aws

APIReference

Amazon EventBridge Pipes

API Version 2015-10-07

Amazon EventBridge Pipes: APIReference

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Welcome

Amazon EventBridge Pipes connects event sources to targets. Pipes reduces the need for specialized knowledge and integration code when developing event driven architectures. This helps ensures consistency across your company's applications. With Pipes, the target can be any available EventBridge target. To set up a pipe, you select the event source, add optional event filtering, define optional enrichment, and select the target for the event data.

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Actions

The following actions are supported:

- CreatePipe
- DeletePipe
- DescribePipe
- ListPipes
- ListTagsForResource
- StartPipe
- StopPipe
- TagResource
- UntagResource
- UpdatePipe

CreatePipe

Create a pipe. Amazon EventBridge Pipes connect event sources to targets and reduces the need for specialized knowledge and integration code.

Request Syntax

```
POST /v1/pipes/Name HTTP/1.1
Content-type: application/json

{
   "Description": "string",
   "DesiredState": "string",
   "Enrichment": "string",
   "EnrichmentParameters": {
      "HttpParameters": {
         "HeaderParameters": {
            "string" : "string"
         },
         "PathParameterValues": [ "string" ],
         "QueryStringParameters": {
            "string" : "string"
         }
      },
      "InputTemplate": "string"
   },
   "LogConfiguration": {
      "CloudwatchLogsLogDestination": {
         "LogGroupArn": "string"
      },
      "FirehoseLogDestination": {
         "DeliveryStreamArn": "string"
      },
      "IncludeExecutionData": [ "string" ],
      "Level": "string",
      "S3LogDestination": {
         "BucketName": "string",
         "BucketOwner": "string",
         "OutputFormat": "string",
         "Prefix": "string"
      }
   },
   "RoleArn": "string",
```

```
   "Source": "string",
   "SourceParameters": {
      "ActiveMQBrokerParameters": {
         "BatchSize": number,
         "Credentials": { ... },
         "MaximumBatchingWindowInSeconds": number,
         "QueueName": "string"
      },
      "DynamoDBStreamParameters": {
         "BatchSize": number,
         "DeadLetterConfig": {
            "Arn": "string"
         },
         "MaximumBatchingWindowInSeconds": number,
         "MaximumRecordAgeInSeconds": number,
         "MaximumRetryAttempts": number,
         "OnPartialBatchItemFailure": "string",
         "ParallelizationFactor": number,
         "StartingPosition": "string"
      },
      "FilterCriteria": {
         "Filters": [
            {
               "Pattern": "string"
            }
         ]
      },
      "KinesisStreamParameters": {
         "BatchSize": number,
         "DeadLetterConfig": {
            "Arn": "string"
         },
         "MaximumBatchingWindowInSeconds": number,
         "MaximumRecordAgeInSeconds": number,
         "MaximumRetryAttempts": number,
         "OnPartialBatchItemFailure": "string",
         "ParallelizationFactor": number,
         "StartingPosition": "string",
         "StartingPositionTimestamp": number
      },
      "ManagedStreamingKafkaParameters": {
         "BatchSize": number,
         "ConsumerGroupID": "string",
         "Credentials": { ... },
```

```
            "MaximumBatchingWindowInSeconds": number,
            "StartingPosition": "string",
            "TopicName": "string"
         },
         "RabbitMQBrokerParameters": {
            "BatchSize": number,
            "Credentials": { ... },
            "MaximumBatchingWindowInSeconds": number,
            "QueueName": "string",
            "VirtualHost": "string"
         },
         "SelfManagedKafkaParameters": {
            "AdditionalBootstrapServers": [ "string" ],
            "BatchSize": number,
            "ConsumerGroupID": "string",
            "Credentials": { ... },
            "MaximumBatchingWindowInSeconds": number,
            "ServerRootCaCertificate": "string",
            "StartingPosition": "string",
            "TopicName": "string",
            "Vpc": {
               "SecurityGroup": [ "string" ],
               "Subnets": [ "string" ]
            }
         },
         "SqsQueueParameters": {
            "BatchSize": number,
            "MaximumBatchingWindowInSeconds": number
         }
      },
      "Tags": {
         "string" : "string"
      },
      "Target": "string",
      "TargetParameters": {
         "BatchJobParameters": {
            "ArrayProperties": {
               "Size": number
            },
            "ContainerOverrides": {
               "Command": [ "string" ],
               "Environment": [
                  {
                     "Name": "string",
```

```
                "Value": "string"
             }
          ],
          "InstanceType": "string",
          "ResourceRequirements": [
             {
                "Type": "string",
                "Value": "string"
             }
          ]
       },
       "DependsOn": [
          {
             "JobId": "string",
             "Type": "string"
          }
       ],
       "JobDefinition": "string",
       "JobName": "string",
       "Parameters": {
          "string" : "string"
       },
       "RetryStrategy": {
          "Attempts": number
       }
    },
    "CloudWatchLogsParameters": {
       "LogStreamName": "string",
       "Timestamp": "string"
    },
    "EcsTaskParameters": {
       "CapacityProviderStrategy": [
          {
             "base": number,
             "capacityProvider": "string",
             "weight": number
          }
       ],
       "EnableECSManagedTags": boolean,
       "EnableExecuteCommand": boolean,
       "Group": "string",
       "LaunchType": "string",
       "NetworkConfiguration": {
          "awsvpcConfiguration": {
```

```
            "AssignPublicIp": "string",
            "SecurityGroups": [ "string" ],
            "Subnets": [ "string" ]
         }
      },
      "Overrides": {
         "ContainerOverrides": [
            {
               "Command": [ "string" ],
               "Cpu": number,
               "Environment": [
                  {
                     "name": "string",
                     "value": "string"
                  }
               ],
               "EnvironmentFiles": [
                  {
                     "type": "string",
                     "value": "string"
                  }
               ],
               "Memory": number,
               "MemoryReservation": number,
               "Name": "string",
               "ResourceRequirements": [
                  {
                     "type": "string",
                     "value": "string"
                  }
               ]
            }
         ],
         "Cpu": "string",
         "EphemeralStorage": {
            "sizeInGiB": number
         },
         "ExecutionRoleArn": "string",
         "InferenceAcceleratorOverrides": [
            {
               "deviceName": "string",
               "deviceType": "string"
            }
         ],
```

```
            "Memory": "string",
            "TaskRoleArn": "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"
      },
      "EventBridgeEventBusParameters": {
         "DetailType": "string",
         "EndpointId": "string",
         "Resources": [ "string" ],
         "Source": "string",
         "Time": "string"
      },
      "HttpParameters": {
         "HeaderParameters": {
            "string" : "string"
         },
         "PathParameterValues": [ "string" ],
         "QueryStringParameters": {
            "string" : "string"
         }
      },
      "InputTemplate": "string",
```

```
      "KinesisStreamParameters": {
         "PartitionKey": "string"
      },
      "LambdaFunctionParameters": {
         "InvocationType": "string"
      },
      "RedshiftDataParameters": {
         "Database": "string",
         "DbUser": "string",
         "SecretManagerArn": "string",
         "Sqls": [ "string" ],
         "StatementName": "string",
         "WithEvent": boolean
      },
      "SageMakerPipelineParameters": {
         "PipelineParameterList": [
            {
               "Name": "string",
               "Value": "string"
            }
         ]
      },
      "SqsQueueParameters": {
         "MessageDeduplicationId": "string",
         "MessageGroupId": "string"
      },
      "StepFunctionStateMachineParameters": {
         "InvocationType": "string"
      },
      "TimestreamParameters": {
         "DimensionMappings": [
            {
               "DimensionName": "string",
               "DimensionValue": "string",
               "DimensionValueType": "string"
            }
         ],
         "EpochTimeUnit": "string",
         "MultiMeasureMappings": [
            {
               "MultiMeasureAttributeMappings": [
                  {
                     "MeasureValue": "string",
                     "MeasureValueType": "string",
```

```
                    "MultiMeasureAttributeName": "string"
                 }
              ],
              "MultiMeasureName": "string"
           }
        ],
        "SingleMeasureMappings": [
           {
              "MeasureName": "string",
              "MeasureValue": "string",
              "MeasureValueType": "string"
           }
        ],
        "TimeFieldType": "string",
        "TimestampFormat": "string",
        "TimeValue": "string",
        "VersionValue": "string"
     }
  }
}
```

URI Request Parameters

The request uses the following URI parameters.

Name

The name of the pipe.

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

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

Required: Yes

Request Body

The request accepts the following data in JSON format.

Description

A description of the pipe.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 512.

Pattern: `.*`

Required: No

DesiredState

The state the pipe should be in.

Type: String

Valid Values: `RUNNING | STOPPED`

Required: No

Enrichment

The ARN of the enrichment resource.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1600.

Pattern: `$|arn:(aws[a-zA-Z0-9-]*):([a-zA-Z0-9\-]+):([a-z]{2}((-gov)|(-iso(b?)))?-[a-z]+-\d{1})?:(\d{12})?:(.+)`

Required: No

EnrichmentParameters

The parameters required to set up enrichment on your pipe.

Type: PipeEnrichmentParameters object

Required: No

LogConfiguration

The logging configuration settings for the pipe.

Type: PipeLogConfigurationParameters object

Required: No

RoleArn

The ARN of the role that allows the pipe to send data to the target.

Type: String

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

Pattern: `arn:(aws[a-zA-Z-]*)?:iam::\d{12}:role/?[a-zA-Z0-9+=,.@\-_/]+`

Required: Yes

Source

The ARN of the source resource.

Type: String

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

Pattern: `smk://([a-zA-Z0-9]|[a-zA-Z0-9][a-zA-Z0-9\-]*[a-zA-Z0-9])\.)*([A-Za-z0-9]|[A-Za-z0-9][A-Za-z0-9\-]*[A-Za-z0-9]):[0-9]{1,5}|arn:(aws[a-zA-Z0-9-]*):([a-zA-Z0-9\-]+):([a-z]{2}((-gov)|(-iso(b?)))?-[a-z]+-\d{1})?:(\d{12})?:(.+)`

Required: Yes

SourceParameters

The parameters required to set up a source for your pipe.

Type: PipeSourceParameters object

Required: No

Tags

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

Type: String to string map

Map Entries: Maximum number of 50 items.

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

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

Target

The ARN of the target resource.

Type: String

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

Pattern: `arn:(aws[a-zA-Z0-9-]*):([a-zA-Z0-9\-]+):([a-z]{2}((-gov)|(-iso(b?)))?-[a-z]+-\d{1})?:(\d{12})?:(.+)`

Required: Yes

TargetParameters

The parameters required to set up a target for your pipe.

For more information about pipe target parameters, including how to use dynamic path parameters, see Target parameters in the *Amazon EventBridge User Guide*.

Type: PipeTargetParameters object

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "Arn": "string",
   "CreationTime": number,
   "CurrentState": "string",
   "DesiredState": "string",
   "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.

Arn

The ARN of the pipe.

Type: String

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

Pattern: `arn:aws([a-z]|\-)*:([a-zA-Z0-9\-]+):([a-z]|\d|\-)*:([0-9]{12})?:(.+)`

CreationTime

The time the pipe was created.

Type: Timestamp

CurrentState

The state the pipe is in.

Type: String

Valid Values: `RUNNING | STOPPED | CREATING | UPDATING | DELETING | STARTING | STOPPING | CREATE_FAILED | UPDATE_FAILED | START_FAILED | STOP_FAILED | DELETE_FAILED | CREATE_ROLLBACK_FAILED | DELETE_ROLLBACK_FAILED | UPDATE_ROLLBACK_FAILED`

DesiredState

The state the pipe should be in.

Type: String

Valid Values: `RUNNING | STOPPED`

LastModifiedTime

When the pipe was last updated, in ISO-8601 format (YYYY-MM-DDThh:mm:ss.sTZD).

Type: Timestamp

Name

The name of the pipe.

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.

ConflictException

An action you attempted resulted in an exception.

HTTP Status Code: 409

InternalException

This exception occurs due to unexpected causes.

HTTP Status Code: 500

NotFoundException

An entity that you specified does not exist.

HTTP Status Code: 404

ServiceQuotaExceededException

A quota has been exceeded.

HTTP Status Code: 402

ThrottlingException

An action was throttled.

HTTP Status Code: 429

ValidationException

Indicates that an error has occurred while performing a validate operation.

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

DeletePipe

Delete an existing pipe. For more information about pipes, see Amazon EventBridge Pipes in the Amazon EventBridge User Guide.

Request Syntax

```
DELETE /v1/pipes/Name HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

Name

The name of the pipe.

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

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

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "Arn": "string",
   "CreationTime": number,
   "CurrentState": "string",
   "DesiredState": "string",
   "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.

Arn

The ARN of the pipe.

Type: String

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

Pattern: `arn:aws([a-z]|\-)*:([a-zA-Z0-9\-]+):([a-z]|\d|\-)*:([0-9]{12})?:(.+)`

CreationTime

The time the pipe was created.

Type: Timestamp

CurrentState

The state the pipe is in.

Type: String

Valid Values: `RUNNING | STOPPED | CREATING | UPDATING | DELETING | STARTING | STOPPING | CREATE_FAILED | UPDATE_FAILED | START_FAILED | STOP_FAILED | DELETE_FAILED | CREATE_ROLLBACK_FAILED | DELETE_ROLLBACK_FAILED | UPDATE_ROLLBACK_FAILED`

DesiredState

The state the pipe should be in.

Type: String

Valid Values: `RUNNING | STOPPED | DELETED`

LastModifiedTime

When the pipe was last updated, in ISO-8601 format (YYYY-MM-DDThh:mm:ss.sTZD).

Type: Timestamp

Name

The name of the pipe.

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.

ConflictException

An action you attempted resulted in an exception.

HTTP Status Code: 409

InternalException

This exception occurs due to unexpected causes.

HTTP Status Code: 500

NotFoundException

An entity that you specified does not exist.

HTTP Status Code: 404

ThrottlingException

An action was throttled.

HTTP Status Code: 429

ValidationException

Indicates that an error has occurred while performing a validate operation.

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

DescribePipe

Get the information about an existing pipe. For more information about pipes, see Amazon EventBridge Pipes in the Amazon EventBridge User Guide.

Request Syntax

```
GET /v1/pipes/Name HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

Name

The name of the pipe.

