-_A-Za-z0-9]+\]$`

Required: No

Limit (p. 76)

The maximum number of API destinations to include in the response.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

NamePrefix (p. 76)

A name prefix to filter results returned. Only API destinations with a name that starts with the prefix are returned.

Type: String

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

Pattern: `[\.\-_A-Za-z0-9]+`

Required: No

NextToken (p. 76)

The token returned by a previous call to retrieve the next set of results.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Required: No

Response Syntax

```
{
  "ApiDestinations": [
    {
      "ApiDestinationArn": "string",
      "ApiDestinationState": "string",
      "ConnectionArn": "string",
      "CreationTime": number,
      "HttpMethod": "string",
      "InvocationEndpoint": "string",
      "InvocationRateLimitPerSecond": number,
      "LastModifiedTime": number,
      "Name": "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.

ApiDestinations (p. 77)

An array of `ApiDestination` objects that include information about an API destination.

Type: Array of [ApiDestination \(p. 172\)](#) objects

NextToken (p. 77)

A token you can use in a subsequent request to retrieve the next set of results.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 249\)](#).

InternalException

This exception occurs due to unexpected causes.

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 V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListArchives

Lists your archives. You can either list all the archives or you can provide a prefix to match to the archive names. Filter parameters are exclusive.

Request Syntax

```
{  
  "EventSourceArn": "string",  
  "Limit": number,  
  "NamePrefix": "string",  
  "NextToken": "string",  
  "State": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 247).

The request accepts the following data in JSON format.

EventSourceArn (p. 79)

The ARN of the event source associated with the archive.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

Required: No

Limit (p. 79)

The maximum number of results to return.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

NamePrefix (p. 79)

A name prefix to filter the archives returned. Only archives with name that match the prefix are returned.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 48.

Pattern: `[\. _ - _A - Z a - z 0 - 9] +`

Required: No

NextToken (p. 79)

The token returned by a previous call to retrieve the next set of results.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Required: No

State (p. 79)

The state of the archive.

Type: String

Valid Values: ENABLED | DISABLED | CREATING | UPDATING | CREATE_FAILED | UPDATE_FAILED

Required: No

Response Syntax

```
{
  "Archives": [
    {
      "ArchiveName": "string",
      "CreationTime": number,
      "EventCount": number,
      "EventSourceArn": "string",
      "RetentionDays": number,
      "SizeBytes": number,
      "State": "string",
      "StateReason": "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.

Archives (p. 80)

An array of Archive objects that include details about an archive.

Type: Array of [Archive \(p. 174\)](#) objects

NextToken (p. 80)

The token returned by a previous call to retrieve the next set of results.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 249\)](#).

InternalException

This exception occurs due to unexpected causes.

HTTP Status Code: 500

ResourceNotFoundException

An entity that you specified does not exist.

HTTP Status Code: 400

See Also

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

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

ListConnections

Retrieves a list of connections from the account.

Request Syntax

```
{  
  "ConnectionState": "string",  
  "Limit": number,  
  "NamePrefix": "string",  
  "NextToken": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 247\)](#).

The request accepts the following data in JSON format.

ConnectionState (p. 82)

The state of the connection.

Type: String

Valid Values: CREATING | UPDATING | DELETING | AUTHORIZED | DEAUTHORIZED | AUTHORIZING | DEAUTHORIZING

Required: No

Limit (p. 82)

The maximum number of connections to return.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

NamePrefix (p. 82)

A name prefix to filter results returned. Only connections with a name that starts with the prefix are returned.

Type: String

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

Pattern: [`\. \- _A-Za-z0-9`]+

Required: No

NextToken (p. 82)

The token returned by a previous call to retrieve the next set of results.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Required: No

Response Syntax

```
{
  "Connections": [
    {
      "AuthorizationType": "string",
      "ConnectionArn": "string",
      "ConnectionState": "string",
      "CreationTime": number,
      "LastAuthorizedTime": number,
      "LastModifiedTime": number,
      "Name": "string",
      "StateReason": "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.

Connections (p. 83)

An array of connections objects that include details about the connections.

Type: Array of [Connection](#) (p. 182) objects

NextToken (p. 83)

A token you can use in a subsequent request to retrieve the next set of results.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 249).

InternalException

This exception occurs due to unexpected causes.

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 V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListEventBuses

Lists all the event buses in your account, including the default event bus, custom event buses, and partner event buses.

Request Syntax

```
{  
  "Limit": number,  
  "NamePrefix": "string",  
  "NextToken": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 247).

The request accepts the following data in JSON format.

Limit (p. 85)

Specifying this limits the number of results returned by this operation. The operation also returns a NextToken which you can use in a subsequent operation to retrieve the next set of results.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

NamePrefix (p. 85)

Specifying this limits the results to only those event buses with names that start with the specified prefix.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: [/\ . \ - _ A - Z a - z 0 - 9] +

Required: No

NextToken (p. 85)

The token returned by a previous call to retrieve the next set of results.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Required: No

Response Syntax

```
{
```

```
"EventBuses": [  
  {  
    "Arn": "string",  
    "Name": "string",  
    "Policy": "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.

EventBuses (p. 85)

This list of event buses.

Type: Array of [EventBus](#) (p. 202) objects

NextToken (p. 85)

A token you can use in a subsequent operation to retrieve the next set of results.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 249).

InternalException

This exception occurs due to unexpected causes.

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 V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListEventSources

You can use this to see all the partner event sources that have been shared with your AWS account. For more information about partner event sources, see [CreateEventBus](#).

Request Syntax

```
{  
  "Limit": number,  
  "NamePrefix": "string",  
  "NextToken": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 247).

The request accepts the following data in JSON format.

Limit (p. 87)

Specifying this limits the number of results returned by this operation. The operation also returns a NextToken which you can use in a subsequent operation to retrieve the next set of results.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

NamePrefix (p. 87)

Specifying this limits the results to only those partner event sources with names that start with the specified prefix.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: [/\ . \ - _ A - Z a - z 0 - 9] +

Required: No

NextToken (p. 87)

The token returned by a previous call to retrieve the next set of results.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Required: No

Response Syntax

```
{
```

```
"EventSources": [  
  {  
    "Arn": "string",  
    "CreatedBy": "string",  
    "CreationTime": number,  
    "ExpirationTime": number,  
    "Name": "string",  
    "State": "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.

EventSources (p. 87)

The list of event sources.

Type: Array of [EventSource](#) (p. 203) objects

NextToken (p. 87)

A token you can use in a subsequent operation to retrieve the next set of results.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 249).

InternalException

This exception occurs due to unexpected causes.

HTTP Status Code: 500

OperationDisabledException

The operation you are attempting is not available in this region.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)

- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListPartnerEventSourceAccounts

An SaaS partner can use this operation to display the AWS account ID that a particular partner event source name is associated with. This operation is not used by AWS customers.

Request Syntax

```
{  
  "EventSourceName": "string",  
  "Limit": number,  
  "NextToken": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 247).

The request accepts the following data in JSON format.

EventSourceName (p. 90)

The name of the partner event source to display account information about.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `aws\.partner(/[\.\\-_A-Za-z0-9]{2,}`

Required: Yes

Limit (p. 90)

Specifying this limits the number of results returned by this operation. The operation also returns a NextToken which you can use in a subsequent operation to retrieve the next set of results.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

NextToken (p. 90)

The token returned by a previous call to this operation. Specifying this retrieves the next set of results.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Required: No

Response Syntax

```
{
```

```
"NextToken": "string",
"PartnerEventSourceAccounts": [
  {
    "Account": "string",
    "CreationTime": number,
    "ExpirationTime": number,
    "State": "string"
  }
]
```

Response Elements

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

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

NextToken (p. 90)

A token you can use in a subsequent operation to retrieve the next set of results.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

PartnerEventSourceAccounts (p. 90)

The list of partner event sources returned by the operation.

Type: Array of [PartnerEventSourceAccount](#) (p. 212) objects

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 249).

InternalException

This exception occurs due to unexpected causes.

HTTP Status Code: 500

OperationDisabledException

The operation you are attempting is not available in this region.

HTTP Status Code: 400

ResourceNotFoundException

An entity that you specified does not exist.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListPartnerEventSources

An SaaS partner can use this operation to list all the partner event source names that they have created. This operation is not used by AWS customers.

Request Syntax

```
{  
  "Limit": number,  
  "NamePrefix": "string",  
  "NextToken": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 247).

The request accepts the following data in JSON format.

Limit (p. 93)

Specifying this limits the number of results returned by this operation. The operation also returns a `NextToken` which you can use in a subsequent operation to retrieve the next set of results.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

NamePrefix (p. 93)

If you specify this, the results are limited to only those partner event sources that start with the string you specify.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `aws\.partner/[\.\\-_A-Za-z0-9]+/[\.\\-_A-Za-z0-9]*`

Required: Yes

NextToken (p. 93)

The token returned by a previous call to this operation. Specifying this retrieves the next set of results.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Required: No

Response Syntax

```
{
```

```
"NextToken": "string",
"PartnerEventSources": [
  {
    "Arn": "string",
    "Name": "string"
  }
]
```

Response Elements

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

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

NextToken (p. 93)

A token you can use in a subsequent operation to retrieve the next set of results.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

PartnerEventSources (p. 93)

The list of partner event sources returned by the operation.

Type: Array of [PartnerEventSource](#) (p. 211) objects

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 249).

InternalException

This exception occurs due to unexpected causes.

HTTP Status Code: 500

OperationDisabledException

The operation you are attempting is not available in this region.

HTTP Status Code: 400

See Also

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

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

- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListReplays

Lists your replays. You can either list all the replays or you can provide a prefix to match to the replay names. Filter parameters are exclusive.

Request Syntax

```
{  
  "EventSourceArn": "string",  
  "Limit": number,  
  "NamePrefix": "string",  
  "NextToken": "string",  
  "State": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 247).

The request accepts the following data in JSON format.

EventSourceArn (p. 96)

The ARN of the archive from which the events are replayed.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

Required: No

Limit (p. 96)

The maximum number of replays to retrieve.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

NamePrefix (p. 96)

A name prefix to filter the replays returned. Only replays with name that match the prefix are returned.

Type: String

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

Pattern: `[\ . \ _ - _ A - Z a - z 0 - 9] +`

Required: No

NextToken (p. 96)

The token returned by a previous call to retrieve the next set of results.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Required: No

[State \(p. 96\)](#)

The state of the replay.

Type: String

Valid Values: `STARTING` | `RUNNING` | `CANCELLING` | `COMPLETED` | `CANCELLED` | `FAILED`

Required: No

Response Syntax

```
{
  "NextToken": "string",
  "Replays": [
    {
      "EventEndTime": number,
      "EventLastReplayedTime": number,
      "EventSourceArn": "string",
      "EventStartTime": number,
      "ReplayEndTime": number,
      "ReplayName": "string",
      "ReplayStartTime": number,
      "State": "string",
      "StateReason": "string"
    }
  ]
}
```

Response Elements

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

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

[NextToken \(p. 97\)](#)

The token returned by a previous call to retrieve the next set of results.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

[Replays \(p. 97\)](#)

An array of `Replay` objects that contain information about the replay.

Type: Array of [Replay \(p. 225\)](#) objects

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 249\)](#).

InternalException

This exception occurs due to unexpected causes.

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 V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListRuleNamesByTarget

Lists the rules for the specified target. You can see which of the rules in Amazon EventBridge can invoke a specific target in your account.

Request Syntax

```
{  
  "EventBusName": "string",  
  "Limit": number,  
  "NextToken": "string",  
  "TargetArn": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 247\)](#).

The request accepts the following data in JSON format.

EventBusName (p. 99)

The name or ARN of the event bus to list rules for. If you omit this, the default event bus is used.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

Pattern: (arn:aws[\w-]*:events:[a-z]{2}-[a-z]+-[\w-]+:[0-9]{12}:event-bus\/)?
[/\._A-Za-z0-9]+

Required: No

Limit (p. 99)

The maximum number of results to return.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

NextToken (p. 99)

The token returned by a previous call to retrieve the next set of results.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Required: No

TargetArn (p. 99)

The Amazon Resource Name (ARN) of the target resource.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

Required: Yes

Response Syntax

```
{  
  "NextToken": "string",  
  "RuleNames": [ "string" ]  
}
```

Response Elements

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

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

NextToken (p. 100)

Indicates whether there are additional results to retrieve. If there are no more results, the value is null.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

RuleNames (p. 100)

The names of the rules that can invoke the given target.

Type: Array of strings

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

Pattern: [\ . \ - _ A - Z a - z 0 - 9] +

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 249\)](#).

InternalException

This exception occurs due to unexpected causes.

HTTP Status Code: 500

ResourceNotFoundException

An entity that you specified does not exist.

HTTP Status Code: 400

Examples

Lists rule names by target with the specified ARN

The following is an example of a ListRuleNamesByTarget request and response.

Sample Request

```
POST / HTTP/1.1
Host: events.<region>.<domain>
x-amz-Date: <Date>
Authorization: AWS4-HMAC-SHA256 Credential=<Credential>, SignedHeaders=content-type;date;host;user-agent;x-amz-date;x-amz-target;x-amzn-requestid, Signature=<Signature>
User-Agent: <UserAgentString>
Content-Type: application/x-amz-json-1.1
Content-Length: <PayloadSizeBytes>
Connection: Keep-Alive
X-Amz-Target: AWSEvents.ListRuleNamesByTarget

{
  "TargetArn": "arn:aws:lambda:us-east-1:123456789012:function:MyFunction",
  "NextToken": "",
  "Limit": 0
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: <RequestId>
Content-Type: application/x-amz-json-1.1
Content-Length: <PayloadSizeBytes>
Date: <Date>

{
  "RuleNames": [
    "test1",
    "test2",
    "test3",
    "test4",
    "test5"
  ]
}
```

See Also

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

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

ListRules

Lists your Amazon EventBridge rules. You can either list all the rules or you can provide a prefix to match to the rule names.

ListRules does not list the targets of a rule. To see the targets associated with a rule, use [ListTargetsByRule](#).

Request Syntax

```
{
  "EventBusName": "string",
  "Limit": number,
  "NamePrefix": "string",
  "NextToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 247).

The request accepts the following data in JSON format.

EventBusName (p. 102)

The name or ARN of the event bus to list the rules for. If you omit this, the default event bus is used.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

Pattern: (arn:aws[\w-]*:events:[a-z]{2}-[a-z]+-[\w-]+:[0-9]{12}:event-bus\/)?
[\/\.__A-Za-z0-9]+

Required: No

Limit (p. 102)

The maximum number of results to return.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

NamePrefix (p. 102)

The prefix matching the rule name.

Type: String

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

Pattern: [\/\.__A-Za-z0-9]+

Required: No

NextToken (p. 102)

The token returned by a previous call to retrieve the next set of results.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Required: No

Response Syntax

```
{
  "NextToken": "string",
  "Rules": [
    {
      "Arn": "string",
      "Description": "string",
      "EventBusName": "string",
      "EventPattern": "string",
      "ManagedBy": "string",
      "Name": "string",
      "RoleArn": "string",
      "ScheduleExpression": "string",
      "State": "string"
    }
  ]
}
```

Response Elements

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

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

NextToken (p. 103)

Indicates whether there are additional results to retrieve. If there are no more results, the value is null.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Rules (p. 103)

The rules that match the specified criteria.

Type: Array of [Rule \(p. 229\)](#) objects

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 249\)](#).

InternalException

This exception occurs due to unexpected causes.

HTTP Status Code: 500

ResourceNotFoundException

An entity that you specified does not exist.

HTTP Status Code: 400

Examples

Lists all the rules that start with the letter "t" with a page size of 1

The following is an example of a ListRules request and response.

Sample Request

```
POST / HTTP/1.1
Host: events.<region>.<domain>
x-amz-Date: <Date>
Authorization: AWS4-HMAC-SHA256 Credential=<Credential>, SignedHeaders=content-type;date;host;user-agent;x-amz-date;x-amz-target;x-amzn-requestid, Signature=<Signature>
User-Agent: <UserAgentString>
Content-Type: application/x-amz-json-1.1
Content-Length: <PayloadSizeBytes>
Connection: Keep-Alive
X-Amz-Target: AWSEvents.ListRules

{
  "NamePrefix": "t",
  "Limit": 1
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: <RequestId>
Content-Type: application/x-amz-json-1.1
Content-Length: <PayloadSizeBytes>
Date: <Date>

{
  "Rules": [
    {
      "EventPattern": "{\"source\":[\"aws.autoscaling\"],\"detail-type\":[\"EC2 Instance Launch Successful\",\"EC2 Instance Terminate Successful\",\"EC2 Instance Launch Unsuccessful\",\"EC2 Instance Terminate Unsuccessful\"]}\",
      \"State\": \"DISABLED\",
      \"Name\": \"test\",
      \"Arn\": \"arn:aws:events:us-east-1:123456789012:rule/test\",
      \"Description\": \"Test rule for Auto Scaling events\"
    }
  ],
  \"NextToken\": \"ABCDEgAAAAAAAAAAQAAABCXtD8i7XlyFv5XFKH8GrudAAAAQIoQ0+7qXp63vQf1pvVklfHFD+ p2QgY36pj1AqsSsrkNbOtTePaCeJqN80+ jbu66UhpJh7huA9r0iY9zjdtZ3vsAAAAGAAAAAAAAAF5MZWk1lmMuLd9gUjryM4sL9EG5IkcPUM60Vq1tzyYw==\"
}
```

See Also

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

- [AWS Command Line Interface](#)

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

ListTagsForResource

Displays the tags associated with an EventBridge resource. In EventBridge, rules and event buses can be tagged.

