aws

API Reference

Amazon EventBridge

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Amazon EventBridge: API Reference

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Amazon EventBridge API Reference

Amazon EventBridge is a serverless service that uses events to connect application components together, making it easier for you to build scalable event-driven applications. Event-driven architecture is a style of building loosely-coupled software systems that work together by emitting and responding to events. Event-driven architecture can help you boost agility and build reliable, scalable applications.

Use EventBridge to route events from sources such as home-grown applications, AWS services, and third-party software to consumer applications across your organization. EventBridge provides simple and consistent ways to ingest, filter, transform, and deliver events so you can build applications quickly.

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

- Actions: An alphabetical list of all EventBridge actions
- Data Types: An alphabetical list of all EventBridge data types
- Common Parameters: Parameters that all Query actions can use
- Common Error Types: Client and server errors that all actions can return
- Regions and Endpoints: Supported Regions and endpoints for all AWS products

AWS SDK support for EventBridge

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

Additional EventBridge APIs

The following EventBridge capabilities are accessible through separate API models:

- EventBridge Pipes
- EventBridge Scheduler
- EventBridge Schemas

Actions

The following actions are supported:

- ActivateEventSource
- CancelReplay
- CreateApiDestination
- CreateArchive
- CreateConnection
- CreateEndpoint
- CreateEventBus
- CreatePartnerEventSource
- DeactivateEventSource
- DeauthorizeConnection
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- RemovePermission
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- StartReplay
- TagResource
- TestEventPattern
- UntagResource
- UpdateApiDestination
- UpdateArchive
- UpdateConnection
- UpdateEndpoint
- UpdateEventBus

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.

The request accepts the following data in JSON format.

Name

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 Error Types.

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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- 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.

The request accepts the following data in JSON format.

ReplayName

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

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

The current state of the replay.

Type: String

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

StateReason

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 Error Types.

ConcurrentModificationException

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

HTTP Status Code: 400

IllegalStatusException

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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- 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.

API destinations do not support private destinations, such as interface VPC endpoints.

For more information, see API destinations in the *EventBridge User Guide*.

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.

The request accepts the following data in JSON format.

ConnectionArn

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

A description for the API destination to create.

Type: String

Length Constraints: Maximum length of 512.

Pattern: `.*`

Required: No

HttpMethod

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

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

Required: Yes

InvocationRateLimitPerSecond

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

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

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

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

Type: String

Valid Values: `ACTIVE | INACTIVE`

CreationTime

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

Type: Timestamp

LastModifiedTime

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 Error Types.

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 V2
- AWS SDK for .NET V4

- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- 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.

> **Important**
>
> If you have specified that EventBridge use a customer managed key for encrypting the source event bus, we strongly recommend you also specify a customer managed key for any archives for the event bus as well.
> For more information, see Encrypting archives in the *Amazon EventBridge User Guide*.

Request Syntax

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

Request Parameters

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

The request accepts the following data in JSON format.

ArchiveName

The name for the archive to create.

Type: String

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

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

Required: Yes

Description

A description for the archive.

Type: String

Length Constraints: Maximum length of 512.

Pattern: `.*`

Required: No

EventPattern

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

Type: String

Length Constraints: Maximum length of 4096.

Required: No

EventSourceArn

The ARN of the event bus that sends events to 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})?:.+\/.+$`

Required: Yes

KmsKeyIdentifier

The identifier of the AWS KMS customer managed key for EventBridge to use, if you choose to use a customer managed key to encrypt this archive. The identifier can be the key Amazon Resource Name (ARN), KeyId, key alias, or key alias ARN.

If you do not specify a customer managed key identifier, EventBridge uses an AWS owned key to encrypt the archive.

For more information, see Identify and view keys in the *AWS Key Management Service Developer Guide*.

> **Important**
>
> If you have specified that EventBridge use a customer managed key for encrypting the source event bus, we strongly recommend you also specify a customer managed key for any archives for the event bus as well.
> For more information, see Encrypting archives in the *Amazon EventBridge User Guide*.

Type: String

Length Constraints: Maximum length of 2048.

Pattern: `^[a-zA-Z0-9_\-/:]*$`

Required: No

RetentionDays

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

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

The time at which the archive was created.

Type: Timestamp

State

The state of the archive that was created.

Type: String

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

StateReason

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 Error Types.

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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin

- 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.

For more information, see Connections for endpoint targets in the *Amazon EventBridge User Guide*.

Request Syntax

```
{
   "AuthorizationType": "string",
   "AuthParameters": {
      "ApiKeyAuthParameters": {
         "ApiKeyName": "string",
         "ApiKeyValue": "string"
      },
      "BasicAuthParameters": {
         "Password": "string",
         "Username": "string"
      },
      "ConnectivityParameters": {
         "ResourceParameters": {
            "ResourceConfigurationArn": "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",
"InvocationConnectivityParameters": {
   "ResourceParameters": {
      "ResourceConfigurationArn": "string"
   }
},
"KmsKeyIdentifier": "string",
```

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

Request Parameters

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

The request accepts the following data in JSON format.

AuthorizationType

The type of authorization to use for the connection.

> **Note**
>
> OAUTH tokens are refreshed when a 401 or 407 response is returned.

Type: String

Valid Values: `BASIC | OAUTH_CLIENT_CREDENTIALS | API_KEY`

Required: Yes

AuthParameters

The authorization parameters to use to authorize with the endpoint.

You must include only authorization parameters for the `AuthorizationType` you specify.

Type: CreateConnectionAuthRequestParameters object

Required: Yes

Description

A description for the connection to create.

Type: String

Length Constraints: Maximum length of 512.

Pattern: `.*`

Required: No

InvocationConnectivityParameters

For connections to private APIs, the parameters to use for invoking the API.

For more information, see Connecting to private APIs in the Amazon EventBridge User Guide .

Type: ConnectivityResourceParameters object

Required: No

KmsKeyIdentifier

The identifier of the AWS KMS customer managed key for EventBridge to use, if you choose to use a customer managed key to encrypt this connection. The identifier can be the key Amazon Resource Name (ARN), KeyId, key alias, or key alias ARN.

If you do not specify a customer managed key identifier, EventBridge uses an AWS owned key to encrypt the connection.

For more information, see Identify and view keys in the *AWS Key Management Service Developer Guide*.

Type: String

Length Constraints: Maximum length of 2048.

Pattern: `^[a-zA-Z0-9_\-/:]*$`

Required: No

Name

The name for the connection to create.

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,
   "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

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

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

Type: String

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

CreationTime

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

Type: Timestamp

LastModifiedTime

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 Error Types.

AccessDeniedException

You do not have the necessary permissions for this action.

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

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

ThrottlingException

This request cannot be completed due to throttling issues.

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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

CreateEndpoint

Creates a global endpoint. Global endpoints improve your application's availability by making it regional-fault tolerant. To do this, you define a primary and secondary Region with event buses in each Region. You also create a Amazon Route 53 health check that will tell EventBridge to route events to the secondary Region when an "unhealthy" state is encountered and events will be routed back to the primary Region when the health check reports a "healthy" state.

Request Syntax

```
{
   "Description": "string",
   "EventBuses": [
      {
         "EventBusArn": "string"
      }
   ],
   "Name": "string",
   "ReplicationConfig": {
      "State": "string"
   },
   "RoleArn": "string",
   "RoutingConfig": {
      "FailoverConfig": {
         "Primary": {
            "HealthCheck": "string"
         },
         "Secondary": {
            "Route": "string"
         }
      }
   }
}
```

Request Parameters

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

The request accepts the following data in JSON format.

Description

A description of the global endpoint.

Type: String

Length Constraints: Maximum length of 512.

Pattern: `.*`

Required: No

EventBuses

Define the event buses used.

> **Important**
> The names of the event buses must be identical in each Region.

Type: Array of EndpointEventBus objects

Array Members: Fixed number of 2 items.

Required: Yes

Name

The name of the global endpoint. For example, `"Name":"us-east-2-custom_bus_A-endpoint"`.

Type: String

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

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

Required: Yes

ReplicationConfig

Enable or disable event replication. The default state is `ENABLED` which means you must supply a `RoleArn`. If you don't have a `RoleArn` or you don't want event replication enabled, set the state to `DISABLED`.

Type: ReplicationConfig object

Required: No

RoleArn

The ARN of the role used for replication.

Type: String

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

Pattern: `^arn:aws[a-z-]*:iam::\d{12}:role\/[\w+=,.@/-]+$`

Required: No

RoutingConfig

Configure the routing policy, including the health check and secondary Region..

Type: RoutingConfig object

Required: Yes

Response Syntax

```
{
   "Arn": "string",
   "EventBuses": [
      {
         "EventBusArn": "string"
      }
   ],
   "Name": "string",
   "ReplicationConfig": {
      "State": "string"
   },
   "RoleArn": "string",
   "RoutingConfig": {
      "FailoverConfig": {
         "Primary": {
            "HealthCheck": "string"
         },
         "Secondary": {
```

```
            "Route": "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

The ARN of the endpoint that was created by this 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})?:endpoint\/[/\.\-_A-Za-z0-9]+$`

EventBuses

The event buses used by this request.

Type: Array of EndpointEventBus objects

Array Members: Fixed number of 2 items.

Name

The name of the endpoint that was created by this request.

Type: String

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

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

ReplicationConfig

Whether event replication was enabled or disabled by this request.

Type: ReplicationConfig object

RoleArn

The ARN of the role used by event replication for this request.

Type: String

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

Pattern: `^arn:aws[a-z-]*:iam::\d{12}:role\/[\w+=,.@/-]+$`

RoutingConfig

The routing configuration defined by this request.

Type: RoutingConfig object

State

The state of the endpoint that was created by this request.

Type: String

Valid Values: `ACTIVE | CREATING | UPDATING | DELETING | CREATE_FAILED | UPDATE_FAILED | DELETE_FAILED`

Errors

For information about the errors that are common to all actions, see Common Error Types.

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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- 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