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

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

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "Arn": "string",
   "CreationTime": number,
   "CurrentState": "string",
   "Description": "string",
   "DesiredState": "string",
   "Enrichment": "string",
   "EnrichmentParameters": {
      "HttpParameters": {
```

```
        "HeaderParameters": {
           "string" : "string"
        },
        "PathParameterValues": [ "string" ],
        "QueryStringParameters": {
           "string" : "string"
        }
     },
     "InputTemplate": "string"
  },
  "LastModifiedTime": number,
  "LogConfiguration": {
     "CloudwatchLogsLogDestination": {
        "LogGroupArn": "string"
     },
     "FirehoseLogDestination": {
        "DeliveryStreamArn": "string"
     },
     "IncludeExecutionData": [ "string" ],
     "Level": "string",
     "S3LogDestination": {
        "BucketName": "string",
        "BucketOwner": "string",
        "OutputFormat": "string",
        "Prefix": "string"
     }
  },
  "Name": "string",
  "RoleArn": "string",
  "Source": "string",
  "SourceParameters": {
     "ActiveMQBrokerParameters": {
        "BatchSize": number,
        "Credentials": { ... },
        "MaximumBatchingWindowInSeconds": number,
        "QueueName": "string"
     },
     "DynamoDBStreamParameters": {
        "BatchSize": number,
        "DeadLetterConfig": {
           "Arn": "string"
        },
        "MaximumBatchingWindowInSeconds": number,
        "MaximumRecordAgeInSeconds": number,
```

```
            "MaximumRetryAttempts": number,
            "OnPartialBatchItemFailure": "string",
            "ParallelizationFactor": number,
            "StartingPosition": "string"
         },
         "FilterCriteria": {
            "Filters": [
               {
                  "Pattern": "string"
               }
            ]
         },
         "KinesisStreamParameters": {
            "BatchSize": number,
            "DeadLetterConfig": {
               "Arn": "string"
            },
            "MaximumBatchingWindowInSeconds": number,
            "MaximumRecordAgeInSeconds": number,
            "MaximumRetryAttempts": number,
            "OnPartialBatchItemFailure": "string",
            "ParallelizationFactor": number,
            "StartingPosition": "string",
            "StartingPositionTimestamp": number
         },
         "ManagedStreamingKafkaParameters": {
            "BatchSize": number,
            "ConsumerGroupID": "string",
            "Credentials": { ... },
            "MaximumBatchingWindowInSeconds": number,
            "StartingPosition": "string",
            "TopicName": "string"
         },
         "RabbitMQBrokerParameters": {
            "BatchSize": number,
            "Credentials": { ... },
            "MaximumBatchingWindowInSeconds": number,
            "QueueName": "string",
            "VirtualHost": "string"
         },
         "SelfManagedKafkaParameters": {
            "AdditionalBootstrapServers": [ "string" ],
            "BatchSize": number,
            "ConsumerGroupID": "string",
```

```
         "Credentials": { ... },
         "MaximumBatchingWindowInSeconds": number,
         "ServerRootCaCertificate": "string",
         "StartingPosition": "string",
         "TopicName": "string",
         "Vpc": {
            "SecurityGroup": [ "string" ],
            "Subnets": [ "string" ]
         }
      },
      "SqsQueueParameters": {
         "BatchSize": number,
         "MaximumBatchingWindowInSeconds": number
      }
   },
   "StateReason": "string",
   "Tags": {
      "string" : "string"
   },
   "Target": "string",
   "TargetParameters": {
      "BatchJobParameters": {
         "ArrayProperties": {
            "Size": number
         },
         "ContainerOverrides": {
            "Command": [ "string" ],
            "Environment": [
               {
                  "Name": "string",
                  "Value": "string"
               }
            ],
            "InstanceType": "string",
            "ResourceRequirements": [
               {
                  "Type": "string",
                  "Value": "string"
               }
            ]
         },
         "DependsOn": [
            {
               "JobId": "string",
```

```
            "Type": "string"
         }
      ],
      "JobDefinition": "string",
      "JobName": "string",
      "Parameters": {
         "string" : "string"
      },
      "RetryStrategy": {
         "Attempts": number
      }
   },
   "CloudWatchLogsParameters": {
      "LogStreamName": "string",
      "Timestamp": "string"
   },
   "EcsTaskParameters": {
      "CapacityProviderStrategy": [
         {
            "base": number,
            "capacityProvider": "string",
            "weight": number
         }
      ],
      "EnableECSManagedTags": boolean,
      "EnableExecuteCommand": boolean,
      "Group": "string",
      "LaunchType": "string",
      "NetworkConfiguration": {
         "awsvpcConfiguration": {
            "AssignPublicIp": "string",
            "SecurityGroups": [ "string" ],
            "Subnets": [ "string" ]
         }
      },
      "Overrides": {
         "ContainerOverrides": [
            {
               "Command": [ "string" ],
               "Cpu": number,
               "Environment": [
                  {
                     "name": "string",
                     "value": "string"
```

```
                    }
                ],
                "EnvironmentFiles": [
                    {
                        "type": "string",
                        "value": "string"
                    }
                ],
                "Memory": number,
                "MemoryReservation": number,
                "Name": "string",
                "ResourceRequirements": [
                    {
                        "type": "string",
                        "value": "string"
                    }
                ]
            }
        ],
        "Cpu": "string",
        "EphemeralStorage": {
            "sizeInGiB": number
        },
        "ExecutionRoleArn": "string",
        "InferenceAcceleratorOverrides": [
            {
                "deviceName": "string",
                "deviceType": "string"
            }
        ],
        "Memory": "string",
        "TaskRoleArn": "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"
      },
      "EventBridgeEventBusParameters": {
         "DetailType": "string",
         "EndpointId": "string",
         "Resources": [ "string" ],
         "Source": "string",
         "Time": "string"
      },
      "HttpParameters": {
         "HeaderParameters": {
            "string" : "string"
         },
         "PathParameterValues": [ "string" ],
         "QueryStringParameters": {
            "string" : "string"
         }
      },
      "InputTemplate": "string",
      "KinesisStreamParameters": {
         "PartitionKey": "string"
      },
      "LambdaFunctionParameters": {
         "InvocationType": "string"
      },
      "RedshiftDataParameters": {
         "Database": "string",
         "DbUser": "string",
         "SecretManagerArn": "string",
         "Sqls": [ "string" ],
         "StatementName": "string",
         "WithEvent": boolean
      },
```

```
      "SageMakerPipelineParameters": {
         "PipelineParameterList": [
            {
               "Name": "string",
               "Value": "string"
            }
         ]
      },
      "SqsQueueParameters": {
         "MessageDeduplicationId": "string",
         "MessageGroupId": "string"
      },
      "StepFunctionStateMachineParameters": {
         "InvocationType": "string"
      },
      "TimestreamParameters": {
         "DimensionMappings": [
            {
               "DimensionName": "string",
               "DimensionValue": "string",
               "DimensionValueType": "string"
            }
         ],
         "EpochTimeUnit": "string",
         "MultiMeasureMappings": [
            {
               "MultiMeasureAttributeMappings": [
                  {
                     "MeasureValue": "string",
                     "MeasureValueType": "string",
                     "MultiMeasureAttributeName": "string"
                  }
               ],
               "MultiMeasureName": "string"
            }
         ],
         "SingleMeasureMappings": [
            {
               "MeasureName": "string",
               "MeasureValue": "string",
               "MeasureValueType": "string"
            }
         ],
         "TimeFieldType": "string",
```

```
            "TimestampFormat": "string",
            "TimeValue": "string",
            "VersionValue": "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 pipe.

Type: String

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

Pattern: `arn:aws([a-z]|\-)*:([a-zA-Z0-9\-]+):([a-z]|\d|\-)*:([0-9]{12})?:(.+)`

CreationTime

The time the pipe was created.

Type: Timestamp

CurrentState

The state the pipe is in.

Type: String

Valid Values: `RUNNING | STOPPED | CREATING | UPDATING | DELETING | STARTING | STOPPING | CREATE_FAILED | UPDATE_FAILED | START_FAILED | STOP_FAILED | DELETE_FAILED | CREATE_ROLLBACK_FAILED | DELETE_ROLLBACK_FAILED | UPDATE_ROLLBACK_FAILED`

Description

A description of the pipe.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 512.

Pattern: `.*`

DesiredState

The state the pipe should be in.

Type: String

Valid Values: `RUNNING | STOPPED | DELETED`

Enrichment

The ARN of the enrichment resource.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1600.

Pattern: `$|arn:(aws[a-zA-Z0-9-]*):([a-zA-Z0-9\-]+):([a-z]{2}((-gov)|(-iso(b?)))?-[a-z]+-\d{1})?:(\d{12})?:(.+)`

EnrichmentParameters

The parameters required to set up enrichment on your pipe.

Type: PipeEnrichmentParameters object

LastModifiedTime

When the pipe was last updated, in ISO-8601 format (YYYY-MM-DDThh:mm:ss.sTZD).

Type: Timestamp

LogConfiguration

The logging configuration settings for the pipe.

Type: PipeLogConfiguration object

Name

The name of the pipe.

Type: String

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

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

RoleArn

The ARN of the role that allows the pipe to send data to the target.

Type: String

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

Pattern: `arn:(aws[a-zA-Z-]*)?:iam::\d{12}:role/?[a-zA-Z0-9+=,.@\-_/]+`

Source

The ARN of the source resource.

Type: String

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

Pattern: `smk://(([a-zA-Z0-9]|[a-zA-Z0-9][a-zA-Z0-9\-]*[a-zA-Z0-9])\.)*([A-Za-z0-9]|[A-Za-z0-9][A-Za-z0-9\-]*[A-Za-z0-9]):[0-9]{1,5}|arn:(aws[a-zA-Z0-9-]*):([a-zA-Z0-9\-]+):([a-z]{2}((-gov)|(-iso(b?)))?-[a-z]+-\d{1})?:(\d{12})?:(.+)`

SourceParameters

The parameters required to set up a source for your pipe.

Type: PipeSourceParameters object

StateReason

The reason the pipe is in its current state.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 512.

Pattern: `.*`

Tags

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

Type: String to string map

Map Entries: Maximum number of 50 items.

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

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Target

The ARN of the target resource.

Type: String

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

Pattern: `arn:(aws[a-zA-Z0-9-]*):([a-zA-Z0-9\-]+):([a-z]{2}((-gov)|(-iso(b?)))?-[a-z]+-\d{1})?:(\d{12})?:(.+)`

TargetParameters

The parameters required to set up a target for your pipe.

For more information about pipe target parameters, including how to use dynamic path parameters, see Target parameters in the *Amazon EventBridge User Guide*.

Type: PipeTargetParameters object

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

NotFoundException

An entity that you specified does not exist.

HTTP Status Code: 404

ThrottlingException

An action was throttled.

HTTP Status Code: 429

ValidationException

Indicates that an error has occurred while performing a validate operation.

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

ListPipes

Get the pipes associated with this account. For more information about pipes, see Amazon EventBridge Pipes in the Amazon EventBridge User Guide.

Request Syntax

```
GET /v1/pipes?
CurrentState=CurrentState&DesiredState=DesiredState&Limit=Limit&NamePrefix=NamePrefix&NextToken
 HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

CurrentState

The state the pipe is in.

Valid Values: `RUNNING | STOPPED | CREATING | UPDATING | DELETING | STARTING | STOPPING | CREATE_FAILED | UPDATE_FAILED | START_FAILED | STOP_FAILED | DELETE_FAILED | CREATE_ROLLBACK_FAILED | DELETE_ROLLBACK_FAILED | UPDATE_ROLLBACK_FAILED`

DesiredState

The state the pipe should be in.

Valid Values: `RUNNING | STOPPED`

Limit

The maximum number of pipes to include in the response.

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

NamePrefix

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

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

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

NextToken

If `nextToken` is returned, there are more results available. The value of `nextToken` is a unique pagination token for each page. Make the call again using the returned token to retrieve the next page. Keep all other arguments unchanged. Each pagination token expires after 24 hours. Using an expired pagination token will return an HTTP 400 InvalidToken error.

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

SourcePrefix

The prefix matching the pipe source.

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

TargetPrefix

The prefix matching the pipe target.

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

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "NextToken": "string",
   "Pipes": [
      {
         "Arn": "string",
         "CreationTime": number,
         "CurrentState": "string",
         "DesiredState": "string",
         "Enrichment": "string",
         "LastModifiedTime": number,
         "Name": "string",
```

```
            "Source": "string",
            "StateReason": "string",
            "Target": "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

If `nextToken` is returned, there are more results available. The value of `nextToken` is a unique pagination token for each page. Make the call again using the returned token to retrieve the next page. Keep all other arguments unchanged. Each pagination token expires after 24 hours. Using an expired pagination token will return an HTTP 400 InvalidToken error.

Type: String

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

Pipes

The pipes returned by the call.

Type: Array of Pipe 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

ThrottlingException

An action was throttled.

HTTP Status Code: 429

ValidationException

Indicates that an error has occurred while performing a validate operation.

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

ListTagsForResource

Displays the tags associated with a pipe.

Request Syntax

```
GET /tags/resourceArn HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

resourceArn

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

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

Pattern: `arn:aws([a-z]|\-)*:([a-zA-Z0-9\-]+):([a-z]|\d|\-)*:([0-9]{12})?:(.+)`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "tags": {
      "string" : "string"
   }
}
```

Response Elements

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

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

tags

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

Type: String to string map

Map Entries: Maximum number of 50 items.

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

Value Length Constraints: Minimum length of 0. Maximum length of 256.

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

NotFoundException

An entity that you specified does not exist.

HTTP Status Code: 404

ValidationException

Indicates that an error has occurred while performing a validate operation.

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

StartPipe

Start an existing pipe.

Request Syntax

```
POST /v1/pipes/Name/start HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

Name

The name of the pipe.