Request Syntax

```
{  
  "ResourceARN": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 247).

The request accepts the following data in JSON format.

ResourceARN (p. 106)

The ARN of the EventBridge resource for which you want to view tags.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

Required: Yes

Response Syntax

```
{  
  "Tags": [  
    {  
      "Key": "string",  
      "Value": "string"  
    }  
  ]  
}
```

Response Elements

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

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

Tags (p. 106)

The list of tag keys and values associated with the resource you specified

Type: Array of [Tag](#) (p. 236) objects

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 249).

InternalException

This exception occurs due to unexpected causes.

HTTP Status Code: 500

ResourceNotFoundException

An entity that you specified does not exist.

HTTP Status Code: 400

Examples

Removes two tags from an EventBridge rule

The following is an example of an `UntagResource` request.

Sample Request

```
POST / HTTP/1.1
Host: events.<region>.<domain>
x-amz-Date: <Date>
Authorization: AWS4-HMAC-SHA256 Credential=<Credential>, SignedHeaders=content-type;date;host;user-agent;x-amz-date;x-amz-target;x-amzn-requestid, Signature=<Signature>
User-Agent: <UserAgentString>
Content-Type: application/x-amz-json-1.1
Content-Length: <PayloadSizeBytes>
Connection: Keep-Alive
X-Amz-Target: AWSEvents.ListTagsForResource

{
  "ResourceARN": "arn:aws:events:us-west-1:123456789012:rule/test",
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: <RequestId>
Content-Type: application/x-amz-json-1.1
Content-Length: <PayloadSizeBytes>
Date: <Date>

{
  "Tags": [
    {
      "Key": "Stack",
      "Value": "Prod"
    },
    {
      "Key": "CostCenter",
      "Value": "12345"
    }
  ]
}
```

See Also

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

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

ListTargetsByRule

Lists the targets assigned to the specified rule.

Request Syntax

```
{  
  "EventBusName": "string",  
  "Limit": number,  
  "NextToken": "string",  
  "Rule": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 247\)](#).

The request accepts the following data in JSON format.

EventBusName (p. 109)

The name or ARN of the event bus associated with the rule. If you omit this, the default event bus is used.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

Pattern: (arn:aws[\w-]*:events:[a-z]{2}-[a-z]+-[\w-]+:[0-9]{12}:event-bus\/)?
[\/\._A-Za-z0-9]+

Required: No

Limit (p. 109)

The maximum number of results to return.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

NextToken (p. 109)

The token returned by a previous call to retrieve the next set of results.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Required: No

Rule (p. 109)

The name of the rule.

Type: String

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

Pattern: [\. \- _A-Za-z0-9]+

Required: Yes

Response Syntax

```
{
  "NextToken": "string",
  "Targets": [
    {
      "Arn": "string",
      "BatchParameters": {
        "ArrayProperties": {
          "Size": number
        },
        "JobDefinition": "string",
        "JobName": "string",
        "RetryStrategy": {
          "Attempts": number
        }
      },
      "DeadLetterConfig": {
        "Arn": "string"
      },
      "EcsParameters": {
        "CapacityProviderStrategy": [
          {
            "base": number,
            "capacityProvider": "string",
            "weight": number
          }
        ],
        "EnableECSTags": boolean,
        "EnableExecuteCommand": boolean,
        "Group": "string",
        "LaunchType": "string",
        "NetworkConfiguration": {
          "awsvpcConfiguration": {
            "AssignPublicIp": "string",
            "SecurityGroups": [ "string" ],
            "Subnets": [ "string" ]
          }
        },
        "PlacementConstraints": [
          {
            "expression": "string",
            "type": "string"
          }
        ],
        "PlacementStrategy": [
          {
            "field": "string",
            "type": "string"
          }
        ],
        "PlatformVersion": "string",
        "PropagateTags": "string",
        "ReferenceId": "string",
        "Tags": [
          {
            "Key": "string",
            "Value": "string"
          }
        ]
      }
    }
  ]
}
```

```

    ],
    "TaskCount": number,
    "TaskDefinitionArn": "string"
  },
  "HttpParameters": {
    "HeaderParameters": {
      "string": "string"
    },
    "PathParameterValues": [ "string" ],
    "QueryStringParameters": {
      "string": "string"
    }
  },
  "Id": "string",
  "Input": "string",
  "InputPath": "string",
  "InputTransformer": {
    "InputPathsMap": {
      "string": "string"
    },
    "InputTemplate": "string"
  },
  "KinesisParameters": {
    "PartitionKeyPath": "string"
  },
  "RedshiftDataParameters": {
    "Database": "string",
    "DbUser": "string",
    "SecretManagerArn": "string",
    "Sql": "string",
    "StatementName": "string",
    "WithEvent": boolean
  },
  "RetryPolicy": {
    "MaximumEventAgeInSeconds": number,
    "MaximumRetryAttempts": number
  },
  "RoleArn": "string",
  "RunCommandParameters": {
    "RunCommandTargets": [
      {
        "Key": "string",
        "Values": [ "string" ]
      }
    ]
  },
  "SageMakerPipelineParameters": {
    "PipelineParameterList": [
      {
        "Name": "string",
        "Value": "string"
      }
    ]
  },
  "SqsParameters": {
    "MessageGroupId": "string"
  }
}
]
}

```

Response Elements

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

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

NextToken (p. 110)

Indicates whether there are additional results to retrieve. If there are no more results, the value is null.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Targets (p. 110)

The targets assigned to the rule.

Type: Array of [Target](#) (p. 237) objects

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

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 249).

InternalException

This exception occurs due to unexpected causes.

HTTP Status Code: 500

ResourceNotFoundException

An entity that you specified does not exist.

HTTP Status Code: 400

Examples

Lists the targets associated with a rule named "test"

The following is an example of a `ListTargetsByRule` request and response.

Sample Request

```
POST / HTTP/1.1
Host: events.<region>.<domain>
x-amz-Date: <Date>
Authorization: AWS4-HMAC-SHA256 Credential=<Credential>, SignedHeaders=content-type;date;host;user-agent;x-amz-date;x-amz-target;x-amzn-requestid, Signature=<Signature>
User-Agent: <UserAgentString>
Content-Type: application/x-amz-json-1.1
Content-Length: <PayloadSizeBytes>
Connection: Keep-Alive
X-Amz-Target: AWSEvents.ListTargetsByRule

{
  "Rule": "test"
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: <RequestId>
Content-Type: application/x-amz-json-1.1
Content-Length: <PayloadSizeBytes>
Date: <Date>

{
  "Targets": [
    {
      "Id": "MyTargetId",
      "Arn": "arn:aws:lambda:us-east-1:123456789012:function:MyFunction"
    }
  ]
}
```

See Also

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

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

PutEvents

Sends custom events to Amazon EventBridge so that they can be matched to rules.

Request Syntax

```
{
  "Entries": [
    {
      "Detail": "string",
      "DetailType": "string",
      "EventBusName": "string",
      "Resources": [ "string" ],
      "Source": "string",
      "Time": number,
      "TraceHeader": "string"
    }
  ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 247\)](#).

The request accepts the following data in JSON format.

Entries (p. 114)

The entry that defines an event in your system. You can specify several parameters for the entry such as the source and type of the event, resources associated with the event, and so on.

Type: Array of [PutEventsRequestEntry \(p. 215\)](#) objects

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

Required: Yes

Response Syntax

```
{
  "Entries": [
    {
      "ErrorCode": "string",
      "ErrorMessage": "string",
      "EventId": "string"
    }
  ],
  "FailedEntryCount": 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.

Entries (p. 114)

The successfully and unsuccessfully ingested events results. If the ingestion was successful, the entry has the event ID in it. Otherwise, you can use the error code and error message to identify the problem with the entry.

Type: Array of [PutEventsResultEntry](#) (p. 217) objects

FailedEntryCount (p. 114)

The number of failed entries.

Type: Integer

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 249).

InternalException

This exception occurs due to unexpected causes.

HTTP Status Code: 500

Examples

Sends two custom events

The following is an example of a PutEvents request and response.

Sample Request

```
POST / HTTP/1.1
Host: events.<region>.<domain>
x-amz-Date: <Date>
Authorization: AWS4-HMAC-SHA256 Credential=<Credential>, SignedHeaders=content-type;date;host;user-agent;x-amz-date;x-amz-target;x-amzn-requestid, Signature=<Signature>
User-Agent: <UserAgentString>
Content-Type: application/x-amz-json-1.1
Content-Length: <PayloadSizeBytes>
Connection: Keep-Alive
X-Amz-Target: AWSEvents.PutEvents

{
  "Entries": [
    {
      "Source": "com.mycompany.myapp",
      "Detail": "{ \"key1\": \"value1\", \"key2\": \"value2\" }",
      "Resources": [
        "resource1",
        "resource2"
      ],
      "DetailType": "myDetailType"
    },
    {
      "Source": "com.mycompany.myapp",
      "Detail": "{ \"key1\": \"value3\", \"key2\": \"value4\" }",
```

```
        "Resources": [
            "resource1",
            "resource2"
        ],
        "DetailType": "myDetailType"
    }
]
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: <RequestId>
Content-Type: application/x-amz-json-1.1
Content-Length: <PayloadSizeBytes>
Date: <Date>

{
    "FailedEntryCount": 0,
    "Entries": [
        {
            "EventId": "11710aed-b79e-4468-a20b-bb3c0c3b4860"
        },
        {
            "EventId": "d804d26a-88db-4b66-9eaf-9a11c708ae82"
        }
    ]
}
```

See Also

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

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

PutPartnerEvents

This is used by SaaS partners to write events to a customer's partner event bus. AWS customers do not use this operation.

Request Syntax

```
{
  "Entries": [
    {
      "Detail": "string",
      "DetailType": "string",
      "Resources": [ "string" ],
      "Source": "string",
      "Time": number
    }
  ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 247).

The request accepts the following data in JSON format.

Entries (p. 117)

The list of events to write to the event bus.

Type: Array of [PutPartnerEventsRequestEntry](#) (p. 218) objects

Array Members: Minimum number of 1 item. Maximum number of 20 items.

Required: Yes

Response Syntax

```
{
  "Entries": [
    {
      "ErrorCode": "string",
      "ErrorMessage": "string",
      "EventId": "string"
    }
  ],
  "FailedEntryCount": 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.

Entries (p. 117)

The list of events from this operation that were successfully written to the partner event bus.

Type: Array of [PutPartnerEventsResultEntry](#) (p. 220) objects

FailedEntryCount (p. 117)

The number of events from this operation that could not be written to the partner event bus.

Type: Integer

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 249).

InternalException

This exception occurs due to unexpected causes.

HTTP Status Code: 500

OperationDisabledException

The operation you are attempting is not available in this region.

HTTP Status Code: 400

See Also

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

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

PutPermission

Running `PutPermission` permits the specified AWS account or AWS organization to put events to the specified *event bus*. Amazon EventBridge (CloudWatch Events) rules in your account are triggered by these events arriving to an event bus in your account.

For another account to send events to your account, that external account must have an EventBridge rule with your account's event bus as a target.

To enable multiple AWS accounts to put events to your event bus, run `PutPermission` once for each of these accounts. Or, if all the accounts are members of the same AWS organization, you can run `PutPermission` once specifying `Principal` as `"*"` and specifying the AWS organization ID in `Condition`, to grant permissions to all accounts in that organization.

If you grant permissions using an organization, then accounts in that organization must specify a `RoleArn` with proper permissions when they use `PutTarget` to add your account's event bus as a target. For more information, see [Sending and Receiving Events Between AWS Accounts](#) in the *Amazon EventBridge User Guide*.

The permission policy on the event bus cannot exceed 10 KB in size.

Request Syntax

```
{
  "Action": "string",
  "Condition": {
    "Key": "string",
    "Type": "string",
    "Value": "string"
  },
  "EventBusName": "string",
  "Policy": "string",
  "Principal": "string",
  "StatementId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 247).

The request accepts the following data in JSON format.

Action (p. 119)

The action that you are enabling the other account to perform.

Type: String

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

Pattern: `events:[a-zA-Z]+`

Required: No

Condition (p. 119)

This parameter enables you to limit the permission to accounts that fulfill a certain condition, such as being a member of a certain AWS organization. For more information about AWS Organizations, see [What Is AWS Organizations](#) in the *AWS Organizations User Guide*.

If you specify `Condition` with an AWS organization ID, and specify `"*"` as the value for `Principal`, you grant permission to all the accounts in the named organization.

The `Condition` is a JSON string which must contain `Type`, `Key`, and `Value` fields.

Type: [Condition \(p. 181\)](#) object

Required: No

EventBusName (p. 119)

The name of the event bus associated with the rule. If you omit this, the default event bus is used.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `[\ . \ - \ _ A - Z a - z 0 - 9] +`

Required: No

Policy (p. 119)

A JSON string that describes the permission policy statement. You can include a `Policy` parameter in the request instead of using the `StatementId`, `Action`, `Principal`, or `Condition` parameters.

Type: String

Required: No

Principal (p. 119)

The 12-digit AWS account ID that you are permitting to put events to your default event bus. Specify `"*"` to permit any account to put events to your default event bus.

If you specify `"*"` without specifying `Condition`, avoid creating rules that may match undesirable events. To create more secure rules, make sure that the event pattern for each rule contains an `account` field with a specific account ID from which to receive events. Rules with an `account` field do not match any events sent from other accounts.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 12.

Pattern: `(\ d { 1 2 } | \ *)`

Required: No

StatementId (p. 119)

An identifier string for the external account that you are granting permissions to. If you later want to revoke the permission for this external account, specify this `StatementId` when you run [RemovePermission](#).

Note

Each `StatementId` must be unique.

Type: String

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

Pattern: `[a - z A - Z 0 - 9 - \ _] +`

Required: No

Response Elements

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

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 249\)](#).

ConcurrentModificationException

There is concurrent modification on a rule, target, archive, or replay.

HTTP Status Code: 400

InternalException

This exception occurs due to unexpected causes.

HTTP Status Code: 500

OperationDisabledException

The operation you are attempting is not available in this region.

HTTP Status Code: 400

PolicyLengthExceededException

The event bus policy is too long. For more information, see the limits.

HTTP Status Code: 400

ResourceNotFoundException

An entity that you specified does not exist.

HTTP Status Code: 400

Examples

The following example enables the current account to receive events from account 111122223333.

Example

This example illustrates one usage of PutPermission.

Sample Request

```
POST / HTTP/1.1
Host: events.<region>.<domain>
x-amz-Date: <Date>
Authorization: AWS4-HMAC-SHA256 Credential=<Credential>, SignedHeaders=content-type;date;host;user-agent;x-amz-date;x-amz-target;x-amzn-requestid, Signature=<Signature>
User-Agent: <UserAgentString>
Content-Type: application/x-amz-json-1.1
Content-Length: <PayloadSizeBytes>
Connection: Keep-Alive
X-Amz-Target: AWSEvents.PutPermission

{
```

```
"Action": "events:PutEvents"
"Principal": "111122223333"
"StatementId": "MyStatement"

}
```

Example

The following example grants permissions to all accounts in the organization with an ID of o-1234567890

Sample Request

```
POST / HTTP/1.1
Host: events.<region>.<domain>
x-amz-Date: <Date>
Authorization: AWS4-HMAC-SHA256 Credential=<Credential>, SignedHeaders=content-type;date;host;user-agent;x-amz-date;x-amz-target;x-amzn-requestid, Signature=<Signature>
User-Agent: <UserAgentString>
Content-Type: application/x-amz-json-1.1
Content-Length: <PayloadSizeBytes>
Connection: Keep-Alive
X-Amz-Target: AWSEvents.PutPermission

{
  "Action": "events:PutEvents"
  "Principal": "*"
  "Condition": '{ "Type" : "StringEquals", "Key": "aws:PrincipalOrgID", "Value":
    "o-1234567890"}'
  "StatementId": "MyStatement"
}
```

See Also

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

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

PutRule

Creates or updates the specified rule. Rules are enabled by default, or based on value of the state. You can disable a rule using [DisableRule](#).

A single rule watches for events from a single event bus. Events generated by AWS services go to your account's default event bus. Events generated by SaaS partner services or applications go to the matching partner event bus. If you have custom applications or services, you can specify whether their events go to your default event bus or a custom event bus that you have created. For more information, see [CreateEventBus](#).

If you are updating an existing rule, the rule is replaced with what you specify in this `PutRule` command. If you omit arguments in `PutRule`, the old values for those arguments are not kept. Instead, they are replaced with null values.

When you create or update a rule, incoming events might not immediately start matching to new or updated rules. Allow a short period of time for changes to take effect.

A rule must contain at least an `EventPattern` or `ScheduleExpression`. Rules with `EventPatterns` are triggered when a matching event is observed. Rules with `ScheduleExpressions` self-trigger based on the given schedule. A rule can have both an `EventPattern` and a `ScheduleExpression`, in which case the rule triggers on matching events as well as on a schedule.

When you initially create a rule, you can optionally assign one or more tags to the rule. Tags can help you organize and categorize your resources. You can also use them to scope user permissions, by granting a user permission to access or change only rules with certain tag values. To use the `PutRule` operation and assign tags, you must have both the `events:PutRule` and `events:TagResource` permissions.

If you are updating an existing rule, any tags you specify in the `PutRule` operation are ignored. To update the tags of an existing rule, use [TagResource](#) and [UntagResource](#).

Most services in AWS treat `:` or `/` as the same character in Amazon Resource Names (ARNs). However, EventBridge uses an exact match in event patterns and rules. Be sure to use the correct ARN characters when creating event patterns so that they match the ARN syntax in the event you want to match.

In EventBridge, it is possible to create rules that lead to infinite loops, where a rule is fired repeatedly. For example, a rule might detect that ACLs have changed on an S3 bucket, and trigger software to change them to the desired state. If the rule is not written carefully, the subsequent change to the ACLs fires the rule again, creating an infinite loop.

To prevent this, write the rules so that the triggered actions do not re-fire the same rule. For example, your rule could fire only if ACLs are found to be in a bad state, instead of after any change.

An infinite loop can quickly cause higher than expected charges. We recommend that you use budgeting, which alerts you when charges exceed your specified limit. For more information, see [Managing Your Costs with Budgets](#).

Request Syntax

```
{
  "Description": "string",
  "EventBusName": "string",
  "EventPattern": "string",
  "Name": "string",
  "RoleArn": "string",
  "ScheduleExpression": "string",
  "State": "string",
  "Tags": [
    {
```

```
    "Key": "string",  
    "Value": "string"  
  }  
]  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 247).

