



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

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

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

- [Actions](#): 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 Errors](#): Client and server errors that all actions can return
- [Regions and Endpoints](#): Supported Regions and endpoints for all AWS products

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

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

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

# Actions

The following actions are supported:

- [ActivateEventSource](#)
- [CancelReplay](#)
- [CreateApiDestination](#)
- [CreateArchive](#)
- [CreateConnection](#)
- [CreateEndpoint](#)
- [CreateEventBus](#)
- [CreatePartnerEventSource](#)
- [DeactivateEventSource](#)
- [DeauthorizeConnection](#)
- [DeleteApiDestination](#)
- [DeleteArchive](#)
- [DeleteConnection](#)
- [DeleteEndpoint](#)
- [DeleteEventBus](#)
- [DeletePartnerEventSource](#)
- [DeleteRule](#)
- [DescribeApiDestination](#)
- [DescribeArchive](#)
- [DescribeConnection](#)
- [DescribeEndpoint](#)
- [DescribeEventBus](#)
- [DescribeEventSource](#)
- [DescribePartnerEventSource](#)
- [DescribeReplay](#)
- [DescribeRule](#)
- [DisableRule](#)

- [EnableRule](#)
- [ListApiDestinations](#)
- [ListArchives](#)
- [ListConnections](#)
- [ListEndpoints](#)
- [ListEventBuses](#)
- [ListEventSources](#)
- [ListPartnerEventSourceAccounts](#)
- [ListPartnerEventSources](#)
- [ListReplays](#)
- [ListRuleNamesByTarget](#)
- [ListRules](#)
- [ListTagsForResource](#)
- [ListTargetsByRule](#)
- [PutEvents](#)
- [PutPartnerEvents](#)
- [PutPermission](#)
- [PutRule](#)
- [PutTargets](#)
- [RemovePermission](#)
- [RemoveTargets](#)
- [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 Errors](#).

### **ConcurrentModificationException**

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

HTTP Status Code: 400

### **InternalException**

This exception occurs due to unexpected causes.

HTTP Status Code: 500

### **InvalidStateException**

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

HTTP Status Code: 400

### **OperationDisabledException**

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

HTTP Status Code: 400

### **ResourceNotFoundException**

An entity that you specified does not exist.

HTTP Status Code: 400

## **See Also**

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [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 Errors](#).

### **ConcurrentModificationException**

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

HTTP Status Code: 400

### **IllegalStateException**

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

HTTP Status Code: 400

### **InternalException**

This exception occurs due to unexpected causes.

HTTP Status Code: 500

### **ResourceNotFoundException**

An entity that you specified does not exist.

HTTP Status Code: 400

## **See Also**

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [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 Errors](#).

### **InternalException**

This exception occurs due to unexpected causes.

HTTP Status Code: 500

### **LimitExceededException**

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

HTTP Status Code: 400

### **ResourceAlreadyExistsException**

The resource you are trying to create already exists.

HTTP Status Code: 400

### **ResourceNotFoundException**

An entity that you specified does not exist.

HTTP Status Code: 400

## See Also

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

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

- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [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.

## Note

Archives and schema discovery are not supported for event buses encrypted using a customer managed key. EventBridge returns an error if:

- You call [CreateArchive](#) on an event bus set to use a customer managed key for encryption.
- 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 an archives or schema discovery enabled.

To enable archives or schema discovery on an event bus, choose to use an AWS owned key. For more information, see [Data encryption in EventBridge](#) in the *Amazon EventBridge User Guide*.

## Request Syntax

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

## Request Parameters

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

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.

Required: Yes

## 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 Errors](#).

### **ConcurrentModificationException**

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

HTTP Status Code: 400

### **InternalException**

This exception occurs due to unexpected causes.

HTTP Status Code: 500

### **InvalidEventPatternException**

The event pattern is not valid.

HTTP Status Code: 400

### **LimitExceededException**

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

HTTP Status Code: 400

### **ResourceAlreadyExistsException**

The resource you are trying to create already exists.

HTTP Status Code: 400

### **ResourceNotFoundException**

An entity that you specified does not exist.

HTTP Status Code: 400

## **See Also**

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# CreateConnection

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

## Request Syntax

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



```
"ClientParameters": {
  "ClientID": "string",
  "ClientSecret": "string"
},
"HttpMethod": "string",
"OAuthHttpParameters": {
  "BodyParameters": [
    {
      "IsValueSecret": boolean,
      "Key": "string",
      "Value": "string"
    }
  ],
  "HeaderParameters": [
    {
      "IsValueSecret": boolean,
      "Key": "string",
      "Value": "string"
    }
  ],
  "QueryStringParameters": [
    {
      "IsValueSecret": boolean,
      "Key": "string",
      "Value": "string"
    }
  ]
}
},
"Description": "string",
"Name": "string"
}
```

## Request Parameters

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

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

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

Type: [CreateConnectionAuthRequestParameters](#) object

Required: Yes

### Description

A description for the connection to create.

Type: String

Length Constraints: Maximum length of 512.

Pattern: .\*

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

### 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 Errors](#).

### InternalException

This exception occurs due to unexpected causes.

HTTP Status Code: 500

### LimitExceededException

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

HTTP Status Code: 400

### ResourceAlreadyExistsException

The resource you are trying to create already exists.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [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 Errors](#).

### **InternalException**

This exception occurs due to unexpected causes.

HTTP Status Code: 500

### **LimitExceededException**

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

HTTP Status Code: 400

### **ResourceAlreadyExistsException**

The resource you are trying to create already exists.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [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",
  "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

## KmsKeyIdIdentifier

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 [Managing keys](#) in the *AWS Key Management Service Developer Guide*.

