



APIReference

# Amazon EventBridge Pipes



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# 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 ensure 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.

This document was last published on May 21, 2026.

# 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"
  },
  "KmsKeyIdentifier": "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
        }
    ],
    "EnableECSTags": 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]{2,4}((-gov)|(-de)|(-iso([a-z]?)))?-[a-z]+(-\d{1})?):(\d{12})?:(.+)`

Required: No

### EnrichmentParameters

The parameters required to set up enrichment on your pipe.

Type: [PipeEnrichmentParameters](#) object

Required: No

### KmsKeyIdentifier

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

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

For more information, see [Managing keys](#) in the *AWS Key Management Service Developer Guide*.

Type: String

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

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

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]{2,4} ((-gov) | (-de) | (-iso([a-z]?))) )? - [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]{2,4}((-gov)|(-de)|(-iso([a-z]?)))?-[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 Error Types](#).

### **ConflictException**

An action you attempted resulted in an exception.

#### **resourceId**

The ID of the resource that caused the exception.

#### **resourceType**

The type of resource that caused the exception.

HTTP Status Code: 409

### **InternalException**

This exception occurs due to unexpected causes.

#### **retryAfterSeconds**

The number of seconds to wait before retrying the action that caused the exception.

HTTP Status Code: 500

### **NotFoundException**

An entity that you specified does not exist.

HTTP Status Code: 404

### **ServiceQuotaExceededException**

A quota has been exceeded.

#### **quotaCode**

The identifier of the quota that caused the exception.

#### **resourceId**

The ID of the resource that caused the exception.

#### **resourceType**

The type of resource that caused the exception.

#### **serviceCode**

The identifier of the service that caused the exception.

HTTP Status Code: 402

### **ThrottlingException**

An action was throttled.

#### **quotaCode**

The identifier of the quota that caused the exception.

#### **retryAfterSeconds**

The number of seconds to wait before retrying the action that caused the exception.

## **serviceCode**

The identifier of the service that caused the exception.

HTTP Status Code: 429

## **ValidationException**

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

### **fieldList**

The list of fields for which validation failed and the corresponding failure messages.

HTTP Status Code: 400

## **See Also**

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# 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 Error Types](#).

### **ConflictException**

An action you attempted resulted in an exception.

#### **resourceId**

The ID of the resource that caused the exception.

#### **resourceType**

The type of resource that caused the exception.

HTTP Status Code: 409

### **InternalException**

This exception occurs due to unexpected causes.

#### **retryAfterSeconds**

The number of seconds to wait before retrying the action that caused the exception.

HTTP Status Code: 500

### **NotFoundException**

An entity that you specified does not exist.

HTTP Status Code: 404

## ThrottlingException

An action was throttled.

### **quotaCode**

The identifier of the quota that caused the exception.

### **retryAfterSeconds**

The number of seconds to wait before retrying the action that caused the exception.

### **serviceCode**

The identifier of the service that caused the exception.

HTTP Status Code: 429

## ValidationException

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

### **fieldList**

The list of fields for which validation failed and the corresponding failure messages.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)

- [AWS SDK for Ruby V3](#)

# 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"
},
"KmsKeyIdentifier": "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]{2,4}((-gov)|(-de)|(-iso([a-z]?)))?-[a-z]+(-\d{1})?:?(\d{12})?:?(.+)`

### EnrichmentParameters

The parameters required to set up enrichment on your pipe.

Type: [PipeEnrichmentParameters](#) object

### KmsKeyIdentifier

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

For more information, see [Data encryption in EventBridge](#) in the *Amazon EventBridge User Guide*.

Type: String

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

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

## 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]{2,4}((-gov) | (-de) | (-iso([a-z]?)))? - [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]{2,4}((-gov)|(-de)|(-iso([a-z]?)))?-[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 Error Types](#).

### InternalException

This exception occurs due to unexpected causes.

#### **retryAfterSeconds**

The number of seconds to wait before retrying the action that caused the exception.

HTTP Status Code: 500

### NotFoundException

An entity that you specified does not exist.

HTTP Status Code: 404

### ThrottlingException

An action was throttled.

#### **quotaCode**

The identifier of the quota that caused the exception.

#### **retryAfterSeconds**

The number of seconds to wait before retrying the action that caused the exception.

#### **serviceCode**

The identifier of the service that caused the exception.

HTTP Status Code: 429

### ValidationException

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

#### **fieldList**

The list of fields for which validation failed and the corresponding failure messages.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# 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=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 Error Types](#).

### InternalException

This exception occurs due to unexpected causes.

#### **retryAfterSeconds**

The number of seconds to wait before retrying the action that caused the exception.

HTTP Status Code: 500

## ThrottlingException

An action was throttled.

### **quotaCode**

The identifier of the quota that caused the exception.

### **retryAfterSeconds**

The number of seconds to wait before retrying the action that caused the exception.

### **serviceCode**

The identifier of the service that caused the exception.