The request accepts the following data in JSON format.

Description (p. 123)

A description of the rule.

Type: String

Length Constraints: Maximum length of 512.

Required: No

EventBusName (p. 123)

The name or ARN of the event bus to associate with this rule. If you omit this, the default event bus is used.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

Pattern: `(arn:aws[\w-]*:events:[a-z]{2}-[a-z]+-[\w-]+:[0-9]{12}:event-bus\/)?
[\/\._\-A-Za-z0-9]+`

Required: No

EventPattern (p. 123)

The event pattern. For more information, see [Events and Event Patterns](#) in the *Amazon EventBridge User Guide*.

Type: String

Required: No

Name (p. 123)

The name of the rule that you are creating or updating.

Type: String

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

Pattern: `[\/\._\-A-Za-z0-9]+`

Required: Yes

RoleArn (p. 123)

The Amazon Resource Name (ARN) of the IAM role associated with the rule.

If you're setting an event bus in another account as the target and that account granted permission to your account through an organization instead of directly by the account ID, you must specify a `RoleArn` with proper permissions in the `Target` structure, instead of here in this parameter.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

Required: No

[ScheduleExpression \(p. 123\)](#)

The scheduling expression. For example, "cron(0 20 * * ? *)" or "rate(5 minutes)".

Type: String

Length Constraints: Maximum length of 256.

Required: No

[State \(p. 123\)](#)

Indicates whether the rule is enabled or disabled.

Type: String

Valid Values: `ENABLED` | `DISABLED`

Required: No

[Tags \(p. 123\)](#)

The list of key-value pairs to associate with the rule.

Type: Array of [Tag \(p. 236\)](#) objects

Required: No

Response Syntax

```
{  
  "RuleArn": "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.

[RuleArn \(p. 125\)](#)

The Amazon Resource Name (ARN) of the rule.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 249\)](#).

ConcurrentModificationException

There is concurrent modification on a rule, target, archive, or replay.

HTTP Status Code: 400

InternalException

This exception occurs due to unexpected causes.

HTTP Status Code: 500

InvalidEventPatternException

The event pattern is not valid.

HTTP Status Code: 400

LimitExceededException

The request failed because it attempted to create resource beyond the allowed service quota.

HTTP Status Code: 400

ManagedRuleException

This rule was created by an AWS service on behalf of your account. It is managed by that service. If you see this error in response to `DeleteRule` or `RemoveTargets`, you can use the `Force` parameter in those calls to delete the rule or remove targets from the rule. You cannot modify these managed rules by using `DisableRule`, `EnableRule`, `PutTargets`, `PutRule`, `TagResource`, or `UntagResource`.

HTTP Status Code: 400

ResourceNotFoundException

An entity that you specified does not exist.

HTTP Status Code: 400

Examples

Creates a rule named "test" that matches events from Amazon EC2. The rule is also given two tags.

The following is an example of a `PutRule` request and response.

Sample Request

```
POST / HTTP/1.1
Host: events.<region>.<domain>
x-amz-Date: <Date>
Authorization: AWS4-HMAC-SHA256 Credential=<Credential>, SignedHeaders=content-type;date;host;user-agent;x-amz-date;x-amz-target;x-amzn-requestid, Signature=<Signature>
User-Agent: <UserAgentString>
Content-Type: application/x-amz-json-1.1
Content-Length: <PayloadSizeBytes>
Connection: Keep-Alive
X-Amz-Target: AWSEvents.PutRule

{
  "Name": "test",
```

```
"EventPattern": "{ \"source\": [\"aws.ec2\"] }",
"Tags": [
  {
    "Key": "Stack",
    "Value": "Prod"
  },
  {
    "Key": "CostCenter",
    "Value": "12345"
  }
]
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: <RequestId>
Content-Type: application/x-amz-json-1.1
Content-Length: <PayloadSizeBytes>
Date: <Date>

{
  "RuleArn": "arn:aws:events:us-east-1:123456789012:rule/test"
}
```

See Also

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

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

PutTargets

Adds the specified targets to the specified rule, or updates the targets if they are already associated with the rule.

Targets are the resources that are invoked when a rule is triggered.

You can configure the following as targets for Events:

- [API destination](#)
- Amazon API Gateway REST API endpoints
- API Gateway
- AWS Batch job queue
- CloudWatch Logs group
- CodeBuild project
- CodePipeline
- Amazon EC2 `CreateSnapshot` API call
- EC2 Image Builder
- Amazon EC2 `RebootInstances` API call
- Amazon EC2 `StopInstances` API call
- Amazon EC2 `TerminateInstances` API call
- Amazon ECS tasks
- Event bus in a different AWS account or Region.

You can use an event bus in the US East (N. Virginia) `us-east-1`, US West (Oregon) `us-west-2`, or Europe (Ireland) `eu-west-1` Regions as a target for a rule.

- Firehose delivery stream (Kinesis Data Firehose)
- Inspector assessment template (Amazon Inspector)
- Kinesis stream (Kinesis Data Stream)
- AWS Lambda function
- Redshift clusters (Data API statement execution)
- Amazon SNS topic
- Amazon SQS queues (includes FIFO queues)
- SSM Automation
- SSM OpsItem
- SSM Run Command
- Step Functions state machines

Creating rules with built-in targets is supported only in the AWS Management Console. The built-in targets are `EC2 CreateSnapshot` API call, `EC2 RebootInstances` API call, `EC2 StopInstances` API call, and `EC2 TerminateInstances` API call.

For some target types, `PutTargets` provides target-specific parameters. If the target is a Kinesis data stream, you can optionally specify which shard the event goes to by using the `KinesisParameters` argument. To invoke a command on multiple EC2 instances with one rule, you can use the `RunCommandParameters` field.

To be able to make API calls against the resources that you own, Amazon EventBridge needs the appropriate permissions. For AWS Lambda and Amazon SNS resources, EventBridge relies on resource-

based policies. For EC2 instances, Kinesis Data Streams, AWS Step Functions state machines and API Gateway REST APIs, EventBridge relies on IAM roles that you specify in the `RoleArn` argument in `PutTargets`. For more information, see [Authentication and Access Control](#) in the *Amazon EventBridge User Guide*.

If another AWS account is in the same region and has granted you permission (using `PutPermission`), you can send events to that account. Set that account's event bus as a target of the rules in your account. To send the matched events to the other account, specify that account's event bus as the `Arn` value when you run `PutTargets`. If your account sends events to another account, your account is charged for each sent event. Each event sent to another account is charged as a custom event. The account receiving the event is not charged. For more information, see [Amazon EventBridge Pricing](#).

Note

`Input`, `InputPath`, and `InputTransformer` are not available with `PutTarget` if the target is an event bus of a different AWS account.

If you are setting the event bus of another account as the target, and that account granted permission to your account through an organization instead of directly by the account ID, then you must specify a `RoleArn` with proper permissions in the `Target` structure. For more information, see [Sending and Receiving Events Between AWS Accounts](#) in the *Amazon EventBridge User Guide*.

For more information about enabling cross-account events, see [PutPermission](#).

Input, **InputPath**, and **InputTransformer** are mutually exclusive and optional parameters of a target. When a rule is triggered due to a matched event:

- If none of the following arguments are specified for a target, then the entire event is passed to the target in JSON format (unless the target is Amazon EC2 Run Command or Amazon ECS task, in which case nothing from the event is passed to the target).
- If **Input** is specified in the form of valid JSON, then the matched event is overridden with this constant.
- If **InputPath** is specified in the form of JSONPath (for example, `$.detail`), then only the part of the event specified in the path is passed to the target (for example, only the detail part of the event is passed).
- If **InputTransformer** is specified, then one or more specified JSONPaths are extracted from the event and used as values in a template that you specify as the input to the target.

When you specify `InputPath` or `InputTransformer`, you must use JSON dot notation, not bracket notation.

When you add targets to a rule and the associated rule triggers soon after, new or updated targets might not be immediately invoked. Allow a short period of time for changes to take effect.

This action can partially fail if too many requests are made at the same time. If that happens, `FailedEntryCount` is non-zero in the response and each entry in `FailedEntries` provides the ID of the failed target and the error code.

Request Syntax

```
{
  "EventBusName": "string",
  "Rule": "string",
  "Targets": [
    {
      "Arn": "string",
      "BatchParameters": {
        "ArrayProperties": {
          "Size": number
        }
      }
    }
  ],
}
```

```

    "JobDefinition": "string",
    "JobName": "string",
    "RetryStrategy": {
        "Attempts": number
    }
},
"DeadLetterConfig": {
    "Arn": "string"
},
"EcsParameters": {
    "CapacityProviderStrategy": [
        {
            "base": number,
            "capacityProvider": "string",
            "weight": number
        }
    ],
    "EnableECSTags": boolean,
    "EnableExecuteCommand": boolean,
    "Group": "string",
    "LaunchType": "string",
    "NetworkConfiguration": {
        "awsvpcConfiguration": {
            "AssignPublicIp": "string",
            "SecurityGroups": [ "string" ],
            "Subnets": [ "string" ]
        }
    },
    "PlacementConstraints": [
        {
            "expression": "string",
            "type": "string"
        }
    ],
    "PlacementStrategy": [
        {
            "field": "string",
            "type": "string"
        }
    ],
    "PlatformVersion": "string",
    "PropagateTags": "string",
    "ReferenceId": "string",
    "Tags": [
        {
            "Key": "string",
            "Value": "string"
        }
    ],
    "TaskCount": number,
    "TaskDefinitionArn": "string"
},
"HttpParameters": {
    "HeaderParameters": {
        "string" : "string"
    },
    "PathParameterValues": [ "string" ],
    "QueryStringParameters": {
        "string" : "string"
    }
},
"Id": "string",
"Input": "string",
"InputPath": "string",
"InputTransformer": {
    "InputPathsMap": {

```

```

        "string" : "string"
    },
    "InputTemplate": "string"
},
"KinesisParameters": {
    "PartitionKeyPath": "string"
},
"RedshiftDataParameters": {
    "Database": "string",
    "DbUser": "string",
    "SecretManagerArn": "string",
    "Sql": "string",
    "StatementName": "string",
    "WithEvent": boolean
},
"RetryPolicy": {
    "MaximumEventAgeInSeconds": number,
    "MaximumRetryAttempts": number
},
"RoleArn": "string",
"RunCommandParameters": {
    "RunCommandTargets": [
        {
            "Key": "string",
            "Values": [ "string" ]
        }
    ]
},
"SageMakerPipelineParameters": {
    "PipelineParameterList": [
        {
            "Name": "string",
            "Value": "string"
        }
    ]
},
"SqsParameters": {
    "MessageGroupId": "string"
}
}
]
}

```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 247).

The request accepts the following data in JSON format.

EventBusName (p. 129)

The name or ARN of the event bus associated with the rule. If you omit this, the default event bus is used.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

Pattern: (arn:aws[\w-]*:events:[a-z]{2}-[a-z]+-[\w-]+:[0-9]{12}:event-bus\/)?
[\/\._A-Za-z0-9]+

Required: No

Rule (p. 129)

The name of the rule.

Type: String

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

Pattern: [\. \- _A-Za-z0-9]+

Required: Yes

Targets (p. 129)

The targets to update or add to the rule.

Type: Array of [Target \(p. 237\)](#) objects

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

Required: Yes

Response Syntax

```
{
  "FailedEntries": [
    {
      "ErrorCode": "string",
      "ErrorMessage": "string",
      "TargetId": "string"
    }
  ],
  "FailedEntryCount": 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.

FailedEntries (p. 132)

The failed target entries.

Type: Array of [PutTargetsResultEntry \(p. 221\)](#) objects

FailedEntryCount (p. 132)

The number of failed entries.

Type: Integer

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 249\)](#).

ConcurrentModificationException

There is concurrent modification on a rule, target, archive, or replay.

HTTP Status Code: 400

InternalException

This exception occurs due to unexpected causes.

HTTP Status Code: 500

LimitExceededException

The request failed because it attempted to create resource beyond the allowed service quota.

HTTP Status Code: 400

ManagedRuleException

This rule was created by an AWS service on behalf of your account. It is managed by that service. If you see this error in response to `DeleteRule` or `RemoveTargets`, you can use the `Force` parameter in those calls to delete the rule or remove targets from the rule. You cannot modify these managed rules by using `DisableRule`, `EnableRule`, `PutTargets`, `PutRule`, `TagResource`, or `UntagResource`.

HTTP Status Code: 400

ResourceNotFoundException

An entity that you specified does not exist.

HTTP Status Code: 400

Examples

Adds a target to a Lambda function with the ID "MyTargetId" to the rule named "test"

The following is an example of a `PutTargets` request.

Sample Request

```
POST / HTTP/1.1
Host: events.<region>.<domain>
x-amz-Date: <Date>
Authorization: AWS4-HMAC-SHA256 Credential=<Credential>, SignedHeaders=content-type;date;host;user-agent;x-amz-date;x-amz-target;x-amzn-requestid, Signature=<Signature>
User-Agent: <UserAgentString>
Content-Type: application/x-amz-json-1.1
Content-Length: <PayloadSizeBytes>
Connection: Keep-Alive
X-Amz-Target: AWSEvents.PutTargets

{
  "Rule": "test",
  "Targets": [
    {
      "Id": "MyTargetId",
      "Arn": "arn:aws:lambda:us-east-1:123456789012:function:MyFunction"
    }
  ]
}
```

```
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: <RequestId>
Content-Type: application/x-amz-json-1.1
Content-Length: <PayloadSizeBytes>
Date: <Date>

{
  "FailedEntries": [],
  "FailedEntryCount": 0
}
```

Use Input Transformer to extract data from an event and input that data to the target

This example extracts the instance and state from an event, puts them into a simple text template, and passes this data to a Lambda function called `MyFunction`.

Note

If you are using `InputTransformer` with CloudWatch Logs as a target, the `Template` must be `{"timestamp":<timestamp>,"message":<version-id>}`.