### Note

Archives and schema discovery are not supported for event buses encrypted using a customer managed key. EventBridge returns an error if:

- You call [CreateArchive](#) on an event bus set to use a customer managed key for encryption.
- 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 an archives or schema discovery enabled.

To enable archives or schema discovery on an event bus, choose to use an AWS owned key. For more information, see [Data encryption in EventBridge](#) in the *Amazon EventBridge User Guide*.

Type: String

Length Constraints: Maximum length of 2048.

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"
}
```

## 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.

## Errors

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

### **ConcurrentModificationException**

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

HTTP Status Code: 400

### **InternalException**

This exception occurs due to unexpected causes.

HTTP Status Code: 500

### **InvalidStateException**

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

HTTP Status Code: 400

### **LimitExceededException**

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

HTTP Status Code: 400

### **OperationDisabledException**

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

HTTP Status Code: 400

### **ResourceAlreadyExistsException**

The resource you are trying to create already exists.

HTTP Status Code: 400

### **ResourceNotFoundException**

An entity that you specified does not exist.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [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]{1,}){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 Errors](#).

### **ConcurrentModificationException**

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

HTTP Status Code: 400

### **InternalException**

This exception occurs due to unexpected causes.

HTTP Status Code: 500

### **LimitExceededException**

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

HTTP Status Code: 400

### **OperationDisabledException**

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

HTTP Status Code: 400

### **ResourceAlreadyExistsException**

The resource you are trying to create already exists.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [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 Errors](#).

## ConcurrentModificationException

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

HTTP Status Code: 400

## InternalException

This exception occurs due to unexpected causes.

HTTP Status Code: 500

## InvalidStateException

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

HTTP Status Code: 400

## OperationDisabledException

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

HTTP Status Code: 400

## ResourceNotFoundException

An entity that you specified does not exist.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [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

### 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 Errors](#).

### **ConcurrentModificationException**

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

HTTP Status Code: 400

### **InternalException**

This exception occurs due to unexpected causes.

HTTP Status Code: 500

### **ResourceNotFoundException**

An entity that you specified does not exist.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [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 Errors](#).

### **ConcurrentModificationException**

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

HTTP Status Code: 400

## InternalException

This exception occurs due to unexpected causes.

HTTP Status Code: 500

## ResourceNotFoundException

An entity that you specified does not exist.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [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 Errors](#).

### **ConcurrentModificationException**

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

HTTP Status Code: 400

## InternalException

This exception occurs due to unexpected causes.

HTTP Status Code: 500

## ResourceNotFoundException

An entity that you specified does not exist.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [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

### 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 was 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 Errors](#).



## ConcurrentModificationException

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

HTTP Status Code: 400

## InternalException

This exception occurs due to unexpected causes.

HTTP Status Code: 500

## ResourceNotFoundException

An entity that you specified does not exist.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [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 Errors](#).

## ConcurrentModificationException

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

HTTP Status Code: 400

## InternalException

This exception occurs due to unexpected causes.

HTTP Status Code: 500

## ResourceNotFoundException

An entity that you specified does not exist.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [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 Errors](#).

### **ConcurrentModificationException**

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

HTTP Status Code: 400

## InternalException

This exception occurs due to unexpected causes.

HTTP Status Code: 500

## See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [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 Errors](#).

### **ConcurrentModificationException**

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

HTTP Status Code: 400

### **InternalException**

This exception occurs due to unexpected causes.

HTTP Status Code: 500

### **OperationDisabledException**

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

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [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]{2}-[a-z]+-[\w-]+:[0-9]{12}:event-bus\w)?[/\.\-_\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 Errors](#).

### **ConcurrentModificationException**

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

HTTP Status Code: 400

### **InternalException**

This exception occurs due to unexpected causes.

HTTP Status Code: 500

### ManagedRuleException

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

HTTP Status Code: 400

### ResourceNotFoundException

An entity that you specified does not exist.

HTTP Status Code: 400

## Examples

### Deletes a rule named "test"

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

#### Sample Request

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

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

## Sample Response

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

## See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [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 Errors](#).

### **InternalException**

This exception occurs due to unexpected causes.

HTTP Status Code: 500

### **ResourceNotFoundException**

An entity that you specified does not exist.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [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",  
  "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.

## **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 Errors](#).

### InternalException

This exception occurs due to unexpected causes.

HTTP Status Code: 500

### ResourceAlreadyExistsException

The resource you are trying to create already exists.

HTTP Status Code: 400

### ResourceNotFoundException

An entity that you specified does not exist.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [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"
    },
    "InvocationHttpParameters": {
      "BodyParameters": [
        {
```

```
        "IsValueSecret": boolean,
        "Key": "string",
        "Value": "string"
    }
],
"HeaderParameters": [
    {
        "IsValueSecret": boolean,
        "Key": "string",
        "Value": "string"
    }
],
"QueryStringParameters": [
    {
        "IsValueSecret": boolean,
        "Key": "string",
        "Value": "string"
    }
]
},
"OAuthParameters": {
    "AuthorizationEndpoint": "string",
    "ClientParameters": {
        "ClientID": "string"
    },
    "HttpMethod": "string",
    "OAuthHttpParameters": {
        "BodyParameters": [
            {
                "IsValueSecret": boolean,
                "Key": "string",
                "Value": "string"
            }
        ],
        "HeaderParameters": [
            {
                "IsValueSecret": boolean,
                "Key": "string",
                "Value": "string"
            }
        ],
        "QueryStringParameters": [
            {
                "IsValueSecret": boolean,
```



```
        "Key": "string",
        "Value": "string"
      }
    ]
  }
}
},
"ConnectionArn": "string",
"ConnectionState": "string",
"CreationTime": number,
"Description": "string",
"LastAuthorizedTime": number,
"LastModifiedTime": number,
"Name": "string",
"SecretArn": "string",
"StateReason": "string"
}
```

## Response Elements

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

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

### AuthorizationType

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

### 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: `.*`

### 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 Errors](#).

### **InternalException**

This exception occurs due to unexpected causes.