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

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

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "Arn": "string",
   "CreationTime": number,
   "CurrentState": "string",
   "DesiredState": "string",
   "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.

Arn

The ARN of the pipe.

Type: String

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

Pattern: `arn:aws([a-z]|\-)*:([a-zA-Z0-9\-]+):([a-z]|\d|\-)*:([0-9]{12})?:(.+)`

CreationTime

The time the pipe was created.

Type: Timestamp

CurrentState

The state the pipe is in.

Type: String

Valid Values: `RUNNING | STOPPED | CREATING | UPDATING | DELETING | STARTING | STOPPING | CREATE_FAILED | UPDATE_FAILED | START_FAILED | STOP_FAILED | DELETE_FAILED | CREATE_ROLLBACK_FAILED | DELETE_ROLLBACK_FAILED | UPDATE_ROLLBACK_FAILED`

DesiredState

The state the pipe should be in.

Type: String

Valid Values: `RUNNING | STOPPED`

LastModifiedTime

When the pipe was last updated, in ISO-8601 format (YYYY-MM-DDThh:mm:ss.sTZD).

Type: Timestamp

Name

The name of the pipe.

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.

ConflictException

An action you attempted resulted in an exception.

HTTP Status Code: 409

InternalException

This exception occurs due to unexpected causes.

HTTP Status Code: 500

NotFoundException

An entity that you specified does not exist.

HTTP Status Code: 404

ThrottlingException

An action was throttled.

HTTP Status Code: 429

ValidationException

Indicates that an error has occurred while performing a validate operation.

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

StopPipe

Stop an existing pipe.

Request Syntax

```
POST /v1/pipes/Name/stop HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

Name

The name of the pipe.

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

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

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "Arn": "string",
   "CreationTime": number,
   "CurrentState": "string",
   "DesiredState": "string",
   "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.

Arn

The ARN of the pipe.

Type: String

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

Pattern: `arn:aws([a-z]|\-)*:([a-zA-Z0-9\-]+):([a-z]|\d|\-)*:([0-9]{12})?:(.+)`

CreationTime

The time the pipe was created.

Type: Timestamp

CurrentState

The state the pipe is in.

Type: String

Valid Values: `RUNNING | STOPPED | CREATING | UPDATING | DELETING | STARTING | STOPPING | CREATE_FAILED | UPDATE_FAILED | START_FAILED | STOP_FAILED | DELETE_FAILED | CREATE_ROLLBACK_FAILED | DELETE_ROLLBACK_FAILED | UPDATE_ROLLBACK_FAILED`

DesiredState

The state the pipe should be in.

Type: String

Valid Values: `RUNNING | STOPPED`

LastModifiedTime

When the pipe was last updated, in ISO-8601 format (YYYY-MM-DDThh:mm:ss.sTZD).

Type: Timestamp

Name

The name of the pipe.

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.

ConflictException

An action you attempted resulted in an exception.

HTTP Status Code: 409

InternalException

This exception occurs due to unexpected causes.

HTTP Status Code: 500

NotFoundException

An entity that you specified does not exist.

HTTP Status Code: 404

ThrottlingException

An action was throttled.

HTTP Status Code: 429

ValidationException

Indicates that an error has occurred while performing a validate operation.

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 pipe. Tags can help you organize and categorize your resources. You can also use them to scope user permission to access or change only resources with certain tag values.

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 pipe that already has tags. If you specify a new tag key, this tag is appended to the list of tags associated with the pipe. If you specify a tag key that is already associated with the pipe, the new tag value that you specify replaces the previous value for that tag.

You can associate as many as 50 tags with a pipe.

Request Syntax

```
POST /tags/resourceArn HTTP/1.1
Content-type: application/json

{
   "tags": {
      "string" : "string"
   }
}
```

URI Request Parameters

The request uses the following URI parameters.

resourceArn

The ARN of the pipe.

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

Pattern: `arn:aws([a-z]|\-)*:([a-zA-Z0-9\-]+):([a-z]|\d|\-)*:([0-9]{12})?:(.+)`

Required: Yes

Request Body

The request accepts the following data in JSON format.

tags

The list of key-value pairs associated with the pipe.

Type: String to string map

Map Entries: Maximum number of 50 items.

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

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: Yes

Response Syntax

```
HTTP/1.1 200
```

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.

InternalException

This exception occurs due to unexpected causes.

HTTP Status Code: 500

NotFoundException

An entity that you specified does not exist.

HTTP Status Code: 404

ValidationException

Indicates that an error has occurred while performing a validate operation.

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

UntagResource

Removes one or more tags from the specified pipes.

Request Syntax

```
DELETE /tags/resourceArn?tagKeys=tagKeys HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

resourceArn

The ARN of the pipe.

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

Pattern: `arn:aws([a-z]|\-)*:([a-zA-Z0-9\-]+):([a-z]|\d|\-)*:([0-9]{12})?:(.+)`

Required: Yes

tagKeys

The list of tag keys to remove from the pipe.

Array Members: Minimum number of 0 items. Maximum number of 50 items.

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

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

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.

InternalException

This exception occurs due to unexpected causes.

HTTP Status Code: 500

NotFoundException

An entity that you specified does not exist.

HTTP Status Code: 404

ValidationException

Indicates that an error has occurred while performing a validate operation.

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

UpdatePipe

Update an existing pipe. When you call `UpdatePipe`, EventBridge only the updates fields you have specified in the request; the rest remain unchanged. The exception to this is if you modify any AWS-service specific fields in the `SourceParameters`, `EnrichmentParameters`, or `TargetParameters` objects. For example, `DynamoDBStreamParameters` or `EventBridgeEventBusParameters`. EventBridge updates the fields in these objects atomically as one and overrides existing values. This is by design, and means that if you don't specify an optional field in one of these `Parameters` objects, EventBridge sets that field to its system-default value during the update.

For more information about pipes, see Amazon EventBridge Pipes in the Amazon EventBridge User Guide.

Request Syntax

```
PUT /v1/pipes/Name HTTP/1.1
Content-type: application/json

{
   "Description": "string",
   "DesiredState": "string",
   "Enrichment": "string",
   "EnrichmentParameters": {
      "HttpParameters": {
         "HeaderParameters": {
            "string" : "string"
         },
         "PathParameterValues": [ "string" ],
         "QueryStringParameters": {
            "string" : "string"
         }
      },
      "InputTemplate": "string"
   },
   "LogConfiguration": {
      "CloudwatchLogsLogDestination": {
         "LogGroupArn": "string"
      },
      "FirehoseLogDestination": {
         "DeliveryStreamArn": "string"
```

```
      },
      "IncludeExecutionData": [ "string" ],
      "Level": "string",
      "S3LogDestination": {
         "BucketName": "string",
         "BucketOwner": "string",
         "OutputFormat": "string",
         "Prefix": "string"
      }
   },
   "RoleArn": "string",
   "SourceParameters": {
      "ActiveMQBrokerParameters": {
         "BatchSize": number,
         "Credentials": { ... },
         "MaximumBatchingWindowInSeconds": number
      },
      "DynamoDBStreamParameters": {
         "BatchSize": number,
         "DeadLetterConfig": {
            "Arn": "string"
         },
         "MaximumBatchingWindowInSeconds": number,
         "MaximumRecordAgeInSeconds": number,
         "MaximumRetryAttempts": number,
         "OnPartialBatchItemFailure": "string",
         "ParallelizationFactor": number
      },
      "FilterCriteria": {
         "Filters": [
            {
               "Pattern": "string"
            }
         ]
      },
      "KinesisStreamParameters": {
         "BatchSize": number,
         "DeadLetterConfig": {
            "Arn": "string"
         },
         "MaximumBatchingWindowInSeconds": number,
         "MaximumRecordAgeInSeconds": number,
         "MaximumRetryAttempts": number,
         "OnPartialBatchItemFailure": "string",
```

```
            "ParallelizationFactor": number
         },
         "ManagedStreamingKafkaParameters": {
            "BatchSize": number,
            "Credentials": { ... },
            "MaximumBatchingWindowInSeconds": number
         },
         "RabbitMQBrokerParameters": {
            "BatchSize": number,
            "Credentials": { ... },
            "MaximumBatchingWindowInSeconds": number
         },
         "SelfManagedKafkaParameters": {
            "BatchSize": number,
            "Credentials": { ... },
            "MaximumBatchingWindowInSeconds": number,
            "ServerRootCaCertificate": "string",
            "Vpc": {
               "SecurityGroup": [ "string" ],
               "Subnets": [ "string" ]
            }
         },
         "SqsQueueParameters": {
            "BatchSize": number,
            "MaximumBatchingWindowInSeconds": number
         }
      },
      "Target": "string",
      "TargetParameters": {
         "BatchJobParameters": {
            "ArrayProperties": {
               "Size": number
            },
            "ContainerOverrides": {
               "Command": [ "string" ],
               "Environment": [
                  {
                     "Name": "string",
                     "Value": "string"
                  }
               ],
               "InstanceType": "string",
               "ResourceRequirements": [
                  {
```

```
                "Type": "string",
                "Value": "string"
             }
          ]
       },
       "DependsOn": [
          {
             "JobId": "string",
             "Type": "string"
          }
       ],
       "JobDefinition": "string",
       "JobName": "string",
       "Parameters": {
          "string" : "string"
       },
       "RetryStrategy": {
          "Attempts": number
       }
    },
    "CloudWatchLogsParameters": {
       "LogStreamName": "string",
       "Timestamp": "string"
    },
    "EcsTaskParameters": {
       "CapacityProviderStrategy": [
          {
             "base": number,
             "capacityProvider": "string",
             "weight": number
          }
       ],
       "EnableECSManagedTags": boolean,
       "EnableExecuteCommand": boolean,
       "Group": "string",
       "LaunchType": "string",
       "NetworkConfiguration": {
          "awsvpcConfiguration": {
             "AssignPublicIp": "string",
             "SecurityGroups": [ "string" ],
             "Subnets": [ "string" ]
          }
       },
       "Overrides": {
```

```
            "ContainerOverrides": [
               {
                  "Command": [ "string" ],
                  "Cpu": number,
                  "Environment": [
                     {
                        "name": "string",
                        "value": "string"
                     }
                  ],
                  "EnvironmentFiles": [
                     {
                        "type": "string",
                        "value": "string"
                     }
                  ],
                  "Memory": number,
                  "MemoryReservation": number,
                  "Name": "string",
                  "ResourceRequirements": [
                     {
                        "type": "string",
                        "value": "string"
                     }
                  ]
               }
            ],
            "Cpu": "string",
            "EphemeralStorage": {
               "sizeInGiB": number
            },
            "ExecutionRoleArn": "string",
            "InferenceAcceleratorOverrides": [
               {
                  "deviceName": "string",
                  "deviceType": "string"
               }
            ],
            "Memory": "string",
            "TaskRoleArn": "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"
   },
   "EventBridgeEventBusParameters": {
      "DetailType": "string",
      "EndpointId": "string",
      "Resources": [ "string" ],
      "Source": "string",
      "Time": "string"
   },
   "HttpParameters": {
      "HeaderParameters": {
         "string" : "string"
      },
      "PathParameterValues": [ "string" ],
      "QueryStringParameters": {
         "string" : "string"
      }
   },
   "InputTemplate": "string",
   "KinesisStreamParameters": {
      "PartitionKey": "string"
   },
   "LambdaFunctionParameters": {
      "InvocationType": "string"
   },
```

```
      "RedshiftDataParameters": {
         "Database": "string",
         "DbUser": "string",
         "SecretManagerArn": "string",
         "Sqls": [ "string" ],
         "StatementName": "string",
         "WithEvent": boolean
      },
      "SageMakerPipelineParameters": {
         "PipelineParameterList": [
            {
               "Name": "string",
               "Value": "string"
            }
         ]
      },
      "SqsQueueParameters": {
         "MessageDeduplicationId": "string",
         "MessageGroupId": "string"
      },
      "StepFunctionStateMachineParameters": {
         "InvocationType": "string"
      },
      "TimestreamParameters": {
         "DimensionMappings": [
            {
               "DimensionName": "string",
               "DimensionValue": "string",
               "DimensionValueType": "string"
            }
         ],
         "EpochTimeUnit": "string",
         "MultiMeasureMappings": [
            {
               "MultiMeasureAttributeMappings": [
                  {
                     "MeasureValue": "string",
                     "MeasureValueType": "string",
                     "MultiMeasureAttributeName": "string"
                  }
               ],
               "MultiMeasureName": "string"
            }
         ],
```

```
         "SingleMeasureMappings": [
            {
               "MeasureName": "string",
               "MeasureValue": "string",
               "MeasureValueType": "string"
            }
         ],
         "TimeFieldType": "string",
         "TimestampFormat": "string",
         "TimeValue": "string",
         "VersionValue": "string"
      }
   }
}
```

URI Request Parameters

The request uses the following URI parameters.