HTTP Status Code: 429

## ValidationException

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

### **fieldList**

The list of fields for which validation failed and the corresponding failure messages.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)

- [AWS SDK for Ruby V3](#)

# 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 Error Types](#).

### InternalException

This exception occurs due to unexpected causes.

#### **retryAfterSeconds**

The number of seconds to wait before retrying the action that caused the exception.

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.

#### **fieldList**

The list of fields for which validation failed and the corresponding failure messages.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# 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 Error Types](#).

### **ConflictException**

An action you attempted resulted in an exception.

#### **resourceId**

The ID of the resource that caused the exception.

#### **resourceType**

The type of resource that caused the exception.

HTTP Status Code: 409

### **InternalException**

This exception occurs due to unexpected causes.

#### **retryAfterSeconds**

The number of seconds to wait before retrying the action that caused the exception.

HTTP Status Code: 500

### **NotFoundException**

An entity that you specified does not exist.

HTTP Status Code: 404

## ThrottlingException

An action was throttled.

### **quotaCode**

The identifier of the quota that caused the exception.

### **retryAfterSeconds**

The number of seconds to wait before retrying the action that caused the exception.

### **serviceCode**

The identifier of the service that caused the exception.

HTTP Status Code: 429

## ValidationException

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

### **fieldList**

The list of fields for which validation failed and the corresponding failure messages.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)

- [AWS SDK for Ruby V3](#)

# 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 Error Types](#).

### **ConflictException**

An action you attempted resulted in an exception.

#### **resourceId**

The ID of the resource that caused the exception.

#### **resourceType**

The type of resource that caused the exception.

HTTP Status Code: 409

### **InternalException**

This exception occurs due to unexpected causes.

#### **retryAfterSeconds**

The number of seconds to wait before retrying the action that caused the exception.

HTTP Status Code: 500

### **NotFoundException**

An entity that you specified does not exist.

HTTP Status Code: 404

## ThrottlingException

An action was throttled.

### **quotaCode**

The identifier of the quota that caused the exception.

### **retryAfterSeconds**

The number of seconds to wait before retrying the action that caused the exception.

### **serviceCode**

The identifier of the service that caused the exception.

HTTP Status Code: 429

## ValidationException

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

### **fieldList**

The list of fields for which validation failed and the corresponding failure messages.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)

- [AWS SDK for Ruby V3](#)

# TagResource

Assigns one or more tags (key-value pairs) to the specified pipe. Tags can help you organize and categorize your resources. You can also use them to scope user permissions by granting a user permission to access or change only resources with certain tag values.

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 Error Types](#).

### **InternalException**

This exception occurs due to unexpected causes.

#### **retryAfterSeconds**

The number of seconds to wait before retrying the action that caused the exception.

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.

### fieldList

The list of fields for which validation failed and the corresponding failure messages.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# 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 Error Types](#).

### InternalException

This exception occurs due to unexpected causes.

#### **retryAfterSeconds**

The number of seconds to wait before retrying the action that caused the exception.

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.

#### **fieldList**

The list of fields for which validation failed and the corresponding failure messages.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)

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

# UpdatePipe

Update an existing pipe. When you call `UpdatePipe`, EventBridge only updates the 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"
      },
      "PathParamValues": [ "string" ],
      "QueryStringParameters": {
        "string" : "string"
      }
    },
    "InputTemplate": "string"
  },
  "KmsKeyIdentifier": "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]{2,4}((-gov)|(-de)|(-iso([a-z]?)))?-[a-z]+(-\d{1})?)?:(\d{12})?:(.+)`

Required: No

### EnrichmentParameters

The parameters required to set up enrichment on your pipe.

Type: [PipeEnrichmentParameters](#) object

Required: No

### KmsKeyIdentifier

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

To update a pipe that is using the default AWS owned key to use a customer managed key instead, or update a pipe that is using a customer managed key to use a different customer managed key, specify a customer managed key identifier.

To update a pipe that is using a customer managed key to use the default AWS owned key, specify an empty string.

For more information, see [Managing keys](#) in the *AWS Key Management Service Developer Guide*.

Type: String

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

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

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]{2,4}((-gov)|(-de)|(-iso([a-z]?)))?-[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 Error Types](#).

### ConflictException

An action you attempted resulted in an exception.

**resourceId**

The ID of the resource that caused the exception.

**resourceType**

The type of resource that caused the exception.

HTTP Status Code: 409

### InternalException

This exception occurs due to unexpected causes.

**retryAfterSeconds**

The number of seconds to wait before retrying the action that caused the exception.

HTTP Status Code: 500

### NotFoundException

An entity that you specified does not exist.

HTTP Status Code: 404

### ThrottlingException

An action was throttled.

**quotaCode**

The identifier of the quota that caused the exception.

**retryAfterSeconds**

The number of seconds to wait before retrying the action that caused the exception.

**serviceCode**

The identifier of the service that caused the exception.

HTTP Status Code: 429

## **ValidationException**

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

### **fieldList**

The list of fields for which validation failed and the corresponding failure messages.