HTTP Status Code: 500

### **ResourceNotFoundException**

An entity that you specified does not exist.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
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- [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 Errors](#).

### InternalException

This exception occurs due to unexpected causes.

HTTP Status Code: 500

### ResourceNotFoundException

An entity that you specified does not exist.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)

- [AWS SDK for JavaScript V3](#)
- [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]{2}-[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,
"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.

### LastModifiedTime

The time the event bus was last modified.

Type: Timestamp

### 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 Errors](#).

### InternalException

This exception occurs due to unexpected causes.

HTTP Status Code: 500

## ResourceNotFoundException

An entity that you specified does not exist.

HTTP Status Code: 400

## Examples

### Example

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

### Sample Request

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

### Example

This example illustrates one usage of DescribeEventBus.

### Sample Response

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

{
```

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

## See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [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 Errors](#).

### InternalException

This exception occurs due to unexpected causes.

HTTP Status Code: 500

### OperationDisabledException

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

HTTP Status Code: 400

### ResourceNotFoundException

An entity that you specified does not exist.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [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 Errors](#).

### **InternalException**

This exception occurs due to unexpected causes.

HTTP Status Code: 500

### **OperationDisabledException**

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

HTTP Status Code: 400

### **ResourceNotFoundException**

An entity that you specified does not exist.

HTTP Status Code: 400

## See Also

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

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

- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [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.

### 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})?\.+\V[\.\-\_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 Errors](#).

### **InternalException**

This exception occurs due to unexpected causes.

HTTP Status Code: 500

### **ResourceNotFoundException**

An entity that you specified does not exist.

HTTP Status Code: 400

## See Also

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

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

- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [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]{2}-[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 Errors](#).

### **InternalException**

This exception occurs due to unexpected causes.

HTTP Status Code: 500

### **ResourceNotFoundException**

An entity that you specified does not exist.

HTTP Status Code: 400

## Examples

### **Describes a rule named "test"**

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

## Sample Request

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

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

## Sample Response

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

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

## See Also

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

- [AWS Command Line Interface](#)

- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [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]{2}-[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 Errors](#).

### **ConcurrentModificationException**

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

HTTP Status Code: 400

### **InternalException**

This exception occurs due to unexpected causes.

HTTP Status Code: 500

### **ManagedRuleException**

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

HTTP Status Code: 400

### **ResourceNotFoundException**

An entity that you specified does not exist.

HTTP Status Code: 400

## Examples

### **Disables a rule named "test"**

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

## Sample Request

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

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

## Sample Response

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

## See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [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]{2}-[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 Errors](#).

### ConcurrentModificationException

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

HTTP Status Code: 400

### InternalException

This exception occurs due to unexpected causes.

HTTP Status Code: 500

### ManagedRuleException

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

HTTP Status Code: 400

### ResourceNotFoundException

An entity that you specified does not exist.

HTTP Status Code: 400

## Examples

### Enables a rule named "test"

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

## Sample Request

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

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

## Sample Response

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

## See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [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 of `ApiDestination` objects that include information about an 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 Errors](#).

### **InternalException**

This exception occurs due to unexpected causes.

HTTP Status Code: 500

## See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [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.

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 Errors](#).

### **InternalException**

This exception occurs due to unexpected causes.

HTTP Status Code: 500

## **ResourceNotFoundException**

An entity that you specified does not exist.

HTTP Status Code: 400

## **See Also**

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [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

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 Errors](#).

### InternalException

This exception occurs due to unexpected causes.

HTTP Status Code: 500

## See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)

- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [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 Errors](#).

### InternalException

This exception occurs due to unexpected causes.

HTTP Status Code: 500

## See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [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 Errors](#).

### InternalException

This exception occurs due to unexpected causes.

HTTP Status Code: 500

## See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [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 Errors](#).

### **InternalException**

This exception occurs due to unexpected causes.

HTTP Status Code: 500

### **OperationDisabledException**

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

HTTP Status Code: 400

## **See Also**

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)

- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [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 Errors](#).

### **InternalException**

This exception occurs due to unexpected causes.

HTTP Status Code: 500

### **OperationDisabledException**

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

HTTP Status Code: 400

### **ResourceNotFoundException**

An entity that you specified does not exist.

HTTP Status Code: 400

## See Also

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

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

- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [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

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

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 Errors](#).

### InternalException

This exception occurs due to unexpected causes.

HTTP Status Code: 500

### OperationDisabledException

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

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [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.

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 Errors](#).

### **InternalException**

This exception occurs due to unexpected causes.

HTTP Status Code: 500

## See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [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]{2}-[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 Errors](#).

### InternalException

This exception occurs due to unexpected causes.

HTTP Status Code: 500

### ResourceNotFoundException

An entity that you specified does not exist.

HTTP Status Code: 400

## Examples

### Lists rule names by target with the specified ARN

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

#### Sample Request

```
POST / HTTP/1.1
```

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

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

## Sample Response

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

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

## See Also

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

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



- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [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]{2}-[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 Errors](#).

### **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":
"ABCDEgAAAAAAAAAAQAAABCXtD8i7X1yFv5XFKH8GrudAAAAQIoQ0+7qXp63vQf1pvVk1fHFd
+p2QgY36pjlAqsSsrkNb0tTePaCeJqN80
+jbu66UhpJh7huA9r0iY9zjdtZ3vsAAAAGAAAAAAAAAAAF5MZWkt1lmMuLd9gUjryM4sL9EG5IkcPUm60Vq1tzyYw=="
}
```

## See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [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 Errors](#).