Name

The name of the pipe.

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

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

Required: Yes

Request Body

The request accepts the following data in JSON format.

Description

A description of the pipe.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 512.

Pattern: `.*`

Required: No

DesiredState

The state the pipe should be in.

Type: String

Valid Values: `RUNNING | STOPPED`

Required: No

Enrichment

The ARN of the enrichment resource.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1600.

Pattern: `$|arn:(aws[a-zA-Z0-9-]*):([a-zA-Z0-9\-]+):([a-z]{2}((-gov)|(-iso(b?)))?-[a-z]+-\d{1})?:(\d{12})?:(.+)`

Required: No

EnrichmentParameters

The parameters required to set up enrichment on your pipe.

Type: PipeEnrichmentParameters object

Required: No

LogConfiguration

The logging configuration settings for the pipe.

Type: PipeLogConfigurationParameters object

Required: No

RoleArn

The ARN of the role that allows the pipe to send data to the target.

Type: String

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

Pattern: `arn:(aws[a-zA-Z-]*)?:iam::\d{12}:role/?[a-zA-Z0-9+=,.@\-_/]+`

Required: Yes

SourceParameters

The parameters required to set up a source for your pipe.

Type: UpdatePipeSourceParameters object

Required: No

Target

The ARN of the target resource.

Type: String

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

Pattern: `arn:(aws[a-zA-Z0-9-]*):([a-zA-Z0-9\-]+):([a-z]{2}((-gov)|(-iso(b?)))?-[a-z]+-\d{1})?:(\d{12})?:(.+)`

Required: No

TargetParameters

The parameters required to set up a target for your pipe.

For more information about pipe target parameters, including how to use dynamic path parameters, see Target parameters in the *Amazon EventBridge User Guide*.

Type: PipeTargetParameters object

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
```

```
    "Arn": "string",
    "CreationTime": number,
    "CurrentState": "string",
    "DesiredState": "string",
    "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.

Arn

The ARN of the pipe.

Type: String

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

Pattern: `arn:aws([a-z]|\-)*:([a-zA-Z0-9\-]+):([a-z]|\d|\-)*:([0-9]{12})?:(.+)`

CreationTime

The time the pipe was created.

Type: Timestamp

CurrentState

The state the pipe is in.

Type: String

Valid Values: `RUNNING | STOPPED | CREATING | UPDATING | DELETING | STARTING | STOPPING | CREATE_FAILED | UPDATE_FAILED | START_FAILED | STOP_FAILED | DELETE_FAILED | CREATE_ROLLBACK_FAILED | DELETE_ROLLBACK_FAILED | UPDATE_ROLLBACK_FAILED`

DesiredState

The state the pipe should be in.

Type: String

Valid Values: `RUNNING | STOPPED`

LastModifiedTime

When the pipe was last updated, in ISO-8601 format (YYYY-MM-DDThh:mm:ss.sTZD).

Type: Timestamp

Name

The name of the pipe.

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.

ConflictException

An action you attempted resulted in an exception.

HTTP Status Code: 409

InternalException

This exception occurs due to unexpected causes.

HTTP Status Code: 500

NotFoundException

An entity that you specified does not exist.

HTTP Status Code: 404

ThrottlingException

An action was throttled.

HTTP Status Code: 429

ValidationException

Indicates that an error has occurred while performing a validate operation.

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 Pipes 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:

- AwsVpcConfiguration
- BatchArrayProperties
- BatchContainerOverrides
- BatchEnvironmentVariable
- BatchJobDependency
- BatchResourceRequirement
- BatchRetryStrategy
- CapacityProviderStrategyItem
- CloudwatchLogsLogDestination
- CloudwatchLogsLogDestinationParameters
- DeadLetterConfig
- DimensionMapping
- EcsContainerOverride
- EcsEnvironmentFile
- EcsEnvironmentVariable
- EcsEphemeralStorage
- EcsInferenceAcceleratorOverride
- EcsResourceRequirement
- EcsTaskOverride
- Filter

- FilterCriteria
- FirehoseLogDestination
- FirehoseLogDestinationParameters
- MQBrokerAccessCredentials
- MSKAccessCredentials
- MultiMeasureAttributeMapping
- MultiMeasureMapping
- NetworkConfiguration
- Pipe
- PipeEnrichmentHttpParameters
- PipeEnrichmentParameters
- PipeLogConfiguration
- PipeLogConfigurationParameters
- PipeSourceActiveMQBrokerParameters
- PipeSourceDynamoDBStreamParameters
- PipeSourceKinesisStreamParameters
- PipeSourceManagedStreamingKafkaParameters
- PipeSourceParameters
- PipeSourceRabbitMQBrokerParameters
- PipeSourceSelfManagedKafkaParameters
- PipeSourceSqsQueueParameters
- PipeTargetBatchJobParameters
- PipeTargetCloudWatchLogsParameters
- PipeTargetEcsTaskParameters
- PipeTargetEventBridgeEventBusParameters
- PipeTargetHttpParameters
- PipeTargetKinesisStreamParameters
- PipeTargetLambdaFunctionParameters
- PipeTargetParameters
- PipeTargetRedshiftDataParameters

- PipeTargetSageMakerPipelineParameters
- PipeTargetSqsQueueParameters
- PipeTargetStateMachineParameters
- PipeTargetTimestreamParameters
- PlacementConstraint
- PlacementStrategy
- S3LogDestination
- S3LogDestinationParameters
- SageMakerPipelineParameter
- SelfManagedKafkaAccessConfigurationCredentials
- SelfManagedKafkaAccessConfigurationVpc
- SingleMeasureMapping
- Tag
- UpdatePipeSourceActiveMQBrokerParameters
- UpdatePipeSourceDynamoDBStreamParameters
- UpdatePipeSourceKinesisStreamParameters
- UpdatePipeSourceManagedStreamingKafkaParameters
- UpdatePipeSourceParameters
- UpdatePipeSourceRabbitMQBrokerParameters
- UpdatePipeSourceSelfManagedKafkaParameters
- UpdatePipeSourceSqsQueueParameters
- ValidationExceptionField

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

Array Members: Minimum number of 0 items. Maximum number of 16 items.

Length Constraints: Minimum length of 1. Maximum length of 1024.

Pattern: `subnet-[0-9a-z]*|(\$(\.[\w/_-]+(\[(\d+|\*)\])*)*)`

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

Array Members: Minimum number of 0 items. Maximum number of 5 items.

Length Constraints: Minimum length of 1. Maximum length of 1024.

Pattern: `sg-[0-9a-zA-Z]*|(\$(\.[\w/_-]+(\[(\d+|\*)\])*)*)`

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.

Type: Integer

Valid Range: Minimum value of 2. Maximum value of 10000.

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

BatchContainerOverrides

The overrides that are sent to a container.

Contents

Command

The command to send to the container that overrides the default command from the Docker image or the task definition.

Type: Array of strings

Required: No

Environment

The environment variables to send to the container. You can add new environment variables, which are added to the container at launch, or you can override the existing environment variables from the Docker image or the task definition.

> **Note**
>
> Environment variables cannot start with " `AWS Batch` ". This naming convention is reserved for variables that AWS Batch sets.

Type: Array of BatchEnvironmentVariable objects

Required: No

InstanceType

The instance type to use for a multi-node parallel job.

> **Note**
>
> This parameter isn't applicable to single-node container jobs or jobs that run on Fargate resources, and shouldn't be provided.

Type: String

Required: No

ResourceRequirements

The type and amount of resources to assign to a container. This overrides the settings in the job definition. The supported resources include `GPU`, `MEMORY`, and `VCPU`.

Type: Array of BatchResourceRequirement objects

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

BatchEnvironmentVariable

The environment variables to send to the container. You can add new environment variables, which are added to the container at launch, or you can override the existing environment variables from the Docker image or the task definition.

> **Note**
>
> Environment variables cannot start with " `AWS Batch` ". This naming convention is reserved for variables that AWS Batch sets.

Contents

Name

The name of the key-value pair. For environment variables, this is the name of the environment variable.

Type: String

Required: No

Value

The value of the key-value pair. For environment variables, this is the value of the environment variable.

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

BatchJobDependency

An object that represents an AWS Batch job dependency.

Contents

JobId

The job ID of the AWS Batch job that's associated with this dependency.

Type: String

Required: No

Type

The type of the job dependency.

Type: String

Valid Values: `N_TO_N | SEQUENTIAL`

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

BatchResourceRequirement

The type and amount of a resource to assign to a container. The supported resources include `GPU`, `MEMORY`, and `VCPU`.

Contents

Type

The type of resource to assign to a container. The supported resources include `GPU`, `MEMORY`, and `VCPU`.

Type: String

Valid Values: `GPU` | `MEMORY` | `VCPU`

Required: Yes

Value

The quantity of the specified resource to reserve for the container. The values vary based on the `type` specified.

type="GPU"

The number of physical GPUs to reserve for the container. Make sure that the number of GPUs reserved for all containers in a job doesn't exceed the number of available GPUs on the compute resource that the job is launched on.

> **Note**
>
> GPUs aren't available for jobs that are running on Fargate resources.

type="MEMORY"

The memory hard limit (in MiB) present to the container. This parameter is supported for jobs that are running on EC2 resources. If your container attempts to exceed the memory specified, the container is terminated. This parameter maps to `Memory` in the Create a container section of the Docker Remote API and the `--memory` option to docker run. You must specify at least 4 MiB of memory for a job. This is required but can be specified in

several places for multi-node parallel (MNP) jobs. It must be specified for each node at least once. This parameter maps to `Memory` in the Create a container section of the Docker Remote API and the `--memory` option to docker run.

> **Note**
>
> If you're trying to maximize your resource utilization by providing your jobs as much memory as possible for a particular instance type, see Memory management in the *AWS Batch User Guide*.

For jobs that are running on Fargate resources, then `value` is the hard limit (in MiB), and must match one of the supported values and the `VCPU` values must be one of the values supported for that memory value.

value = 512

VCPU = 0.25

value = 1024

VCPU = 0.25 or 0.5

value = 2048

VCPU = 0.25, 0.5, or 1

value = 3072

VCPU = 0.5, or 1

value = 4096

VCPU = 0.5, 1, or 2

value = 5120, 6144, or 7168

VCPU = 1 or 2

value = 8192

VCPU = 1, 2, 4, or 8

value = 9216, 10240, 11264, 12288, 13312, 14336, or 15360

VCPU = 2 or 4

value = 16384

VCPU = 2, 4, or 8

value = 17408, 18432, 19456, 21504, 22528, 23552, 25600, 26624, 27648, 29696, or 30720

VCPU = 4

value = 20480, 24576, or 28672

VCPU = 4 or 8

value = 36864, 45056, 53248, or 61440

VCPU = 8

value = 32768, 40960, 49152, or 57344

VCPU = 8 or 16

value = 65536, 73728, 81920, 90112, 98304, 106496, 114688, or 122880

VCPU = 16

type="VCPU"

The number of vCPUs reserved for the container. This parameter maps to `CpuShares` in the Create a container section of the Docker Remote API and the `--cpu-shares` option to docker run. Each vCPU is equivalent to 1,024 CPU shares. For EC2 resources, you must specify at least one vCPU. This is required but can be specified in several places; it must be specified for each node at least once.

The default for the Fargate On-Demand vCPU resource count quota is 6 vCPUs. For more information about Fargate quotas, see AWS Fargate quotas in the *AWS General Reference*.

For jobs that are running on Fargate resources, then `value` must match one of the supported values and the `MEMORY` values must be one of the values supported for that `VCPU` value. The supported values are 0.25, 0.5, 1, 2, 4, 8, and 16

value = 0.25

MEMORY = 512, 1024, or 2048

value = 0.5

MEMORY = 1024, 2048, 3072, or 4096

value = 1

MEMORY = 2048, 3072, 4096, 5120, 6144, 7168, or 8192

value = 2

MEMORY = 4096, 5120, 6144, 7168, 8192, 9216, 10240, 11264, 12288, 13312, 14336, 15360, or 16384

value = 4

MEMORY = 8192, 9216, 10240, 11264, 12288, 13312, 14336, 15360, 16384, 17408, 18432, 19456, 20480, 21504, 22528, 23552, 24576, 25600, 26624, 27648, 28672, 29696, or 30720

value = 8

MEMORY = 16384, 20480, 24576, 28672, 32768, 36864, 40960, 45056, 49152, 53248, 57344, or 61440

value = 16

MEMORY = 32768, 40960, 49152, 57344, 65536, 73728, 81920, 90112, 98304, 106496, 114688, or 122880

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

BatchRetryStrategy

The retry strategy that's associated with a job. For more information, see Automated job retries in the *AWS Batch User Guide*.

Contents

Attempts

The number of times to move a job to the RUNNABLE status. If the value of `attempts` is greater than one, the job is retried on failure the same number of attempts as the value.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 10.

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

CloudwatchLogsLogDestination

The Amazon CloudWatch Logs logging configuration settings for the pipe.

Contents

LogGroupArn

The AWS Resource Name (ARN) for the CloudWatch log group to which EventBridge sends the log records.

Type: String

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

Pattern: `(^arn:aws([a-z]|\-)*:logs:([a-z]{2}((-gov)|(-iso(b?)))?-[a-z]+-\d{1}):(\d{12}):log-group:[\.\-_/#A-Za-z0-9]{1,512}(:\*)?)`

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

CloudwatchLogsLogDestinationParameters

The Amazon CloudWatch Logs logging configuration settings for the pipe.

Contents

LogGroupArn

The AWS Resource Name (ARN) for the CloudWatch log group to which EventBridge sends the log records.