Sample Request

```
POST / HTTP/1.1
Host: events.<region>.<domain>
x-amz-Date: <Date>
Authorization: AWS4-HMAC-SHA256 Credential=<Credential>, SignedHeaders=content-type;date;host;user-agent;x-amz-date;x-amz-target;x-amzn-requestid, Signature=<Signature>
User-Agent: <UserAgentString>
Content-Type: application/x-amz-json-1.1
Content-Length: <PayloadSizeBytes>
Connection: Keep-Alive
X-Amz-Target: AWSEvents.PutTargets

{
  "Rule": "testrule",
  "Targets": [
    {
      "Id": "MyTargetId",
      "Arn": "arn:aws:lambda:us-east-1:123456789012:function:MyFunction",
      "InputTransformer": {
        "InputPathsMap": {"instance": "$.detail.instance", "status":
        "$.detail.status"},
        "InputTemplate": "<instance> is in state <status>"
      }
    }
  ]
}
```

Example

Here is another sample request using `InputTransformer`. The input to the Lambda function is in JSON format, with an array substituted. Below that sample request are examples of an event and the resulting output to the target, using this sample request.

```
POST / HTTP/1.1
Host: events.<region>.<domain>
x-amz-Date: <Date>
Authorization: AWS4-HMAC-SHA256 Credential=<Credential>, SignedHeaders=content-type;date;host;user-agent;x-amz-date;x-amz-target;x-amzn-requestid, Signature=<Signature>
User-Agent: <UserAgentString>
Content-Type: application/x-amz-json-1.1
Content-Length: <PayloadSizeBytes>
Connection: Keep-Alive
X-Amz-Target: AWSEvents.PutTargets

{
  "Rule": "testrule",
  "Targets": [
    {
      "Id": "MyTargetId",
      "Arn": "arn:aws:lambda:us-east-1:123456789012:function:MyFunction"
      "InputTransformer": {
        "InputPathsMap": {"commandsToRun": "$.detail.commands"},
        "InputTemplate": "{$\"commands\": <commandsToRun>}"
      }
    }
  ]
}
```

Incoming event:

```
{
  "Time": 1225864800,
  "Source": "foo",
  "Resources": ["foo", "foo"],
  "DetailType": "foo",
  "Detail": {
    "commands": ["ls -lrt", "echo HelloWorld!"]
  }
}
```

Output sent to the target:

```
{
  "commands" : ["ls -lrt", "echo HelloWorld!"]
}
```

Sends a command to a list of EC2 instances specified by InstanceIds, using Amazon EC2 Run Command

This example illustrates one usage of PutTargets.

```
POST / HTTP/1.1
Host: events.<region>.<domain>
x-amz-Date: <Date>
```

```
Authorization: AWS4-HMAC-SHA256 Credential=<Credential>, SignedHeaders=content-
type;date;host;user-agent;x-amz-date;x-amz-target;x-amzn-requestid, Signature=<Signature>
User-Agent: <UserAgentString>
Content-Type: application/x-amz-json-1.1
Content-Length: <PayloadSizeBytes>
Connection: Keep-Alive
X-Amz-Target: AWSEvents.PutTargets

{
  "Rule": "testrule",
  "Targets": [
    {
      "Id": "id123456789",
      "Arn": "arn:aws:ssm:us-east-1:12345679012:document/RestartLinuxService",
      "RoleArn": "arn:aws:iam::123456789012:role/MyRoleToAccessEC2"
      "RunCommandParameters": {
        "RunCommandTargets": [
          {
            "Key": "InstanceIds",
            "Values": ["i-123456789012", "i-098765432109"]
          }
        ]
      }
    }
  ]
}
```

Sends a batch job command to an job queue

When the target is an AWS Batch job queue, the `Arn` field specifies the ARN of the job queue, while `JobDefinition` specifies the ARN of the job definition.

```
POST / HTTP/1.1
Host: events.<region>.<domain>
x-amz-Date: <Date>
Authorization: AWS4-HMAC-SHA256 Credential=<Credential>, SignedHeaders=content-
type;date;host;user-agent;x-amz-date;x-amz-target;x-amzn-requestid, Signature=<Signature>
User-Agent: <UserAgentString>
Content-Type: application/x-amz-json-1.1
Content-Length: <PayloadSizeBytes>
Connection: Keep-Alive
X-Amz-Target: AWSEvents.PutTargets

{
  "Rule": "batch-job-rule",
  "Targets": [
    {
      "Id": "id123456789",
      "Arn": "arn:aws:batch:us-west-2:012345678910:job-queue/default",
      "BatchParameters": {
        "ArrayProperties": {
          "Size": 25
        },
        "JobDefinition": "arn:aws:batch:us-west-2:012345678910:job-definition/nvidia-
smi:1",
        "JobName": "unique-job-name",
        "RetryStrategy": {
          "Attempts": 5
        }
      }
    }
  ]
}
```

Uses KinesisParameters to control the shard assignment

In this example, `KinesisParameters` is used to specify that events related to status changes are sent to a shard specific to the affected instance ID.

```
POST / HTTP/1.1
Host: events.<region>.<domain>
x-amz-date: <Date>
Authorization: AWS4-HMAC-SHA256 Credential=<Credential>, SignedHeaders=content-type;date;host;user-agent;x-amz-date;x-amz-target;x-amzn-requestid, Signature=<Signature>
User-Agent: <UserAgentString>
Content-Type: application/x-amz-json-1.1
Content-Length: <PayloadSizeBytes>
Connection: Keep-Alive
X-Amz-Target: AWSEvents.PutTargets

{
  "Rule": "StatusChangeRule",
  "Targets": [
    {
      "Id": "1",
      "Arn": "arn:aws:kinesis:us-east-1:123456789012:function:stream/mystream",
      "KinesisParameters": {
        "PartitionKeyPath": "$.detail.instance-id"
      }
    }
  ]
}
```

Adds an Amazon Kinesis Data Firehose data delivery stream as a target

This example sets a Kinesis data delivery stream named `target-stream-name` as a target.

```
POST / HTTP/1.1
Host: events.<region>.<domain>
x-amz-date: <Date>
Authorization: AWS4-HMAC-SHA256 Credential=<Credential>, SignedHeaders=content-type;date;host;user-agent;x-amz-date;x-amz-target;x-amzn-requestid, Signature=<Signature>
User-Agent: <UserAgentString>
Content-Type: application/x-amz-json-1.1
Content-Length: <PayloadSizeBytes>
Connection: Keep-Alive
X-Amz-Target: AWSEvents.PutTargets

{
  "Rule": "FirehoseExample",
  "Targets": [
    {
      "RoleArn": "arn:aws:iam::123456789012:role/MyRoleToAccessKinesis",
      "Id": "FirehoseStream",
      "Arn": "arn:aws:firehose:us-east-1:123456789012:deliverystream/target-stream-name",
    }
  ]
}
```

Adds a Step Functions state machine as a target

This example targets a state machine called "HelloWorld", and sends the input constant "Hello World!" to that target.

```
POST / HTTP/1.1
Host: events.<region>.<domain>
x-amz-Date: <Date>
Authorization: AWS4-HMAC-SHA256 Credential=<Credential>, SignedHeaders=content-type;date;host;user-agent;x-amz-date;x-amz-target;x-amzn-requestid, Signature=<Signature>
User-Agent: <UserAgentString>
Content-Type: application/x-amz-json-1.1
Content-Length: <PayloadSizeBytes>
Connection: Keep-Alive
X-Amz-Target: AWSEvents.PutTargets

{
  "Rule": "testrule",
  "Targets": [
    {
      "RoleArn": "arn:aws:iam::123456789012:role/MyRoleToAccessStepFunctions",
      "Arn": "arn:aws:states:us-east-1:123456789012:stateMachine:HelloWorld",
      "Input": "HelloWorld!"
    }
  ]
}
```

Adds a target that creates three Amazon ECS tasks based on a task definition

This example uses Amazon ECS as the target. You must have already created the task definition and cluster in Amazon ECS.

```
POST / HTTP/1.1
Host: events.<region>.<domain>
x-amz-Date: <Date>
Authorization: AWS4-HMAC-SHA256 Credential=<Credential>, SignedHeaders=content-type;date;host;user-agent;x-amz-date;x-amz-target;x-amzn-requestid, Signature=<Signature>
User-Agent: <UserAgentString>
Content-Type: application/x-amz-json-1.1
Content-Length: <PayloadSizeBytes>
Connection: Keep-Alive
X-Amz-Target: AWSEvents.PutTargets

{
  "Rule": "test",
  "Targets": [
    {
      "Id": "Target1",
      "RoleArn": "arn:aws:iam::123456789012:role/MyRoleToAccessECS",
      "Arn": "arn:aws:ecs:us-east-1:123456789012:cluster/example-cluster",
      "ECSParameters": {
        "TaskDefinitionArn": "arn:aws:ecs:us-east-1:123456789012:task-definition/example",
        "TaskCount": 3
      }
    }
  ]
}
```

Specifying two targets with one command

This example sets two simple targets with one command. In this example, both targets are AWS Lambda functions, but the two targets could be different AWS services as well.

Sample Request

```
POST / HTTP/1.1
Host: events.<region>.<domain>
x-amz-Date: <Date>
Authorization: AWS4-HMAC-SHA256 Credential=<Credential>, SignedHeaders=content-type;date;host;user-agent;x-amz-date;x-amz-target;x-amzn-requestid, Signature=<Signature>
User-Agent: <UserAgentString>
Content-Type: application/x-amz-json-1.1
Content-Length: <PayloadSizeBytes>
Connection: Keep-Alive
X-Amz-Target: AWSEvents.PutTargets

{
  "Rule": "test",
  "Targets": [
    {
      "Id": "MyTargetId",
      "Arn": "arn:aws:lambda:us-east-1:123456789012:function:MyFunction"
    }
    {
      "Id": "MyTargetId2",
      "Arn": "arn:aws:lambda:us-east-1:123456789012:function:MyFunction2"
    }
  ]
}
```

Specifying another account as a target

This example shows cross-account event delivery. The target being added is the event bus of a separate AWS account, which has the AWS account ID of 444455556666.

Note

Input, InputPath, and InputTransformer are not available with PutTarget if the target is an event bus of a different AWS account.

Sample Request

```
POST / HTTP/1.1
Host: events.<region>.<domain>
x-amz-Date: <Date>
Authorization: AWS4-HMAC-SHA256 Credential=<Credential>, SignedHeaders=content-type;date;host;user-agent;x-amz-date;x-amz-target;x-amzn-requestid, Signature=<Signature>
User-Agent: <UserAgentString>
Content-Type: application/x-amz-json-1.1
Content-Length: <PayloadSizeBytes>
Connection: Keep-Alive
X-Amz-Target: AWSEvents.PutTargets

{
  "Rule": "producer-rule",
  "Targets": [
    {
      "Id": "CrossAccountTargetId",
      "Arn": "arn:aws:events:us-east-1:444455556666:event-bus/default"
    }
  ]
}
```

Adds a API Gateway REST API as a target

This example targets an API Gateway REST API with static and dynamic HTTP parameters.

Note

HTTP parameters with static values are passed through to API Gateway as-is. If you provide a JSON Path (prefixed with "\$."), it will be dynamically replaced at runtime with a value from the event payload (before input transformation).

Sample Request

```
POST / HTTP/1.1
Host: events.<region>.<domain>
x-amz-date: <Date>
Authorization: AWS4-HMAC-SHA256 Credential=<Credential>, SignedHeaders=content-type;date;host;user-agent;x-amz-date;x-amz-target;x-amzn-requestid, Signature=<Signature>
User-Agent: <UserAgentString>
Content-Type: application/x-amz-json-1.1
Content-Length: <PayloadSizeBytes>
Connection: Keep-Alive
X-Amz-Target: AWSEvents.PutTargets

{
  "Rule": "test",
  "Targets":
  [
    {
      "Id": "testTargetId",
      "Arn": "arn:aws:execute-api:us-east-1:444455556666:py1kl011je/testStage/POST/path1/*/*/*",
      "RoleArn": "arn:aws:iam::415653183693:role/APIGatewayPOC",
      "HttpParameters":
      {
        "PathParameterValues": ["pp1Val", "pp2Val"],
        "HeaderParameters": {"hp1": "hp1Val", "hp2": "$.detail.header"},
        "QueryStringParameters": {"qsp1": "qsp1Val", "qsp2": "$.source"}
      }
    }
  ]
}
```

See Also

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

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

RemovePermission

Revokes the permission of another AWS account to be able to put events to the specified event bus. Specify the account to revoke by the `StatementId` value that you associated with the account when you granted it permission with `PutPermission`. You can find the `StatementId` by using [DescribeEventBus](#).

Request Syntax

```
{
  "EventBusName": "string",
  "RemoveAllPermissions": boolean,
  "StatementId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 247).

The request accepts the following data in JSON format.

EventBusName (p. 141)

The name of the event bus to revoke permissions for. If you omit this, the default event bus is used.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: [\ . \ - _ A - Z a - z 0 - 9] +

Required: No

RemoveAllPermissions (p. 141)

Specifies whether to remove all permissions.

Type: Boolean

Required: No

StatementId (p. 141)

The statement ID corresponding to the account that is no longer allowed to put events to the default event bus.

Type: String

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

Pattern: [a - z A - Z 0 - 9 - _] +

Required: No

Response Elements

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

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 249\)](#).

ConcurrentModificationException

There is concurrent modification on a rule, target, archive, or replay.

HTTP Status Code: 400

InternalException

This exception occurs due to unexpected causes.

HTTP Status Code: 500

OperationDisabledException

The operation you are attempting is not available in this region.

HTTP Status Code: 400

ResourceNotFoundException

An entity that you specified does not exist.

HTTP Status Code: 400

See Also

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

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

RemoveTargets

Removes the specified targets from the specified rule. When the rule is triggered, those targets are no longer be invoked.

When you remove a target, when the associated rule triggers, removed targets might continue to be invoked. Allow a short period of time for changes to take effect.

This action can partially fail if too many requests are made at the same time. If that happens, `FailedEntryCount` is non-zero in the response and each entry in `FailedEntries` provides the ID of the failed target and the error code.

Request Syntax

```
{
  "EventBusName": "string",
  "Force": boolean,
  "Ids": [ "string" ],
  "Rule": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 247).

The request accepts the following data in JSON format.

EventBusName (p. 143)

The name or ARN of the event bus associated with the rule. If you omit this, the default event bus is used.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

Pattern: `(arn:aws[\w-]*:events:[a-z]{2}-[a-z]+-[\w-]+:[0-9]{12}:event-bus\/)?`
`[\/\._A-Za-z0-9]+`

Required: No

Force (p. 143)

If this is a managed rule, created by an AWS service on your behalf, you must specify `Force` as `True` to remove targets. This parameter is ignored for rules that are not managed rules. You can check whether a rule is a managed rule by using `DescribeRule` or `ListRules` and checking the `ManagedBy` field of the response.

Type: Boolean

Required: No

Ids (p. 143)

The IDs of the targets to remove from the rule.

Type: Array of strings

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

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

Pattern: [\. \- _A-Za-z0-9]+

Required: Yes

Rule (p. 143)

The name of the rule.

Type: String

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

Pattern: [\. \- _A-Za-z0-9]+

Required: Yes

Response Syntax

```
{
  "FailedEntries": [
    {
      "ErrorCode": "string",
      "ErrorMessage": "string",
      "TargetId": "string"
    }
  ],
  "FailedEntryCount": 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.

FailedEntries (p. 144)

The failed target entries.

Type: Array of [RemoveTargetsResultEntry \(p. 224\)](#) objects

FailedEntryCount (p. 144)

The number of failed entries.

Type: Integer

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 249\)](#).

ConcurrentModificationException

There is concurrent modification on a rule, target, archive, or replay.

HTTP Status Code: 400

InternalException

This exception occurs due to unexpected causes.

HTTP Status Code: 500

ManagedRuleException

This rule was created by an AWS service on behalf of your account. It is managed by that service. If you see this error in response to `DeleteRule` or `RemoveTargets`, you can use the `Force` parameter in those calls to delete the rule or remove targets from the rule. You cannot modify these managed rules by using `DisableRule`, `EnableRule`, `PutTargets`, `PutRule`, `TagResource`, or `UntagResource`.

HTTP Status Code: 400

ResourceNotFoundException

An entity that you specified does not exist.

HTTP Status Code: 400

Examples

Removes a target with ID "MyTargetId" from a rule named "test"

The following is an example of a `RemoveTargets` request.

Sample Request

```
POST / HTTP/1.1
Host: events.<region>.<domain>
x-amz-Date: <Date>
Authorization: AWS4-HMAC-SHA256 Credential=<Credential>, SignedHeaders=content-type;date;host;user-agent;x-amz-date;x-amz-target;x-amzn-requestid, Signature=<Signature>
User-Agent: <UserAgentString>
Content-Type: application/x-amz-json-1.1
Content-Length: <PayloadSizeBytes>
Connection: Keep-Alive
X-Amz-Target: AWSEvents.RemoveTargets

{
  "Rule": "test",
  "Ids": [
    "MyTargetId"
  ]
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: <RequestId>
Content-Type: application/x-amz-json-1.1
Content-Length: <PayloadSizeBytes>
Date: <Date>

{
  "FailedEntries": [],
  "FailedEntryCount": 0
}
```

```
}
```

See Also

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

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

StartReplay

Starts the specified replay. Events are not necessarily replayed in the exact same order that they were added to the archive. A replay processes events to replay based on the time in the event, and replays them using 1 minute intervals. If you specify an `EventStartTime` and an `EventEndTime` that covers a 20 minute time range, the events are replayed from the first minute of that 20 minute range first. Then the events from the second minute are replayed. You can use `DescribeReplay` to determine the progress of a replay. The value returned for `EventLastReplayedTime` indicates the time within the specified time range associated with the last event replayed.

Request Syntax

```
{
  "Description": "string",
  "Destination": {
    "Arn": "string",
    "FilterArns": [ "string" ]
  },
  "EventEndTime": number,
  "EventSourceArn": "string",
  "EventStartTime": number,
  "ReplayName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 247).

The request accepts the following data in JSON format.

Description (p. 147)

A description for the replay to start.

Type: String

Length Constraints: Maximum length of 512.

Pattern: .*

Required: No

Destination (p. 147)

A `ReplayDestination` object that includes details about the destination for the replay.

Type: [ReplayDestination](#) (p. 227) object

Required: Yes

EventEndTime (p. 147)

A time stamp for the time to stop replaying events. Only events that occurred between the `EventStartTime` and `EventEndTime` are replayed.

Type: Timestamp

Required: Yes

EventSourceArn (p. 147)

The ARN of the archive to replay events from.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

Required: Yes

EventStartTime (p. 147)

A time stamp for the time to start replaying events. Only events that occurred between the `EventStartTime` and `EventEndTime` are replayed.

Type: Timestamp

Required: Yes

ReplayName (p. 147)

The name of the replay to start.

Type: String

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

Pattern: `[\. \- _A-Za-z0-9]+`

Required: Yes

Response Syntax

```
{
  "ReplayArn": "string",
  "ReplayStartTime": number,
  "State": "string",
  "StateReason": "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.

ReplayArn (p. 148)

The ARN of the replay.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

Pattern: `^arn:aws([a-z]|\-)*:events:([a-z]|\d|\-)*:([0-9]{12})?:.+\/[\. \- _A-Za-z0-9]+$`

ReplayStartTime (p. 148)

The time at which the replay started.

Type: Timestamp

State (p. 148)

The state of the replay.

Type: String

Valid Values: `STARTING` | `RUNNING` | `CANCELLING` | `COMPLETED` | `CANCELLED` | `FAILED`

StateReason (p. 148)

The reason that the replay is in the state.

Type: String

Length Constraints: Maximum length of 512.

Pattern: `. *`

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 249).

InternalException

This exception occurs due to unexpected causes.

HTTP Status Code: 500

InvalidEventPatternException

The event pattern is not valid.

HTTP Status Code: 400

LimitExceededException

The request failed because it attempted to create resource beyond the allowed service quota.

HTTP Status Code: 400

ResourceAlreadyExistsException

The resource you are trying to create already exists.

HTTP Status Code: 400

ResourceNotFoundException

An entity that you specified does not exist.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)

- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

TagResource

Assigns one or more tags (key-value pairs) to the specified EventBridge resource. Tags can help you organize and categorize your resources. You can also use them to scope user permissions by granting a user permission to access or change only resources with certain tag values. In EventBridge, rules and event buses can be tagged.

Tags don't have any semantic meaning to AWS and are interpreted strictly as strings of characters.

You can use the `TagResource` action with a resource that already has tags. If you specify a new tag key, this tag is appended to the list of tags associated with the resource. If you specify a tag key that is already associated with the resource, the new tag value that you specify replaces the previous value for that tag.

You can associate as many as 50 tags with a resource.

Request Syntax

```
{
  "ResourceARN": "string",
  "Tags": [
    {
      "Key": "string",
      "Value": "string"
    }
  ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 247).

