



API Reference

# Amazon Lookout for Metrics



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# Amazon Lookout for Metrics: API Reference

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# Welcome

This is the *Amazon Lookout for Metrics API Reference*. For an introduction to the service with tutorials for getting started, visit [Amazon Lookout for Metrics Developer Guide](#).

This document was last published on July 4, 2024.

# Actions

The following actions are supported:

- [ActivateAnomalyDetector](#)
- [BackTestAnomalyDetector](#)
- [CreateAlert](#)
- [CreateAnomalyDetector](#)
- [CreateMetricSet](#)
- [DeactivateAnomalyDetector](#)
- [DeleteAlert](#)
- [DeleteAnomalyDetector](#)
- [DescribeAlert](#)
- [DescribeAnomalyDetectionExecutions](#)
- [DescribeAnomalyDetector](#)
- [DescribeMetricSet](#)
- [DetectMetricSetConfig](#)
- [GetAnomalyGroup](#)
- [GetDataQualityMetrics](#)
- [GetFeedback](#)
- [GetSampleData](#)
- [ListAlerts](#)
- [ListAnomalyDetectors](#)
- [ListAnomalyGroupRelatedMetrics](#)
- [ListAnomalyGroupSummaries](#)
- [ListAnomalyGroupTimeSeries](#)
- [ListMetricSets](#)
- [ListTagsForResource](#)
- [PutFeedback](#)
- [TagResource](#)
- [UntagResource](#)



- [UpdateAlert](#)
- [UpdateAnomalyDetector](#)
- [UpdateMetricSet](#)

# ActivateAnomalyDetector

Activates an anomaly detector.

## Request Syntax

```
POST /ActivateAnomalyDetector HTTP/1.1
Content-type: application/json
```

```
{
  "AnomalyDetectorArn": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### [AnomalyDetectorArn](#)

The ARN of the anomaly detector.

Type: String

Length Constraints: Maximum length of 256.

Pattern: arn:([a-z\d-]+):.\*:.\*:.\*:.\*+

Required: Yes

## Response Syntax

```
HTTP/1.1 200
```

## Response Elements

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

## Errors

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

### **AccessDeniedException**

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

### **ConflictException**

There was a conflict processing the request. Try your request again.

HTTP Status Code: 409

### **InternalServerErrorException**

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

HTTP Status Code: 500

### **ResourceNotFoundException**

The specified resource cannot be found. Check the ARN of the resource and try again.

HTTP Status Code: 400

### **TooManyRequestsException**

The request was denied due to too many requests being submitted at the same time.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the constraints specified by the AWS service. Check your input values and try again.

HTTP Status Code: 400

## See Also

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

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

# BackTestAnomalyDetector

Runs a backtest for anomaly detection for the specified resource.

## Request Syntax

```
POST /BackTestAnomalyDetector HTTP/1.1
Content-type: application/json
```

```
{
  "AnomalyDetectorArn": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### [AnomalyDetectorArn](#)

The Amazon Resource Name (ARN) of the anomaly detector.

Type: String

Length Constraints: Maximum length of 256.

Pattern: `arn:([a-z\d-]+)::*::*::*::*`

Required: Yes

## Response Syntax

```
HTTP/1.1 200
```

## Response Elements

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

## Errors

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

### **AccessDeniedException**

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

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

HTTP Status Code: 500

### **ResourceNotFoundException**

The specified resource cannot be found. Check the ARN of the resource and try again.

HTTP Status Code: 400

### **TooManyRequestsException**

The request was denied due to too many requests being submitted at the same time.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the constraints specified by the AWS service. Check your input values and try again.

HTTP Status Code: 400

## See Also

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

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

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

# CreateAlert

Creates an alert for an anomaly detector.

## Request Syntax

```
POST /CreateAlert HTTP/1.1
Content-type: application/json

{
  "Action": {
    "LambdaConfiguration": {
      "LambdaArn": "string",
      "RoleArn": "string"
    },
    "SNSConfiguration": {
      "RoleArn": "string",
      "SnsFormat": "string",
      "SnsTopicArn": "string"
    }
  },
  "AlertDescription": "string",
  "AlertFilters": {
    "DimensionFilterList": [
      {
        "DimensionName": "string",
        "DimensionValueList": [ "string" ]
      }
    ],
    "MetricList": [ "string" ]
  },
  "AlertName": "string",
  "AlertSensitivityThreshold": number,
  "AnomalyDetectorArn": "string",
  "Tags": {
    "string" : "string"
  }
}
```

## URI Request Parameters

The request does not use any URI parameters.