```
{
   "DeadLetterConfig": {
      "Arn": "string"
   },
   "Description": "string",
   "EventSourceName": "string",
   "KmsKeyIdentifier": "string",
   "LogConfig": {
      "IncludeDetail": "string",
      "Level": "string"
   },
   "Name": "string",
   "Tags": [
      {
         "Key": "string",
         "Value": "string"
      }
   ]
}
```

Request Parameters

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

The request accepts the following data in JSON format.

DeadLetterConfig

Configuration details of the Amazon SQS queue for EventBridge to use as a dead-letter queue (DLQ).

For more information, see Using dead-letter queues to process undelivered events in the *EventBridge User Guide*.

Type: DeadLetterConfig object

Required: No

Description

The event bus description.

Type: String

Length Constraints: Maximum length of 512.

Required: No

EventSourceName

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

KmsKeyIdentifier

The identifier of the AWS KMS customer managed key for EventBridge to use, if you choose to use a customer managed key to encrypt events on this event bus. The identifier can be the key Amazon Resource Name (ARN), KeyId, key alias, or key alias ARN.

If you do not specify a customer managed key identifier, EventBridge uses an AWS owned key to encrypt events on the event bus.

For more information, see Identify and view keys in the *AWS Key Management Service Developer Guide*.

> **Note**
>
> Schema discovery is not supported for event buses encrypted using a customer managed key. EventBridge returns an error if:
>
> - You call `CreateDiscoverer` on an event bus set to use a customer managed key for encryption.

- You call `UpdatedEventBus` to set a customer managed key on an event bus with schema discovery enabled.

To enable schema discovery on an event bus, choose to use an AWS owned key. For more information, see Encrypting events in the *Amazon EventBridge User Guide*.

Important

If you have specified that EventBridge use a customer managed key for encrypting the source event bus, we strongly recommend you also specify a customer managed key for any archives for the event bus as well.
For more information, see Encrypting archives in the *Amazon EventBridge User Guide*.

Type: String

Length Constraints: Maximum length of 2048.

Pattern: `^[a-zA-Z0-9_\-/:]*$`

Required: No

LogConfig

The logging configuration settings for the event bus.

For more information, see Configuring logs for event buses in the *EventBridge User Guide*.

Type: LogConfig object

Required: No

Name

The name of the new event bus.

Custom event bus names can't contain the / character, but you can use the / character in partner event bus names. In addition, for partner event buses, the name must exactly match the name of the partner event source that this event bus is matched to.

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.

Type: String

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

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

Required: Yes

Tags

Tags to associate with the event bus.

Type: Array of Tag objects

Required: No

Response Syntax

```
{
   "DeadLetterConfig": {
      "Arn": "string"
   },
   "Description": "string",
   "EventBusArn": "string",
   "KmsKeyIdentifier": "string",
   "LogConfig": {
      "IncludeDetail": "string",
      "Level": "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.

DeadLetterConfig

Configuration details of the Amazon SQS queue for EventBridge to use as a dead-letter queue (DLQ).

For more information, see Using dead-letter queues to process undelivered events in the *EventBridge User Guide*.

Type: DeadLetterConfig object

Description

The event bus description.

Type: String

Length Constraints: Maximum length of 512.

EventBusArn

The ARN of the new event bus.

Type: String

KmsKeyIdentifier

The identifier of the AWS KMS customer managed key for EventBridge to use to encrypt events on this event bus, if one has been specified.

For more information, see Data encryption in EventBridge in the *Amazon EventBridge User Guide*.

Type: String

Length Constraints: Maximum length of 2048.

Pattern: `^[a-zA-Z0-9_\-/:]*$`

LogConfig

The logging configuration settings for the event bus.

For more information, see Configuring logs for event buses in the *EventBridge User Guide*.

Type: LogConfig object

Errors

For information about the errors that are common to all actions, see Common Error Types.

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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- 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 *event_name* must be unique across all AWS customers. This is because the event source is a shared resource between the partner and customer accounts, and each partner event source unique in the partner account.

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.

The request accepts the following data in JSON format.

Account

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

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

The ARN of the partner event source.

Type: String

Errors

For information about the errors that are common to all actions, see Common Error Types.

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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- 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.

The request accepts the following data in JSON format.

Name

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 Error Types.

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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin

- 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.

The request accepts the following data in JSON format.

Name

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

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

The state of the connection.

Type: String

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

CreationTime

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

Type: Timestamp

LastAuthorizedTime

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

Type: Timestamp

LastModifiedTime

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 Error Types.

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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- 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.

The request accepts the following data in JSON format.

Name

The name of the destination to delete.

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 Error Types.

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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- 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.

The request accepts the following data in JSON format.

ArchiveName

The name of the archive to delete.

Type: String

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

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 Error Types.

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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- 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.

The request accepts the following data in JSON format.

Name

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

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

The state of the connection before it was deleted.

Type: String

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

CreationTime

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

Type: Timestamp

LastAuthorizedTime

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

Type: Timestamp

LastModifiedTime

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 Error Types.

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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DeleteEndpoint

Delete an existing global endpoint. For more information about global endpoints, see Making applications Regional-fault tolerant with global endpoints and event replication in the Amazon EventBridge User Guide .

Request Syntax

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

Request Parameters

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

The request accepts the following data in JSON format.

Name

The name of the endpoint you want to delete. For example, `"Name":"us-east-2-custom_bus_A-endpoint"`..

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 Error Types.

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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- 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.

The request accepts the following data in JSON format.

Name

The name of the event bus to delete.

Type: String

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

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 Error Types.

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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- 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.

The request accepts the following data in JSON format.

Account

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

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 Error Types.

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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin

- 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.

The request accepts the following data in JSON format.

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 1600.

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

Required: No

Force

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

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 Error Types.

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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- 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.

The request accepts the following data in JSON format.

Name

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

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

The state of the API destination retrieved.

Type: String

Valid Values: `ACTIVE | INACTIVE`

ConnectionArn

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

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

Type: Timestamp

Description

The description for the API destination retrieved.

Type: String

Length Constraints: Maximum length of 512.

Pattern: `.*`

HttpMethod

The method to use to connect to the HTTP endpoint.

Type: String

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

InvocationEndpoint

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

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

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

Type: Timestamp

Name

The name of the API destination retrieved.

Type: String

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

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

Errors

For information about the errors that are common to all actions, see Common Error Types.

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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- 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.

The request accepts the following data in JSON format.

ArchiveName

The name of the archive to retrieve.

Type: String

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

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

Required: Yes

Response Syntax

```
{
   "ArchiveArn": "string",
   "ArchiveName": "string",
   "CreationTime": number,
   "Description": "string",
   "EventCount": number,
   "EventPattern": "string",
   "EventSourceArn": "string",
   "KmsKeyIdentifier": "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

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

The name of the archive.

Type: String

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

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

CreationTime

The time at which the archive was created.

Type: Timestamp

Description

The description of the archive.

Type: String

Length Constraints: Maximum length of 512.

Pattern: `.*`

EventCount

The number of events in the archive.

Type: Long

EventPattern

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

Type: String

Length Constraints: Maximum length of 4096.

EventSourceArn

The ARN of the event source associated with 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})?:.+\/.+$`

KmsKeyIdentifier

The identifier of the AWS KMS customer managed key for EventBridge to use to encrypt this archive, if one has been specified.

For more information, see Encrypting archives in the *Amazon EventBridge User Guide*.

Type: String

Length Constraints: Maximum length of 2048.

Pattern: `^[a-zA-Z0-9_\-/:]*$`

RetentionDays

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

Type: Integer

Valid Range: Minimum value of 0.

SizeBytes

The size of the archive in bytes.

Type: Long

State

The state of the archive.

Type: String

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

StateReason

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 Error Types.

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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- 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.

The request accepts the following data in JSON format.

Name

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"
      },
      "ConnectivityParameters": {
         "ResourceParameters": {
            "ResourceAssociationArn": "string",
```

```
            "ResourceConfigurationArn": "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",
  "InvocationConnectivityParameters": {
    "ResourceParameters": {
      "ResourceAssociationArn": "string",
      "ResourceConfigurationArn": "string"
    }
  },
  "KmsKeyIdentifier": "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

The type of authorization specified for the connection.

Type: String

Valid Values: `BASIC | OAUTH_CLIENT_CREDENTIALS | API_KEY`

AuthParameters

The parameters to use for authorization for the connection.

Type: ConnectionAuthResponseParameters object

ConnectionArn

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

The state of the connection retrieved.

Type: String

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

CreationTime

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

Type: Timestamp

Description

The description for the connection retrieved.

Type: String

Length Constraints: Maximum length of 512.

Pattern: `.*`

InvocationConnectivityParameters

For connections to private APIs The parameters EventBridge uses to invoke the resource endpoint.

For more information, see Connecting to private APIs in the Amazon EventBridge User Guide .

Type: DescribeConnectionConnectivityParameters object

KmsKeyIdentifier

The identifier of the AWS KMS customer managed key for EventBridge to use to encrypt the connection, if one has been specified.

For more information, see Encrypting connections in the *Amazon EventBridge User Guide*.

Type: String

Length Constraints: Maximum length of 2048.

Pattern: `^[a-zA-Z0-9_\-/:]*$`

LastAuthorizedTime

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

Type: Timestamp

LastModifiedTime

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

Type: Timestamp

Name

The name of the connection retrieved.

Type: String

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

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

SecretArn

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

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 Error Types.

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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3

- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DescribeEndpoint

Get the information about an existing global endpoint. For more information about global endpoints, see Making applications Regional-fault tolerant with global endpoints and event replication in the Amazon EventBridge User Guide .

Request Syntax

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

Request Parameters

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

The request accepts the following data in JSON format.

HomeRegion

The primary Region of the endpoint you want to get information about. For example `"HomeRegion": "us-east-1"`.

Type: String

Length Constraints: Minimum length of 9. Maximum length of 20.

Pattern: `^[\-a-z0-9]+$`

Required: No

Name

The name of the endpoint you want to get information about. For example, `"Name":"us-east-2-custom_bus_A-endpoint"`.

Type: String

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

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

Required: Yes

Response Syntax

```
{
   "Arn": "string",
   "CreationTime": number,
   "Description": "string",
   "EndpointId": "string",
   "EndpointUrl": "string",
   "EventBuses": [
      {
         "EventBusArn": "string"
      }
   ],
   "LastModifiedTime": number,
   "Name": "string",
   "ReplicationConfig": {
      "State": "string"
   },
   "RoleArn": "string",
   "RoutingConfig": {
      "FailoverConfig": {
         "Primary": {
            "HealthCheck": "string"
         },
         "Secondary": {
            "Route": "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.

Arn

The ARN of the endpoint you asked for information about.

Type: String

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

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

CreationTime

The time the endpoint you asked for information about was created.

Type: Timestamp

Description

The description of the endpoint you asked for information about.

Type: String

Length Constraints: Maximum length of 512.

Pattern: `.*`

EndpointId

The ID of the endpoint you asked for information about.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 50.

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

EndpointUrl

The URL of the endpoint you asked for information about.

Type: String

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

Pattern: `^(https://)?[\.\-a-z0-9]+$`

EventBuses

The event buses being used by the endpoint you asked for information about.