The request accepts the following data in JSON format.

ResourceARN (p. 151)

The ARN of the EventBridge resource that you're adding tags to.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

Required: Yes

Tags (p. 151)

The list of key-value pairs to associate with the resource.

Type: Array of [Tag](#) (p. 236) objects

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 \(p. 249\)](#).

ConcurrentModificationException

There is concurrent modification on a rule, target, archive, or replay.

HTTP Status Code: 400

InternalException

This exception occurs due to unexpected causes.

HTTP Status Code: 500

ManagedRuleException

This rule was created by an AWS service on behalf of your account. It is managed by that service. If you see this error in response to `DeleteRule` or `RemoveTargets`, you can use the `Force` parameter in those calls to delete the rule or remove targets from the rule. You cannot modify these managed rules by using `DisableRule`, `EnableRule`, `PutTargets`, `PutRule`, `TagResource`, or `UntagResource`.

HTTP Status Code: 400

ResourceNotFoundException

An entity that you specified does not exist.

HTTP Status Code: 400

Examples

Adds two tags to a EventBridge rule

The following is an example of a `TagResource` request.

Sample Request

```
POST / HTTP/1.1
Host: events.<region>.<domain>
x-amz-Date: <Date>
Authorization: AWS4-HMAC-SHA256 Credential=<Credential>, SignedHeaders=content-type;date;host;user-agent;x-amz-date;x-amz-target;x-amzn-requestid, Signature=<Signature>
User-Agent: <UserAgentString>
Content-Type: application/x-amz-json-1.1
Content-Length: <PayloadSizeBytes>
Connection: Keep-Alive
X-Amz-Target: AWSEvents.TagResource

{
  "ResourceARN": "arn:aws:events:us-west-1:123456789012:rule/test",
  "Tags": [
    {
      "Key": "Stack",
      "Value": "Prod"
    },
    {
      "Key": "Team",
      "Value": "Green"
    }
  ]
}
```

```
}  
  ]  
}
```

See Also

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

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

TestEventPattern

Tests whether the specified event pattern matches the provided event.

Most services in AWS treat : or / as the same character in Amazon Resource Names (ARNs). However, EventBridge uses an exact match in event patterns and rules. Be sure to use the correct ARN characters when creating event patterns so that they match the ARN syntax in the event you want to match.

Request Syntax

```
{  
  "Event": "string",  
  "EventPattern": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 247).

The request accepts the following data in JSON format.

Event (p. 154)

The event, in JSON format, to test against the event pattern. The JSON must follow the format specified in [AWS Events](#), and the following fields are mandatory:

- id
- account
- source
- time
- region
- resources
- detail-type

Type: String

Required: Yes

EventPattern (p. 154)

The event pattern. For more information, see [Events and Event Patterns](#) in the *Amazon EventBridge User Guide*.

Type: String

Required: Yes

Response Syntax

```
{  
  "Result": boolean  
}
```

Response Elements

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

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

Result (p. 154)

Indicates whether the event matches the event pattern.

Type: Boolean

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 249\)](#).

InternalException

This exception occurs due to unexpected causes.

HTTP Status Code: 500

InvalidEventPatternException

The event pattern is not valid.

HTTP Status Code: 400

Examples

Tests that a given event matches a given event pattern

The following is an example of a TestEventPattern request and response.

Sample Request

```
POST / HTTP/1.1
Host: events.<region>.<domain>
x-amz-Date: <Date>
Authorization: AWS4-HMAC-SHA256 Credential=<Credential>, SignedHeaders=content-type;date;host;user-agent;x-amz-date;x-amz-target;x-amzn-requestid, Signature=<Signature>
User-Agent: <UserAgentString>
Content-Type: application/x-amz-json-1.1
Content-Length: <PayloadSizeBytes>
Connection: Keep-Alive
X-Amz-Target: AWSEvents.TestEventPattern

{
  "EventPattern": "{\"source\": [\"com.mycompany.myapp\"]}",
  "Event": "{\"id\": \"e00c66cb-fe7a-4fcc-81ad-58eb60f5d96b\", \"detail-type\": \"myDetailType\", \"source\": \"com.mycompany.myapp\", \"account\": \"123456789012\", \"time\": \"2016-01-10T01:29:23Z\", \"region\": \"us-east-1\", \"resources\": [\"resource1\", \"resource2\"], \"detail\": {\"key1\": \"value1\", \"key2\": \"value2\"}}\""
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: <RequestId>
Content-Type: application/x-amz-json-1.1
Content-Length: <PayloadSizeBytes>
Date: <Date>

{
  "Result": true
}
```

See Also

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

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

UntagResource

Removes one or more tags from the specified EventBridge resource. In Amazon EventBridge (CloudWatch Events), rules and event buses can be tagged.

Request Syntax

```
{
  "ResourceARN": "string",
  "TagKeys": [ "string" ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 247).

The request accepts the following data in JSON format.

ResourceARN (p. 157)

The ARN of the EventBridge resource from which you are removing tags.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

Required: Yes

TagKeys (p. 157)

The list of tag keys to remove from the resource.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 128.

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. 249).

ConcurrentModificationException

There is concurrent modification on a rule, target, archive, or replay.

HTTP Status Code: 400

InternalException

This exception occurs due to unexpected causes.

HTTP Status Code: 500

ManagedRuleException

This rule was created by an AWS service on behalf of your account. It is managed by that service. If you see this error in response to `DeleteRule` or `RemoveTargets`, you can use the `Force` parameter in those calls to delete the rule or remove targets from the rule. You cannot modify these managed rules by using `DisableRule`, `EnableRule`, `PutTargets`, `PutRule`, `TagResource`, or `UntagResource`.

HTTP Status Code: 400

ResourceNotFoundException

An entity that you specified does not exist.

HTTP Status Code: 400

Examples

Removes two tags from an EventBridge rule

The following is an example of an `UntagResource` request.

Sample Request

```
POST / HTTP/1.1
Host: events.<region>.<domain>
x-amz-Date: <Date>
Authorization: AWS4-HMAC-SHA256 Credential=<Credential>, SignedHeaders=content-type;date;host;user-agent;x-amz-date;x-amz-target;x-amzn-requestid, Signature=<Signature>
User-Agent: <UserAgentString>
Content-Type: application/x-amz-json-1.1
Content-Length: <PayloadSizeBytes>
Connection: Keep-Alive
X-Amz-Target: AWSEvents.UntagResource

{
  "ResourceARN": "arn:aws:events:us-west-1:123456789012:rule/test",
  "TagKeys": [ "CostCenter", "Team" ]
}
```

See Also

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

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

UpdateApiDestination

Updates an API destination.

Request Syntax

```
{
  "ConnectionArn": "string",
  "Description": "string",
  "HttpMethod": "string",
  "InvocationEndpoint": "string",
  "InvocationRateLimitPerSecond": number,
  "Name": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 247).

The request accepts the following data in JSON format.

ConnectionArn (p. 160)

The ARN of the connection to use for the API destination.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

Pattern: `^arn:aws([a-z]|\\-)*:events:([a-z]|\\d|\\-)*:([0-9]{12})?:connection\\/([\\.\\-_A-Za-z0-9]+\\/\\-A-Za-z0-9]+)$`

Required: No

Description (p. 160)

The name of the API destination to update.

Type: String

Length Constraints: Maximum length of 512.

Pattern: `.*`

Required: No

HttpMethod (p. 160)

The method to use for the API destination.

Type: String

Valid Values: POST | GET | HEAD | OPTIONS | PUT | PATCH | DELETE

Required: No

InvocationEndpoint (p. 160)

The URL to the endpoint to use for the API destination.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `^(%([0-9A-Za-z]{2}|[-()_.!~*';/?:@x26=+$,A-Za-z0-9]))+)([.!' ;/?:,])?$`

Required: No

InvocationRateLimitPerSecond (p. 160)

The maximum number of invocations per second to send to the API destination.

Type: Integer

Valid Range: Minimum value of 1.

Required: No

Name (p. 160)

The name of the API destination to update.

Type: String

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

Pattern: `[\.\-_A-Za-z0-9]+`

Required: Yes

Response Syntax

```
{
  "ApiDestinationArn": "string",
  "ApiDestinationState": "string",
  "CreationTime": number,
  "LastModifiedTime": 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.

ApiDestinationArn (p. 161)

The ARN of the API destination that was updated.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

Pattern: `^arn:aws([a-z]|\-)*:events:([a-z]|\d|\-)*:([0-9]{12})?:api-destination\[.\.\-_A-Za-z0-9]+\[/\[-A-Za-z0-9]+$`

ApiDestinationState (p. 161)

The state of the API destination that was updated.

Type: String

Valid Values: `ACTIVE` | `INACTIVE`

CreationTime (p. 161)

A time stamp for the time that the API destination was created.

Type: Timestamp

LastModifiedTime (p. 161)

A time stamp for the time that the API destination was last modified.

Type: Timestamp

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 249\)](#).

ConcurrentModificationException

There is concurrent modification on a rule, target, archive, or replay.

HTTP Status Code: 400

InternalException

This exception occurs due to unexpected causes.

HTTP Status Code: 500

LimitExceededException

The request failed because it attempted to create resource beyond the allowed service quota.

HTTP Status Code: 400

ResourceNotFoundException

An entity that you specified does not exist.

HTTP Status Code: 400

See Also

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

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

UpdateArchive

Updates the specified archive.

Request Syntax

```
{  
  "ArchiveName": "string",  
  "Description": "string",  
  "EventPattern": "string",  
  "RetentionDays": number  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 247\)](#).

The request accepts the following data in JSON format.

ArchiveName (p. 163)

The name of the archive to update.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 48.

Pattern: [\ . \ - _ A - Z a - z 0 - 9] +

Required: Yes

Description (p. 163)

The description for the archive.

Type: String

Length Constraints: Maximum length of 512.

Pattern: . *

Required: No

EventPattern (p. 163)

The event pattern to use to filter events sent to the archive.

Type: String

Required: No

RetentionDays (p. 163)

The number of days to retain events in the archive.

Type: Integer

Valid Range: Minimum value of 0.

Required: No

Response Syntax

```
{  
  "ArchiveArn": "string",  
  "CreationTime": number,  
  "State": "string",  
  "StateReason": "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.

ArchiveArn (p. 164)

The ARN of the archive.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

Pattern: `^arn:aws([a-z]|\-)*:events:([a-z]|\d|\-)*:([0-9]{12})?:.+\/.+$`

CreationTime (p. 164)

The time at which the archive was updated.

Type: Timestamp

State (p. 164)

The state of the archive.

Type: String

Valid Values: `ENABLED | DISABLED | CREATING | UPDATING | CREATE_FAILED | UPDATE_FAILED`

StateReason (p. 164)

The reason that the archive is in the current state.

Type: String

Length Constraints: Maximum length of 512.

Pattern: `.*`

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 249\)](#).

ConcurrentModificationException

There is concurrent modification on a rule, target, archive, or replay.

HTTP Status Code: 400

InternalException

This exception occurs due to unexpected causes.

HTTP Status Code: 500

InvalidEventPatternException

The event pattern is not valid.

HTTP Status Code: 400

LimitExceededException

The request failed because it attempted to create resource beyond the allowed service quota.

HTTP Status Code: 400

ResourceNotFoundException

An entity that you specified does not exist.

HTTP Status Code: 400

See Also

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

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

UpdateConnection

Updates settings for a connection.

Request Syntax

```
{
  "AuthorizationType": "string",
  "AuthParameters": {
    "ApiKeyAuthParameters": {
      "ApiKeyName": "string",
      "ApiKeyValue": "string"
    },
    "BasicAuthParameters": {
      "Password": "string",
      "Username": "string"
    },
    "InvocationHttpParameters": {
      "BodyParameters": [
        {
          "IsValueSecret": boolean,
          "Key": "string",
          "Value": "string"
        }
      ],
      "HeaderParameters": [
        {
          "IsValueSecret": boolean,
          "Key": "string",
          "Value": "string"
        }
      ],
      "QueryStringParameters": [
        {
          "IsValueSecret": boolean,
          "Key": "string",
          "Value": "string"
        }
      ]
    },
    "OAuthParameters": {
      "AuthorizationEndpoint": "string",
      "ClientParameters": {
        "ClientID": "string",
        "ClientSecret": "string"
      },
      "HttpMethod": "string",
      "OAuthHttpParameters": {
        "BodyParameters": [
          {
            "IsValueSecret": boolean,
            "Key": "string",
            "Value": "string"
          }
        ],
        "HeaderParameters": [
          {
            "IsValueSecret": boolean,
            "Key": "string",
            "Value": "string"
          }
        ],
        "QueryStringParameters": [
```

```
    {
      "IsValueSecret": boolean,
      "Key": "string",
      "Value": "string"
    }
  ]
},
{
  "Description": "string",
  "Name": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 247).

The request accepts the following data in JSON format.

[AuthorizationType](#) (p. 166)

The type of authorization to use for the connection.

Type: String

Valid Values: BASIC | OAUTH_CLIENT_CREDENTIALS | API_KEY

Required: No

[AuthParameters](#) (p. 166)

The authorization parameters to use for the connection.

Type: [UpdateConnectionAuthRequestParameters](#) (p. 241) object

Required: No

[Description](#) (p. 166)

A description for the connection.

Type: String

Length Constraints: Maximum length of 512.

Pattern: . *

Required: No

[Name](#) (p. 166)

The name of the connection to update.

Type: String

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

Pattern: [\. \- _A-Za-z0-9] +

Required: Yes

Response Syntax

```
{  
  "ConnectionArn": "string",  
  "ConnectionState": "string",  
  "CreationTime": number,  
  "LastAuthorizedTime": number,  
  "LastModifiedTime": 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.

ConnectionArn (p. 168)

The ARN of the connection that was updated.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

Pattern: ^arn:aws([a-z]|\-)*:events:([a-z]|\d|\-)*:([0-9]{12})?:connection\/
[\.\/\-_A-Za-z0-9]+\.[\/\-_A-Za-z0-9]+\$

ConnectionState (p. 168)

The state of the connection that was updated.

Type: String

Valid Values: CREATING | UPDATING | DELETING | AUTHORIZED | DEAUTHORIZED |
AUTHORIZING | DEAUTHORIZING

CreationTime (p. 168)

A time stamp for the time that the connection was created.

Type: Timestamp

LastAuthorizedTime (p. 168)

A time stamp for the time that the connection was last authorized.

Type: Timestamp

LastModifiedTime (p. 168)

A time stamp for the time that the connection was last modified.

Type: Timestamp

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 249\)](#).

ConcurrentModificationException

There is concurrent modification on a rule, target, archive, or replay.

HTTP Status Code: 400

InternalException

This exception occurs due to unexpected causes.

HTTP Status Code: 500

LimitExceededException

The request failed because it attempted to create resource beyond the allowed service quota.

HTTP Status Code: 400

ResourceNotFoundException

An entity that you specified does not exist.

HTTP Status Code: 400

See Also

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

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

Data Types

The Amazon EventBridge 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:

- [ApiDestination](#) (p. 172)
- [Archive](#) (p. 174)
- [AwsVpcConfiguration](#) (p. 176)
- [BatchArrayProperties](#) (p. 177)
- [BatchParameters](#) (p. 178)
- [BatchRetryStrategy](#) (p. 179)
- [CapacityProviderStrategyItem](#) (p. 180)
- [Condition](#) (p. 181)
- [Connection](#) (p. 182)
- [ConnectionApiKeyAuthResponseParameters](#) (p. 184)
- [ConnectionAuthResponseParameters](#) (p. 185)
- [ConnectionBasicAuthResponseParameters](#) (p. 186)
- [ConnectionBodyParameter](#) (p. 187)
- [ConnectionHeaderParameter](#) (p. 188)
- [ConnectionHttpParameters](#) (p. 189)
- [ConnectionOAuthClientResponseParameters](#) (p. 190)
- [ConnectionOAuthResponseParameters](#) (p. 191)
- [ConnectionQueryStringParameter](#) (p. 192)
- [CreateConnectionApiKeyAuthRequestParameters](#) (p. 193)
- [CreateConnectionAuthRequestParameters](#) (p. 194)
- [CreateConnectionBasicAuthRequestParameters](#) (p. 195)
- [CreateConnectionOAuthClientRequestParameters](#) (p. 196)
- [CreateConnectionOAuthRequestParameters](#) (p. 197)
- [DeadLetterConfig](#) (p. 198)
- [EcsParameters](#) (p. 199)
- [EventBus](#) (p. 202)
- [EventSource](#) (p. 203)
- [HttpParameters](#) (p. 205)
- [InputTransformer](#) (p. 207)
- [KinesisParameters](#) (p. 209)
- [NetworkConfiguration](#) (p. 210)
- [PartnerEventSource](#) (p. 211)
- [PartnerEventSourceAccount](#) (p. 212)
- [PlacementConstraint](#) (p. 213)
- [PlacementStrategy](#) (p. 214)

- [PutEventsRequestEntry](#) (p. 215)
- [PutEventsResultEntry](#) (p. 217)
- [PutPartnerEventsRequestEntry](#) (p. 218)
- [PutPartnerEventsResultEntry](#) (p. 220)
- [PutTargetsResultEntry](#) (p. 221)
- [RedshiftDataParameters](#) (p. 222)
- [RemoveTargetsResultEntry](#) (p. 224)
- [Replay](#) (p. 225)
- [ReplayDestination](#) (p. 227)
- [RetryPolicy](#) (p. 228)
- [Rule](#) (p. 229)
- [RunCommandParameters](#) (p. 231)
- [RunCommandTarget](#) (p. 232)
- [SageMakerPipelineParameter](#) (p. 233)
- [SageMakerPipelineParameters](#) (p. 234)
- [SqsParameters](#) (p. 235)
- [Tag](#) (p. 236)
- [Target](#) (p. 237)
- [UpdateConnectionApiKeyAuthRequestParameters](#) (p. 240)
- [UpdateConnectionAuthRequestParameters](#) (p. 241)
- [UpdateConnectionBasicAuthRequestParameters](#) (p. 242)
- [UpdateConnectionOAuthClientRequestParameters](#) (p. 243)
- [UpdateConnectionOAuthRequestParameters](#) (p. 244)

ApiDestination

Contains details about an API destination.