## Request Body

The request accepts the following data in JSON format.

### Action

Action that will be triggered when there is an alert.

Type: [Action](#) object

Required: Yes

### AlertDescription

A description of the alert.

Type: String

Length Constraints: Maximum length of 256.

Pattern: `.*\S.*`

Required: No

### AlertFilters

The configuration of the alert filters, containing MetricList and DimensionFilterList.

Type: [AlertFilters](#) object

Required: No

### AlertName

The name of the alert.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

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

Required: Yes

### AlertSensitivityThreshold

An integer from 0 to 100 specifying the alert sensitivity threshold.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 100.

Required: No

### AnomalyDetectorArn

The ARN of the detector to which the alert is attached.

Type: String

Length Constraints: Maximum length of 256.

Pattern: `arn:([a-z\d-]+):.*:.*:.*:.*`

Required: Yes

### Tags

A list of [tags](#) to apply to the alert.

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: Maximum length of 256.

Required: No

## Response Syntax

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

{
  "AlertArn": "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.

### **AlertArn**

The ARN of the alert.

Type: String

Length Constraints: Maximum length of 256.

Pattern: `arn:([a-z\d-]+):.*:.*:.*:.*`

## **Errors**

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

### **AccessDeniedException**

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

### **ConflictException**

There was a conflict processing the request. Try your request again.

HTTP Status Code: 409

### **InternalServerErrorException**

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

HTTP Status Code: 500

### **ResourceNotFoundException**

The specified resource cannot be found. Check the ARN of the resource and try again.

HTTP Status Code: 400

### **ServiceQuotaExceededException**

The request exceeded the service's quotas. Check the service quotas and try again.

HTTP Status Code: 402

## TooManyRequestsException

The request was denied due to too many requests being submitted at the same time.

HTTP Status Code: 429

## ValidationException

The input fails to satisfy the constraints specified by the AWS service. Check your input values and try again.

HTTP Status Code: 400

## See Also

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

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

# CreateAnomalyDetector

Creates an anomaly detector.

## Request Syntax

```
POST /CreateAnomalyDetector HTTP/1.1
Content-type: application/json

{
  "AnomalyDetectorConfig": {
    "AnomalyDetectorFrequency": "string"
  },
  "AnomalyDetectorDescription": "string",
  "AnomalyDetectorName": "string",
  "KmsKeyArn": "string",
  "Tags": {
    "string" : "string"
  }
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### AnomalyDetectorConfig

Contains information about the configuration of the anomaly detector.

Type: [AnomalyDetectorConfig](#) object

Required: Yes

### AnomalyDetectorDescription

A description of the detector.

Type: String

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

Pattern: `.*\S.*`

Required: No

### AnomalyDetectorName

The name of the detector.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

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

Required: Yes

### KmsKeyArn

The ARN of the KMS key to use to encrypt your data.

Type: String

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

Pattern: `arn:aws.*:kms:.*:[0-9]{12}:key/[a-z0-9]{8}-[a-z0-9]{4}-[a-z0-9]{4}-[a-z0-9]{4}-[a-z0-9]{12}`

Required: No

### Tags

A list of [tags](#) to apply to the anomaly detector.

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: Maximum length of 256.

Required: No

## Response Syntax

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

{
  "AnomalyDetectorArn": "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.

### [AnomalyDetectorArn](#)

The ARN of the detector.

Type: String

Length Constraints: Maximum length of 256.

Pattern: `arn:( [a-z\d-] + ): . * : . * : . * : . *`

## Errors

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

### **AccessDeniedException**

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

### **ConflictException**

There was a conflict processing the request. Try your request again.

HTTP Status Code: 409

### **ConflictException**

There was a conflict processing the request. Try your request again.

HTTP Status Code: 409

### **InternalServerErrorException**

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

HTTP Status Code: 500

### **ServiceQuotaExceededException**

The request exceeded the service's quotas. Check the service quotas and try again.

HTTP Status Code: 402

### **TooManyRequestsException**

The request was denied due to too many requests being submitted at the same time.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the constraints specified by the AWS service. Check your input values and try again.

HTTP Status Code: 400

## **See Also**

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

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





# CreateMetricSet

Creates a dataset.

## Request Syntax