Type: String

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

Pattern: `(^arn:aws([a-z]|\-)*:logs:([a-z]{2}((-gov)|(-iso(b?)))?-[a-z]+-\d{1}):(\d{12}):log-group:[\.\-_/#A-Za-z0-9]{1,512}(:\*)?)`

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

DeadLetterConfig

A `DeadLetterConfig` object that contains information about a dead-letter queue configuration.

Contents

Arn

The ARN of the specified target for the dead-letter queue.

For Amazon Kinesis stream and Amazon DynamoDB stream sources, specify either an Amazon SNS topic or Amazon SQS queue ARN.

Type: String

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

Pattern: `arn:(aws[a-zA-Z0-9-]*):([a-zA-Z0-9\-]+):([a-z]{2}((-gov)|(-iso(b?)))?-[a-z]+-\d{1})?:(\d{12})?:(.+)`

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

DimensionMapping

Maps source data to a dimension in the target Timestream for LiveAnalytics table.

For more information, see Amazon Timestream for LiveAnalytics concepts

Contents

DimensionName

The metadata attributes of the time series. For example, the name and Availability Zone of an Amazon EC2 instance or the name of the manufacturer of a wind turbine are dimensions.

Type: String

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

Required: Yes

DimensionValue

Dynamic path to the dimension value in the source event.

Type: String

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

Required: Yes

DimensionValueType

The data type of the dimension for the time-series data.

Type: String

Valid Values: VARCHAR

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

EcsContainerOverride

The overrides that are sent to a container. An empty container override can be passed in. An example of an empty container override is `{"containerOverrides": [ ] }`. If a non-empty container override is specified, the `name` parameter must be included.

Contents

Command

The command to send to the container that overrides the default command from the Docker image or the task definition. You must also specify a container name.

Type: Array of strings

Required: No

Cpu

The number of `cpu` units reserved for the container, instead of the default value from the task definition. You must also specify a container name.

Type: Integer

Required: No

Environment

The environment variables to send to the container. You can add new environment variables, which are added to the container at launch, or you can override the existing environment variables from the Docker image or the task definition. You must also specify a container name.

Type: Array of EcsEnvironmentVariable objects

Required: No

EnvironmentFiles

A list of files containing the environment variables to pass to a container, instead of the value from the container definition.

Type: Array of EcsEnvironmentFile objects

Required: No

Memory

The hard limit (in MiB) of memory to present to the container, instead of the default value from the task definition. If your container attempts to exceed the memory specified here, the container is killed. You must also specify a container name.

Type: Integer

Required: No

MemoryReservation

The soft limit (in MiB) of memory to reserve for the container, instead of the default value from the task definition. You must also specify a container name.

Type: Integer

Required: No

Name

The name of the container that receives the override. This parameter is required if any override is specified.

Type: String

Required: No

ResourceRequirements

The type and amount of a resource to assign to a container, instead of the default value from the task definition. The only supported resource is a GPU.

Type: Array of EcsResourceRequirement objects

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

EcsEnvironmentFile

A list of files containing the environment variables to pass to a container. You can specify up to ten environment files. The file must have a `.env` file extension. Each line in an environment file should contain an environment variable in `VARIABLE=VALUE` format. Lines beginning with # are treated as comments and are ignored. For more information about the environment variable file syntax, see Declare default environment variables in file.

If there are environment variables specified using the `environment` parameter in a container definition, they take precedence over the variables contained within an environment file. If multiple environment files are specified that contain the same variable, they're processed from the top down. We recommend that you use unique variable names. For more information, see Specifying environment variables in the *Amazon Elastic Container Service Developer Guide*.

This parameter is only supported for tasks hosted on Fargate using the following platform versions:

- Linux platform version `1.4.0` or later.
- Windows platform version `1.0.0` or later.

Contents

type

The file type to use. The only supported value is `s3`.

Type: String

Valid Values: `s3`

Required: Yes

value

The Amazon Resource Name (ARN) of the Amazon S3 object containing the environment variable file.

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

EcsEnvironmentVariable

The environment variables to send to the container. You can add new environment variables, which are added to the container at launch, or you can override the existing environment variables from the Docker image or the task definition. You must also specify a container name.

Contents

name

The name of the key-value pair. For environment variables, this is the name of the environment variable.

Type: String

Required: No

value

The value of the key-value pair. For environment variables, this is the value of the environment variable.

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

EcsEphemeralStorage

The amount of ephemeral storage to allocate for the task. This parameter is used to expand the total amount of ephemeral storage available, beyond the default amount, for tasks hosted on Fargate. For more information, see Fargate task storage in the *Amazon ECS User Guide for Fargate*.

> **Note**
>
> This parameter is only supported for tasks hosted on Fargate using Linux platform version `1.4.0` or later. This parameter is not supported for Windows containers on Fargate.

Contents

sizeInGiB

The total amount, in GiB, of ephemeral storage to set for the task. The minimum supported value is 21 GiB and the maximum supported value is `200` GiB.

Type: Integer

Valid Range: Minimum value of 21. Maximum value of 200.

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

EcsInferenceAcceleratorOverride

Details on an Elastic Inference accelerator task override. This parameter is used to override the Elastic Inference accelerator specified in the task definition. For more information, see Working with Amazon Elastic Inference on Amazon ECS in the *Amazon Elastic Container Service Developer Guide*.

Contents

deviceName

The Elastic Inference accelerator device name to override for the task. This parameter must match a `deviceName` specified in the task definition.

Type: String

Required: No

deviceType

The Elastic Inference accelerator type to use.

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

EcsResourceRequirement

The type and amount of a resource to assign to a container. The supported resource types are GPUs and Elastic Inference accelerators. For more information, see Working with GPUs on Amazon ECS or Working with Amazon Elastic Inference on Amazon ECS in the *Amazon Elastic Container Service Developer Guide*

Contents

type

The type of resource to assign to a container. The supported values are `GPU` or `InferenceAccelerator`.

Type: String

Valid Values: `GPU | InferenceAccelerator`

Required: Yes

value

The value for the specified resource type.

If the `GPU` type is used, the value is the number of physical `GPUs` the Amazon ECS container agent reserves for the container. The number of GPUs that's reserved for all containers in a task can't exceed the number of available GPUs on the container instance that the task is launched on.

If the `InferenceAccelerator` type is used, the `value` matches the `deviceName` for an InferenceAccelerator specified in a task definition.

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

EcsTaskOverride

The overrides that are associated with a task.

Contents

ContainerOverrides

One or more container overrides that are sent to a task.

Type: Array of EcsContainerOverride objects

Required: No

Cpu

The cpu override for the task.

Type: String

Required: No

EphemeralStorage

The ephemeral storage setting override for the task.

> **Note**
>
> This parameter is only supported for tasks hosted on Fargate that use the following platform versions:
>
> - Linux platform version `1.4.0` or later.
> - Windows platform version `1.0.0` or later.

Type: EcsEphemeralStorage object

Required: No

ExecutionRoleArn

The Amazon Resource Name (ARN) of the task execution IAM role override for the task. For more information, see Amazon ECS task execution IAM role in the *Amazon Elastic Container Service Developer Guide*.

Type: String

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

Pattern: `arn:(aws[a-zA-Z0-9-]*):([a-zA-Z0-9\-]+):([a-z]{2}((-gov)|(-iso(b?)))?-[a-z]+-\d{1})?:(\d{12})?:(.+)|(\$(\.[\w/_-]+(\[(\d+|\*)\])*)*)`

Required: No

InferenceAcceleratorOverrides

The Elastic Inference accelerator override for the task.

Type: Array of EcsInferenceAcceleratorOverride objects

Required: No

Memory

The memory override for the task.

Type: String

Required: No

TaskRoleArn

The Amazon Resource Name (ARN) of the IAM role that containers in this task can assume. All containers in this task are granted the permissions that are specified in this role. For more information, see IAM Role for Tasks in the *Amazon Elastic Container Service Developer Guide*.

Type: String

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

Pattern: `arn:(aws[a-zA-Z0-9-]*):([a-zA-Z0-9\-]+):([a-z]{2}((-gov)|(-iso(b?)))?-[a-z]+-\d{1})?:(\d{12})?:(.+)|(\$(\.[\w/_-]+(\[(\d+|\*)\])*)*)`

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

Filter

Filter events using an event pattern. For more information, see Events and Event Patterns in the *Amazon EventBridge User Guide*.

Contents

Pattern

The event pattern.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 4096.

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

FilterCriteria

The collection of event patterns used to filter events.

To remove a filter, specify a `FilterCriteria` object with an empty array of `Filter` objects.

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

Contents

Filters

The event patterns.

Type: Array of Filter objects

Array Members: Minimum number of 0 items. Maximum number of 5 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

FirehoseLogDestination

The Amazon Data Firehose logging configuration settings for the pipe.

Contents

DeliveryStreamArn

The Amazon Resource Name (ARN) of the Firehose delivery stream to which EventBridge delivers the pipe log records.

Type: String

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

Pattern: `(^arn:aws([a-z]|\-)*:firehose:([a-z]{2}((-gov)|(-iso(b?)))?-[a-z]+-\d{1}):(\d{12}):deliverystream/[a-zA-Z0-9_.-]{1,64})`

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

FirehoseLogDestinationParameters

The Amazon Data Firehose logging configuration settings for the pipe.

Contents

DeliveryStreamArn

Specifies the Amazon Resource Name (ARN) of the Firehose delivery stream to which EventBridge delivers the pipe log records.

Type: String

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

Pattern: `(^arn:aws([a-z]|\-)*:firehose:([a-z]{2}((-gov)|(-iso(b?)))?-[a-z]+-\d{1}):(\d{12}):deliverystream/[a-zA-Z0-9_.-]{1,64})`

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

MQBrokerAccessCredentials

The AWS Secrets Manager secret that stores your broker credentials.

Contents

> **Important**
>
> This data type is a UNION, so only one of the following members can be specified when used or returned.

BasicAuth

The ARN of the Secrets Manager secret.

Type: String

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

Pattern: `(^arn:aws([a-z]|\-)*:secretsmanager:([a-z]{2}((-gov)|(-iso(b?)))?-[a-z]+-\d{1}):(\d{12}):secret:.+)`

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

MSKAccessCredentials

The AWS Secrets Manager secret that stores your stream credentials.

Contents

> **Important**
>
> This data type is a UNION, so only one of the following members can be specified when used or returned.

ClientCertificateTlsAuth

The ARN of the Secrets Manager secret.

Type: String

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

Pattern: `(^arn:aws([a-z]|\-)*:secretsmanager:([a-z]{2}((-gov)|(-iso(b?)))?-[a-z]+-\d{1}):(\d{12}):secret:.+)`

Required: No

SaslScram512Auth

The ARN of the Secrets Manager secret.

Type: String

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

Pattern: `(^arn:aws([a-z]|\-)*:secretsmanager:([a-z]{2}((-gov)|(-iso(b?)))?-[a-z]+-\d{1}):(\d{12}):secret:.+)`

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

MultiMeasureAttributeMapping

A mapping of a source event data field to a measure in a Timestream for LiveAnalytics record.

Contents

MeasureValue

Dynamic path to the measurement attribute in the source event.

Type: String

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

Required: Yes

MeasureValueType

Data type of the measurement attribute in the source event.

Type: String

Valid Values: `DOUBLE | BIGINT | VARCHAR | BOOLEAN | TIMESTAMP`

Required: Yes

MultiMeasureAttributeName

Target measure name to be used.

Type: String

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

MultiMeasureMapping

Maps multiple measures from the source event to the same Timestream for LiveAnalytics record.

For more information, see Amazon Timestream for LiveAnalytics concepts

Contents

MultiMeasureAttributeMappings

Mappings that represent multiple source event fields mapped to measures in the same Timestream for LiveAnalytics record.

Type: Array of MultiMeasureAttributeMapping objects

Array Members: Minimum number of 1 item. Maximum number of 256 items.

Required: Yes

MultiMeasureName

The name of the multiple measurements per record (multi-measure).

Type: String

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

NetworkConfiguration

This structure specifies the network configuration for an Amazon 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

Pipe

An object that represents a pipe. Amazon EventBridgePipes connect event sources to targets and reduces the need for specialized knowledge and integration code.

Contents

Arn

The ARN of the pipe.

Type: String

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

Pattern: `arn:aws([a-z]|\-)*:([a-zA-Z0-9\-]+):([a-z]|\d|\-)*:([0-9]{12})?:(.+)`

Required: No

CreationTime

The time the pipe was created.

Type: Timestamp

Required: No

CurrentState

The state the pipe is in.

Type: String

Valid Values: `RUNNING | STOPPED | CREATING | UPDATING | DELETING | STARTING | STOPPING | CREATE_FAILED | UPDATE_FAILED | START_FAILED | STOP_FAILED | DELETE_FAILED | CREATE_ROLLBACK_FAILED | DELETE_ROLLBACK_FAILED | UPDATE_ROLLBACK_FAILED`

Required: No

DesiredState

The state the pipe should be in.

Type: String

Valid Values: `RUNNING | STOPPED`

Required: No

Enrichment

The ARN of the enrichment resource.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1600.

Pattern: `$|arn:(aws[a-zA-Z0-9-]*):([a-zA-Z0-9\-]+):([a-z]{2}((-gov)|(-iso(b?)))?-[a-z]+-\d{1})?:(\d{12})?:(.+)`

Required: No

LastModifiedTime

When the pipe was last updated, in ISO-8601 format (YYYY-MM-DDThh:mm:ss.sTZD).

Type: Timestamp

Required: No

Name

The name of the pipe.