Type: Array of EndpointEventBus objects

Array Members: Fixed number of 2 items.

LastModifiedTime

The last time the endpoint you asked for information about was modified.

Type: Timestamp

Name

The name of the endpoint you asked for information about.

Type: String

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

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

ReplicationConfig

Whether replication is enabled or disabled for the endpoint you asked for information about.

Type: ReplicationConfig object

RoleArn

The ARN of the role used by the endpoint you asked for information about.

Type: String

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

Pattern: `^arn:aws[a-z-]*:iam::\d{12}:role\/[\w+=,.@/-]+$`

RoutingConfig

The routing configuration of the endpoint you asked for information about.

Type: RoutingConfig object

State

The current state of the endpoint you asked for information about.

Type: String

Valid Values: `ACTIVE | CREATING | UPDATING | DELETING | CREATE_FAILED | UPDATE_FAILED | DELETE_FAILED`

StateReason

The reason the endpoint you asked for information about is in its current state.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Pattern: `.*`

Errors

For information about the errors that are common to all actions, see Common Error Types.

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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2

- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- 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.

The request accepts the following data in JSON format.

Name

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]+-[a-z]+-[\w-]+:[0-9]{12}:event-bus\/)?[/\.\-_A-Za-z0-9]+`

Required: No

Response Syntax

```
{
```

```
   "Arn": "string",
   "CreationTime": number,
   "DeadLetterConfig": {
      "Arn": "string"
   },
   "Description": "string",
   "KmsKeyIdentifier": "string",
   "LastModifiedTime": number,
   "LogConfig": {
      "IncludeDetail": "string",
      "Level": "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

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

Type: String

CreationTime

The time the event bus was created.

Type: Timestamp

DeadLetterConfig

Configuration details of the Amazon SQS queue for EventBridge to use as a dead-letter queue (DLQ).

For more information, see Using dead-letter queues to process undelivered events in the *EventBridge User Guide*.

Type: DeadLetterConfig object

Description

The event bus description.

Type: String

Length Constraints: Maximum length of 512.

KmsKeyIdentifier

The identifier of the AWS KMS customer managed key for EventBridge to use to encrypt events on this event bus, if one has been specified.

For more information, see Data encryption in EventBridge in the *Amazon EventBridge User Guide*.

Type: String

Length Constraints: Maximum length of 2048.

Pattern: `^[a-zA-Z0-9_\-/:]*$`

LastModifiedTime

The time the event bus was last modified.

Type: Timestamp

LogConfig

The logging configuration settings for the event bus.

For more information, see Configuring logs for event buses in the *EventBridge User Guide*.

Type: LogConfig object

Name

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

Type: String

Policy

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 Error Types.

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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- 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.

The request accepts the following data in JSON format.

Name

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

The ARN of the partner event source.

Type: String

CreatedBy

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

Type: String

CreationTime

The date and time that the event source was created.

Type: Timestamp

ExpirationTime

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

Type: Timestamp

Name

The name of the partner event source.

Type: String

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`

Errors

For information about the errors that are common to all actions, see Common Error Types.

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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- 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.

The request accepts the following data in JSON format.

Name

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

The ARN of the event source.

Type: String

Name

The name of the event source.

Type: String

Errors

For information about the errors that are common to all actions, see Common Error Types.

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 V2
- AWS SDK for .NET V4

- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- 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.

The request accepts the following data in JSON format.

ReplayName

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

The description of the replay.

Type: String

Length Constraints: Maximum length of 512.

Pattern: `.*`

Destination

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

Type: ReplayDestination object

EventEndTime

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

Type: Timestamp

EventLastReplayedTime

The time that the event was last replayed.

Type: Timestamp

EventSourceArn

The ARN of the archive events were replayed 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})?:.+\/.+$`

EventStartTime

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

Type: Timestamp

ReplayArn

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

A time stamp for the time that the replay stopped.

Type: Timestamp

ReplayName

The name of the replay.

Type: String

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

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

ReplayStartTime

A time stamp for the time that the replay started.

Type: Timestamp

State

The current state of the replay.

Type: String

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

StateReason

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 Error Types.

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 V2

- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- 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.

The request accepts the following data in JSON format.

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 1600.

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

Required: No

Name

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

The Amazon Resource Name (ARN) of the rule.

Type: String

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

CreatedBy

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

The description of the rule.

Type: String

Length Constraints: Maximum length of 512.

EventBusName

The name of the event bus associated with the rule.

Type: String

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

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

EventPattern

The event pattern. For more information, see Events and Event Patterns in the Amazon EventBridge User Guide .

Type: String

Length Constraints: Maximum length of 4096.

ManagedBy

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

The name of the rule.

Type: String

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

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

RoleArn

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

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

Type: String

Length Constraints: Maximum length of 256.

State

Specifies whether the rule is enabled or disabled.

Type: String

Valid Values: `ENABLED | DISABLED | ENABLED_WITH_ALL_CLOUDTRAIL_MANAGEMENT_EVENTS`

Errors

For information about the errors that are common to all actions, see Common Error Types.

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 V2

- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- 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.

The request accepts the following data in JSON format.

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 1600.

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

Required: No

Name

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 Error Types.

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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- 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.

The request accepts the following data in JSON format.

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 1600.

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

Required: No

Name

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 Error Types.

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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- 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.

The request accepts the following data in JSON format.

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

Limit

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

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

The token returned by a previous call, which you can use to retrieve the next set of results.

The value of `nextToken` is a unique pagination token for each page. To retrieve the next page of results, make the call again using the returned token. Keep all other arguments unchanged.

Using an expired pagination token results in an `HTTP 400 InvalidToken` error.

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

An array that includes information about each API destination.

Type: Array of ApiDestination objects

NextToken

A token indicating there are more results available. If there are no more results, no token is included in the response.

The value of `nextToken` is a unique pagination token for each page. To retrieve the next page of results, make the call again using the returned token. Keep all other arguments unchanged.

Using an expired pagination token results in an `HTTP 400 InvalidToken` error.

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 Error Types.

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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- 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.

The request accepts the following data in JSON format.

EventSourceArn

The ARN of the event source associated with 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})?:.+\/.+$`

Required: No

Limit

The maximum number of results to return.

Type: Integer

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

Required: No

NamePrefix

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-Za-z0-9]+`

Required: No

NextToken

The token returned by a previous call, which you can use to retrieve the next set of results.

The value of `nextToken` is a unique pagination token for each page. To retrieve the next page of results, make the call again using the returned token. Keep all other arguments unchanged.

Using an expired pagination token results in an `HTTP 400 InvalidToken` error.

Type: String

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

Required: No

State

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

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

Type: Array of Archive objects

NextToken

A token indicating there are more results available. If there are no more results, no token is included in the response.

The value of `nextToken` is a unique pagination token for each page. To retrieve the next page of results, make the call again using the returned token. Keep all other arguments unchanged.

Using an expired pagination token results in an `HTTP 400 InvalidToken` error.

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 Error Types.

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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- 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.

The request accepts the following data in JSON format.

ConnectionState

The state of the connection.

Type: String

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

Required: No

Limit

The maximum number of connections to return.

Type: Integer

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

Required: No

NamePrefix

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

The token returned by a previous call, which you can use to retrieve the next set of results.

The value of `nextToken` is a unique pagination token for each page. To retrieve the next page of results, make the call again using the returned token. Keep all other arguments unchanged.

Using an expired pagination token results in an `HTTP 400 InvalidToken` error.

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

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

Type: Array of Connection objects

NextToken

A token indicating there are more results available. If there are no more results, no token is included in the response.

The value of `nextToken` is a unique pagination token for each page. To retrieve the next page of results, make the call again using the returned token. Keep all other arguments unchanged.

Using an expired pagination token results in an `HTTP 400 InvalidToken` error.

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 Error Types.

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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2

- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ListEndpoints

List the global endpoints associated with this account. For more information about global endpoints, see Making applications Regional-fault tolerant with global endpoints and event replication in the Amazon EventBridge User Guide .

Request Syntax

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

Request Parameters

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

The request accepts the following data in JSON format.

HomeRegion

The primary Region of the endpoints associated with this account. For example `"HomeRegion": "us-east-1"`.

Type: String

Length Constraints: Minimum length of 9. Maximum length of 20.

Pattern: `^[\-a-z0-9]+$`

Required: No

MaxResults

The maximum number of results returned by the call.

Type: Integer

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

Required: No

NamePrefix

A value that will return a subset of the endpoints associated with this account. For example, `"NamePrefix": "ABC"` will return all endpoints with "ABC" in the name.

Type: String

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

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

Required: No

NextToken

The token returned by a previous call, which you can use to retrieve the next set of results.

The value of `nextToken` is a unique pagination token for each page. To retrieve the next page of results, make the call again using the returned token. Keep all other arguments unchanged.

Using an expired pagination token results in an `HTTP 400 InvalidToken` error.

Type: String

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

Required: No

Response Syntax

```
{
   "Endpoints": [
      {
         "Arn": "string",
         "CreationTime": number,
         "Description": "string",
         "EndpointId": "string",
         "EndpointUrl": "string",
         "EventBuses": [
            {
               "EventBusArn": "string"
```

```
            }
         ],
         "LastModifiedTime": number,
         "Name": "string",
         "ReplicationConfig": {
            "State": "string"
         },
         "RoleArn": "string",
         "RoutingConfig": {
            "FailoverConfig": {
               "Primary": {
                  "HealthCheck": "string"
               },
               "Secondary": {
                  "Route": "string"
               }
            }
         },
         "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.

Endpoints

The endpoints returned by the call.

Type: Array of Endpoint objects

NextToken

A token indicating there are more results available. If there are no more results, no token is included in the response.

The value of `nextToken` is a unique pagination token for each page. To retrieve the next page of results, make the call again using the returned token. Keep all other arguments unchanged.

Using an expired pagination token results in an `HTTP 400 InvalidToken` error.

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 Error Types.

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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- 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.

The request accepts the following data in JSON format.

Limit

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

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-Za-z0-9]+`

Required: No

NextToken

The token returned by a previous call, which you can use to retrieve the next set of results.

The value of `nextToken` is a unique pagination token for each page. To retrieve the next page of results, make the call again using the returned token. Keep all other arguments unchanged.

Using an expired pagination token results in an `HTTP 400 InvalidToken` error.