```
POST /CreateMetricSet HTTP/1.1
Content-type: application/json
```

```
{
  "AnomalyDetectorArn": "string",
  "DimensionFilterList": [
    {
      "FilterList": [
        {
          "DimensionValue": "string",
          "FilterOperation": "string"
        }
      ],
      "Name": "string"
    }
  ],
  "DimensionList": [ "string" ],
  "MetricList": [
    {
      "AggregationFunction": "string",
      "MetricName": "string",
      "Namespace": "string"
    }
  ],
  "MetricSetDescription": "string",
  "MetricSetFrequency": "string",
  "MetricSetName": "string",
  "MetricSource": {
    "AppFlowConfig": {
      "FlowName": "string",
      "RoleArn": "string"
    },
    "AthenaSourceConfig": {
      "BackTestConfiguration": {
        "RunBackTestMode": boolean
      },
      "DatabaseName": "string",
```

```
"DataCatalog": "string",
"RoleArn": "string",
"S3ResultsPath": "string",
"TableName": "string",
"WorkGroupName": "string"
},
"CloudWatchConfig": {
  "BackTestConfiguration": {
    "RunBackTestMode": boolean
  },
  "RoleArn": "string"
},
"RDSSourceConfig": {
  "DatabaseHost": "string",
  "DatabaseName": "string",
  "DatabasePort": number,
  "DBInstanceIdentifier": "string",
  "RoleArn": "string",
  "SecretManagerArn": "string",
  "TableName": "string",
  "VpcConfiguration": {
    "SecurityGroupIdList": [ "string" ],
    "SubnetIdList": [ "string" ]
  }
},
"RedshiftSourceConfig": {
  "ClusterIdentifier": "string",
  "DatabaseHost": "string",
  "DatabaseName": "string",
  "DatabasePort": number,
  "RoleArn": "string",
  "SecretManagerArn": "string",
  "TableName": "string",
  "VpcConfiguration": {
    "SecurityGroupIdList": [ "string" ],
    "SubnetIdList": [ "string" ]
  }
},
"S3SourceConfig": {
  "FileFormatDescriptor": {
    "CsvFormatDescriptor": {
      "Charset": "string",
      "ContainsHeader": boolean,
      "Delimiter": "string",
```

```
    "FileCompression": "string",
    "HeaderList": [ "string" ],
    "QuoteSymbol": "string"
  },
  "JsonFormatDescriptor": {
    "Charset": "string",
    "FileCompression": "string"
  }
},
"HistoricalDataPathList": [ "string" ],
"RoleArn": "string",
"TemplatedPathList": [ "string" ]
}
},
"Offset": number,
"Tags": {
  "string" : "string"
},
"TimestampColumn": {
  "ColumnFormat": "string",
  "ColumnName": "string"
},
"Timezone": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### AnomalyDetectorArn

The ARN of the anomaly detector that will use the dataset.

Type: String

Length Constraints: Maximum length of 256.

Pattern: `arn:([a-z\d-]+):.*:.*:.*:.*`

Required: Yes

## DimensionFilterList

A list of filters that specify which data is kept for anomaly detection.

Type: Array of [MetricSetDimensionFilter](#) objects

Required: No

## DimensionList

A list of the fields you want to treat as dimensions.

Type: Array of strings

Array Members: Minimum number of 1 item.

Length Constraints: Minimum length of 1. Maximum length of 63.

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

Required: No

## MetricList

A list of metrics that the dataset will contain.

Type: Array of [Metric](#) objects

Array Members: Minimum number of 1 item.

Required: Yes

## MetricSetDescription

A description of the dataset you are creating.

Type: String

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

Pattern: `.*\S.*`

Required: No

## MetricSetFrequency

The frequency with which the source data will be analyzed for anomalies.

Type: String

Valid Values: P1D | PT1H | PT10M | PT5M

Required: No

### MetricSetName

The name of the dataset.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

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

Required: Yes

### MetricSource

Contains information about how the source data should be interpreted.

Type: [MetricSource](#) object

Required: Yes

### Offset

After an interval ends, the amount of seconds that the detector waits before importing data. Offset is only supported for S3, Redshift, Athena and datasources.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 432000.

Required: No

### Tags

A list of [tags](#) to apply to the dataset.

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: Maximum length of 256.

Required: No

### TimestampColumn

Contains information about the column used for tracking time in your source data.