HTTP Status Code: 400

## **See Also**

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# Data Types

The Amazon EventBridge 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 `aws_vpc` 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]{2,4}((-gov)|(-de)|(-iso([a-z]?)))?-[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]{2,4}((-gov)|(-de)|(-iso([a-z]?)))?-[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]{2,4}((-gov)|(-de)|(-iso([a-z]?)))?-[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]{2,4}((-gov)|(-de)|(-iso([a-z]?)))?-[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]{2,4}((-gov)|(-de)|(-iso([a-z]?)))?-[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]{2,4}((-gov)|(-de)|(-iso([a-z]?)))?-[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]{2,4}((-gov)|(-de)|(-iso([a-z]?)))?-[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]{2,4}((-gov)|(-de)|(-iso([a-z]?)))?-[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]{2,4}((-gov)|(-de)|(-iso([a-z]?)))?-[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]{2,4}((-gov)|(-de)|(-iso([a-z]?)))?-[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 EventBridge Pipes 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]{2,4}((-gov)|(-de)|(-iso([a-z]?)))?-[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]{2,4}((-gov)|(-de)|(-iso([a-z]?)))?-[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]{2,4}((-gov)|(-de)|(-iso([a-z]?)))?-[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

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

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

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

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

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

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

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

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

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

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**

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](#), [CloudKafka](#), 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](#), [CloudKafka](#), 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]{2,4}((-gov)|(-de)|(-iso([a-z]?)))?-[a-z]+(-\d{1})?):(\d{12}):secret:.+)`

Required: No

### StartingPosition

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

A [dynamic path parameter](#) to a field in the payload containing the time the event occurred, expressed as the number of milliseconds after Jan 1, 1970 00:00:00 UTC.

The value cannot be a static timestamp as the provided timestamp would be applied to all events delivered by the Pipe, regardless of when they are actually delivered.

If no dynamic path parameter is provided, the default value is the time the invocation is processed by the Pipe.

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]{2,4}((-gov)|(-de)|(-iso([a-z]?)))?-[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]{2,4}((-gov)|(-de)|(-iso([a-z]?)))?-[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 AI 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]{2,4}((-gov)|(-de)|(-iso([a-z]?)))?-[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 AI pipeline as a target.

## Contents

### PipelineParameterList

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

Type: Array of [SageMakerPipelineParameter](#) objects

Array Members: Minimum number of 0 items. Maximum number of 200 items.

Required: No

## See Also

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

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

# 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-dd'T'HH:mm:ss'Z'.

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

Type: String

Length Constraints: 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.

EventBridge currently only supports json formatting.

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.

EventBridge currently only supports json formatting.

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 AI Model Building Pipeline.

## Contents

### Name

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

Type: String

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

Pattern: `[a-zA-Z0-9](-*[a-zA-Z0-9])*|(\$(\.[\w/_-]+(\[(\d+|\*)\])*)*)`

Required: Yes

### Value

Value of parameter to start execution of a SageMaker AI 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]{2,4}((-gov)|(-de)|(-iso([a-z]?)))?-[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]{2,4}((-gov)|(-de)|(-iso([a-z]?)))?-[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]{2,4}((-gov)|(-de)|(-iso([a-z]?)))?-[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]{2,4}((-gov)|(-de)|(-iso([a-z]?)))?-[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.

Type: Array of strings

Array Members: Minimum number of 1 item. 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 1 item. 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

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

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

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

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

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

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

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

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](#), [CloudKafka](#), 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](#), [CloudKafka](#), 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]{2,4}((-gov)|(-de)|(-iso([a-z]?)))?-[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*.

## X-Amz-Algorithm

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

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

Type: string

Valid Values: AWS4-HMAC-SHA256

Required: Conditional

## X-Amz-Credential

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

For more information, see [Create a signed AWS API request](#) in the *IAM User Guide*.

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

Type: string

Required: Conditional

## X-Amz-Date

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

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

Type: string

Required: Conditional

### **X-Amz-Security-Token**

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

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

Type: string

Required: Conditional

### **X-Amz-Signature**

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

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

Type: string

Required: Conditional

### **X-Amz-SignedHeaders**

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

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

Type: string

## Required: Conditional

# Common Error Types

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

## AccessDeniedException

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

HTTP Status Code: 403

## ExpiredTokenException

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

HTTP Status Code: 403

## IncompleteSignature

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

HTTP Status Code: 403

## InternalFailure

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

HTTP Status Code: 500

## MalformedHttpRequestException

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

HTTP Status Code: 400

**NotAuthorized**

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

HTTP Status Code: 401

**OptInRequired**

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

HTTP Status Code: 403

**RequestAbortedException**

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

HTTP Status Code: 400

**RequestEntityTooLargeException**

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

HTTP Status Code: 413

**RequestTimeoutException**

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

HTTP Status Code: 408

**ServiceUnavailable**

The service is temporarily unavailable. Try again later.

HTTP Status Code: 503

**ThrottlingException**

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

HTTP Status Code: 400

## **UnknownOperationException**

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

HTTP Status Code: 404

## **UnrecognizedClientException**

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

HTTP Status Code: 403

## **ValidationError**

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

HTTP Status Code: 400