Contents

ApiDestinationArn

The ARN of the API destination.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

Pattern: `^arn:aws([a-z]|\-)*:events:([a-z]|\d|\-)*:([0-9]{12})?:api-destination\[\.\\-_A-Za-z0-9\]+\[/[\\-A-Za-z0-9]+\$`

Required: No

ApiDestinationState

The state of the API destination.

Type: String

Valid Values: `ACTIVE` | `INACTIVE`

Required: No

ConnectionArn

The ARN of the connection specified for the API destination.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

Pattern: `^arn:aws([a-z]|\-)*:events:([a-z]|\d|\-)*:([0-9]{12})?:connection\[\.\\-_A-Za-z0-9\]+\[/[\\-A-Za-z0-9]+\$`

Required: No

CreationTime

A time stamp for the time that the API destination was created.

Type: Timestamp

Required: No

HttpMethod

The method to use to connect to the HTTP endpoint.

Type: String

Valid Values: `POST` | `GET` | `HEAD` | `OPTIONS` | `PUT` | `PATCH` | `DELETE`

Required: No

InvocationEndpoint

The URL to the endpoint for the API destination.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `^((%[0-9A-Za-f]{2}|[-()_.!~*';/?:@\x26=+$,A-Za-z0-9])+)([.!' ;/?: ,])?$`

Required: No

InvocationRateLimitPerSecond

The maximum number of invocations per second to send to the HTTP endpoint.

Type: Integer

Valid Range: Minimum value of 1.

Required: No

LastModifiedTime

A time stamp for the time that the API destination was last modified.

Type: Timestamp

Required: No

Name

The name of the API destination.

Type: String

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

Pattern: `[\._\-A-Za-z0-9]+`

Required: No

See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

Archive

An Archive object that contains details about an archive.

Contents

ArchiveName

The name of the archive.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 48.

Pattern: [\ . \ - _ A - Z a - z 0 - 9] +

Required: No

CreationTime

The time stamp for the time that the archive was created.

Type: Timestamp

Required: No

EventCount

The number of events in the archive.

Type: Long

Required: No

EventSourceArn

The ARN of the event bus associated with the archive. Only events from this event bus are sent to the archive.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

Required: No

RetentionDays

The number of days to retain events in the archive before they are deleted.

Type: Integer

Valid Range: Minimum value of 0.

Required: No

SizeBytes

The size of the archive, in bytes.

Type: Long

Required: No

State

The current state of the archive.

Type: String

Valid Values: `ENABLED` | `DISABLED` | `CREATING` | `UPDATING` | `CREATE_FAILED` | `UPDATE_FAILED`

Required: No

StateReason

A description for the reason that the archive is in the current state.

Type: String

Length Constraints: Maximum length of 512.

Pattern: `. *`

Required: No

See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

AwsVpcConfiguration

This structure specifies the VPC subnets and security groups for the task, and whether a public IP address is to be used. This structure is relevant only for ECS tasks that use the `awsvpc` network mode.

Contents

AssignPublicIp

Specifies whether the task's elastic network interface receives a public IP address. You can specify `ENABLED` only when `LaunchType` in `EcsParameters` is set to `FARGATE`.

Type: String

Valid Values: `ENABLED` | `DISABLED`

Required: No

SecurityGroups

Specifies the security groups associated with the task. These security groups must all be in the same VPC. You can specify as many as five security groups. If you do not specify a security group, the default security group for the VPC is used.

Type: Array of strings

Required: No

Subnets

Specifies the subnets associated with the task. These subnets must all be in the same VPC. You can specify as many as 16 subnets.

Type: Array of strings

Required: Yes

See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

BatchArrayProperties

The array properties for the submitted job, such as the size of the array. The array size can be between 2 and 10,000. If you specify array properties for a job, it becomes an array job. This parameter is used only if the target is an AWS Batch job.

Contents

Size

The size of the array, if this is an array batch job. Valid values are integers between 2 and 10,000.

Type: Integer

Required: No

See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

BatchParameters

The custom parameters to be used when the target is an AWS Batch job.

Contents

ArrayProperties

The array properties for the submitted job, such as the size of the array. The array size can be between 2 and 10,000. If you specify array properties for a job, it becomes an array job. This parameter is used only if the target is an AWS Batch job.

Type: [BatchArrayProperties](#) (p. 177) object

Required: No

JobDefinition

The ARN or name of the job definition to use if the event target is an AWS Batch job. This job definition must already exist.

Type: String

Required: Yes

JobName

The name to use for this execution of the job, if the target is an AWS Batch job.

Type: String

Required: Yes

RetryStrategy

The retry strategy to use for failed jobs, if the target is an AWS Batch job. The retry strategy is the number of times to retry the failed job execution. Valid values are 1–10. When you specify a retry strategy here, it overrides the retry strategy defined in the job definition.

Type: [BatchRetryStrategy](#) (p. 179) object

Required: No

See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

BatchRetryStrategy

The retry strategy to use for failed jobs, if the target is an AWS Batch job. If you specify a retry strategy here, it overrides the retry strategy defined in the job definition.

Contents

Attempts

The number of times to attempt to retry, if the job fails. Valid values are 1–10.

Type: Integer

Required: No

See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

CapacityProviderStrategyItem

The details of a capacity provider strategy. To learn more, see [CapacityProviderStrategyItem](#) in the Amazon ECS API Reference.

Contents

base

The base value designates how many tasks, at a minimum, to run on the specified capacity provider. Only one capacity provider in a capacity provider strategy can have a base defined. If no value is specified, the default value of 0 is used.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 100000.

Required: No

capacityProvider

The short name of the capacity provider.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

weight

The weight value designates the relative percentage of the total number of tasks launched that should use the specified capacity provider. The weight value is taken into consideration after the base value, if defined, is satisfied.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 1000.

Required: No

See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

Condition

A JSON string which you can use to limit the event bus permissions you are granting to only accounts that fulfill the condition. Currently, the only supported condition is membership in a certain AWS organization. The string must contain `Type`, `Key`, and `Value` fields. The `Value` field specifies the ID of the AWS organization. Following is an example value for `Condition`:

```
'{"Type" : "StringEquals", "Key": "aws:PrincipalOrgID", "Value":  
"o-1234567890"}'
```

Contents

Key

Specifies the key for the condition. Currently the only supported key is `aws:PrincipalOrgID`.

Type: String

Required: Yes

Type

Specifies the type of condition. Currently the only supported value is `StringEquals`.

Type: String

Required: Yes

Value

Specifies the value for the key. Currently, this must be the ID of the organization.

Type: String

Required: Yes

See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

Connection

Contains information about a connection.

Contents

AuthorizationType

The authorization type specified for the connection.

Type: String

Valid Values: `BASIC` | `OAUTH_CLIENT_CREDENTIALS` | `API_KEY`

Required: No

ConnectionArn

The ARN of the connection.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

Pattern: `^arn:aws([a-z]|\-)*:events:([a-z]|\d|\-)*:([0-9]{12})?:connection\/[\.\/\-_A-Za-z0-9]+\.[\/\-_A-Za-z0-9]+$`

Required: No

ConnectionState

The state of the connection.

Type: String

Valid Values: `CREATING` | `UPDATING` | `DELETING` | `AUTHORIZED` | `DEAUTHORIZED` | `AUTHORIZING` | `DEAUTHORIZING`

Required: No

CreationTime

A time stamp for the time that the connection was created.

Type: Timestamp

Required: No

LastAuthorizedTime

A time stamp for the time that the connection was last authorized.

Type: Timestamp

Required: No

LastModifiedTime

A time stamp for the time that the connection was last modified.

Type: Timestamp

Required: No

Name

The name of the connection.

Type: String

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

Pattern: [\ . \ - _ A - Z a - z 0 - 9] +

Required: No

StateReason

The reason that the connection is in the connection state.

Type: String

Length Constraints: Maximum length of 512.

Pattern: . *

Required: No

See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ConnectionApiKeyAuthResponseParameters

Contains the authorization parameters for the connection if API Key is specified as the authorization type.

Contents

ApiKeyName

The name of the header to use for the `APIKeyValue` used for authorization.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Pattern: `^[\t]*[^\x00-\x1F:\x7F]+([\t]+[^\x00-\x1F:\x7F]+)*[\t]*$`

Required: No

See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ConnectionAuthResponseParameters

Contains the authorization parameters to use for the connection.

Contents

ApiKeyAuthParameters

The API Key parameters to use for authorization.

Type: [ConnectionApiKeyAuthResponseParameters](#) (p. 184) object

Required: No

BasicAuthParameters

The authorization parameters for Basic authorization.

Type: [ConnectionBasicAuthResponseParameters](#) (p. 186) object

Required: No

InvocationHttpParameters

Additional parameters for the connection that are passed through with every invocation to the HTTP endpoint.

Type: [ConnectionHttpParameters](#) (p. 189) object

Required: No

OAuthParameters

The OAuth parameters to use for authorization.

Type: [ConnectionOAuthResponseParameters](#) (p. 191) object

Required: No

See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ConnectionBasicAuthResponseParameters

Contains the authorization parameters for the connection if Basic is specified as the authorization type.

Contents

Username

The user name to use for Basic authorization.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Pattern: `^[\t]*[^\x00-\x1F:\x7F]+([\t]+[^\x00-\x1F:\x7F]+)*[\t]*$`

Required: No

See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ConnectionBodyParameter

Additional parameter included in the body. You can include up to 100 additional body parameters per request. An event payload cannot exceed 64 KB.

Contents

IsValueSecret

Specified whether the value is secret.

Type: Boolean

Required: No

Key

The key for the parameter.

Type: String

Required: No

Value

The value associated with the key.

Type: String

Required: No

See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ConnectionHeaderParameter

Additional parameter included in the header. You can include up to 100 additional header parameters per request. An event payload cannot exceed 64 KB.

Contents

IsValueSecret

Specified whether the value is a secret.

Type: Boolean

Required: No

Key

The key for the parameter.

Type: String

Length Constraints: Maximum length of 512.

Pattern: `^[!#$%&'*-._^`|-0-9a-zA-Z]+$`

Required: No

Value

The value associated with the key.

Type: String

Length Constraints: Maximum length of 512.

Pattern: `^[\t]*[\x20-\x7E]+([\ \t]+[\x20-\x7E]+)*[\t]*$`

Required: No

See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ConnectionHttpParameters

Contains additional parameters for the connection.

Contents

BodyParameters

Contains additional body string parameters for the connection.

Type: Array of [ConnectionBodyParameter](#) (p. 187) objects

Array Members: Minimum number of 0 items. Maximum number of 100 items.

Required: No

HeaderParameters

Contains additional header parameters for the connection.

Type: Array of [ConnectionHeaderParameter](#) (p. 188) objects

Array Members: Minimum number of 0 items. Maximum number of 100 items.

Required: No

QueryStringParameters

Contains additional query string parameters for the connection.

Type: Array of [ConnectionQueryStringParameter](#) (p. 192) objects

Array Members: Minimum number of 0 items. Maximum number of 100 items.

Required: No

See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ConnectionOAuthClientResponseParameters

Contains the client response parameters for the connection when OAuth is specified as the authorization type.

Contents

ClientID

The client ID associated with the response to the connection request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Pattern: `^[\t]*[^\x00-\x1F:\x7F]+([\t]+[^\x00-\x1F:\x7F]+)*[\t]*$`

Required: No

See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ConnectionOAuthResponseParameters

Contains the response parameters when OAuth is specified as the authorization type.

Contents

AuthorizationEndpoint

The URL to the HTTP endpoint that authorized the request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `^((%[0-9A-Fa-f]{2}|[-()_.!~*'"/?:@\x26=+$,A-Za-z0-9])+)([.!'"/?:,])?$`

Required: No

ClientParameters

A `ConnectionOAuthClientResponseParameters` object that contains details about the client parameters returned when OAuth is specified as the authorization type.

Type: [ConnectionOAuthClientResponseParameters](#) (p. 190) object

Required: No

HttpMethod

The method used to connect to the HTTP endpoint.

Type: String

Valid Values: `GET` | `POST` | `PUT`

Required: No

OAuthHttpParameters

The additional HTTP parameters used for the OAuth authorization request.

Type: [ConnectionHttpParameters](#) (p. 189) object

Required: No

See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ConnectionQueryStringParameter

Additional query string parameter for the connection. You can include up to 100 additional query string parameters per request. Each additional parameter counts towards the event payload size, which cannot exceed 64 KB.

Contents

IsValueSecret

Specifies whether the value is secret.

Type: Boolean

Required: No

Key

The key for a query string parameter.

Type: String

Length Constraints: Maximum length of 512.

Pattern: [^\x00-\x1F\x7F]+

Required: No

Value

The value associated with the key for the query string parameter.

Type: String

Length Constraints: Maximum length of 512.

Pattern: [^\x00-\x09\x0B\x0C\x0E-\x1F\x7F]+

Required: No

See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

CreateConnectionApiKeyAuthRequestParameters

Contains the API key authorization parameters for the connection.

Contents

ApiKeyName

The name of the API key to use for authorization.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Pattern: `^[\t]*[^\x00-\x1F:\x7F]+([\t]+[^\x00-\x1F:\x7F]+)*[\t]*$`

Required: Yes

ApiKeyValue

The value for the API key to use for authorization.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Pattern: `^[\t]*[^\x00-\x1F:\x7F]+([\t]+[^\x00-\x1F:\x7F]+)*[\t]*$`

Required: Yes

See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

CreateConnectionAuthRequestParameters

Contains the authorization parameters for the connection.

Contents

ApiKeyAuthParameters

A `CreateConnectionApiKeyAuthRequestParameters` object that contains the API key authorization parameters to use for the connection.

Type: [CreateConnectionApiKeyAuthRequestParameters](#) (p. 193) object

Required: No

BasicAuthParameters

A `CreateConnectionBasicAuthRequestParameters` object that contains the Basic authorization parameters to use for the connection.

Type: [CreateConnectionBasicAuthRequestParameters](#) (p. 195) object

Required: No

InvocationHttpParameters

A `ConnectionHttpParameters` object that contains the API key authorization parameters to use for the connection. Note that if you include additional parameters for the target of a rule via `HttpParameters`, including query strings, the parameters added for the connection take precedence.

Type: [ConnectionHttpParameters](#) (p. 189) object

Required: No

OAuthParameters

A `CreateConnectionOAuthRequestParameters` object that contains the OAuth authorization parameters to use for the connection.

Type: [CreateConnectionOAuthRequestParameters](#) (p. 197) object

Required: No

See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

CreateConnectionBasicAuthRequestParameters

Contains the Basic authorization parameters to use for the connection.

Contents

Password

The password associated with the user name to use for Basic authorization.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Pattern: `^[\t]*[^\x00-\x1F:\x7F]+([\t]+[^\x00-\x1F:\x7F]+)*[\t]*$`

Required: Yes

Username

The user name to use for Basic authorization.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Pattern: `^[\t]*[^\x00-\x1F:\x7F]+([\t]+[^\x00-\x1F:\x7F]+)*[\t]*$`

Required: Yes

See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

CreateConnectionOAuthClientRequestParameters

Contains the Basic authorization parameters to use for the connection.

Contents

ClientID

The client ID to use for OAuth authorization for the connection.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Pattern: `^[\t]*[^\x00-\x1F:\x7F]+([\t]+[^\x00-\x1F:\x7F]+)*[\t]*$`

Required: Yes

ClientSecret

The client secret associated with the client ID to use for OAuth authorization for the connection.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Pattern: `^[\t]*[^\x00-\x1F:\x7F]+([\t]+[^\x00-\x1F:\x7F]+)*[\t]*$`

Required: Yes

See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

CreateConnectionOAuthRequestParameters

Contains the OAuth authorization parameters to use for the connection.

Contents

AuthorizationEndpoint

The URL to the authorization endpoint when OAuth is specified as the authorization type.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `^((%[0-9A-Fa-f]{2}|[-()_.!~*'"/?:@\x26=+$,A-Za-z0-9])+)([.!'"/?:,])?$`

Required: Yes

ClientParameters

A `CreateConnectionOAuthClientRequestParameters` object that contains the client parameters for OAuth authorization.