Type: String

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

Required: No

Response Syntax

```
{
   "EventBuses": [
      {
         "Arn": "string",
         "CreationTime": number,
         "Description": "string",
         "LastModifiedTime": number,
         "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

This list of event buses.

Type: Array of EventBus objects

NextToken

A token indicating there are more results available. If there are no more results, no token is included in the response.

The value of `nextToken` is a unique pagination token for each page. To retrieve the next page of results, make the call again using the returned token. Keep all other arguments unchanged.

Using an expired pagination token results in an `HTTP 400 InvalidToken` error.

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 Error Types.

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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- 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.

The request accepts the following data in JSON format.

Limit

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

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-Za-z0-9]+`

Required: No

NextToken

The token returned by a previous call, which you can use to retrieve the next set of results.

The value of `nextToken` is a unique pagination token for each page. To retrieve the next page of results, make the call again using the returned token. Keep all other arguments unchanged.

Using an expired pagination token results in an `HTTP 400 InvalidToken` error.

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

The list of event sources.

Type: Array of EventSource objects

NextToken

A token indicating there are more results available. If there are no more results, no token is included in the response.

The value of `nextToken` is a unique pagination token for each page. To retrieve the next page of results, make the call again using the returned token. Keep all other arguments unchanged.

Using an expired pagination token results in an `HTTP 400 InvalidToken` error.

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 Error Types.

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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2

- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- 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.

The request accepts the following data in JSON format.

EventSourceName

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

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

The token returned by a previous call, which you can use to retrieve the next set of results.

The value of `nextToken` is a unique pagination token for each page. To retrieve the next page of results, make the call again using the returned token. Keep all other arguments unchanged.

Using an expired pagination token results in an `HTTP 400 InvalidToken` error.

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

A token indicating there are more results available. If there are no more results, no token is included in the response.

The value of `nextToken` is a unique pagination token for each page. To retrieve the next page of results, make the call again using the returned token. Keep all other arguments unchanged.

Using an expired pagination token results in an `HTTP 400 InvalidToken` error.

Type: String

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

PartnerEventSourceAccounts

The list of partner event sources returned by the operation.

Type: Array of PartnerEventSourceAccount objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

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 V2
- AWS SDK for .NET V4
- AWS SDK for C++

- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- 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.

The request accepts the following data in JSON format.

Limit

pecifying 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

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

The token returned by a previous call, which you can use to retrieve the next set of results.

The value of `nextToken` is a unique pagination token for each page. To retrieve the next page of results, make the call again using the returned token. Keep all other arguments unchanged.

Using an expired pagination token results in an `HTTP 400 InvalidToken` error.

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

A token indicating there are more results available. If there are no more results, no token is included in the response.

The value of `nextToken` is a unique pagination token for each page. To retrieve the next page of results, make the call again using the returned token. Keep all other arguments unchanged.

Using an expired pagination token results in an `HTTP 400 InvalidToken` error.

Type: String

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

PartnerEventSources

The list of partner event sources returned by the operation.

Type: Array of PartnerEventSource objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin

- 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.

The request accepts the following data in JSON format.

EventSourceArn

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

Type: String

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

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

Required: No

Limit

The maximum number of replays to retrieve.

Type: Integer

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

Required: No

NamePrefix

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-Za-z0-9]+`

Required: No

NextToken

The token returned by a previous call, which you can use to retrieve the next set of results.

The value of `nextToken` is a unique pagination token for each page. To retrieve the next page of results, make the call again using the returned token. Keep all other arguments unchanged.

Using an expired pagination token results in an `HTTP 400 InvalidToken` error.

Type: String

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

Required: No

State

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

A token indicating there are more results available. If there are no more results, no token is included in the response.

The value of `nextToken` is a unique pagination token for each page. To retrieve the next page of results, make the call again using the returned token. Keep all other arguments unchanged.

Using an expired pagination token results in an `HTTP 400 InvalidToken` error.

Type: String

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

Replays

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

Type: Array of Replay objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- 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.

The maximum number of results per page for requests is 100.

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.

The request accepts the following data in JSON format.

EventBusName

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]+-[a-z]+-[\w-]+:[0-9]{12}:event-bus\/)?[/\.\-_A-Za-z0-9]+`

Required: No

Limit

The maximum number of results to return.

Type: Integer

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

Required: No

NextToken

The token returned by a previous call, which you can use to retrieve the next set of results.

The value of `nextToken` is a unique pagination token for each page. To retrieve the next page of results, make the call again using the returned token. Keep all other arguments unchanged.

Using an expired pagination token results in an `HTTP 400 InvalidToken` error.

Type: String

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

Required: No

TargetArn

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

A token indicating there are more results available. If there are no more results, no token is included in the response.

The value of `nextToken` is a unique pagination token for each page. To retrieve the next page of results, make the call again using the returned token. Keep all other arguments unchanged.

Using an expired pagination token results in an `HTTP 400 InvalidToken` error.

Type: String

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

RuleNames

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-Za-z0-9]+`

Errors

For information about the errors that are common to all actions, see Common Error Types.

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 V2
- AWS SDK for .NET V4

- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- 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.

The maximum number of results per page for requests is 100.

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.

The request accepts the following data in JSON format.

EventBusName

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]+-[a-z]+-[\w-]+:[0-9]{12}:event-bus\/)?[/\.\-_A-Za-z0-9]+`

Required: No

Limit

The maximum number of results to return.

Type: Integer

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

Required: No

NamePrefix

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

The token returned by a previous call, which you can use to retrieve the next set of results.

The value of `nextToken` is a unique pagination token for each page. To retrieve the next page of results, make the call again using the returned token. Keep all other arguments unchanged.

Using an expired pagination token results in an `HTTP 400 InvalidToken` error.

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

A token indicating there are more results available. If there are no more results, no token is included in the response.

The value of `nextToken` is a unique pagination token for each page. To retrieve the next page of results, make the call again using the returned token. Keep all other arguments unchanged.

Using an expired pagination token results in an `HTTP 400 InvalidToken` error.

Type: String

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

Rules

The rules that match the specified criteria.

Type: Array of Rule objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

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
+p2QgY36pjlAqsSsrkNbOtTePaCeJqN8O
+jbu66UhpJh7huA9r0iY9zjdtZ3vsAAAAgAAAAAAAAAAF5MZWktllmMuLd9gUjryM4sL9EG5IkcPUm60Vq1tzyYw=="
}
```


See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- 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.

The request accepts the following data in JSON format.

ResourceARN

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

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

Type: Array of Tag objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin

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

ListTargetsByRule

Lists the targets assigned to the specified rule.

The maximum number of results per page for requests is 100.

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.

The request accepts the following data in JSON format.

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 1600.

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

Required: No

Limit

The maximum number of results to return.

Type: Integer

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

Required: No

NextToken

The token returned by a previous call, which you can use to retrieve the next set of results.

The value of `nextToken` is a unique pagination token for each page. To retrieve the next page of results, make the call again using the returned token. Keep all other arguments unchanged.

Using an expired pagination token results in an `HTTP 400 InvalidToken` error.

Type: String

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

Required: No

Rule

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": [
      {
         "AppSyncParameters": {
            "GraphQLOperation": "string"
         },
         "Arn": "string",
         "BatchParameters": {
            "ArrayProperties": {
               "Size": number
            },
            "JobDefinition": "string",
            "JobName": "string",
            "RetryStrategy": {
```

```
            "Attempts": number
         }
      },
      "DeadLetterConfig": {
         "Arn": "string"
      },
      "EcsParameters": {
         "CapacityProviderStrategy": [
            {
               "base": number,
               "capacityProvider": "string",
               "weight": number
            }
         ],
         "EnableECSManagedTags": 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",
         "Sqls": [ "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

A token indicating there are more results available. If there are no more results, no token is included in the response.

The value of `nextToken` is a unique pagination token for each page. To retrieve the next page of results, make the call again using the returned token. Keep all other arguments unchanged.

Using an expired pagination token results in an `HTTP 400 InvalidToken` error.

Type: String

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

Targets

The targets assigned to the rule.

Type: Array of Target 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 Error Types.

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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- 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.

You can batch multiple event entries into one request for efficiency. However, the total entry size must be less than 1MB. You can calculate the entry size before you send the events. For more information, see Calculating PutEvents event entry size in the Amazon EventBridge User Guide .

PutEvents accepts the data in JSON format. For the JSON number (integer) data type, the constraints are: a minimum value of -9,223,372,036,854,775,808 and a maximum value of 9,223,372,036,854,775,807.

> **Note**
>
> PutEvents will only process nested JSON up to 1000 levels deep.