Type: [TimestampColumn](#) object

Required: No

### Timezone

The time zone in which your source data was recorded.

Type: String

Length Constraints: Maximum length of 60.

Pattern: `.*\S.*`

Required: No

## Response Syntax

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

{
  "MetricSetArn": "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.

### MetricSetArn

The ARN of the dataset.

Type: String

Length Constraints: Maximum length of 256.

Pattern: `arn:([a-z\d-]+):.*:.*:.*:.*`

## Errors

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

### **AccessDeniedException**

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

### **ConflictException**

There was a conflict processing the request. Try your request again.

HTTP Status Code: 409

### **InternalServerErrorException**

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

HTTP Status Code: 500

### **ResourceNotFoundException**

The specified resource cannot be found. Check the ARN of the resource and try again.

HTTP Status Code: 400

### **ServiceQuotaExceededException**

The request exceeded the service's quotas. Check the service quotas and try again.

HTTP Status Code: 402

### **TooManyRequestsException**

The request was denied due to too many requests being submitted at the same time.

HTTP Status Code: 429



## ValidationException

The input fails to satisfy the constraints specified by the AWS service. Check your input values and try again.

HTTP Status Code: 400

## See Also

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

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

# DeactivateAnomalyDetector

Deactivates an anomaly detector.

## Request Syntax

```
POST /DeactivateAnomalyDetector HTTP/1.1
Content-type: application/json
```

```
{
  "AnomalyDetectorArn": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### [AnomalyDetectorArn](#)

The Amazon Resource Name (ARN) of the anomaly detector.

Type: String

Length Constraints: Maximum length of 256.

Pattern: `arn:([a-z\d-]+):.*:.*:.*:.*`

Required: Yes

## Response Syntax

```
HTTP/1.1 200
```

## Response Elements

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

## Errors

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

### **AccessDeniedException**

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

### **ConflictException**

There was a conflict processing the request. Try your request again.

HTTP Status Code: 409

### **InternalServerErrorException**

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

HTTP Status Code: 500

### **ResourceNotFoundException**

The specified resource cannot be found. Check the ARN of the resource and try again.

HTTP Status Code: 400

### **TooManyRequestsException**

The request was denied due to too many requests being submitted at the same time.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the constraints specified by the AWS service. Check your input values and try again.

HTTP Status Code: 400

## See Also

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

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

# DeleteAlert

Deletes an alert.

## Request Syntax

```
POST /DeleteAlert HTTP/1.1
Content-type: application/json
```

```
{
  "AlertArn": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### AlertArn

The ARN of the alert to delete.

Type: String

Length Constraints: Maximum length of 256.

Pattern: `arn:([a-z\d-]+):.*:.*:.*:.*`

Required: Yes

## Response Syntax

```
HTTP/1.1 200
```

## Response Elements

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

## Errors

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

### **AccessDeniedException**

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

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

HTTP Status Code: 500

### **ResourceNotFoundException**

The specified resource cannot be found. Check the ARN of the resource and try again.

HTTP Status Code: 400

### **TooManyRequestsException**

The request was denied due to too many requests being submitted at the same time.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the constraints specified by the AWS service. Check your input values and try again.

HTTP Status Code: 400

## See Also

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

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

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

# DeleteAnomalyDetector

Deletes a detector. Deleting an anomaly detector will delete all of its corresponding resources including any configured datasets and alerts.

## Request Syntax

```
POST /DeleteAnomalyDetector HTTP/1.1
Content-type: application/json

{
  "AnomalyDetectorArn": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### [AnomalyDetectorArn](#)

The ARN of the detector to delete.

Type: String

Length Constraints: Maximum length of 256.

Pattern: `arn:([a-z\d-]+):.*:.*:.*:.*`

Required: Yes

## Response Syntax

```
HTTP/1.1 200
```

## Response Elements

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



## Errors

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

### **AccessDeniedException**

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

### **ConflictException**

There was a conflict processing the request. Try your request again.

HTTP Status Code: 409

### **InternalServerErrorException**

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

HTTP Status Code: 500

### **ResourceNotFoundException**

The specified resource cannot be found. Check the ARN of the resource and try again.

HTTP Status Code: 400

### **TooManyRequestsException**

The request was denied due to too many requests being submitted at the same time.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the constraints specified by the AWS service. Check your input values and try again.

HTTP Status Code: 400

## See Also

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

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

# DescribeAlert

Describes an alert.

Amazon Lookout for Metrics API actions are eventually consistent. If you do a read operation on a resource immediately after creating or modifying it, use retries to allow time for the write operation to complete.

## Request Syntax

```
POST /DescribeAlert HTTP/1.1
Content-type: application/json

{
  "AlertArn": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### [AlertArn](#)

The ARN of the alert to describe.