Type: String

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

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

Required: No

Source

The ARN of the source resource.

Type: String

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

Pattern: `smk://(([a-zA-Z0-9]|[a-zA-Z0-9][a-zA-Z0-9\-]*[a-zA-Z0-9])\.)*([A-Za-z0-9]|[A-Za-z0-9][A-Za-z0-9\-]*[A-Za-z0-9]):[0-9]{1,5}|arn:(aws[a-zA-Z0-9-]*):([a-zA-Z0-9\-]+):([a-z]{2}((-gov)|(-iso(b?)))?-[a-z]+-\d{1})?:(\d{12})?:(.+)`

Required: No

StateReason

The reason the pipe is in its current state.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 512.

Pattern: `.*`

Required: No

Target

The ARN of the target resource.

Type: String

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

Pattern: `arn:(aws[a-zA-Z0-9-]*):([a-zA-Z0-9\-]+):([a-z]{2}((-gov)|(-iso(b?)))?-[a-z]+-\d{1})?:(\d{12})?:(.+)`

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

PipeEnrichmentHttpParameters

These are custom parameter to be used when the target is an API Gateway REST APIs or EventBridge ApiDestinations. In the latter case, these are merged with any InvocationParameters specified on the Connection, with any values from the Connection taking precedence.

Contents

HeaderParameters

The headers that need to be sent as part of request invoking the API Gateway REST API or EventBridge ApiDestination.

Type: String to string map

Key Length Constraints: Minimum length of 0. Maximum length of 512.

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

Value Length Constraints: Minimum length of 0. Maximum length of 512.

Value Pattern: `[ \t]*[\x20-\x7E]+([ \t]+[\x20-\x7E]+)*[ \t]*|(\$(\.[\w/_-]+(\[(\d+|\*)\])*)*)`

Required: No

PathParameterValues

The path parameter values to be used to populate API Gateway REST API or EventBridge ApiDestination path wildcards ("*").

Type: Array of strings

Pattern: `(?!\s*$).+|(\$(\.[\w/_-]+(\[(\d+|\*)\])*)*)`

Required: No

QueryStringParameters

The query string keys/values that need to be sent as part of request invoking the API Gateway REST API or EventBridge ApiDestination.

Type: String to string map

Key Length Constraints: Minimum length of 0. Maximum length of 512.

Key Pattern: `[^\x00-\x1F\x7F]+|(\$(\.[\w/_-]+(\[(\d+|\*)\])*)*)`

Value Length Constraints: Minimum length of 0. Maximum length of 512.

Value Pattern: `[^\x00-\x09\x0B\x0C\x0E-\x1F\x7F]+|(\$(\.[\w/_-]+(\[(\d+|\*)\])*)*)`

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

PipeEnrichmentParameters

The parameters required to set up enrichment on your pipe.

Contents

HttpParameters

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

If you specify an API Gateway REST API or EventBridge ApiDestination as a target, you can use this parameter to specify headers, path parameters, and query string keys/values as part of your target invoking request. If you're using ApiDestinations, the corresponding Connection can also have these values configured. In case of any conflicting keys, values from the Connection take precedence.

Type: PipeEnrichmentHttpParameters object

Required: No

InputTemplate

Valid JSON text passed to the enrichment. In this case, nothing from the event itself is passed to the enrichment. For more information, see The JavaScript Object Notation (JSON) Data Interchange Format.

To remove an input template, specify an empty string.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 8192.

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

PipeLogConfiguration

The logging configuration settings for the pipe.

Contents

CloudwatchLogsLogDestination

The Amazon CloudWatch Logs logging configuration settings for the pipe.

Type: CloudwatchLogsLogDestination object

Required: No

FirehoseLogDestination

The Amazon Data Firehose logging configuration settings for the pipe.

Type: FirehoseLogDestination object

Required: No

IncludeExecutionData

Whether the execution data (specifically, the `payload`, `awsRequest`, and `awsResponse` fields) is included in the log messages for this pipe.

This applies to all log destinations for the pipe.

For more information, see Including execution data in logs in the *Amazon EventBridge User Guide*.

Type: Array of strings

Valid Values: `ALL`

Required: No

Level

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

Type: String

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

Required: No

S3LogDestination

The Amazon S3 logging configuration settings for the pipe.

Type: S3LogDestination 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

PipeLogConfigurationParameters

Specifies the logging configuration settings for the pipe.

When you call `UpdatePipe`, EventBridge updates the fields in the `PipeLogConfigurationParameters` object atomically as one and overrides existing values. This is by design. If you don't specify an optional field in any of the AWS service parameters objects (`CloudwatchLogsLogDestinationParameters`, `FirehoseLogDestinationParameters`, or `S3LogDestinationParameters`), EventBridge sets that field to its system-default value during the update.

For example, suppose when you created the pipe you specified a Firehose stream log destination. You then update the pipe to add an Amazon S3 log destination. In addition to specifying the `S3LogDestinationParameters` for the new log destination, you must also specify the fields in the `FirehoseLogDestinationParameters` object in order to retain the Firehose stream log destination.

For more information on generating pipe log records, see Log EventBridge Pipes in the *Amazon EventBridge User Guide*.

Contents

Level

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

For more information, see Specifying EventBridge Pipes log level in the *Amazon EventBridge User Guide*.

Type: String

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

Required: Yes

CloudwatchLogsLogDestination

The Amazon CloudWatch Logs logging configuration settings for the pipe.

Type: CloudwatchLogsLogDestinationParameters object

Required: No

FirehoseLogDestination

The Amazon Data Firehose logging configuration settings for the pipe.

Type: FirehoseLogDestinationParameters object

Required: No

IncludeExecutionData

Specify `ALL` to include the execution data (specifically, the `payload`, `awsRequest`, and `awsResponse` fields) in the log messages for this pipe.

This applies to all log destinations for the pipe.

For more information, see Including execution data in logs in the *Amazon EventBridge User Guide*.

By default, execution data is not included.

Type: Array of strings

Valid Values: `ALL`

Required: No

S3LogDestination

The Amazon S3 logging configuration settings for the pipe.

Type: S3LogDestinationParameters 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

PipeSourceActiveMQBrokerParameters

The parameters for using an Active MQ broker as a source.

Contents

Credentials

The credentials needed to access the resource.

Type: MQBrokerAccessCredentials object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

QueueName

The name of the destination queue to consume.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1000.

Pattern: `[\s\S]*`

Required: Yes

BatchSize

The maximum number of records to include in each batch.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 10000.

Required: No

MaximumBatchingWindowInSeconds

The maximum length of a time to wait for events.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 300.

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

PipeSourceDynamoDBStreamParameters

The parameters for using a DynamoDB stream as a source.

Contents

StartingPosition

(Streams only) The position in a stream from which to start reading.

Type: String

Valid Values: `TRIM_HORIZON | LATEST`

Required: Yes

BatchSize

The maximum number of records to include in each batch.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 10000.

Required: No

DeadLetterConfig

Define the target queue to send dead-letter queue events to.

Type: DeadLetterConfig object

Required: No

MaximumBatchingWindowInSeconds

The maximum length of a time to wait for events.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 300.

Required: No

MaximumRecordAgeInSeconds

(Streams only) Discard records older than the specified age. The default value is -1, which sets the maximum age to infinite. When the value is set to infinite, EventBridge never discards old records.

Type: Integer

Valid Range: Minimum value of -1. Maximum value of 604800.

Required: No

MaximumRetryAttempts

(Streams only) Discard records after the specified number of retries. The default value is -1, which sets the maximum number of retries to infinite. When MaximumRetryAttempts is infinite, EventBridge retries failed records until the record expires in the event source.

Type: Integer

Valid Range: Minimum value of -1. Maximum value of 10000.

Required: No

OnPartialBatchItemFailure

(Streams only) Define how to handle item process failures. `AUTOMATIC_BISECT` halves each batch and retry each half until all the records are processed or there is one failed message left in the batch.

Type: String

Valid Values: `AUTOMATIC_BISECT`

Required: No

ParallelizationFactor

(Streams only) The number of batches to process concurrently from each shard. The default value is 1.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 10.

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

PipeSourceKinesisStreamParameters

The parameters for using a Kinesis stream as a source.

Contents

StartingPosition

(Streams only) The position in a stream from which to start reading.

Type: String

Valid Values: `TRIM_HORIZON | LATEST | AT_TIMESTAMP`

Required: Yes

BatchSize

The maximum number of records to include in each batch.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 10000.

Required: No

DeadLetterConfig

Define the target queue to send dead-letter queue events to.

Type: DeadLetterConfig object

Required: No

MaximumBatchingWindowInSeconds

The maximum length of a time to wait for events.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 300.

Required: No

MaximumRecordAgeInSeconds

(Streams only) Discard records older than the specified age. The default value is -1, which sets the maximum age to infinite. When the value is set to infinite, EventBridge never discards old records.

Type: Integer

Valid Range: Minimum value of -1. Maximum value of 604800.

Required: No

MaximumRetryAttempts

(Streams only) Discard records after the specified number of retries. The default value is -1, which sets the maximum number of retries to infinite. When MaximumRetryAttempts is infinite, EventBridge retries failed records until the record expires in the event source.

Type: Integer

Valid Range: Minimum value of -1. Maximum value of 10000.

Required: No

OnPartialBatchItemFailure

(Streams only) Define how to handle item process failures. `AUTOMATIC_BISECT` halves each batch and retry each half until all the records are processed or there is one failed message left in the batch.

Type: String

Valid Values: `AUTOMATIC_BISECT`

Required: No

ParallelizationFactor

(Streams only) The number of batches to process concurrently from each shard. The default value is 1.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 10.

Required: No

StartingPositionTimestamp

With `StartingPosition` set to `AT_TIMESTAMP`, the time from which to start reading, in Unix time seconds.

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

PipeSourceManagedStreamingKafkaParameters

The parameters for using an MSK stream as a source.

Contents

TopicName

The name of the topic that the pipe will read from.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 249.

Pattern: `[^.]([a-zA-Z0-9\-_.]+)`

Required: Yes

BatchSize

The maximum number of records to include in each batch.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 10000.

Required: No

ConsumerGroupID

The name of the destination queue to consume.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 200.

Pattern: `[a-zA-Z0-9-\/*:_+=.@-]*`

Required: No

Credentials

The credentials needed to access the resource.

Type: MSKAccessCredentials object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: No

MaximumBatchingWindowInSeconds

The maximum length of a time to wait for events.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 300.

Required: No

StartingPosition

(Streams only) The position in a stream from which to start reading.

Type: String

Valid Values: `TRIM_HORIZON | LATEST`

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

PipeSourceParameters

The parameters required to set up a source for your pipe.

Contents

ActiveMQBrokerParameters

The parameters for using an Active MQ broker as a source.

Type: PipeSourceActiveMQBrokerParameters object

Required: No

DynamoDBStreamParameters

The parameters for using a DynamoDB stream as a source.

Type: PipeSourceDynamoDBStreamParameters object

Required: No

FilterCriteria

The collection of event patterns used to filter events.

To remove a filter, specify a `FilterCriteria` object with an empty array of `Filter` objects.

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

Type: FilterCriteria object

Required: No

KinesisStreamParameters

The parameters for using a Kinesis stream as a source.

Type: PipeSourceKinesisStreamParameters object

Required: No

ManagedStreamingKafkaParameters

The parameters for using an MSK stream as a source.

Type: PipeSourceManagedStreamingKafkaParameters object

Required: No

RabbitMQBrokerParameters

The parameters for using a Rabbit MQ broker as a source.

Type: PipeSourceRabbitMQBrokerParameters object

Required: No

SelfManagedKafkaParameters

The parameters for using a self-managed Apache Kafka stream as a source.

A *self managed* cluster refers to any Apache Kafka cluster not hosted by AWS. This includes both clusters you manage yourself, as well as those hosted by a third-party provider, such as Confluent Cloud, CloudKarafka, or Redpanda. For more information, see Apache Kafka streams as a source in the *Amazon EventBridge User Guide*.

Type: PipeSourceSelfManagedKafkaParameters object

Required: No

SqsQueueParameters

The parameters for using a Amazon SQS stream as a source.

Type: PipeSourceSqsQueueParameters 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

PipeSourceRabbitMQBrokerParameters

The parameters for using a Rabbit MQ broker as a source.

Contents

Credentials

The credentials needed to access the resource.

Type: MQBrokerAccessCredentials object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

QueueName

The name of the destination queue to consume.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1000.

Pattern: `[\s\S]*`

Required: Yes

BatchSize

The maximum number of records to include in each batch.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 10000.

Required: No

MaximumBatchingWindowInSeconds

The maximum length of a time to wait for events.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 300.

Required: No

VirtualHost

The name of the virtual host associated with the source broker.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 200.

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

PipeSourceSelfManagedKafkaParameters

The parameters for using a self-managed Apache Kafka stream as a source.

A *self managed* cluster refers to any Apache Kafka cluster not hosted by AWS. This includes both clusters you manage yourself, as well as those hosted by a third-party provider, such as Confluent Cloud, CloudKarafka, or Redpanda. For more information, see Apache Kafka streams as a source in the *Amazon EventBridge User Guide*.

Contents

TopicName

The name of the topic that the pipe will read from.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 249.

Pattern: `[^.]([a-zA-Z0-9\-_.]+)`

Required: Yes

AdditionalBootstrapServers

An array of server URLs.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 2 items.

Length Constraints: Minimum length of 1. Maximum length of 300.

Pattern: `(([a-zA-Z0-9]|[a-zA-Z0-9][a-zA-Z0-9\-]*[a-zA-Z0-9])\.)*([A-Za-z0-9]|[A-Za-z0-9][A-Za-z0-9\-]*[A-Za-z0-9]):[0-9]{1,5}`

Required: No

BatchSize

The maximum number of records to include in each batch.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 10000.