Request Syntax

```
{
   "EndpointId": "string",
   "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.

The request accepts the following data in JSON format.

EndpointId

The URL subdomain of the endpoint. For example, if the URL for Endpoint is https://abcde.veo.endpoints.event.amazonaws.com, then the EndpointId is `abcde.veo`.

> **Important**
>
> When using Java, you must include `auth-crt` on the class path.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 50.

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

Required: No

Entries

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 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

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.

For each record, the index of the response element is the same as the index in the request array.

Type: Array of PutEventsResultEntry objects

FailedEntryCount

The number of failed entries.

Type: Integer

Errors

For information about the errors that are common to all actions, see Common Error Types.

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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- 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.

For information on calculating event batch size, see Calculating EventBridge PutEvents event entry size in the *EventBridge User Guide*.

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.

The request accepts the following data in JSON format.

Entries

The list of events to write to the event bus.

Type: Array of PutPartnerEventsRequestEntry 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

The results for each event entry the partner submitted in this request. If the event was successfully submitted, 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.

For each record, the index of the response element is the same as the index in the request array.

Type: Array of PutPartnerEventsResultEntry objects

FailedEntryCount

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 Error Types.

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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- 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 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.

The request accepts the following data in JSON format.

Action

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

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 object

Required: No

EventBusName

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-Za-z0-9]+`

Required: No

Policy

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

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{12}|\*)`

Required: No

StatementId

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-zA-Z0-9-_]+`

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 Error Types.

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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- 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.

To create a rule that filters for management events from AWS services, see Receiving read-only management events from AWS services in the *EventBridge User Guide*.

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.

The request accepts the following data in JSON format.

Description

A description of the rule.

Type: String

Length Constraints: Maximum length of 512.

Required: No

EventBusName

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]+-[a-z]+-[\w-]+:[0-9]{12}:event-bus\/)?[/\.\-_A-Za-z0-9]+`

Required: No

EventPattern

The event pattern. For more information, see Amazon EventBridge event patterns in the Amazon EventBridge User Guide .

Type: String

Length Constraints: Maximum length of 4096.

Required: No

Name

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

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

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

Type: String

Length Constraints: Maximum length of 256.

Required: No

State

The state of the rule.

Valid values include:

- `DISABLED`: The rule is disabled. EventBridge does not match any events against the rule.
- `ENABLED`: The rule is enabled. EventBridge matches events against the rule, *except* for AWS management events delivered through CloudTrail.
- `ENABLED_WITH_ALL_CLOUDTRAIL_MANAGEMENT_EVENTS`: The rule is enabled for all events, including AWS management events delivered through CloudTrail.

  Management events provide visibility into management operations that are performed on resources in your AWS account. These are also known as control plane operations. For more information, see Logging management events in the *CloudTrail User Guide*, and Filtering management events from AWS services in the Amazon EventBridge User Guide .

  This value is only valid for rules on the default event bus or custom event buses. It does not apply to partner event buses.

Type: String

Valid Values: `ENABLED | DISABLED | ENABLED_WITH_ALL_CLOUDTRAIL_MANAGEMENT_EVENTS`

Required: No

Tags

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

Type: Array of Tag 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

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 Error Types.

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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- 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.

The maximum number of entries per request is 10.

> **Note**
>
> Each rule can have up to five (5) targets associated with it at one time.

For a list of services you can configure as targets for events, see EventBridge targets in the Amazon EventBridge User Guide .

Creating rules with built-in targets is supported only in the AWS Management Console. The built-in targets are:

- `Amazon EBS CreateSnapshot API call`
- `Amazon EC2 RebootInstances API call`
- `Amazon EC2 StopInstances API call`
- `Amazon 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 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*.

> **Note**
>
> If you have an IAM role on a cross-account event bus target, a `PutTargets` call without a role on the same target (same `Id` and `Arn`) will not remove the role.

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": [
      {
         "AppSyncParameters": {
            "GraphQLOperation": "string"
         },
         "Arn": "string",
         "BatchParameters": {
            "ArrayProperties": {
               "Size": number
            },
            "JobDefinition": "string",
            "JobName": "string",
            "RetryStrategy": {
               "Attempts": number
            }
         },
         "DeadLetterConfig": {
            "Arn": "string"
         },
         "EcsParameters": {
```

```
            "CapacityProviderStrategy": [
               {
                  "base": number,
                  "capacityProvider": "string",
                  "weight": number
               }
            ],
            "EnableECSManagedTags": 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",
         "Sqls": [ "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.

The request accepts the following data in JSON format.

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 1600.

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

Required: No

Rule

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

The targets to update or add to the rule.

Type: Array of Target 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

The failed target entries.

Type: Array of PutTargetsResultEntry objects

FailedEntryCount

The number of failed entries.

Type: Integer

Errors

For information about the errors that are common to all actions, see Common Error Types.

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 your 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 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 API as a target

This example targets an API Gateway 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/*/path2/*",
     "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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- 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.

The request accepts the following data in JSON format.

EventBusName

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-Za-z0-9]+`

Required: No

RemoveAllPermissions

Specifies whether to remove all permissions.

Type: Boolean

Required: No

StatementId

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-zA-Z0-9-_]+`

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 Error Types.

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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- 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.

> **Note**
>
> A successful execution of `RemoveTargets` doesn't guarantee all targets are removed from the rule, it means that the target(s) listed in the request are removed.

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.

The maximum number of entries per request is 10.

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.

The request accepts the following data in JSON format.

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 1600.

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

Required: No

Force

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

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

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

The failed target entries.

Type: Array of RemoveTargetsResultEntry objects

FailedEntryCount

The number of failed entries.

Type: Integer

Errors

For information about the errors that are common to all actions, see Common Error Types.

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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- 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.

The request accepts the following data in JSON format.

Description

A description for the replay to start.

Type: String

Length Constraints: Maximum length of 512.

Pattern: `.*`

Required: No

Destination

A `ReplayDestination` object that includes details about the destination for the replay.

Type: ReplayDestination object

Required: Yes

EventEndTime

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

The ARN of the archive to replay events 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})?:.+\/.+$`

Required: Yes

EventStartTime

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

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

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

The time at which the replay started.

Type: Timestamp

State

The state of the replay.

Type: String

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

StateReason

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 Error Types.

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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- 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.

The request accepts the following data in JSON format.

ResourceARN

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

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

Type: Array of Tag 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 Error Types.

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 V2

- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- 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.

The request accepts the following data in JSON format.

Event

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

The event pattern. For more information, see Events and Event Patterns in the Amazon EventBridge User Guide .

Type: String

Length Constraints: Maximum length of 4096.

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

Indicates whether the event matches the event pattern.

Type: Boolean

Errors

For information about the errors that are common to all actions, see Common Error Types.

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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- 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, 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.

The request accepts the following data in JSON format.

ResourceARN

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

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 Error Types.

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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- 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.

The request accepts the following data in JSON format.

ConnectionArn

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

The name of the API destination to update.

Type: String

Length Constraints: Maximum length of 512.

Pattern: `.*`

Required: No

HttpMethod

The method to use for the API destination.

Type: String

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

Required: No

InvocationEndpoint

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

Required: No

InvocationRateLimitPerSecond

The maximum number of invocations per second to send to the API destination.

Type: Integer

Valid Range: Minimum value of 1.

Required: No

Name

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

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

The state of the API destination that was updated.

Type: String

Valid Values: `ACTIVE | INACTIVE`

CreationTime

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

Type: Timestamp

LastModifiedTime

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 Error Types.

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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3

- AWS SDK for Kotlin
- 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",
   "KmsKeyIdentifier": "string",
   "RetentionDays": number
}
```

Request Parameters

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

The request accepts the following data in JSON format.

ArchiveName

The name of the archive to update.

Type: String

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

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

Required: Yes

Description

The description for the archive.

Type: String

Length Constraints: Maximum length of 512.

Pattern: `.*`

Required: No

EventPattern

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

Type: String

Length Constraints: Maximum length of 4096.

Required: No

KmsKeyIdentifier

The identifier of the AWS KMS customer managed key for EventBridge to use, if you choose to use a customer managed key to encrypt this archive. The identifier can be the key Amazon Resource Name (ARN), KeyId, key alias, or key alias ARN.

If you do not specify a customer managed key identifier, EventBridge uses an AWS owned key to encrypt the archive.

For more information, see Identify and view keys in the *AWS Key Management Service Developer Guide*.

> **Important**
>
> If you have specified that EventBridge use a customer managed key for encrypting the source event bus, we strongly recommend you also specify a customer managed key for any archives for the event bus as well.
> For more information, see Encrypting archives in the *Amazon EventBridge User Guide*.

Type: String

Length Constraints: Maximum length of 2048.

Pattern: `^[a-zA-Z0-9_\-/:]*$`

Required: No

RetentionDays

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

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

The time at which the archive was updated.

Type: Timestamp

State

The state of the archive.

Type: String

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

StateReason

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 Error Types.

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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- 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"
      },
      "ConnectivityParameters": {
         "ResourceParameters": {
            "ResourceConfigurationArn": "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",
      "InvocationConnectivityParameters": {
         "ResourceParameters": {
            "ResourceConfigurationArn": "string"
         }
      },
      "KmsKeyIdentifier": "string",
      "Name": "string"
}
```

Request Parameters

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

The request accepts the following data in JSON format.

AuthorizationType

The type of authorization to use for the connection.

Type: String

Valid Values: `BASIC | OAUTH_CLIENT_CREDENTIALS | API_KEY`

Required: No

AuthParameters

The authorization parameters to use for the connection.

Type: UpdateConnectionAuthRequestParameters object

Required: No

Description

A description for the connection.

Type: String

Length Constraints: Maximum length of 512.

Pattern: `.*`

Required: No

InvocationConnectivityParameters

For connections to private APIs, the parameters to use for invoking the API.

For more information, see Connecting to private APIs in the Amazon EventBridge User Guide .

Type: ConnectivityResourceParameters object

Required: No

KmsKeyIdentifier

The identifier of the AWS KMS customer managed key for EventBridge to use, if you choose to use a customer managed key to encrypt this connection. The identifier can be the key Amazon Resource Name (ARN), KeyId, key alias, or key alias ARN.

If you do not specify a customer managed key identifier, EventBridge uses an AWS owned key to encrypt the connection.

For more information, see Identify and view keys in the *AWS Key Management Service Developer Guide*.

Type: String

Length Constraints: Maximum length of 2048.

Pattern: `^[a-zA-Z0-9_\-/:]*$`

Required: No

Name

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

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

The state of the connection that was updated.

Type: String

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

CreationTime

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

Type: Timestamp

LastAuthorizedTime

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

Type: Timestamp

LastModifiedTime

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 Error Types.

AccessDeniedException

You do not have the necessary permissions for this action.

HTTP Status Code: 400

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

ThrottlingException

This request cannot be completed due to throttling issues.

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 V2

- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

UpdateEndpoint

Update an existing endpoint. For more information about global endpoints, see Making applications Regional-fault tolerant with global endpoints and event replication in the Amazon EventBridge User Guide .

Request Syntax

```
{
   "Description": "string",
   "EventBuses": [
      {
         "EventBusArn": "string"
      }
   ],
   "Name": "string",
   "ReplicationConfig": {
      "State": "string"
   },
   "RoleArn": "string",
   "RoutingConfig": {
      "FailoverConfig": {
         "Primary": {
            "HealthCheck": "string"
         },
         "Secondary": {
            "Route": "string"
         }
      }
   }
}
```

Request Parameters

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

The request accepts the following data in JSON format.

Description

A description for the endpoint.

Type: String

Length Constraints: Maximum length of 512.

Pattern: `.*`

Required: No

EventBuses

Define event buses used for replication.

Type: Array of EndpointEventBus objects

Array Members: Fixed number of 2 items.

Required: No

Name

The name of the endpoint you want to update.

Type: String

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

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

Required: Yes

ReplicationConfig

Whether event replication was enabled or disabled by this request.

Type: ReplicationConfig object

Required: No

RoleArn

The ARN of the role used by event replication for this request.

Type: String

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

Pattern: `^arn:aws[a-z-]*:iam::\d{12}:role\/[\w+=,.@/-]+$`

Required: No

RoutingConfig

Configure the routing policy, including the health check and secondary Region.

Type: RoutingConfig object

Required: No

Response Syntax

```
{
   "Arn": "string",
   "EndpointId": "string",
   "EndpointUrl": "string",
   "EventBuses": [
      {
         "EventBusArn": "string"
      }
   ],
   "Name": "string",
   "ReplicationConfig": {
      "State": "string"
   },
   "RoleArn": "string",
   "RoutingConfig": {
      "FailoverConfig": {
         "Primary": {
            "HealthCheck": "string"
         },
         "Secondary": {
            "Route": "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

The ARN of the endpoint you updated in this 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})?:endpoint\/[/\.\-_A-Za-z0-9]+$`

EndpointId

The ID of the endpoint you updated in this request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 50.