### InternalException

This exception occurs due to unexpected causes.

HTTP Status Code: 500

### ResourceNotFoundException

An entity that you specified does not exist.

HTTP Status Code: 400

## Examples

### Removes two tags from an EventBridge rule

The following is an example of an UntagResource request.

#### Sample Request

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



```
Connection: Keep-Alive
X-Amz-Target: AWSEvents.ListTagsForResource

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

## Sample Response

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

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

## See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [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]{2}-[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 Errors](#).

### InternalException

This exception occurs due to unexpected causes.

HTTP Status Code: 500

### ResourceNotFoundException

An entity that you specified does not exist.

HTTP Status Code: 400

## Examples

### Lists the targets associated with a rule named "test"

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

#### Sample Request

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

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



## Sample Response

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

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

## See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [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.

The maximum size for a PutEvents event entry is 256 KB. Entry size is calculated including the event and any necessary characters and keys of the JSON representation of the event. To learn more, 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 1100 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 Errors](#).

### **InternalException**

This exception occurs due to unexpected causes.

HTTP Status Code: 500

## Examples

### **Sends two custom events**

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

## Sample Request

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

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

## Sample Response

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

```
Date: <Date>

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

## See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [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 Errors](#).

### **InternalException**

This exception occurs due to unexpected causes.

HTTP Status Code: 500



## OperationDisabledException

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

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [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 Errors](#).

### **ConcurrentModificationException**

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

HTTP Status Code: 400

### **InternalException**

This exception occurs due to unexpected causes.

HTTP Status Code: 500

### **OperationDisabledException**

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

HTTP Status Code: 400

### **PolicyLengthExceededException**

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

HTTP Status Code: 400

### **ResourceNotFoundException**

An entity that you specified does not exist.

HTTP Status Code: 400

## Examples

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

### Example

This example illustrates one usage of PutPermission.

### Sample Request

```
POST / HTTP/1.1
```

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

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

## Example

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

## Sample Request

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

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

```
}
```

## See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# PutRule

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

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

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

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

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

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

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

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

In EventBridge, it is possible to create rules that lead to infinite loops, where a rule is fired repeatedly. For example, a rule might detect that ACLs have changed on an S3 bucket, and trigger



software to change them to the desired state. If the rule is not written carefully, the subsequent change to the ACLs fires the rule again, creating an infinite loop.

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

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

## Request Syntax

```
{
  "Description": "string",
  "EventBusName": "string",
  "EventPattern": "string",
  "Name": "string",
  "RoleArn": "string",
  "ScheduleExpression": "string",
  "State": "string",
  "Tags": [
    {
      "Key": "string",
      "Value": "string"
    }
  ]
}
```

## Request Parameters

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

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]{2}-[a-z]+-[\w-]+:[0-9]{12}:event-bus\w)?[/\.\-_\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 Errors](#).

### **ConcurrentModificationException**

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

HTTP Status Code: 400

### **InternalException**

This exception occurs due to unexpected causes.

HTTP Status Code: 500

### **InvalidEventPatternException**

The event pattern is not valid.

HTTP Status Code: 400

### **LimitExceededException**

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

HTTP Status Code: 400

### **ManagedRuleException**

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

HTTP Status Code: 400

### **ResourceNotFoundException**

An entity that you specified does not exist.

HTTP Status Code: 400

## **Examples**

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

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

### **Sample Request**

```
POST / HTTP/1.1
Host: events.<region>.<domain>
x-amz-Date: <Date>
```

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

{
  "Name": "test",
  "EventPattern": "{ \"source\": [\"aws.ec2\"] }",
  "Tags": [
    {
      "Key": "Stack",
      "Value": "Prod"
    },
    {
      "Key": "CostCenter",
      "Value": "12345"
    }
  ]
}
```

## Sample Response

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

{
  "RuleArn": "arn:aws:events:us-east-1:123456789012:rule/test"
}
```

## See Also

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

- [AWS Command Line Interface](#)

- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [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]{2}-[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 Errors](#).

### **ConcurrentModificationException**

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

HTTP Status Code: 400

### **InternalException**

This exception occurs due to unexpected causes.

HTTP Status Code: 500

### **LimitExceededException**

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

HTTP Status Code: 400

### **ManagedRuleException**

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

HTTP Status Code: 400

### **ResourceNotFoundException**

An entity that you specified does not exist.