Required: No

ConsumerGroupID

The name of the destination queue to consume.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 200.

Pattern: `[a-zA-Z0-9-\/*:_+=.@-]*`

Required: No

Credentials

The credentials needed to access the resource.

Type: SelfManagedKafkaAccessConfigurationCredentials object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: No

MaximumBatchingWindowInSeconds

The maximum length of a time to wait for events.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 300.

Required: No

ServerRootCaCertificate

The ARN of the Secrets Manager secret used for certification.

Type: String

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

Pattern: `(^arn:aws([a-z]|\-)*:secretsmanager:([a-z]{2}((-gov)|(-iso(b?)))?-[a-z]+-\d{1}):(\d{12}):secret:.+)`

Required: No

StartingPosition

(Streams only) The position in a stream from which to start reading.

Type: String

Valid Values: `TRIM_HORIZON | LATEST`

Required: No

Vpc

This structure specifies the VPC subnets and security groups for the stream, and whether a public IP address is to be used.

Type: SelfManagedKafkaAccessConfigurationVpc 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

PipeSourceSqsQueueParameters

The parameters for using a Amazon SQS stream as a source.

Contents

BatchSize

The maximum number of records to include in each batch.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 10000.

Required: No

MaximumBatchingWindowInSeconds

The maximum length of a time to wait for events.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 300.

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

PipeTargetBatchJobParameters

The parameters for using an AWS Batch job as a target.

Contents

JobDefinition

The job definition used by this job. This value can be one of `name`, `name:revision`, or the Amazon Resource Name (ARN) for the job definition. If name is specified without a revision then the latest active revision is used.

Type: String

Required: Yes

JobName

The name of the job. It can be up to 128 letters long. The first character must be alphanumeric, can contain uppercase and lowercase letters, numbers, hyphens (-), and underscores (_).

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

ContainerOverrides

The overrides that are sent to a container.

Type: BatchContainerOverrides object

Required: No

DependsOn

A list of dependencies for the job. A job can depend upon a maximum of 20 jobs. You can specify a `SEQUENTIAL` type dependency without specifying a job ID for array jobs so that each child array job completes sequentially, starting at index 0. You can also specify an `N_TO_N` type dependency with a job ID for array jobs. In that case, each index child of this job must wait for the corresponding index child of each dependency to complete before it can begin.

Type: Array of BatchJobDependency objects

Array Members: Minimum number of 0 items. Maximum number of 20 items.

Required: No

Parameters

Additional parameters passed to the job that replace parameter substitution placeholders that are set in the job definition. Parameters are specified as a key and value pair mapping. Parameters included here override any corresponding parameter defaults from the job definition.

Type: String to string map

Required: No

RetryStrategy

The retry strategy to use for failed jobs. When a retry strategy is specified 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

PipeTargetCloudWatchLogsParameters

The parameters for using an CloudWatch Logs log stream as a target.

Contents

LogStreamName

The name of the log stream.

Type: String

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

Required: No

Timestamp

The time the event occurred, expressed as the number of milliseconds after Jan 1, 1970 00:00:00 UTC.

Type: String

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

Pattern: `\$(\.[\w/_-]+(\[(\d+|\*)\])*)*`

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

PipeTargetEcsTaskParameters

The parameters for using an Amazon ECS task as a target.

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.

Pattern: `arn:(aws[a-zA-Z0-9-]*):([a-zA-Z0-9\-]+):([a-z]{2}((-gov)|(-iso(b?)))?-[a-z]+-\d{1})?:(\d{12})?:(.+)|(\$(\.[\w/_-]+(\[(\d+|\*)\])*)*)`

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: Minimum number of 0 items. 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 Amazon 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

Overrides

The overrides that are associated with a task.

Type: EcsTaskOverride 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: Minimum number of 0 items. 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: Minimum number of 0 items. 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: Minimum length of 0. 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

PipeTargetEventBridgeEventBusParameters

The parameters for using an EventBridge event bus as a target.

Contents

DetailType

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

Type: String

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

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

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

Array Members: Minimum number of 0 items. Maximum number of 10 items.

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

Pattern: `arn:(aws[a-zA-Z0-9-]*):([a-zA-Z0-9\-]+):([a-z]{2}((-gov)|(-iso(b?)))?-[a-z]+-\d{1})?:(\d{12})?:(.+)|(\$(\.[\w/_-]+(\[(\d+|\*)\])*)*)`

Required: No

Source

The source of the event.

Type: String

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

Pattern: `.*(?=[/\.\-_A-Za-z0-9]+)((?!aws\.).*)|(\$(\.[\w/_-]+(\[(\d+|\*)\])*)*).*`

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: String

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

Pattern: `\$(\.[\w/_-]+(\[(\d+|\*)\])*)*`

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

PipeTargetHttpParameters

These are custom parameter to be used when the target is an API Gateway REST APIs or EventBridge ApiDestinations.

Contents

HeaderParameters

The headers that need to be sent as part of request invoking the API Gateway REST API or EventBridge ApiDestination.

Type: String to string map

Key Length Constraints: Minimum length of 0. Maximum length of 512.

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

Value Length Constraints: Minimum length of 0. Maximum length of 512.

Value Pattern: `[ \t]*[\x20-\x7E]+([ \t]+[\x20-\x7E]+)*[ \t]*|(\$(\.[\w/_-]+(\[(\d+|\*)\])*)*)`

Required: No

PathParameterValues

The path parameter values to be used to populate API Gateway REST API or EventBridge ApiDestination path wildcards ("*").

Type: Array of strings

Pattern: `(?!\s*$).+|(\$(\.[\w/_-]+(\[(\d+|\*)\])*)*)`

Required: No

QueryStringParameters

The query string keys/values that need to be sent as part of request invoking the API Gateway REST API or EventBridge ApiDestination.

Type: String to string map

Key Length Constraints: Minimum length of 0. Maximum length of 512.

Key Pattern: `[^\x00-\x1F\x7F]+|(\$(\.[\w/_-]+(\[(\d+|\*)\])*)*)`

Value Length Constraints: Minimum length of 0. Maximum length of 512.

Value Pattern: `[^\x00-\x09\x0B\x0C\x0E-\x1F\x7F]+|(\$(\.[\w/_-]+(\[(\d+|\*)\])*)*)`

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

PipeTargetKinesisStreamParameters

The parameters for using a Kinesis stream as a target.

Contents

PartitionKey

Determines which shard in the stream the data record is assigned to. Partition keys are Unicode strings with a maximum length limit of 256 characters for each key. Amazon Kinesis Data Streams uses the partition key as input to a hash function that maps the partition key and associated data to a specific shard. Specifically, an MD5 hash function is used to map partition keys to 128-bit integer values and to map associated data records to shards. As a result of this hashing mechanism, all data records with the same partition key map to the same shard within the stream.

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

PipeTargetLambdaFunctionParameters

The parameters for using a Lambda function as a target.

Contents

InvocationType

Specify whether to invoke the function synchronously or asynchronously.

- `REQUEST_RESPONSE` (default) - Invoke synchronously. This corresponds to the `RequestResponse` option in the `InvocationType` parameter for the Lambda Invoke API.
- `FIRE_AND_FORGET` - Invoke asynchronously. This corresponds to the `Event` option in the `InvocationType` parameter for the Lambda Invoke API.

For more information, see Invocation types in the *Amazon EventBridge User Guide*.

Type: String

Valid Values: `REQUEST_RESPONSE | FIRE_AND_FORGET`

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

PipeTargetParameters

The parameters required to set up a target for your pipe.

For more information about pipe target parameters, including how to use dynamic path parameters, see Target parameters in the *Amazon EventBridge User Guide*.

Contents

BatchJobParameters

The parameters for using an AWS Batch job as a target.

Type: PipeTargetBatchJobParameters object

Required: No

CloudWatchLogsParameters

The parameters for using an CloudWatch Logs log stream as a target.

Type: PipeTargetCloudWatchLogsParameters object

Required: No

EcsTaskParameters

The parameters for using an Amazon ECS task as a target.

Type: PipeTargetEcsTaskParameters object

Required: No

EventBridgeEventBusParameters

The parameters for using an EventBridge event bus as a target.

Type: PipeTargetEventBridgeEventBusParameters object

Required: No

HttpParameters

These are custom parameter to be used when the target is an API Gateway REST APIs or EventBridge ApiDestinations.

Type: PipeTargetHttpParameters object

Required: No

InputTemplate

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.

To remove an input template, specify an empty string.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 8192.

Required: No

KinesisStreamParameters

The parameters for using a Kinesis stream as a target.

Type: PipeTargetKinesisStreamParameters object

Required: No

LambdaFunctionParameters

The parameters for using a Lambda function as a target.

Type: PipeTargetLambdaFunctionParameters object

Required: No

RedshiftDataParameters

These are custom parameters to be used when the target is a Amazon Redshift cluster to invoke the Amazon Redshift Data API BatchExecuteStatement.

Type: PipeTargetRedshiftDataParameters object

Required: No

SageMakerPipelineParameters

The parameters for using a SageMaker pipeline as a target.

Type: PipeTargetSageMakerPipelineParameters object

Required: No

SqsQueueParameters

The parameters for using a Amazon SQS stream as a target.

Type: PipeTargetSqsQueueParameters object

Required: No

StepFunctionStateMachineParameters

The parameters for using a Step Functions state machine as a target.

Type: PipeTargetStateMachineParameters object

Required: No

TimestreamParameters

The parameters for using a Timestream for LiveAnalytics table as a target.

Type: PipeTargetTimestreamParameters 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

PipeTargetRedshiftDataParameters

These are custom parameters to be used when the target is a Amazon Redshift cluster to invoke the Amazon Redshift Data API BatchExecuteStatement.

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

Sqls

The SQL statement text to run.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 40 items.

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

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 Secrets Manager.

Type: String

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

Pattern: `(^arn:aws([a-z]|\-)*:secretsmanager:([a-z]{2}((-gov)|(-iso(b?)))?-[a-z]+-\d{1}):(\d{12}):secret:.+)|(\$(\.[\w/_-]+(\[(\d+|\*)\])*)*)`

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

PipeTargetSageMakerPipelineParameters

The parameters for using a SageMaker pipeline as a target.

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

PipeTargetSqsQueueParameters

The parameters for using a Amazon SQS stream as a target.

Contents

MessageDeduplicationId

This parameter applies only to FIFO (first-in-first-out) queues.

The token used for deduplication of sent messages.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Required: No

MessageGroupId

The FIFO message group ID to use as the target.

Type: String

Length Constraints: Minimum length of 0. 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

PipeTargetStateMachineParameters

The parameters for using a Step Functions state machine as a target.

Contents

InvocationType

Specify whether to invoke the Step Functions state machine synchronously or asynchronously.

- `REQUEST_RESPONSE` (default) - Invoke synchronously. For more information, see StartSyncExecution in the *AWS Step Functions API Reference*.

> **Note**
>
> `REQUEST_RESPONSE` is not supported for `STANDARD` state machine workflows.

- `FIRE_AND_FORGET` - Invoke asynchronously. For more information, see StartExecution in the *AWS Step Functions API Reference*.

For more information, see Invocation types in the *Amazon EventBridge User Guide*.

Type: String

Valid Values: `REQUEST_RESPONSE | FIRE_AND_FORGET`

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

PipeTargetTimestreamParameters

The parameters for using a Timestream for LiveAnalytics table as a target.

Contents

DimensionMappings

Map source data to dimensions in the target Timestream for LiveAnalytics table.

For more information, see Amazon Timestream for LiveAnalytics concepts

Type: Array of DimensionMapping objects

Array Members: Minimum number of 1 item. Maximum number of 128 items.

Required: Yes

TimeValue

Dynamic path to the source data field that represents the time value for your data.

Type: String

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

Required: Yes

VersionValue

64 bit version value or source data field that represents the version value for your data.

Write requests with a higher version number will update the existing measure values of the record and version. In cases where the measure value is the same, the version will still be updated.

Default value is 1.

Timestream for LiveAnalytics does not support updating partial measure values in a record.

Write requests for duplicate data with a higher version number will update the existing measure value and version. In cases where the measure value is the same, `Version` will still be updated. Default value is 1.

> **Note**
>
> `Version` must be 1 or greater, or you will receive a `ValidationException` error.

Type: String

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

Required: Yes

EpochTimeUnit

The granularity of the time units used. Default is `MILLISECONDS`.

Required if `TimeFieldType` is specified as `EPOCH`.

Type: String

Valid Values: `MILLISECONDS | SECONDS | MICROSECONDS | NANOSECONDS`

Required: No

MultiMeasureMappings

Maps multiple measures from the source event to the same record in the specified Timestream for LiveAnalytics table.

Type: Array of MultiMeasureMapping objects

Array Members: Minimum number of 0 items. Maximum number of 1024 items.

Required: No

SingleMeasureMappings

Mappings of single source data fields to individual records in the specified Timestream for LiveAnalytics table.

Type: Array of SingleMeasureMapping objects

Array Members: Minimum number of 0 items. Maximum number of 8192 items.

Required: No

TimeFieldType

The type of time value used.

The default is EPOCH.

Type: String

Valid Values: EPOCH | TIMESTAMP_FORMAT

Required: No

TimestampFormat

How to format the timestamps. For example, YYYY-MM-DDThh:mm:ss.sssTZD.

Required if TimeFieldType is specified as TIMESTAMP_FORMAT.

Type: String

Length Constraints: Minimum length of 1. 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

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: Minimum length of 0. Maximum length of 2000.