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

EndpointUrl

The URL of the endpoint you updated in this request.

Type: String

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

Pattern: `^(https://)?[\.\-a-z0-9]+$`

EventBuses

The event buses used for replication for the endpoint you updated in this request.

Type: Array of EndpointEventBus objects

Array Members: Fixed number of 2 items.

Name

The name of the endpoint you updated in this request.

Type: String

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

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

ReplicationConfig

Whether event replication was enabled or disabled for the endpoint you updated in this request.

Type: ReplicationConfig object

RoleArn

The ARN of the role used by event replication for the endpoint you updated in this request.

Type: String

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

Pattern: `^arn:aws[a-z-]*:iam::\d{12}:role\/[\w+=,.@/-]+$`

RoutingConfig

The routing configuration you updated in this request.

Type: RoutingConfig object

State

The state of the endpoint you updated in this request.

Type: String

Valid Values: `ACTIVE | CREATING | UPDATING | DELETING | CREATE_FAILED | UPDATE_FAILED | DELETE_FAILED`

Errors

For information about the errors that are common to all actions, see Common Error Types.

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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

UpdateEventBus

Updates the specified event bus.

Request Syntax

```
{
   "DeadLetterConfig": {
      "Arn": "string"
   },
   "Description": "string",
   "KmsKeyIdentifier": "string",
   "LogConfig": {
      "IncludeDetail": "string",
      "Level": "string"
   },
   "Name": "string"
}
```

Request Parameters

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

The request accepts the following data in JSON format.

DeadLetterConfig

Configuration details of the Amazon SQS queue for EventBridge to use as a dead-letter queue (DLQ).

For more information, see Using dead-letter queues to process undelivered events in the *EventBridge User Guide*.

Type: DeadLetterConfig object

Required: No

Description

The event bus description.

Type: String

Length Constraints: Maximum length of 512.

Required: No

KmsKeyIdentifier

The identifier of the AWS KMS customer managed key for EventBridge to use, if you choose to use a customer managed key to encrypt events on this event bus. The identifier can be the key Amazon Resource Name (ARN), KeyId, key alias, or key alias ARN.

If you do not specify a customer managed key identifier, EventBridge uses an AWS owned key to encrypt events on the event bus.

For more information, see Identify and view keys in the *AWS Key Management Service Developer Guide*.

> **Note**
>
> Schema discovery is not supported for event buses encrypted using a customer managed key. EventBridge returns an error if:
>
> - You call `CreateDiscoverer` on an event bus set to use a customer managed key for encryption.
> - You call `UpdatedEventBus` to set a customer managed key on an event bus with schema discovery enabled.
>
> To enable schema discovery on an event bus, choose to use an AWS owned key. For more information, see Encrypting events in the *Amazon EventBridge User Guide*.

> **Important**
>
> If you have specified that EventBridge use a customer managed key for encrypting the source event bus, we strongly recommend you also specify a customer managed key for any archives for the event bus as well.
> For more information, see Encrypting archives in the *Amazon EventBridge User Guide*.

Type: String

Length Constraints: Maximum length of 2048.

Pattern: `^[a-zA-Z0-9_\-/:]*$`

Required: No

LogConfig

The logging configuration settings for the event bus.

For more information, see Configuring logs for event buses in the *EventBridge User Guide*.

Type: LogConfig object

Required: No

Name

The name of the event bus.