Type: [CreateConnectionOAuthClientRequestParameters](#) (p. 196) object

Required: Yes

HttpMethod

The method to use for the authorization request.

Type: String

Valid Values: `GET` | `POST` | `PUT`

Required: Yes

OAuthHttpParameters

A `ConnectionHttpParameters` object that contains details about the additional parameters to use for the connection.

Type: [ConnectionHttpParameters](#) (p. 189) object

Required: No

See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

DeadLetterConfig

A `DeadLetterConfig` object that contains information about a dead-letter queue configuration.

Contents

Arn

The ARN of the SQS queue specified as the target for the dead-letter queue.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

Required: No

See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

EcsParameters

The custom parameters to be used when the target is an Amazon ECS task.

Contents

CapacityProviderStrategy

The capacity provider strategy to use for the task.

If a `capacityProviderStrategy` is specified, the `launchType` parameter must be omitted. If no `capacityProviderStrategy` or `launchType` is specified, the `defaultCapacityProviderStrategy` for the cluster is used.

Type: Array of [CapacityProviderStrategyItem](#) (p. 180) objects

Array Members: Maximum number of 6 items.

Required: No

EnableECSTags

Specifies whether to enable Amazon ECS managed tags for the task. For more information, see [Tagging Your Amazon ECS Resources](#) in the Amazon Elastic Container Service Developer Guide.

Type: Boolean

Required: No

EnableExecuteCommand

Whether or not to enable the execute command functionality for the containers in this task. If true, this enables execute command functionality on all containers in the task.

Type: Boolean

Required: No

Group

Specifies an ECS task group for the task. The maximum length is 255 characters.

Type: String

Required: No

LaunchType

Specifies the launch type on which your task is running. The launch type that you specify here must match one of the launch type (compatibilities) of the target task. The `FARGATE` value is supported only in the Regions where AWS Fargate with Amazon ECS is supported. For more information, see [AWS Fargate on Amazon ECS](#) in the *Amazon Elastic Container Service Developer Guide*.

Type: String

Valid Values: `EC2` | `FARGATE` | `EXTERNAL`

Required: No

NetworkConfiguration

Use this structure if the Amazon ECS task uses the `awsvpc` network mode. This structure specifies the VPC subnets and security groups associated with the task, and whether a public IP address is to

be used. This structure is required if `LaunchType` is `FARGATE` because the `awsvpc` mode is required for Fargate tasks.

If you specify `NetworkConfiguration` when the target ECS task does not use the `awsvpc` network mode, the task fails.

Type: [NetworkConfiguration](#) (p. 210) object

Required: No

PlacementConstraints

An array of placement constraint objects to use for the task. You can specify up to 10 constraints per task (including constraints in the task definition and those specified at runtime).

Type: Array of [PlacementConstraint](#) (p. 213) objects

Array Members: Maximum number of 10 items.

Required: No

PlacementStrategy

The placement strategy objects to use for the task. You can specify a maximum of five strategy rules per task.

Type: Array of [PlacementStrategy](#) (p. 214) objects

Array Members: Maximum number of 5 items.

Required: No

PlatformVersion

Specifies the platform version for the task. Specify only the numeric portion of the platform version, such as `1.1.0`.

This structure is used only if `LaunchType` is `FARGATE`. For more information about valid platform versions, see [AWS Fargate Platform Versions](#) in the *Amazon Elastic Container Service Developer Guide*.

Type: String

Required: No

PropagateTags

Specifies whether to propagate the tags from the task definition to the task. If no value is specified, the tags are not propagated. Tags can only be propagated to the task during task creation. To add tags to a task after task creation, use the `TagResource` API action.

Type: String

Valid Values: `TASK_DEFINITION`

Required: No

ReferenceId

The reference ID to use for the task.

Type: String

Length Constraints: Maximum length of 1024.

Required: No

Tags

The metadata that you apply to the task to help you categorize and organize them. Each tag consists of a key and an optional value, both of which you define. To learn more, see [RunTask](#) in the Amazon ECS API Reference.

Type: Array of [Tag](#) (p. 236) objects

Required: No

TaskCount

The number of tasks to create based on `TaskDefinition`. The default is 1.

Type: Integer

Valid Range: Minimum value of 1.

Required: No

TaskDefinitionArn

The ARN of the task definition to use if the event target is an Amazon ECS task.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

Required: Yes

See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

EventBus

An event bus receives events from a source and routes them to rules associated with that event bus. Your account's default event bus receives events from AWS services. A custom event bus can receive events from your custom applications and services. A partner event bus receives events from an event source created by an SaaS partner. These events come from the partners services or applications.

Contents

Arn

The ARN of the event bus.

Type: String

Required: No

Name

The name of the event bus.

Type: String

Required: No

Policy

The permissions policy of the event bus, describing which other AWS accounts can write events to this event bus.

Type: String

Required: No

See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

EventSource

A partner event source is created by an SaaS partner. If a customer creates a partner event bus that matches this event source, that AWS account can receive events from the partner's applications or services.

Contents

Arn

The ARN of the event source.

Type: String

Required: No

CreatedBy

The name of the partner that created the event source.

Type: String

Required: No

CreationTime

The date and time the event source was created.

Type: Timestamp

Required: No

ExpirationTime

The date and time that the event source will expire, if the AWS account doesn't create a matching event bus for it.

Type: Timestamp

Required: No

Name

The name of the event source.

Type: String

Required: No

State

The state of the event source. If it is **ACTIVE**, you have already created a matching event bus for this event source, and that event bus is active. If it is **PENDING**, either you haven't yet created a matching event bus, or that event bus is deactivated. If it is **DELETED**, you have created a matching event bus, but the event source has since been deleted.

Type: String

Valid Values: **PENDING** | **ACTIVE** | **DELETED**

Required: No

See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

HttpParameters

These are custom parameter to be used when the target is an API Gateway REST APIs or EventBridge ApiDestinations. In the latter case, these are merged with any InvocationParameters specified on the Connection, with any values from the Connection taking precedence.

Contents

HeaderParameters

The headers that need to be sent as part of request invoking the API Gateway REST API or EventBridge ApiDestination.

Type: String to string map

Key Length Constraints: Maximum length of 512.

Key Pattern: `^[!#$%&'*+-.\^_`|~0-9a-zA-Z]+$`

Value Length Constraints: Maximum length of 512.

Value Pattern: `^[\t]*[\x20-\x7E]+([\ \t]+[\x20-\x7E]+)*[\t]*$`

Required: No

PathParameterValues

The path parameter values to be used to populate API Gateway REST API or EventBridge ApiDestination path wildcards ("*").

Type: Array of strings

Pattern: `^(?!\\s*$)\\.+`

Required: No

QueryStringParameters

The query string keys/values that need to be sent as part of request invoking the API Gateway REST API or EventBridge ApiDestination.

Type: String to string map

Key Length Constraints: Maximum length of 512.

Key Pattern: `^[^\\x00-\\x1F\\x7F]+$`

Value Length Constraints: Maximum length of 512.

Value Pattern: `^[^\\x00-\\x09\\x0B\\x0C\\x0E-\\x1F\\x7F]+$`

Required: No

See Also

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

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

- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

InputTransformer

Contains the parameters needed for you to provide custom input to a target based on one or more pieces of data extracted from the event.

Contents

InputPathsMap

Map of JSON paths to be extracted from the event. You can then insert these in the template in `InputTemplate` to produce the output you want to be sent to the target.

`InputPathsMap` is an array key-value pairs, where each value is a valid JSON path. You can have as many as 100 key-value pairs. You must use JSON dot notation, not bracket notation.

The keys cannot start with "AWS."

Type: String to string map

Map Entries: Maximum number of 100 items.

Key Length Constraints: Minimum length of 1. Maximum length of 256.

Key Pattern: `[A-Za-z0-9_\\-]+`

Value Length Constraints: Maximum length of 256.

Required: No

InputTemplate

Input template where you specify placeholders that will be filled with the values of the keys from `InputPathsMap` to customize the data sent to the target. Enclose each `InputPathsMaps` value in brackets: `<value>` The `InputTemplate` must be valid JSON.

If `InputTemplate` is a JSON object (surrounded by curly braces), the following restrictions apply:

- The placeholder cannot be used as an object key.

The following example shows the syntax for using `InputPathsMap` and `InputTemplate`.

```
"InputTransformer": {
  "InputPathsMap": { "instance": "$.detail.instance", "status":
    "$.detail.status" },
  "InputTemplate": "<instance> is in state <status>"
}
```

To have the `InputTemplate` include quote marks within a JSON string, escape each quote marks with a slash, as in the following example:

```
"InputTransformer": {
  "InputPathsMap": { "instance": "$.detail.instance", "status":
    "$.detail.status" },
```

```
"InputTemplate": "<instance> is in state \<status>\"  
}
```

The `InputTemplate` can also be valid JSON with variables in quotes or out, as in the following example:

```
"InputTransformer":  
{  
  "InputPathsMap": {"instance": "$.detail.instance", "status":  
    "$.detail.status"},  
  "InputTemplate": '{"myInstance": <instance>, "myStatus": "<instance> is in  
state \<status>\"}'  
}
```

Type: String

Length Constraints: Minimum length of 1. Maximum length of 8192.

Required: Yes

See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

KinesisParameters

This object enables you to specify a JSON path to extract from the event and use as the partition key for the Amazon Kinesis data stream, so that you can control the shard to which the event goes. If you do not include this parameter, the default is to use the `eventId` as the partition key.

Contents

PartitionKeyPath

The JSON path to be extracted from the event and used as the partition key. For more information, see [Amazon Kinesis Streams Key Concepts](#) in the *Amazon Kinesis Streams Developer Guide*.

Type: String

Length Constraints: Maximum length of 256.

Required: Yes

See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

NetworkConfiguration

This structure specifies the network configuration for an ECS task.

Contents

awsvpcConfiguration

Use this structure to specify the VPC subnets and security groups for the task, and whether a public IP address is to be used. This structure is relevant only for ECS tasks that use the `awsvpc` network mode.

Type: [AwsVpcConfiguration](#) (p. 176) object

Required: No

See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

PartnerEventSource

A partner event source is created by an SaaS partner. If a customer creates a partner event bus that matches this event source, that AWS account can receive events from the partner's applications or services.

Contents

Arn

The ARN of the partner event source.

Type: String

Required: No

Name

The name of the partner event source.

Type: String

Required: No

See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

PartnerEventSourceAccount

The AWS account that a partner event source has been offered to.

Contents

Account

The AWS account ID that the partner event source was offered to.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `\d{12}`

Required: No

CreationTime

The date and time the event source was created.

Type: Timestamp

Required: No

ExpirationTime

The date and time that the event source will expire, if the AWS account doesn't create a matching event bus for it.

Type: Timestamp

Required: No

State

The state of the event source. If it is `ACTIVE`, you have already created a matching event bus for this event source, and that event bus is active. If it is `PENDING`, either you haven't yet created a matching event bus, or that event bus is deactivated. If it is `DELETED`, you have created a matching event bus, but the event source has since been deleted.

Type: String

Valid Values: `PENDING` | `ACTIVE` | `DELETED`

Required: No

See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

PlacementConstraint

An object representing a constraint on task placement. To learn more, see [Task Placement Constraints](#) in the Amazon Elastic Container Service Developer Guide.

Contents

expression

A cluster query language expression to apply to the constraint. You cannot specify an expression if the constraint type is `distinctInstance`. To learn more, see [Cluster Query Language](#) in the Amazon Elastic Container Service Developer Guide.

Type: String

Length Constraints: Maximum length of 2000.

Required: No

type

The type of constraint. Use `distinctInstance` to ensure that each task in a particular group is running on a different container instance. Use `memberOf` to restrict the selection to a group of valid candidates.

Type: String

Valid Values: `distinctInstance` | `memberOf`

Required: No

See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

PlacementStrategy

The task placement strategy for a task or service. To learn more, see [Task Placement Strategies](#) in the Amazon Elastic Container Service Service Developer Guide.

Contents

field

The field to apply the placement strategy against. For the spread placement strategy, valid values are instanceld (or host, which has the same effect), or any platform or custom attribute that is applied to a container instance, such as attribute:ecs.availability-zone. For the binpack placement strategy, valid values are cpu and memory. For the random placement strategy, this field is not used.

Type: String

Length Constraints: Maximum length of 255.

Required: No

type

The type of placement strategy. The random placement strategy randomly places tasks on available candidates. The spread placement strategy spreads placement across available candidates evenly based on the field parameter. The binpack strategy places tasks on available candidates that have the least available amount of the resource that is specified with the field parameter. For example, if you binpack on memory, a task is placed on the instance with the least amount of remaining memory (but still enough to run the task).

Type: String

Valid Values: `random` | `spread` | `binpack`

Required: No

See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

PutEventsRequestEntry

Represents an event to be submitted.

Contents

Detail

A valid JSON string. There is no other schema imposed. The JSON string may contain fields and nested subobjects.

Type: String

Required: No

DetailType

Free-form string used to decide what fields to expect in the event detail.

Type: String

Required: No

EventBusName

The name or ARN of the event bus to receive the event. Only the rules that are associated with this event bus are used to match the event. If you omit this, the default event bus is used.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

Pattern: `(arn:aws[\w-]*:events:[a-z]{2}-[a-z]+-[\w-]+:[0-9]{12}:event-bus\/)?[\._\-_A-Za-z0-9]+`

Required: No

Resources

AWS resources, identified by Amazon Resource Name (ARN), which the event primarily concerns. Any number, including zero, may be present.

Type: Array of strings

Required: No

Source

The source of the event.

Type: String

Required: No

Time

The time stamp of the event, per [RFC3339](#). If no time stamp is provided, the time stamp of the [PutEvents](#) call is used.

Type: Timestamp

Required: No

TraceHeader

An AWS X-Ray trace header, which is an http header (X-Amzn-Trace-Id) that contains the trace-id associated with the event.

To learn more about X-Ray trace headers, see [Tracing header](#) in the AWS X-Ray Developer Guide.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 500.

Required: No

See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

PutEventsResultEntry

Represents an event that failed to be submitted. For information about the errors that are common to all actions, see [Common Errors](#).

Contents

ErrorCode

The error code that indicates why the event submission failed.

Type: String

Required: No

ErrorMessage

The error message that explains why the event submission failed.

Type: String

Required: No

EventId

The ID 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 V2](#)
- [AWS SDK for Ruby V3](#)

PutPartnerEventsRequestEntry

The details about an event generated by an SaaS partner.

Contents

Detail

A valid JSON string. There is no other schema imposed. The JSON string may contain fields and nested subobjects.

Type: String

Required: No

DetailType

A free-form string used to decide what fields to expect in the event detail.

Type: String

Required: No

Resources

AWS resources, identified by Amazon Resource Name (ARN), which the event primarily concerns. Any number, including zero, may be present.

Type: Array of strings

Required: No

Source

The event source that is generating the entry.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `aws\.partner(/[\.\\-_A-Za-z0-9]{1,256})`

Required: No

Time

The date and time of the event.

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 V2](#)

- [AWS SDK for Ruby V3](#)

PutPartnerEventsResultEntry

Represents an event that a partner tried to generate, but failed.

Contents

ErrorCode

The error code that indicates why the event submission failed.

Type: String

Required: No

ErrorMessage

The error message that explains why the event submission failed.

Type: String

Required: No

EventId

The ID 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 V2](#)
- [AWS SDK for Ruby V3](#)

PutTargetsResultEntry

Represents a target that failed to be added to a rule.

Contents

ErrorCode

The error code that indicates why the target addition failed. If the value is `ConcurrentModificationException`, too many requests were made at the same time.

Type: String

Required: No

ErrorMessage

The error message that explains why the target addition failed.

Type: String

Required: No

TargetId

The ID of the target.

Type: String

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

Pattern: `[\ . \ - \ _ A - Z a - z 0 - 9] +`

Required: No

See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

RedshiftDataParameters

These are custom parameters to be used when the target is a Amazon Redshift cluster to invoke the Amazon Redshift Data API ExecuteStatement based on EventBridge events.

Contents

Database

The name of the database. Required when authenticating using temporary credentials.

Type: String

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

Required: Yes

DbUser

The database user name. Required when authenticating using temporary credentials.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: No

SecretManagerArn

The name or ARN of the secret that enables access to the database. Required when authenticating using AWS Secrets Manager.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

Pattern: (`^arn:aws([a-z]|\-)*:secretsmanager:[a-z0-9-\.]+:.*`)|(`\$(\.[\w_-]+(\(\d+|\`*\`)\`)*\`)*`)

Required: No

Sql

The SQL statement text to run.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100000.

Required: Yes

StatementName

The name of the SQL statement. You can name the SQL statement when you create it to identify the query.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 500.

Required: No

WithEvent

Indicates whether to send an event back to EventBridge after the SQL statement runs.

Type: Boolean

Required: No

See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

RemoveTargetsResultEntry

Represents a target that failed to be removed from a rule.

Contents

ErrorCode

The error code that indicates why the target removal failed. If the value is `ConcurrentModificationException`, too many requests were made at the same time.

Type: String

Required: No

ErrorMessage

The error message that explains why the target removal failed.

Type: String

Required: No

TargetId

The ID of the target.

Type: String

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

Pattern: `[\ . \ - _ A - Z a - z 0 - 9] +`

Required: No

See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

Replay

A `Replay` object that contains details about a replay.