HTTP Status Code: 400

## Examples

### **Adds a target to a Lambda function with the ID "MyTargetId" to the rule named "test"**

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

## Sample Request

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

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

## Sample Response

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

{
  "FailedEntries": [],
  "FailedEntryCount": 0
}
```

## Use Input Transformer to extract data from an event and input that data to the target

This example extracts the instance and state from an event, puts them into a simple text template, and passes this data to a Lambda function called `MyFunction`.



**Note**

If you are using `InputTransformer` with CloudWatch Logs as a target, the `Template` must be `{"timestamp":<timestamp>,"message":<version-id>}`.

**Sample Request**

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

{
  "Rule": "testrule",
  "Targets": [
    {
      "Id": "MyTargetId",
      "Arn": "arn:aws:lambda:us-east-1:123456789012:function:MyFunction",
      "InputTransformer":
        {
          "InputPathsMap": {"instance": "$.detail.instance","status":
            "$.detail.status"},
          "InputTemplate": "<instance> is in state <status>"
        }
    }
  ]
}
```

**Example**

Here is another sample request using `InputTransformer`. The input to the Lambda function is in JSON format, with an array substituted. Below that sample request are examples of an event and the resulting output to the target, using this sample request.

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

{
  "Rule": "testrule",
  "Targets": [
    {
      "Id": "MyTargetId",
      "Arn": "arn:aws:lambda:us-east-1:123456789012:function:MyFunction"
      "InputTransformer":
        {
          "InputPathsMap": {"commandsToRun": "$.detail.commands"},
          "InputTemplate": "{$\"commands\": <commandsToRun>}"
        }
    }
  ]
}
```

*Incoming event:*

```
{
  "Time": 1225864800,
  "Source": "foo",
  "Resources": ["foo", "foo"],
  "DetailType": "foo",
  "Detail": {
    "commands": ["ls -lrt", "echo HelloWorld!"]
  }
}
```

*Output sent to the target:*

```
{
  "commands" : ["ls -lrt", "echo HelloWorld!"]
}
```

## Sends a command to a list of EC2 instances specified by InstanceIds, using Amazon EC2 Run Command

This example illustrates one usage of PutTargets.

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

{
  "Rule": "testrule",
  "Targets": [
    {
      "Id": "id123456789",
      "Arn": "arn:aws:ssm:us-east-1:12345679012:document/RestartLinuxService",
      "RoleArn": "arn:aws:iam::123456789012:role/MyRoleToAccessEC2"
      "RunCommandParameters": {
        "RunCommandTargets": [
          {
            "Key": "InstanceIds",
            "Values": ["i-123456789012", "i-098765432109"]
          }
        ]
      }
    }
  ]
}
```

```
]
}
```

## Sends a batch job command to an job queue

When the target is an AWS Batch job queue, the `Arn` field specifies the ARN of the job queue, while `JobDefinition` specifies the ARN of the job definition.

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

{
  "Rule":"batch-job-rule",
  "Targets":[
    {
      "Id":"id123456789",
      "Arn":"arn:aws:batch:us-west-2:012345678910:job-queue/default",
      "BatchParameters":{"
        "ArrayProperties":{"
          "Size":25
        }
      },
      "JobDefinition":"arn:aws:batch:us-west-2:012345678910:job-definition/nvidia-smi:1",
      "JobName":"unique-job-name",
      "RetryStrategy":{"
        "Attempts":5
      }
    }
  ]
}
```

## Uses KinesisParameters to control the shard assignment

In this example, KinesisParameters is used to specify that events related to status changes are sent to a shard specific to the affected instance ID.

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

{
  "Rule": "StatusChangeRule",
  "Targets": [
    {
      "Id" : "1",
      "Arn": "arn:aws:kinesis:us-east-1:123456789012:function:stream/mystream",
      "KinesisParameters":{
        "PartitionKeyPath":"$.detail.instance-id"}
    }
  ]
}
```

## Adds an Amazon 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](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [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 Errors](#).

### **ConcurrentModificationException**

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

HTTP Status Code: 400

### **InternalException**

This exception occurs due to unexpected causes.

HTTP Status Code: 500

### **OperationDisabledException**

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

HTTP Status Code: 400

### **ResourceNotFoundException**

An entity that you specified does not exist.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [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]{2}-[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 Errors](#).

### **ConcurrentModificationException**

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

HTTP Status Code: 400

## InternalException

This exception occurs due to unexpected causes.

HTTP Status Code: 500

## ManagedRuleException

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

HTTP Status Code: 400

## ResourceNotFoundException

An entity that you specified does not exist.

HTTP Status Code: 400

## Examples

### Removes a target with ID "MyTargetId" from a rule named "test"

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

#### Sample Request

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

{
```

```
"Rule": "test",
"Ids": [
  "MyTargetId"
]
}
```

## Sample Response

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

{
  "FailedEntries": [],
  "FailedEntryCount": 0
}
```

## See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [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.

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})?:.+\V[\.\-_\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 Errors](#).

### **InternalException**

This exception occurs due to unexpected causes.

HTTP Status Code: 500

### **InvalidEventPatternException**

The event pattern is not valid.

HTTP Status Code: 400

### **LimitExceededException**

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

HTTP Status Code: 400

### **ResourceAlreadyExistsException**

The resource you are trying to create already exists.

HTTP Status Code: 400

### **ResourceNotFoundException**

An entity that you specified does not exist.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [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 Errors](#).

### **ConcurrentModificationException**

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

HTTP Status Code: 400

### **InternalException**

This exception occurs due to unexpected causes.

HTTP Status Code: 500

### **ManagedRuleException**

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

HTTP Status Code: 400

### **ResourceNotFoundException**

An entity that you specified does not exist.

HTTP Status Code: 400

## Examples

### Adds two tags to a EventBridge rule

The following is an example of a TagResource request.