Type: String

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

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

Required: No

Response Syntax

```
{
   "Arn": "string",
   "DeadLetterConfig": {
      "Arn": "string"
   },
   "Description": "string",
   "KmsKeyIdentifier": "string",
   "LogConfig": {
      "IncludeDetail": "string",
      "Level": "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

The event bus Amazon Resource Name (ARN).

Type: String

DeadLetterConfig

Configuration details of the Amazon SQS queue for EventBridge to use as a dead-letter queue (DLQ).

For more information, see Using dead-letter queues to process undelivered events in the *EventBridge User Guide*.

Type: DeadLetterConfig object

Description

The event bus description.

Type: String

Length Constraints: Maximum length of 512.

KmsKeyIdentifier

The identifier of the AWS KMS customer managed key for EventBridge to use to encrypt events on this event bus, if one has been specified.

For more information, see Data encryption in EventBridge in the *Amazon EventBridge User Guide*.

Type: String

Length Constraints: Maximum length of 2048.

Pattern: `^[a-zA-Z0-9_\-/:]*$`

LogConfig

The logging configuration settings for the event bus.

For more information, see Configuring logs for event buses in the *EventBridge User Guide*.

Type: LogConfig object

Name

The event bus name.

Type: String

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

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

Errors

For information about the errors that are common to all actions, see Common Error Types.

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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- 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
- AppSyncParameters
- Archive
- AwsVpcConfiguration
- BatchArrayProperties
- BatchParameters
- BatchRetryStrategy
- CapacityProviderStrategyItem
- Condition
- Connection
- ConnectionApiKeyAuthResponseParameters
- ConnectionAuthResponseParameters
- ConnectionBasicAuthResponseParameters
- ConnectionBodyParameter
- ConnectionHeaderParameter
- ConnectionHttpParameters
- ConnectionOAuthClientResponseParameters
- ConnectionOAuthResponseParameters
- ConnectionQueryStringParameter
- ConnectivityResourceConfigurationArn

- ConnectivityResourceParameters
- CreateConnectionApiKeyAuthRequestParameters
- CreateConnectionAuthRequestParameters
- CreateConnectionBasicAuthRequestParameters
- CreateConnectionOAuthClientRequestParameters
- CreateConnectionOAuthRequestParameters
- DeadLetterConfig
- DescribeConnectionConnectivityParameters
- DescribeConnectionResourceParameters
- EcsParameters
- Endpoint
- EndpointEventBus
- EventBus
- EventSource
- FailoverConfig
- HttpParameters
- InputTransformer
- KinesisParameters
- LogConfig
- NetworkConfiguration
- PartnerEventSource
- PartnerEventSourceAccount
- PlacementConstraint
- PlacementStrategy
- Primary
- PutEventsRequestEntry
- PutEventsResultEntry
- PutPartnerEventsRequestEntry
- PutPartnerEventsResultEntry
- PutTargetsResultEntry

- RedshiftDataParameters
- RemoveTargetsResultEntry
- Replay
- ReplayDestination
- ReplicationConfig
- RetryPolicy
- RoutingConfig
- Rule
- RunCommandParameters
- RunCommandTarget
- SageMakerPipelineParameter
- SageMakerPipelineParameters
- Secondary
- SqsParameters
- Tag
- Target
- UpdateConnectionApiKeyAuthRequestParameters
- UpdateConnectionAuthRequestParameters
- UpdateConnectionBasicAuthRequestParameters
- UpdateConnectionOAuthClientRequestParameters
- UpdateConnectionOAuthRequestParameters

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-Fa-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 Java V2
- AWS SDK for Ruby V3

AppSyncParameters

Contains the GraphQL operation to be parsed and executed, if the event target is an AWS AppSync API.

Contents

GraphQLOperation

The GraphQL operation; that is, the query, mutation, or subscription to be parsed and executed by the GraphQL service.

For more information, see Operations in the *AWS AppSync User Guide*.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1048576.

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 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-Za-z0-9]+`

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.

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

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 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

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

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

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 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 Java V2
- AWS SDK for Ruby V3

BatchParameters

The custom parameters to be used when the target is an AWS Batch job.

Contents

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

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 object

Required: No

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 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 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 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

capacityProvider

The short name of the capacity provider.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

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

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 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 Java V2
- AWS SDK for Ruby V3

Connection

Contains information about a connection.

Contents

AuthorizationType

The authorization type specified for the connection.

> **Note**
>
> OAUTH tokens are refreshed when a 401 or 407 response is returned.

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 | ACTIVE | FAILED_CONNECTIVITY`

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-Za-z0-9]+`

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 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 Java V2
- AWS SDK for Ruby V3

ConnectionAuthResponseParameters

Tthe authorization parameters to use for the connection.

Contents

ApiKeyAuthParameters

The API Key parameters to use for authorization.

Type: ConnectionApiKeyAuthResponseParameters object

Required: No

BasicAuthParameters

The authorization parameters for Basic authorization.

Type: ConnectionBasicAuthResponseParameters object

Required: No

ConnectivityParameters

For private OAuth authentication endpoints. The parameters EventBridge uses to authenticate against the endpoint.

For more information, see Authorization methods for connections in the Amazon EventBridge User Guide .

Type: DescribeConnectionConnectivityParameters object

Required: No

InvocationHttpParameters

Additional parameters for the connection that are passed through with every invocation to the HTTP endpoint.

Type: ConnectionHttpParameters object

Required: No

OAuthParameters

The OAuth parameters to use for authorization.

Type: ConnectionOAuthResponseParameters 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 Java V2
- AWS SDK for Ruby V3

ConnectionBasicAuthResponseParameters

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 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

Specifies 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 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

Specifies 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 Java V2
- AWS SDK for Ruby V3

ConnectionHttpParameters

Any additional parameters for the connection.

Contents

BodyParameters

Any additional body string parameters for the connection.

Type: Array of ConnectionBodyParameter objects

Array Members: Minimum number of 0 items. Maximum number of 100 items.

Required: No

HeaderParameters

Any additional header parameters for the connection.

Type: Array of ConnectionHeaderParameter objects

Array Members: Minimum number of 0 items. Maximum number of 100 items.

Required: No

QueryStringParameters

Any additional query string parameters for the connection.

Type: Array of ConnectionQueryStringParameter 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 Java V2

- AWS SDK for Ruby V3

ConnectionOAuthClientResponseParameters

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 Java V2
- AWS SDK for Ruby V3

ConnectionOAuthResponseParameters

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

Details about the client parameters returned when OAuth is specified as the authorization type.

Type: ConnectionOAuthClientResponseParameters 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 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 Java V2
- AWS SDK for Ruby V3

ConnectionQueryStringParameter

Any 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 Java V2
- AWS SDK for Ruby V3

ConnectivityResourceConfigurationArn

The Amazon Resource Name (ARN) of the Amazon VPC Lattice resource configuration for the resource endpoint.

Contents

ResourceConfigurationArn

The Amazon Resource Name (ARN) of the Amazon VPC Lattice resource configuration for the resource endpoint.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `^(?:^arn:[a-z0-9\-]+:vpc-lattice:[a-zA-Z0-9\-]+:\d{12}:resourceconfiguration/rcfg-[0-9a-z]{17}$|^$)`

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 Java V2
- AWS SDK for Ruby V3

ConnectivityResourceParameters

The parameters for EventBridge to use when invoking the resource endpoint.

Contents

ResourceParameters

The parameters for EventBridge to use when invoking the resource endpoint.

Type: ConnectivityResourceConfigurationArn object

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 Java V2
- AWS SDK for Ruby V3

CreateConnectionApiKeyAuthRequestParameters

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 Java V2
- AWS SDK for Ruby V3

CreateConnectionAuthRequestParameters

The authorization parameters for the connection.

You must include only authorization parameters for the `AuthorizationType` you specify.

Contents

ApiKeyAuthParameters

The API key authorization parameters to use for the connection.

Type: CreateConnectionApiKeyAuthRequestParameters object

Required: No

BasicAuthParameters

The Basic authorization parameters to use for the connection.

Type: CreateConnectionBasicAuthRequestParameters object

Required: No

ConnectivityParameters

If you specify a private OAuth endpoint, the parameters for EventBridge to use when authenticating against the endpoint.

For more information, see Authorization methods for connections in the Amazon EventBridge User Guide .

Type: ConnectivityResourceParameters object

Required: No

InvocationHttpParameters

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 object

Required: No

OAuthParameters

The OAuth authorization parameters to use for the connection.

Type: CreateConnectionOAuthRequestParameters 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 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 Java V2
- AWS SDK for Ruby V3

CreateConnectionOAuthClientRequestParameters

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 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

The client parameters for OAuth authorization.

Type: CreateConnectionOAuthClientRequestParameters object

Required: Yes

HttpMethod

The method to use for the authorization request.

Type: String

Valid Values: `GET | POST | PUT`

Required: Yes

OAuthHttpParameters

Details about the additional parameters to use for the connection.

Type: ConnectionHttpParameters 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 Java V2
- AWS SDK for Ruby V3

DeadLetterConfig

Configuration details of the Amazon SQS queue for EventBridge to use as a dead-letter queue (DLQ).

For more information, see Using dead-letter queues to process undelivered events in the *EventBridge User Guide*.

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 Java V2
- AWS SDK for Ruby V3

DescribeConnectionConnectivityParameters

If the connection uses a private OAuth endpoint, the parameters for EventBridge to use when authenticating against the endpoint.

For more information, see Authorization methods for connections in the Amazon EventBridge User Guide .

Contents

ResourceParameters

The parameters for EventBridge to use when invoking the resource endpoint.

Type: DescribeConnectionResourceParameters object

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 Java V2
- AWS SDK for Ruby V3

DescribeConnectionResourceParameters

The parameters for EventBridge to use when invoking the resource endpoint.

Contents

ResourceAssociationArn

For connections to private APIs, the Amazon Resource Name (ARN) of the resource association EventBridge created between the connection and the private API's resource configuration.

For more information, see Managing service network resource associations for connections in the Amazon EventBridge User Guide .

Type: String

Length Constraints: Minimum length of 17. Maximum length of 2048.

Pattern: `^arn:[a-z0-9\\-]+:vpc-lattice:[a-zA-Z0-9\\-]+:\ \d{12}:servicenetworkresourceassociation/snra-[0-9a-z]{17}$`

Required: Yes

ResourceConfigurationArn

The Amazon Resource Name (ARN) of the resource configuration for the private API.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `^(?:^arn:[a-z0-9\-]+:vpc-lattice:[a-zA-Z0-9\-]+: \d{12}:resourceconfiguration/rcfg-[0-9a-z]{17}$|^$)`

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 Java V2
- AWS SDK for Ruby V3

EcsParameters

The custom parameters to be used when the target is an Amazon ECS task.

Contents

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

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 objects

Array Members: Maximum number of 6 items.

Required: No

EnableECSManagedTags

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 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 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 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 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

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 Java V2
- AWS SDK for Ruby V3

Endpoint

A global endpoint used to improve your application's availability by making it regional-fault tolerant. For more information about global endpoints, see Making applications Regional-fault tolerant with global endpoints and event replication in the Amazon EventBridge User Guide .

Contents

Arn

The ARN of the endpoint.

Type: String

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

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

Required: No

CreationTime

The time the endpoint was created.

Type: Timestamp

Required: No

Description

A description for the endpoint.

Type: String

Length Constraints: Maximum length of 512.

Pattern: `.*`

Required: No

EndpointId

The URL subdomain of the endpoint. For example, if the URL for Endpoint is https://abcde.veo.endpoints.event.amazonaws.com, then the EndpointId is `abcde.veo`.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 50.

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

Required: No

EndpointUrl

The URL of the endpoint.

Type: String

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

Pattern: `^(https://)?[\.\-a-z0-9]+$`

Required: No

EventBuses

The event buses being used by the endpoint.

Type: Array of EndpointEventBus objects

Array Members: Fixed number of 2 items.

Required: No

LastModifiedTime

The last time the endpoint was modified.

Type: Timestamp

Required: No

Name

The name of the endpoint.

Type: String

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

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

Required: No

ReplicationConfig

Whether event replication was enabled or disabled for this endpoint. The default state is `ENABLED` which means you must supply a `RoleArn`. If you don't have a `RoleArn` or you don't want event replication enabled, set the state to `DISABLED`.

Type: ReplicationConfig object

Required: No

RoleArn

The ARN of the role used by event replication for the endpoint.

Type: String

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

Pattern: `^arn:aws[a-z-]*:iam::\d{12}:role\/[\w+=,.@/-]+$`

Required: No

RoutingConfig

The routing configuration of the endpoint.

Type: RoutingConfig object

Required: No

State

The current state of the endpoint.

Type: String

Valid Values: `ACTIVE | CREATING | UPDATING | DELETING | CREATE_FAILED | UPDATE_FAILED | DELETE_FAILED`

Required: No

StateReason

The reason the endpoint is in its current state.

Type: String

Length Constraints: Minimum length of 1. 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 Java V2
- AWS SDK for Ruby V3

EndpointEventBus

The event buses the endpoint is associated with.

Contents

EventBusArn

The ARN of the event bus the endpoint is associated with.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Pattern: `^arn:aws[a-z-]*:events:[a-z]+-[a-z-]+-\d+:\d{12}:event-bus/[\w.-]+$`

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 Java V2
- AWS SDK for Ruby V3

EventBus

An event bus receives events from a source, uses rules to evaluate them, applies any configured input transformation, and routes them to the appropriate target(s). 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

CreationTime

The time the event bus was created.

Type: Timestamp

Required: No

Description

The event bus description.

Type: String

Length Constraints: Maximum length of 512.

Required: No

LastModifiedTime

The time the event bus was last modified.

Type: Timestamp

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 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 Java V2
- AWS SDK for Ruby V3

FailoverConfig

The failover configuration for an endpoint. This includes what triggers failover and what happens when it's triggered.

Contents

Primary

The main Region of the endpoint.

Type: Primary object

Required: Yes

Secondary

The Region that events are routed to when failover is triggered or event replication is enabled.

Type: Secondary object

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 Java V2
- AWS SDK for Ruby V3

HttpParameters

These are custom parameter to be used when the target is an API Gateway 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 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 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 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 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

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*>

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 varibles 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

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

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 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 Java V2
- AWS SDK for Ruby V3

LogConfig

The logging configuration settings for the event bus.

For more information, see Configuring logs for event buses in the *EventBridge User Guide*.

Contents

IncludeDetail

Whether EventBridge include detailed event information in the records it generates. Detailed data can be useful for troubleshooting and debugging. This information includes details of the event itself, as well as target details.

For more information, see Including detail data in event bus logs in the *EventBridge User Guide*.

Type: String

Valid Values: `NONE | FULL`

Required: No

Level

The level of logging detail to include. This applies to all log destinations for the event bus.