Contents

EventEndTime

A time stamp for the time to start replaying events. Any event with a creation time prior to the `EventEndTime` specified is replayed.

Type: Timestamp

Required: No

EventLastReplayedTime

A time stamp for the time that the last event was replayed.

Type: Timestamp

Required: No

EventSourceArn

The ARN of the archive to replay event from.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

Required: No

EventStartTime

A time stamp for the time to start replaying events. This is determined by the time in the event as described in [Time](#).

Type: Timestamp

Required: No

ReplayEndTime

A time stamp for the time that the replay completed.

Type: Timestamp

Required: No

ReplayName

The name of the replay.

Type: String

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

Pattern: [\ . \ - _ A - Z a - z 0 - 9] +

Required: No

ReplayStartTime

A time stamp for the time that the replay started.

Type: Timestamp

Required: No

State

The current state of the replay.

Type: String

Valid Values: `STARTING` | `RUNNING` | `CANCELLING` | `COMPLETED` | `CANCELLED` | `FAILED`

Required: No

StateReason

A description of why the replay is in the current state.

Type: String

Length Constraints: Maximum length of 512.

Pattern: `. *`

Required: No

See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ReplayDestination

A `ReplayDestination` object that contains details about a replay.

Contents

Arn

The ARN of the event bus to replay event to. You can replay events only to the event bus specified to create the archive.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

Required: Yes

FilterArns

A list of ARNs for rules to replay events to.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 1600.

Required: No

See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

RetryPolicy

A `RetryPolicy` object that includes information about the retry policy settings.

Contents

MaximumEventAgeInSeconds

The maximum amount of time, in seconds, to continue to make retry attempts.

Type: Integer

Valid Range: Minimum value of 60. Maximum value of 86400.

Required: No

MaximumRetryAttempts

The maximum number of retry attempts to make before the request fails. Retry attempts continue until either the maximum number of attempts is made or until the duration of the `MaximumEventAgeInSeconds` is met.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 185.

Required: No

See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

Rule

Contains information about a rule in Amazon EventBridge.

Contents

Arn

The Amazon Resource Name (ARN) of the rule.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

Required: No

Description

The description of the rule.

Type: String

Length Constraints: Maximum length of 512.

Required: No

EventBusName

The name or ARN of the event bus associated with the rule. If you omit this, the default event bus is used.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: [/\ . \ - _ A - Z a - z 0 - 9] +

Required: No

EventPattern

The event pattern of the rule. For more information, see [Events and Event Patterns](#) in the *Amazon EventBridge User Guide*.

Type: String

Required: No

ManagedBy

If the rule was created on behalf of your account by an AWS service, this field displays the principal name of the service that created the rule.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: No

Name

The name of the rule.

Type: String

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

Pattern: [\ . \ - _ A - Z a - z 0 - 9] +

Required: No

RoleArn

The Amazon Resource Name (ARN) of the role that is used for target invocation.

If you're setting an event bus in another account as the target and that account granted permission to your account through an organization instead of directly by the account ID, you must specify a `RoleArn` with proper permissions in the `Target` structure, instead of here in this parameter.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

Required: No

ScheduleExpression

The scheduling expression. For example, "cron(0 20 * * ? *)", "rate(5 minutes)". For more information, see [Creating an Amazon EventBridge rule that runs on a schedule](#).

Type: String

Length Constraints: Maximum length of 256.

Required: No

State

The state of the rule.

Type: String

Valid Values: `ENABLED` | `DISABLED`

Required: No

See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

RunCommandParameters

This parameter contains the criteria (either InstanceIds or a tag) used to specify which EC2 instances are to be sent the command.

Contents

RunCommandTargets

Currently, we support including only one RunCommandTarget block, which specifies either an array of InstanceIds or a tag.

Type: Array of [RunCommandTarget](#) (p. 232) objects

Array Members: Minimum number of 1 item. Maximum number of 5 items.

Required: Yes

See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

RunCommandTarget

Information about the EC2 instances that are to be sent the command, specified as key-value pairs. Each `RunCommandTarget` block can include only one key, but this key may specify multiple values.

Contents

Key

Can be either `tag`: *tag-key* or `InstanceIds`.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `^[\p{L} \p{Z} \p{N} _ . : / = + \ - @] * $`

Required: Yes

Values

If `Key` is `tag`: *tag-key*, `Values` is a list of tag values. If `Key` is `InstanceIds`, `Values` is a list of Amazon EC2 instance IDs.

Type: Array of strings

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

Length Constraints: Minimum length of 1. Maximum length of 256.

Required: Yes

See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

SageMakerPipelineParameter

Name/Value pair of a parameter to start execution of a SageMaker Model Building Pipeline.

Contents

Name

Name of parameter to start execution of a SageMaker Model Building Pipeline.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `^[a-zA-Z0-9](-*[a-zA-Z0-9])*$`

Required: Yes

Value

Value of parameter to start execution of a SageMaker Model Building Pipeline.

Type: String

Length Constraints: Maximum length of 1024.

Required: Yes

See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

SageMakerPipelineParameters

These are custom parameters to use when the target is a SageMaker Model Building Pipeline that starts based on EventBridge events.

Contents

PipelineParameterList

List of Parameter names and values for SageMaker Model Building Pipeline execution.

Type: Array of [SageMakerPipelineParameter](#) (p. 233) objects

Array Members: Minimum number of 0 items. Maximum number of 200 items.

Required: No

See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

SqsParameters

This structure includes the custom parameter to be used when the target is an SQS FIFO queue.

Contents

MessageGroupId

The FIFO message group ID to use as the target.

Type: String

Required: No

See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

Tag

A key-value pair associated with an AWS resource. In EventBridge, rules and event buses support tagging.

Contents

Key

A string you can use to assign a value. The combination of tag keys and values can help you organize and categorize your resources.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: Yes

Value

The value for the specified tag key.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 256.

Required: Yes

See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

Target

Targets are the resources to be invoked when a rule is triggered. For a complete list of services and resources that can be set as a target, see [PutTargets](#).

If you are setting the event bus of another account as the target, and that account granted permission to your account through an organization instead of directly by the account ID, then you must specify a `RoleArn` with proper permissions in the `Target` structure. For more information, see [Sending and Receiving Events Between AWS Accounts](#) in the *Amazon EventBridge User Guide*.

Contents

Arn

The Amazon Resource Name (ARN) of the target.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

Required: Yes

BatchParameters

If the event target is an AWS Batch job, this contains the job definition, job name, and other parameters. For more information, see [Jobs](#) in the *AWS Batch User Guide*.

Type: [BatchParameters](#) (p. 178) object

Required: No

DeadLetterConfig

The `DeadLetterConfig` that defines the target queue to send dead-letter queue events to.

Type: [DeadLetterConfig](#) (p. 198) object

Required: No

EcsParameters

Contains the Amazon ECS task definition and task count to be used, if the event target is an Amazon ECS task. For more information about Amazon ECS tasks, see [Task Definitions](#) in the *Amazon EC2 Container Service Developer Guide*.

Type: [EcsParameters](#) (p. 199) object

Required: No

HttpParameters

Contains the HTTP parameters to use when the target is a API Gateway REST endpoint or EventBridge ApiDestination.

If you specify an API Gateway REST API or EventBridge ApiDestination as a target, you can use this parameter to specify headers, path parameters, and query string keys/values as part of your target invoking request. If you're using ApiDestinations, the corresponding Connection can also have these values configured. In case of any conflicting keys, values from the Connection take precedence.

Type: [HttpParameters](#) (p. 205) object

Required: No

Id

The ID of the target within the specified rule. Use this ID to reference the target when updating the rule. We recommend using a memorable and unique string.

Type: String

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

Pattern: [\ . \ - _ A - Z a - z 0 - 9] +

Required: Yes

Input

Valid JSON text passed to the target. In this case, nothing from the event itself is passed to the target. For more information, see [The JavaScript Object Notation \(JSON\) Data Interchange Format](#).

Type: String

Length Constraints: Maximum length of 8192.

Required: No

InputPath

The value of the JSONPath that is used for extracting part of the matched event when passing it to the target. You must use JSON dot notation, not bracket notation. For more information about JSON paths, see [JSONPath](#).

Type: String

Length Constraints: Maximum length of 256.

Required: No

InputTransformer

Settings to enable you to provide custom input to a target based on certain event data. You can extract one or more key-value pairs from the event and then use that data to send customized input to the target.

Type: [InputTransformer](#) (p. 207) object

Required: No

KinesisParameters

The custom parameter you can use to control the shard assignment, when the target is a Kinesis data stream. If you do not include this parameter, the default is to use the `eventId` as the partition key.

Type: [KinesisParameters](#) (p. 209) object

Required: No

RedshiftDataParameters

Contains the Amazon Redshift Data API parameters to use when the target is a Amazon Redshift cluster.

If you specify a Amazon Redshift Cluster as a Target, you can use this to specify parameters to invoke the Amazon Redshift Data API `ExecuteStatement` based on EventBridge events.

Type: [RedshiftDataParameters](#) (p. 222) object

Required: No

RetryPolicy

The `RetryPolicy` object that contains the retry policy configuration to use for the dead-letter queue.

Type: [RetryPolicy \(p. 228\)](#) object

Required: No

RoleArn

The Amazon Resource Name (ARN) of the IAM role to be used for this target when the rule is triggered. If one rule triggers multiple targets, you can use a different IAM role for each target.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

Required: No

RunCommandParameters

Parameters used when you are using the rule to invoke Amazon EC2 Run Command.

Type: [RunCommandParameters \(p. 231\)](#) object

Required: No

SageMakerPipelineParameters

Contains the SageMaker Model Building Pipeline parameters to start execution of a SageMaker Model Building Pipeline.

If you specify a SageMaker Model Building Pipeline as a target, you can use this to specify parameters to start a pipeline execution based on EventBridge events.

Type: [SageMakerPipelineParameters \(p. 234\)](#) object

Required: No

SqsParameters

Contains the message group ID to use when the target is a FIFO queue.

If you specify an SQS FIFO queue as a target, the queue must have content-based deduplication enabled.

Type: [SqsParameters \(p. 235\)](#) object

Required: No

See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

UpdateConnectionApiKeyAuthRequestParameters

Contains the API key authorization parameters to use to update the connection.

Contents

ApiKeyName

The name of the API key to use for authorization.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Pattern: `^[\t]*[^\x00-\x1F:\x7F]+([\t]+[^\x00-\x1F:\x7F]+)*[\t]*$`

Required: No

ApiKeyValue

The value associated with the API key to use for authorization.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Pattern: `^[\t]*[^\x00-\x1F:\x7F]+([\t]+[^\x00-\x1F:\x7F]+)*[\t]*$`

Required: No

See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

UpdateConnectionAuthRequestParameters

Contains the additional parameters to use for the connection.

Contents

ApiKeyAuthParameters

A `UpdateConnectionApiKeyAuthRequestParameters` object that contains the authorization parameters for API key authorization.

Type: [UpdateConnectionApiKeyAuthRequestParameters](#) (p. 240) object

Required: No

BasicAuthParameters

A `UpdateConnectionBasicAuthRequestParameters` object that contains the authorization parameters for Basic authorization.

Type: [UpdateConnectionBasicAuthRequestParameters](#) (p. 242) object

Required: No

InvocationHttpParameters

A `ConnectionHttpParameters` object that contains the additional parameters to use for the connection.

Type: [ConnectionHttpParameters](#) (p. 189) object

Required: No

OAuthParameters

A `UpdateConnectionOAuthRequestParameters` object that contains the authorization parameters for OAuth authorization.

Type: [UpdateConnectionOAuthRequestParameters](#) (p. 244) object

Required: No

See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

UpdateConnectionBasicAuthRequestParameters

Contains the Basic authorization parameters for the connection.

Contents

Password

The password associated with the user name to use for Basic authorization.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Pattern: `^[\t]*[^\x00-\x1F:\x7F]+([\t]+[^\x00-\x1F:\x7F]+)*[\t]*$`

Required: No

Username

The user name to use for Basic authorization.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Pattern: `^[\t]*[^\x00-\x1F:\x7F]+([\t]+[^\x00-\x1F:\x7F]+)*[\t]*$`

Required: No

See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

UpdateConnectionOAuthClientRequestParameters

Contains the OAuth authorization parameters to use for the connection.

Contents

ClientID

The client ID to use for OAuth authorization.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Pattern: `^[\t]*[^\x00-\x1F:\x7F]+([\t]+[^\x00-\x1F:\x7F]+)*[\t]*$`

Required: No

ClientSecret

The client secret associated with the client ID to use for OAuth authorization.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Pattern: `^[\t]*[^\x00-\x1F:\x7F]+([\t]+[^\x00-\x1F:\x7F]+)*[\t]*$`

Required: No

See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

UpdateConnectionOAuthRequestParameters

Contains the OAuth request parameters to use for the connection.

Contents

AuthorizationEndpoint

The URL to the authorization endpoint when OAuth is specified as the authorization type.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `^((%[0-9A-Fa-f]{2}|[-()_.!~*';/?:@\x26=+$,A-Za-z0-9])+)([.!'"/?:,])?$`

Required: No

ClientParameters

A `UpdateConnectionOAuthClientRequestParameters` object that contains the client parameters to use for the connection when OAuth is specified as the authorization type.

Type: [UpdateConnectionOAuthClientRequestParameters](#) (p. 243) object

Required: No

HttpMethod

The method used to connect to the HTTP endpoint.

Type: String

Valid Values: `GET` | `POST` | `PUT`

Required: No

OAuthHttpParameters

The additional HTTP parameters used for the OAuth authorization request.

Type: [ConnectionHttpParameters](#) (p. 189) object

Required: No

See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

Making API Requests

Query requests used with EventBridge are HTTP or HTTPS requests that use the HTTP verb GET or POST and a Query parameter named `Action` or `Operation`. This documentation uses `Action`, although `Operation` is supported for backward compatibility.

EventBridge Endpoints

An endpoint is a URL that serves as an entry point for a web service. You can select a regional endpoint when you make your requests to reduce latency. For information about the endpoints used with EventBridge, see [Regions and Endpoints](#) in the *Amazon Web Services General Reference*.

Query Parameters

Each query request must include some common parameters to handle authentication and selection of an action. For more information, see [Common Parameters \(p. 247\)](#).

Some API operations take lists of parameters. These lists are specified using the following notation: `param.member.n`. Values of `n` are integers starting from 1. All lists of parameters must follow this notation, including lists that contain only one parameter. For example, a Query parameter list looks like this:

```
&attribute.member.1=this  
&attribute.member.2=that
```

Request Identifiers

In every response from an AWS Query API, there is a `ResponseMetadata` element, which contains a `RequestId` element. This string is a unique identifier that AWS assigns to provide tracking information. Although `RequestId` is included as part of every response, it is not listed on the individual API documentation pages to improve readability and to reduce redundancy.

Query API Authentication

You can send query requests over either HTTP or HTTPS. Regardless of which protocol you use, you must include a signature in every query request. For more information about creating and including a signature, see [Signing AWS API Requests](#) in the *Amazon Web Services General Reference*.

Available Libraries

AWS provides libraries, sample code, tutorials, and other resources for software developers who prefer to build applications using language-specific APIs instead of the command-line tools and Query API. These libraries provide basic functions (not included in the APIs), such as request authentication, request

retries, and error handling so that it is easier to get started. Libraries and resources are available for the following languages and platforms:

- [AWS Mobile SDK for Android](#)
- [AWS SDK for Go](#)
- [AWS Mobile SDK for iOS](#)
- [AWS SDK for Java 2.x](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for JavaScript in Node.js](#)
- [AWS SDK for .NET](#)
- [AWS SDK for PHP](#)
- [AWS SDK for Python \(Boto\)](#)
- [AWS SDK for Ruby](#)

For libraries and sample code in all languages, see [Sample Code & Libraries](#).

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'THHMMSS'Z'). For example, the following date time is a valid X-Amz-Date value: `20120325T120000Z`.

Condition: X-Amz-Date is optional for all requests; it can be used to override the date used for signing requests. If the Date header is specified in the ISO 8601 basic format, X-Amz-Date is

not required. When X-Amz-Date is used, it always overrides the value of the Date header. For more information, see [Handling Dates in Signature Version 4](#) in the *Amazon Web Services General Reference*.

Type: string

Required: Conditional

X-Amz-Security-Token

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

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

Type: string

Required: Conditional

X-Amz-Signature

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

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

Type: string

Required: Conditional

X-Amz-SignedHeaders

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

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

Type: string

Required: Conditional

Common Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 400

IncompleteSignature

The request signature does not conform to AWS standards.

HTTP Status Code: 400

InternalFailure

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

HTTP Status Code: 500

InvalidAction

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

HTTP Status Code: 400

InvalidClientTokenId

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

HTTP Status Code: 403

InvalidParameterCombination

Parameters that must not be used together were used together.

HTTP Status Code: 400

InvalidParameterValue

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

HTTP Status Code: 400

InvalidQueryParameter

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

HTTP Status Code: 400

MalformedQueryString

The query string contains a syntax error.

HTTP Status Code: 404

MissingAction

The request is missing an action or a required parameter.

HTTP Status Code: 400

MissingAuthenticationToken

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

HTTP Status Code: 403

MissingParameter

A required parameter for the specified action is not supplied.

HTTP Status Code: 400

NotAuthorized

You do not have permission to perform this action.

HTTP Status Code: 400

OptInRequired

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

HTTP Status Code: 403

RequestExpired

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

HTTP Status Code: 400

ServiceUnavailable

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

HTTP Status Code: 503

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 400

ValidationError

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

HTTP Status Code: 400