#### Sample Request

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

{
  "ResourceARN": "arn:aws:events:us-west-1:123456789012:rule/test",
  "Tags": [
    {
      "Key": "Stack",
      "Value": "Prod"
    },
    {
      "Key": "Team",
      "Value": "Green"
    }
  ]
}
```

## See Also

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

- [AWS Command Line Interface](#)

- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [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 Errors](#).

### **InternalException**

This exception occurs due to unexpected causes.

HTTP Status Code: 500

### **InvalidEventPatternException**

The event pattern is not valid.

HTTP Status Code: 400

## Examples

### Tests that a given event matches a given event pattern

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

#### Sample Request

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

{
  "EventPattern": "{\"source\": [\"com.mycompany.myapp\"]}",
  "Event": "{\"id\": \"e00c66cb-fe7a-4fcc-81ad-58eb60f5d96b\", \"detail-type\": \"myDetailType\", \"source\": \"com.mycompany.myapp\", \"account\": \"123456789012\", \"time\": \"2016-01-10T01:29:23Z\", \"region\": \"us-east-1\", \"resources\": [\"resource1\", \"resource2\"], \"detail\": {\"key1\": \"value1\", \"key2\": \"value2\"}}"}
}
```

#### Sample Response

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

{
  "Result": true
}
```

```
}
```

## See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [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 Errors](#).

### ConcurrentModificationException

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

HTTP Status Code: 400

### InternalException

This exception occurs due to unexpected causes.

HTTP Status Code: 500

### ManagedRuleException

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

HTTP Status Code: 400

### ResourceNotFoundException

An entity that you specified does not exist.

HTTP Status Code: 400

## Examples

### Removes two tags from an EventBridge rule

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

#### Sample Request

```
POST / HTTP/1.1
Host: events.<region>.<domain>
x-amz-Date: <Date>
```

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

{
  "ResourceARN": "arn:aws:events:us-west-1:123456789012:rule/test",
  "TagKeys": [ "CostCenter", "Team" ]
}
```

## See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [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 Errors](#).

### **ConcurrentModificationException**

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

HTTP Status Code: 400

### **InternalException**

This exception occurs due to unexpected causes.

HTTP Status Code: 500

### **LimitExceededException**

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

HTTP Status Code: 400

### **ResourceNotFoundException**

An entity that you specified does not exist.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)

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



# UpdateArchive

Updates the specified archive.

## Request Syntax

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

## Request Parameters

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

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

## 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 Errors](#).

### **ConcurrentModificationException**

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

HTTP Status Code: 400

### **InternalException**

This exception occurs due to unexpected causes.

HTTP Status Code: 500

### **InvalidEventPatternException**

The event pattern is not valid.

HTTP Status Code: 400

### **LimitExceededException**

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

HTTP Status Code: 400

### **ResourceNotFoundException**

An entity that you specified does not exist.

HTTP Status Code: 400

## **See Also**

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# UpdateConnection

Updates settings for a connection.

## Request Syntax

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

```
    "ClientID": "string",
    "ClientSecret": "string"
  },
  "HttpMethod": "string",
  "OAuthHttpParameters": {
    "BodyParameters": [
      {
        "IsValueSecret": boolean,
        "Key": "string",
        "Value": "string"
      }
    ],
    "HeaderParameters": [
      {
        "IsValueSecret": boolean,
        "Key": "string",
        "Value": "string"
      }
    ],
    "QueryStringParameters": [
      {
        "IsValueSecret": boolean,
        "Key": "string",
        "Value": "string"
      }
    ]
  }
},
"Description": "string",
"Name": "string"
}
```

## Request Parameters

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

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

### 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

### 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 Errors](#).

### **ConcurrentModificationException**

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

HTTP Status Code: 400

### **InternalException**

This exception occurs due to unexpected causes.

HTTP Status Code: 500

### **LimitExceededException**

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

HTTP Status Code: 400

### **ResourceNotFoundException**

An entity that you specified does not exist.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [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 Errors](#).

### **ConcurrentModificationException**

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

HTTP Status Code: 400

## InternalException

This exception occurs due to unexpected causes.

HTTP Status Code: 500

## ResourceNotFoundException

An entity that you specified does not exist.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [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",
  "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 [Managing keys](#) in the *AWS Key Management Service Developer Guide*.

### Note

Archives and schema discovery are not supported for event buses encrypted using a customer managed key. EventBridge returns an error if:

- You call [CreateArchive](#) on an event bus set to use a customer managed key for encryption.
- 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 an archives or schema discovery enabled.

To enable archives or schema discovery on an event bus, choose to use an AWS owned key. For more information, see [Data encryption in EventBridge](#) in the *Amazon EventBridge User Guide*.

Type: String

Length Constraints: Maximum length of 2048.

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",
  "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.

## 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 Errors](#).

### **ConcurrentModificationException**

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

HTTP Status Code: 400

### **InternalException**

This exception occurs due to unexpected causes.

HTTP Status Code: 500

### **OperationDisabledException**

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

HTTP Status Code: 400

## ResourceNotFoundException

An entity that you specified does not exist.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [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](#)
- [CreateConnectionApiKeyAuthRequestParameters](#)

- [CreateConnectionAuthRequestParameters](#)
- [CreateConnectionBasicAuthRequestParameters](#)
- [CreateConnectionOAuthClientRequestParameters](#)
- [CreateConnectionOAuthRequestParameters](#)
- [DeadLetterConfig](#)
- [EcsParameters](#)
- [Endpoint](#)
- [EndpointEventBus](#)
- [EventBus](#)
- [EventSource](#)
- [FailoverConfig](#)
- [HttpParameters](#)
- [InputTransformer](#)
- [KinesisParameters](#)
- [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.