For more information, see Specifying event bus log level in the *EventBridge User Guide*.

Type: String

Valid Values: `OFF | ERROR | INFO | TRACE`

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 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 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 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 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 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 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 instanceId (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 Java V2
- AWS SDK for Ruby V3

Primary

The primary Region of the endpoint.

Contents

HealthCheck

The ARN of the health check used by the endpoint to determine whether failover is triggered.

Type: String

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

Pattern: `^arn:aws([a-z]|\-)*:route53:::healthcheck/[\-a-z0-9]+$`

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 Java V2
- AWS SDK for Ruby V3

PutEventsRequestEntry

Represents an event to be submitted.

Contents

Detail

A valid JSON object. There is no other schema imposed. The JSON object may contain fields and nested sub-objects.

> **Note**
>
> `Detail`, `DetailType`, and `Source` are required for EventBridge to successfully send an event to an event bus. If you include event entries in a request that do not include each of those properties, EventBridge fails that entry. If you submit a request in which *none* of the entries have each of these properties, EventBridge fails the entire request.

Type: String

Required: No

DetailType

Free-form string, with a maximum of 128 characters, used to decide what fields to expect in the event detail.

> **Note**
>
> `Detail`, `DetailType`, and `Source` are required for EventBridge to successfully send an event to an event bus. If you include event entries in a request that do not include each of those properties, EventBridge fails that entry. If you submit a request in which *none* of the entries have each of these properties, EventBridge fails the entire request.

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.

> **Note**
>
> If you're using a global endpoint with a custom bus, you can enter either the name or Amazon Resource Name (ARN) of the event bus in either the primary or secondary Region here. EventBridge then determines the corresponding event bus in the other Region based on the endpoint referenced by the `EndpointId`. Specifying the event bus ARN is preferred.

Type: String

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

Pattern: `(arn:aws[\w-]*:events:[a-z]+-[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

Length Constraints: Maximum length of 2048.

Required: No

Source

The source of the event.

> **Note**
>
> `Detail`, `DetailType`, and `Source` are required for EventBridge to successfully send an event to an event bus. If you include event entries in a request that do not include each

of those properties, EventBridge fails that entry. If you submit a request in which *none* of the entries have each of these properties, EventBridge fails the entire request.

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 Java V2
- AWS SDK for Ruby V3

PutEventsResultEntry

Represents the results of an event submitted to an event bus.

If the submission 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.

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.

Retryable errors include:

- `InternalFailure`

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

  The request was denied due to request throttling.

Non-retryable errors include:

- `AccessDeniedException`

  You do not have sufficient access to perform this action.
- `InvalidAccountIdException`

  The account ID provided is not valid.
- `InvalidArgument`

  A specified parameter is not valid.
- `MalformedDetail`

  The JSON provided is not valid.
- `RedactionFailure`

  Redacting the CloudTrail event failed.

- `NotAuthorizedForSourceException`

  You do not have permissions to publish events with this source onto this event bus.

- `NotAuthorizedForDetailTypeException`

  You do not have permissions to publish events with this detail type onto this event bus.

  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

Length Constraints: Maximum length of 64.

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 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 sub-objects.

> **Note**
>
> `Detail`, `DetailType`, and `Source` are required for EventBridge to successfully send an event to an event bus. If you include event entries in a request that do not include each of those properties, EventBridge fails that entry. If you submit a request in which *none* of the entries have each of these properties, EventBridge fails the entire request.

Type: String

Required: No

DetailType

A free-form string, with a maximum of 128 characters, used to decide what fields to expect in the event detail.

> **Note**
>
> `Detail`, `DetailType`, and `Source` are required for EventBridge to successfully send an event to an event bus. If you include event entries in a request that do not include each of those properties, EventBridge fails that entry. If you submit a request in which *none* of the entries have each of these properties, EventBridge fails the entire request.

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

Length Constraints: Maximum length of 2048.

Required: No

Source

The event source that is generating the entry.

> **Note**
>
> `Detail`, `DetailType`, and `Source` are required for EventBridge to successfully send an event to an event bus. If you include event entries in a request that do not include each of those properties, EventBridge fails that entry. If you submit a request in which *none* of the entries have each of these properties, EventBridge fails the entire request.

Type: String

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

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

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 Java V2
- AWS SDK for Ruby V3

PutPartnerEventsResultEntry

The result of an event entry the partner submitted in this request. If the event was successfully submitted, 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.

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

Length Constraints: Maximum length of 64.

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 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-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 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: No

Sqls

One or more SQL statements to run. The SQL statements are run as a single transaction. They run serially in the order of the array. Subsequent SQL statements don't start until the previous statement in the array completes. If any SQL statement fails, then because they are run as one transaction, all work is rolled back.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 40 items.

Length Constraints: Minimum length of 1. Maximum length of 100000.

Required: No

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 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-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 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.

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

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-Za-z0-9]+`

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 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 Java V2
- AWS SDK for Ruby V3

ReplicationConfig

Endpoints can replicate all events to the secondary Region.

Contents

State

The state of event replication.

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 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 Java V2
- AWS SDK for Ruby V3

RoutingConfig

The routing configuration of the endpoint.

Contents

FailoverConfig

The failover configuration for an endpoint. This includes what triggers failover and what happens when it's triggered.

Type: FailoverConfig object

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 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-Za-z0-9]+`

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

Length Constraints: Maximum length of 4096.

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-Za-z0-9]+`

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.

Valid values include:

- `DISABLED`: The rule is disabled. EventBridge does not match any events against the rule.
- `ENABLED`: The rule is enabled. EventBridge matches events against the rule, *except* for AWS management events delivered through CloudTrail.
- `ENABLED_WITH_ALL_CLOUDTRAIL_MANAGEMENT_EVENTS`: The rule is enabled for all events, including AWS management events delivered through CloudTrail.

  Management events provide visibility into management operations that are performed on resources in your AWS account. These are also known as control plane operations. For more information, see Logging management events in the *CloudTrail User Guide*, and Filtering management events from AWS services in the Amazon EventBridge User Guide .

  This value is only valid for rules on the default event bus or custom event buses. It does not apply to partner event buses.

Type: String

Valid Values: `ENABLED | DISABLED | ENABLED_WITH_ALL_CLOUDTRAIL_MANAGEMENT_EVENTS`

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 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 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 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 Java V2
- AWS SDK for Ruby V3

SageMakerPipelineParameter

Name/Value pair of a parameter to start execution of a SageMaker AI Model Building Pipeline.

Contents

Name

Name of parameter to start execution of a SageMaker AI 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 AI 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 Java V2
- AWS SDK for Ruby V3

SageMakerPipelineParameters

These are custom parameters to use when the target is a SageMaker AI Model Building Pipeline that starts based on EventBridge events.

Contents

PipelineParameterList

List of Parameter names and values for SageMaker AI Model Building Pipeline execution.

Type: Array of SageMakerPipelineParameter 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 Java V2
- AWS SDK for Ruby V3

Secondary

The secondary Region that processes events when failover is triggered or replication is enabled.

Contents

Route

Defines the secondary Region.

Type: String

Length Constraints: Minimum length of 9. Maximum length of 20.

Pattern: `^[\-a-z0-9]+$`

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 Java V2
- AWS SDK for Ruby V3

SqsParameters

The custom parameters for EventBridge to use for a target that is an Amazon SQS fair or FIFO queue.

Contents

MessageGroupId

The ID of the message group to use as the target.

Type: String

Length Constraints: Maximum length of 100.

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 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 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

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-Za-z0-9]+`

Required: Yes

AppSyncParameters

Contains the GraphQL operation to be parsed and executed, if the event target is an AWS AppSync API.

Type: AppSyncParameters object

Required: No

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 object

Required: No

DeadLetterConfig

The `DeadLetterConfig` that defines the target queue to send dead-letter queue events to.

Type: DeadLetterConfig 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 object

Required: No

HttpParameters

Contains the HTTP parameters to use when the target is a API Gateway endpoint or EventBridge ApiDestination.

If you specify an API Gateway 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 object

Required: No

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 may use JSON dot notation or 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 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 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 object

Required: No

RetryPolicy

The retry policy configuration to use for the dead-letter queue.

Type: RetryPolicy 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 object

Required: No

SageMakerPipelineParameters

Contains the SageMaker AI Model Building Pipeline parameters to start execution of a SageMaker AI Model Building Pipeline.

If you specify a SageMaker AI Model Building Pipeline as a target, you can use this to specify parameters to start a pipeline execution based on EventBridge events.

Type: SageMakerPipelineParameters object

Required: No

SqsParameters

Contains the message group ID to use when the target is an Amazon SQS fair or FIFO queue.

If you specify a fair or FIFO queue as a target, the queue must have content-based deduplication enabled.

Type: SqsParameters 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 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 Java V2
- AWS SDK for Ruby V3

UpdateConnectionAuthRequestParameters

Contains the additional parameters to use for the connection.

Contents

ApiKeyAuthParameters

The authorization parameters for API key authorization.

Type: UpdateConnectionApiKeyAuthRequestParameters object

Required: No

BasicAuthParameters

The authorization parameters for Basic authorization.

Type: UpdateConnectionBasicAuthRequestParameters object

Required: No

ConnectivityParameters

If you specify a private OAuth endpoint, the parameters for EventBridge to use when authenticating against the endpoint.

For more information, see Authorization methods for connections in the Amazon EventBridge User Guide .

Type: ConnectivityResourceParameters object

Required: No

InvocationHttpParameters

The additional parameters to use for the connection.

Type: ConnectionHttpParameters object

Required: No

OAuthParameters

The authorization parameters for OAuth authorization.

Type: UpdateConnectionOAuthRequestParameters 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 Java V2
- AWS SDK for Ruby V3

UpdateConnectionBasicAuthRequestParameters

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 Java V2
- AWS SDK for Ruby V3

UpdateConnectionOAuthClientRequestParameters

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 assciated 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 Java V2
- AWS SDK for Ruby V3

UpdateConnectionOAuthRequestParameters

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

The client parameters to use for the connection when OAuth is specified as the authorization type.

Type: UpdateConnectionOAuthClientRequestParameters 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 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 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.

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 Signing AWS API requests in the *IAM User Guide*.

X-Amz-Algorithm

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

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

Type: string

Valid Values: `AWS4-HMAC-SHA256`

Required: Conditional

X-Amz-Credential

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

For more information, see Create a signed AWS API request in the *IAM User Guide*.

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

Type: string

Required: Conditional

X-Amz-Date

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

Condition: X-Amz-Date is optional for all requests; it can be used to override the date used for signing requests. If the Date header is specified in the ISO 8601 basic format, X-Amz-Date is not required. When X-Amz-Date is used, it always overrides the value of the Date header. For more information, see Elements of an AWS API request signature in the *IAM User Guide*.

Type: string

Required: Conditional

X-Amz-Security-Token

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

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

Type: string

Required: Conditional

X-Amz-Signature

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

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

Type: string

Required: Conditional

X-Amz-SignedHeaders

Specifies all the HTTP headers that were included as part of the canonical request. For more information about specifying signed headers, see Create a signed AWS API request in the *IAM User Guide*.

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

Type: string

Required: Conditional

Common Error Types

This section lists common error types that this AWS service may return. Not all services return all error types listed here. For errors specific to an API action for this service, see the topic for that API action.

AccessDeniedException

You don't have permission to perform this action. Verify that your IAM policy includes the required permissions.

HTTP Status Code: 403

ExpiredTokenException

The security token included in the request has expired. Request a new security token and try again.

HTTP Status Code: 403

IncompleteSignature

The request signature doesn't conform to AWS standards. Verify that you're using valid AWS credentials and that your request is properly formatted. If you're using an SDK, ensure it's up to date.

HTTP Status Code: 403

InternalFailure

The request can't be processed right now because of an internal server issue. Try again later. If the problem persists, contact AWS Support.

HTTP Status Code: 500

MalformedHttpRequestException

The request body can't be processed. This typically happens when the request body can't be decompressed using the specified content encoding algorithm. Verify that the content encoding header matches the compression format used.

HTTP Status Code: 400

NotAuthorized

You don't have permissions to perform this action. Verify that your IAM policy includes the required permissions.

HTTP Status Code: 401

OptInRequired

Your AWS account needs a subscription for this service. Verify that you've enabled the service in your account.

HTTP Status Code: 403

RequestAbortedException

The request was aborted before a response could be returned. This typically happens when the client closes the connection.

HTTP Status Code: 400

RequestEntityTooLargeException

The request entity is too large. Reduce the size of the request body and try again.

HTTP Status Code: 413

RequestTimeoutException

The request timed out. The server didn't receive the complete request within the expected time frame. Try again.

HTTP Status Code: 408

ServiceUnavailable

The service is temporarily unavailable. Try again later.

HTTP Status Code: 503

ThrottlingException

Your request rate is too high. The AWS SDKs automatically retry requests that receive this exception. Reduce the frequency of requests.

HTTP Status Code: 400

UnknownOperationException

The action or operation isn't recognized. Verify that the action name is spelled correctly and that it's supported by the API version you're using.

HTTP Status Code: 404

UnrecognizedClientException

The X.509 certificate or AWS access key ID you provided doesn't exist in our records. Verify that you're using valid credentials and that they haven't expired.

HTTP Status Code: 403

ValidationError

The input doesn't meet the required format or constraints. Check that all required parameters are included and that values are valid.

HTTP Status Code: 400