Required: No

type

The type of constraint. Use distinctInstance to ensure that each task in a particular group is running on a different container instance. Use memberOf to restrict the selection to a group of valid candidates.

Type: String

Valid Values: `distinctInstance | memberOf`

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

PlacementStrategy

The task placement strategy for a task or service. To learn more, see Task Placement Strategies in the Amazon Elastic Container Service Service Developer Guide.

Contents

field

The field to apply the placement strategy against. For the spread placement strategy, valid values are instanceId (or host, which has the same effect), or any platform or custom attribute that is applied to a container instance, such as attribute:ecs.availability-zone. For the binpack placement strategy, valid values are cpu and memory. For the random placement strategy, this field is not used.

Type: String

Length Constraints: Minimum length of 0. 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

S3LogDestination

The Amazon S3 logging configuration settings for the pipe.

Contents

BucketName

The name of the Amazon S3 bucket to which EventBridge delivers the log records for the pipe.

Type: String

Required: No

BucketOwner

The AWS account that owns the Amazon S3 bucket to which EventBridge delivers the log records for the pipe.

Type: String

Required: No

OutputFormat

The format EventBridge uses for the log records.

- `json`: JSON
- `plain`: Plain text
- `w3c`: W3C extended logging file format

Type: String

Valid Values: `json | plain | w3c`

Required: No

Prefix

The prefix text with which to begin Amazon S3 log object names.

For more information, see Organizing objects using prefixes in the *Amazon Simple Storage Service User Guide*.

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

S3LogDestinationParameters

The Amazon S3 logging configuration settings for the pipe.

Contents

BucketName

Specifies the name of the Amazon S3 bucket to which EventBridge delivers the log records for the pipe.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 63.

Required: Yes

BucketOwner

Specifies the AWS account that owns the Amazon S3 bucket to which EventBridge delivers the log records for the pipe.

Type: String

Pattern: `\d{12}`

Required: Yes

OutputFormat

How EventBridge should format the log records.

- `json`: JSON
- `plain`: Plain text
- `w3c`: W3C extended logging file format

Type: String

Valid Values: `json | plain | w3c`

Required: No

Prefix

Specifies any prefix text with which to begin Amazon S3 log object names.

You can use prefixes to organize the data that you store in Amazon S3 buckets. A prefix is a string of characters at the beginning of the object key name. A prefix can be any length, subject to the maximum length of the object key name (1,024 bytes). For more information, see Organizing objects using prefixes in the *Amazon Simple Storage Service User Guide*.

Type: String

Length Constraints: Minimum length of 0. 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

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])*|(\$(\.[\w/_-]+(\[(\d+|\*)\])*)*)`

Required: Yes

Value

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

Type: String

Length Constraints: Minimum length of 0. 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

SelfManagedKafkaAccessConfigurationCredentials

The AWS Secrets Manager secret that stores your stream credentials.

Contents

> **Important**
>
> This data type is a UNION, so only one of the following members can be specified when used or returned.

BasicAuth

The ARN of the Secrets Manager secret.

Type: String

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

Pattern: `(^arn:aws([a-z]|\-)*:secretsmanager:([a-z]{2}((-gov)|(-iso(b?)))?-[a-z]+-\d{1}):(\d{12}):secret:.+)`

Required: No

ClientCertificateTlsAuth

The ARN of the Secrets Manager secret.

Type: String

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

Pattern: `(^arn:aws([a-z]|\-)*:secretsmanager:([a-z]{2}((-gov)|(-iso(b?)))?-[a-z]+-\d{1}):(\d{12}):secret:.+)`

Required: No

SaslScram256Auth

The ARN of the Secrets Manager secret.

Type: String

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

Pattern: `(^arn:aws([a-z]|\-)*:secretsmanager:([a-z]{2}((-gov)|(-iso(b?)))?-[a-z]+-\d{1}):(\d{12}):secret:.+)`

Required: No

SaslScram512Auth

The ARN of the Secrets Manager secret.

Type: String

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

Pattern: `(^arn:aws([a-z]|\-)*:secretsmanager:([a-z]{2}((-gov)|(-iso(b?)))?-[a-z]+-\d{1}):(\d{12}):secret:.+)`

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

SelfManagedKafkaAccessConfigurationVpc

This structure specifies the VPC subnets and security groups for the stream, and whether a public IP address is to be used.

Contents

SecurityGroup

Specifies the security groups associated with the stream. 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

Array Members: Minimum number of 0 items. Maximum number of 5 items.

Length Constraints: Minimum length of 1. Maximum length of 1024.

Pattern: `sg-[0-9a-zA-Z]*`

Required: No

Subnets

Specifies the subnets associated with the stream. These subnets must all be in the same VPC. You can specify as many as 16 subnets.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 16 items.

Length Constraints: Minimum length of 1. Maximum length of 1024.

Pattern: `subnet-[0-9a-z]*`

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

SingleMeasureMapping

Maps a single source data field to a single record in the specified Timestream for LiveAnalytics table.

For more information, see Amazon Timestream for LiveAnalytics concepts

Contents

MeasureName

Target measure name for the measurement attribute in the Timestream table.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

Required: Yes

MeasureValue

Dynamic path of the source field to map to the measure in the record.

Type: String

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

Required: Yes

MeasureValueType

Data type of the source field.

Type: String

Valid Values: `DOUBLE | BIGINT | VARCHAR | BOOLEAN | TIMESTAMP`

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

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

UpdatePipeSourceActiveMQBrokerParameters

The parameters for using an Active MQ broker as a source.

Contents

Credentials

The credentials needed to access the resource.

Type: MQBrokerAccessCredentials object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

BatchSize

The maximum number of records to include in each batch.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 10000.

Required: No

MaximumBatchingWindowInSeconds

The maximum length of a time to wait for events.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 300.

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

UpdatePipeSourceDynamoDBStreamParameters

The parameters for using a DynamoDB stream as a source.

Contents

BatchSize

The maximum number of records to include in each batch.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 10000.

Required: No

DeadLetterConfig

Define the target queue to send dead-letter queue events to.

Type: DeadLetterConfig object

Required: No

MaximumBatchingWindowInSeconds

The maximum length of a time to wait for events.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 300.

Required: No

MaximumRecordAgeInSeconds

(Streams only) Discard records older than the specified age. The default value is -1, which sets the maximum age to infinite. When the value is set to infinite, EventBridge never discards old records.

Type: Integer

Valid Range: Minimum value of -1. Maximum value of 604800.

Required: No

MaximumRetryAttempts

(Streams only) Discard records after the specified number of retries. The default value is -1, which sets the maximum number of retries to infinite. When MaximumRetryAttempts is infinite, EventBridge retries failed records until the record expires in the event source.

Type: Integer

Valid Range: Minimum value of -1. Maximum value of 10000.

Required: No

OnPartialBatchItemFailure

(Streams only) Define how to handle item process failures. `AUTOMATIC_BISECT` halves each batch and retry each half until all the records are processed or there is one failed message left in the batch.

Type: String

Valid Values: `AUTOMATIC_BISECT`

Required: No

ParallelizationFactor

(Streams only) The number of batches to process concurrently from each shard. The default value is 1.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 10.

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

UpdatePipeSourceKinesisStreamParameters

The parameters for using a Kinesis stream as a source.

Contents

BatchSize

The maximum number of records to include in each batch.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 10000.

Required: No

DeadLetterConfig

Define the target queue to send dead-letter queue events to.

Type: DeadLetterConfig object

Required: No

MaximumBatchingWindowInSeconds

The maximum length of a time to wait for events.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 300.

Required: No

MaximumRecordAgeInSeconds

(Streams only) Discard records older than the specified age. The default value is -1, which sets the maximum age to infinite. When the value is set to infinite, EventBridge never discards old records.

Type: Integer

Valid Range: Minimum value of -1. Maximum value of 604800.

Required: No

MaximumRetryAttempts

(Streams only) Discard records after the specified number of retries. The default value is -1, which sets the maximum number of retries to infinite. When MaximumRetryAttempts is infinite, EventBridge retries failed records until the record expires in the event source.

Type: Integer

Valid Range: Minimum value of -1. Maximum value of 10000.

Required: No

OnPartialBatchItemFailure

(Streams only) Define how to handle item process failures. `AUTOMATIC_BISECT` halves each batch and retry each half until all the records are processed or there is one failed message left in the batch.

Type: String

Valid Values: `AUTOMATIC_BISECT`

Required: No

ParallelizationFactor

(Streams only) The number of batches to process concurrently from each shard. The default value is 1.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 10.

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

UpdatePipeSourceManagedStreamingKafkaParameters

The parameters for using an MSK stream as a source.

Contents

BatchSize

The maximum number of records to include in each batch.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 10000.

Required: No

Credentials

The credentials needed to access the resource.

Type: MSKAccessCredentials object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: No

MaximumBatchingWindowInSeconds

The maximum length of a time to wait for events.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 300.

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

UpdatePipeSourceParameters

The parameters required to set up a source for your pipe.

Contents

ActiveMQBrokerParameters

The parameters for using an Active MQ broker as a source.

Type: UpdatePipeSourceActiveMQBrokerParameters object

Required: No

DynamoDBStreamParameters

The parameters for using a DynamoDB stream as a source.

Type: UpdatePipeSourceDynamoDBStreamParameters object

Required: No

FilterCriteria

The collection of event patterns used to filter events.

To remove a filter, specify a `FilterCriteria` object with an empty array of `Filter` objects.

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

Type: FilterCriteria object

Required: No

KinesisStreamParameters

The parameters for using a Kinesis stream as a source.

Type: UpdatePipeSourceKinesisStreamParameters object

Required: No

ManagedStreamingKafkaParameters

The parameters for using an MSK stream as a source.

Type: UpdatePipeSourceManagedStreamingKafkaParameters object

Required: No

RabbitMQBrokerParameters

The parameters for using a Rabbit MQ broker as a source.

Type: UpdatePipeSourceRabbitMQBrokerParameters object

Required: No

SelfManagedKafkaParameters

The parameters for using a self-managed Apache Kafka stream as a source.

A *self managed* cluster refers to any Apache Kafka cluster not hosted by AWS. This includes both clusters you manage yourself, as well as those hosted by a third-party provider, such as Confluent Cloud, CloudKarafka, or Redpanda. For more information, see Apache Kafka streams as a source in the *Amazon EventBridge User Guide*.

Type: UpdatePipeSourceSelfManagedKafkaParameters object

Required: No

SqsQueueParameters

The parameters for using a Amazon SQS stream as a source.

Type: UpdatePipeSourceSqsQueueParameters 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

UpdatePipeSourceRabbitMQBrokerParameters

The parameters for using a Rabbit MQ broker as a source.

Contents

Credentials

The credentials needed to access the resource.

Type: MQBrokerAccessCredentials object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

BatchSize

The maximum number of records to include in each batch.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 10000.

Required: No

MaximumBatchingWindowInSeconds

The maximum length of a time to wait for events.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 300.

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

UpdatePipeSourceSelfManagedKafkaParameters

The parameters for using a self-managed Apache Kafka stream as a source.

A *self managed* cluster refers to any Apache Kafka cluster not hosted by AWS. This includes both clusters you manage yourself, as well as those hosted by a third-party provider, such as Confluent Cloud, CloudKarafka, or Redpanda. For more information, see Apache Kafka streams as a source in the *Amazon EventBridge User Guide*.

Contents

BatchSize

The maximum number of records to include in each batch.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 10000.

Required: No

Credentials

The credentials needed to access the resource.

Type: SelfManagedKafkaAccessConfigurationCredentials object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: No

MaximumBatchingWindowInSeconds

The maximum length of a time to wait for events.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 300.

Required: No

ServerRootCaCertificate

The ARN of the Secrets Manager secret used for certification.

Type: String

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

Pattern: `(^arn:aws([a-z]|\-)*:secretsmanager:([a-z]{2}((-gov)|(-iso(b?)))?-[a-z]+-\d{1}):(\d{12}):secret:.+)`

Required: No

Vpc

This structure specifies the VPC subnets and security groups for the stream, and whether a public IP address is to be used.

Type: SelfManagedKafkaAccessConfigurationVpc 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

UpdatePipeSourceSqsQueueParameters

The parameters for using a Amazon SQS stream as a source.

Contents

BatchSize

The maximum number of records to include in each batch.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 10000.

Required: No

MaximumBatchingWindowInSeconds

The maximum length of a time to wait for events.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 300.

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

ValidationExceptionField

Indicates that an error has occurred while performing a validate operation.

Contents

message

The message of the exception.

Type: String

Required: Yes

name

The name of the exception.

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

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: 403

ExpiredTokenException

The security token included in the request is expired

HTTP Status Code: 403

IncompleteSignature

The request signature does not conform to AWS standards.

HTTP Status Code: 403

InternalFailure

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

HTTP Status Code: 500

MalformedHttpRequestException

Problems with the request at the HTTP level, e.g. we can't decompress the body according to the decompression algorithm specified by the content-encoding.

HTTP Status Code: 400

NotAuthorized

You do not have permission to perform this action.

HTTP Status Code: 401

OptInRequired

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

HTTP Status Code: 403

RequestAbortedException

Convenient exception that can be used when a request is aborted before a reply is sent back (e.g. client closed connection).

HTTP Status Code: 400

RequestEntityTooLargeException

Problems with the request at the HTTP level. The request entity is too large.

HTTP Status Code: 413

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

RequestTimeoutException

Problems with the request at the HTTP level. Reading the Request timed out.

HTTP Status Code: 408

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

UnrecognizedClientException

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

HTTP Status Code: 403

UnknownOperationException

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

HTTP Status Code: 404

ValidationError

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

HTTP Status Code: 400