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

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

Contains the 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

### 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

Contains the authorization parameters for the connection if Basic is specified as the authorization type.

## Contents

### Username

The user name to use for Basic authorization.

Type: String

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

Pattern: `^[ \t]*[^\x00-\x1F:\x7F]+([ \t]+[^\x00-\x1F:\x7F]+)*[ \t]*$`

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)



# ConnectionBodyParameter

Additional parameter included in the body. You can include up to 100 additional body parameters per request. An event payload cannot exceed 64 KB.

## Contents

### IsValueSecret

Specified whether the value is secret.

Type: Boolean

Required: No

### Key

The key for the parameter.

Type: String

Required: No

### Value

The value associated with the key.

Type: String

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ConnectionHeaderParameter

Additional parameter included in the header. You can include up to 100 additional header parameters per request. An event payload cannot exceed 64 KB.

## Contents

### IsValueSecret

Specified whether the value is a secret.

Type: Boolean

Required: No

### Key

The key for the parameter.

Type: String

Length Constraints: Maximum length of 512.

Pattern: `^[!#$%&'*+-.\^_`|~0-9a-zA-Z]+$`

Required: No

### Value

The value associated with the key.

Type: String

Length Constraints: Maximum length of 512.

Pattern: `^[ \t]*[\x20-\x7E]+([\ \t]+[\x20-\x7E]+)*[ \t]*$`

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ConnectionHttpParameters

Contains additional parameters for the connection.

## Contents

### BodyParameters

Contains additional body string parameters for the connection.

Type: Array of [ConnectionBodyParameter](#) objects

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

Required: No

### HeaderParameters

Contains additional header parameters for the connection.

Type: Array of [ConnectionHeaderParameter](#) objects

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

Required: No

### QueryStringParameters

Contains additional query string parameters for the connection.

Type: Array of [ConnectionQueryStringParameter](#) 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

Contains the client response parameters for the connection when OAuth is specified as the authorization type.

## Contents

### ClientID

The client ID associated with the response to the connection request.

Type: String

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

Pattern: `^[ \t]*[^\x00-\x1F:\x7F]+([ \t]+[^\x00-\x1F:\x7F]+)*[ \t]*$`

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ConnectionOAuthResponseParameters

Contains the response parameters when OAuth is specified as the authorization type.

## Contents

### AuthorizationEndpoint

The URL to the HTTP endpoint that authorized the request.

Type: String

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

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

Required: No

### ClientParameters

A `ConnectionOAuthClientResponseParameters` object that contains details about the client parameters returned when OAuth is specified as the authorization type.

Type: [ConnectionOAuthClientResponseParameters](#) 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

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](#)

# CreateConnectionApiKeyAuthRequestParameters

Contains the API key authorization parameters for the connection.

## Contents

### ApiKeyName

The name of the API key to use for authorization.

Type: String

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

Pattern: `^[ \t]*[^\x00-\x1F:\x7F]+([\t]+[^\x00-\x1F:\x7F]+)*[ \t]*$`

Required: Yes

### ApiKeyValue

The value for the API key to use for authorization.

Type: String

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

Pattern: `^[ \t]*[^\x00-\x1F:\x7F]+([\t]+[^\x00-\x1F:\x7F]+)*[ \t]*$`

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# CreateConnectionAuthRequestParameters

Contains the authorization parameters for the connection.

## Contents

### ApiKeyAuthParameters

A `CreateConnectionApiKeyAuthRequestParameters` object that contains the API key authorization parameters to use for the connection.

Type: [CreateConnectionApiKeyAuthRequestParameters](#) object

Required: No

### BasicAuthParameters

A `CreateConnectionBasicAuthRequestParameters` object that contains the Basic authorization parameters to use for the connection.

Type: [CreateConnectionBasicAuthRequestParameters](#) object

Required: No

### InvocationHttpParameters

A `ConnectionHttpParameters` object that contains the API key authorization parameters to use for the connection. Note that if you include additional parameters for the target of a rule via `HttpParameters`, including query strings, the parameters added for the connection take precedence.

Type: [ConnectionHttpParameters](#) object

Required: No

### OAuthParameters

A `CreateConnectionOAuthRequestParameters` object that contains 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

Contains the Basic authorization parameters to use for the connection.

## Contents

### ClientID

The client ID to use for OAuth authorization for the connection.

Type: String

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

Pattern: `^[ \t]*[^\x00-\x1F:\x7F]+([\ \t]+[^\x00-\x1F:\x7F]+)*[ \t]*$`

Required: Yes

### ClientSecret

The client secret associated with the client ID to use for OAuth authorization for the connection.

Type: String

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

Pattern: `^[ \t]*[^\x00-\x1F:\x7F]+([\ \t]+[^\x00-\x1F:\x7F]+)*[ \t]*$`

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# CreateConnectionOAuthRequestParameters

Contains the OAuth authorization parameters to use for the connection.

## Contents

### AuthorizationEndpoint

The URL to the authorization endpoint when OAuth is specified as the authorization type.

Type: String

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

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

Required: Yes

### ClientParameters

A `CreateConnectionOAuthClientRequestParameters` object that contains the client parameters for OAuth authorization.

Type: [CreateConnectionOAuthClientRequestParameters](#) object

Required: Yes

### HttpMethod

The method to use for the authorization request.

Type: String

Valid Values: GET | POST | PUT

Required: Yes

### OAuthHttpParameters

A `ConnectionHttpParameters` object that contains details about the additional parameters to use for the connection.

Type: [ConnectionHttpParameters](#) 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](#)

# 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]{2}-[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 `InputPathsMap` 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 mark with a slash, as in the following example:

```
"InputTransformer":  
  
{  
  
  "InputPathsMap": {"instance": "$.detail.instance", "status":  
    "$.detail.status"},  
  
  "InputTemplate": "<instance> is in state \"<status>\""
```

```
}
```

The `InputTemplate` can also be valid JSON with variables in quotes or out, as in the following example:

```
"InputTransformer":
```

```
{
```

```
"InputPathsMap": {"instance": "$.detail.instance", "status":  
"$detail.status"},
```

```
"InputTemplate": '{"myInstance": <instance>, "myStatus": "<instance> is  
in state \<status>\\""}'
```

```
}
```

Type: String

Length Constraints: Minimum length of 1. Maximum length of 8192.

Required: Yes

### **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](#)

# 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 `instancetype` (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]{2}-[a-z]+-[\w-]+:[0-9]{12}:event-bus\w)?[\.\-_\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.

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 Model Building Pipeline.

## Contents

### Name

Name of parameter to start execution of a SageMaker Model Building Pipeline.

Type: String

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

Pattern: `^[a-zA-Z0-9](-*[a-zA-Z0-9])*$`

Required: Yes

### Value

Value of parameter to start execution of a SageMaker Model Building Pipeline.

Type: String

Length Constraints: Maximum length of 1024.

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# SageMakerPipelineParameters

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

## Contents

### PipelineParameterList

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

Type: Array of [SageMakerPipelineParameter](#) 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

This structure includes the custom parameter to be used when the target is an SQS FIFO queue.

## Contents

### MessageGroupId

The FIFO message group ID to use as the target.

Type: String

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 RetryPolicy object that contains 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 Model Building Pipeline parameters to start execution of a SageMaker Model Building Pipeline.

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

Type: [SageMakerPipelineParameters](#) object

Required: No

## SqsParameters

Contains the message group ID to use when the target is a FIFO queue.

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

Type: [SqsParameters](#) 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

A `UpdateConnectionApiKeyAuthRequestParameters` object that contains the authorization parameters for API key authorization.

Type: [UpdateConnectionApiKeyAuthRequestParameters](#) object

Required: No

### BasicAuthParameters

A `UpdateConnectionBasicAuthRequestParameters` object that contains the authorization parameters for Basic authorization.

Type: [UpdateConnectionBasicAuthRequestParameters](#) object

Required: No

### InvocationHttpParameters

A `ConnectionHttpParameters` object that contains the additional parameters to use for the connection.

Type: [ConnectionHttpParameters](#) object

Required: No

### OAuthParameters

A `UpdateConnectionOAuthRequestParameters` object that contains 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

Contains the Basic authorization parameters for the connection.

## Contents

### Password

The password associated with the user name to use for Basic authorization.

Type: String

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

Pattern: `^[ \t]*[^\x00-\x1F:\x7F]+([\t]+[^\x00-\x1F:\x7F]+)*[ \t]*$`

Required: No

### Username

The user name to use for Basic authorization.

Type: String

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

Pattern: `^[ \t]*[^\x00-\x1F:\x7F]+([\t]+[^\x00-\x1F:\x7F]+)*[ \t]*$`

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# UpdateConnectionOAuthClientRequestParameters

Contains the OAuth authorization parameters to use for the connection.

## Contents

### ClientID

The client ID to use for OAuth authorization.

Type: String

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

Pattern: `^[ \t]*[^\x00-\x1F:\x7F]+([\ \t]+[^\x00-\x1F:\x7F]+)*[ \t]*$`

Required: No

### ClientSecret

The client secret associated with the client ID to use for OAuth authorization.

Type: String

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

Pattern: `^[ \t]*[^\x00-\x1F:\x7F]+([\ \t]+[^\x00-\x1F:\x7F]+)*[ \t]*$`

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# UpdateConnectionOAuthRequestParameters

Contains the OAuth request parameters to use for the connection.

## Contents

### AuthorizationEndpoint

The URL to the authorization endpoint when OAuth is specified as the authorization type.

Type: String

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

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

Required: No

### ClientParameters

A `UpdateConnectionOAuthClientRequestParameters` object that contains the client parameters to use for the connection when OAuth is specified as the authorization type.

Type: [UpdateConnectionOAuthClientRequestParameters](#) 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*.

## Action

The action to be performed.

Type: string

Required: Yes

## Version

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

Type: string

Required: Yes

## X-Amz-Algorithm

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

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

Type: string

Valid Values: AWS4-HMAC-SHA256

Required: Conditional

## X-Amz-Credential

The credential scope value, which is a string that includes your access key, the date, the region you are targeting, the service you are requesting, and a termination string ("aws4\_request"). The value is expressed in the following format: *access\_key/YYYYMMDD/region/service/aws4\_request*.



For more information, see [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 Errors

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

## **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 400

## **IncompleteSignature**

The request signature does not conform to AWS standards.

HTTP Status Code: 400

## **InternalFailure**

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

HTTP Status Code: 500

## **InvalidAction**

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

HTTP Status Code: 400

## **InvalidClientTokenId**

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

HTTP Status Code: 403

## **NotAuthorized**

You do not have permission to perform this action.

HTTP Status Code: 400

## **OptInRequired**

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

HTTP Status Code: 403

**RequestExpired**

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

HTTP Status Code: 400

**ServiceUnavailable**

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

HTTP Status Code: 503

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 400

**ValidationError**

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

HTTP Status Code: 400