Type: String

Length Constraints: Maximum length of 256.

Pattern: `arn:([a-z\d-]+):.*:.*:.*:.*`

Required: Yes

## Response Syntax

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

```
{
  "Alert": {
    "Action": {
      "LambdaConfiguration": {
        "LambdaArn": "string",
        "RoleArn": "string"
      },
      "SNSConfiguration": {
        "RoleArn": "string",
        "SnsFormat": "string",
        "SnsTopicArn": "string"
      }
    },
    "AlertArn": "string",
    "AlertDescription": "string",
    "AlertFilters": {
      "DimensionFilterList": [
        {
          "DimensionName": "string",
          "DimensionValueList": [ "string" ]
        }
      ],
      "MetricList": [ "string" ]
    },
    "AlertName": "string",
    "AlertSensitivityThreshold": number,
    "AlertStatus": "string",
    "AlertType": "string",
    "AnomalyDetectorArn": "string",
    "CreationTime": number,
    "LastModificationTime": number
  }
}
```

## Response Elements

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

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

### Alert

Contains information about an alert.

Type: [Alert](#) object

## Errors

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

### **AccessDeniedException**

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

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

HTTP Status Code: 500

### **ResourceNotFoundException**

The specified resource cannot be found. Check the ARN of the resource and try again.

HTTP Status Code: 400

### **TooManyRequestsException**

The request was denied due to too many requests being submitted at the same time.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the constraints specified by the AWS service. Check your input values and try again.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface](#)

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

# DescribeAnomalyDetectionExecutions

Returns information about the status of the specified anomaly detection jobs.

## Request Syntax

```
POST /DescribeAnomalyDetectionExecutions HTTP/1.1
Content-type: application/json
```

```
{
  "AnomalyDetectorArn": "string",
  "MaxResults": number,
  "NextToken": "string",
  "Timestamp": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### AnomalyDetectorArn

The Amazon Resource Name (ARN) of the anomaly detector.

Type: String

Length Constraints: Maximum length of 256.

Pattern: `arn:([a-z\d-]+):.*:.*:.*:.*`

Required: Yes

### MaxResults

The number of items to return in the response.

Type: Integer

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

Required: No

### NextToken

Specify the pagination token that's returned by a previous request to retrieve the next page of results.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 3000.

Pattern: `.*\S.*`

Required: No

### Timestamp

The timestamp of the anomaly detection job.

Type: String

Length Constraints: Maximum length of 60.

Pattern: `^([12]\d{3})-(1[0-2]|0[1-9])-(0[1-9]|[12]\d|3[01])T([01]\d|2[0-3]):([0-5]\d):([0-5]\d)(Z|(\+|\-)(0\d|1[0-2]):([0-5]\d)(\[[[:alnum:]]\/_]+\]))?)$`

Required: No

## Response Syntax

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

```
{
  "ExecutionList": [
    {
      "FailureReason": "string",
      "Status": "string",
      "Timestamp": "string"
    }
  ],
  "NextToken": "string"
```



```
}
```

## Response Elements

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

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

### ExecutionList

A list of detection jobs.

Type: Array of [ExecutionStatus](#) objects

### NextToken

The pagination token that's included if more results are available.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 3000.

Pattern: `.*\S.*`

## Errors

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

### **AccessDeniedException**

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

### **InternalServerError**

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

HTTP Status Code: 500

### **ResourceNotFoundException**

The specified resource cannot be found. Check the ARN of the resource and try again.

HTTP Status Code: 400

### **TooManyRequestsException**

The request was denied due to too many requests being submitted at the same time.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the constraints specified by the AWS service. Check your input values and try again.

HTTP Status Code: 400

## **See Also**

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

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

# DescribeAnomalyDetector

Describes a detector.

Amazon Lookout for Metrics API actions are eventually consistent. If you do a read operation on a resource immediately after creating or modifying it, use retries to allow time for the write operation to complete.

## Request Syntax

```
POST /DescribeAnomalyDetector HTTP/1.1
Content-type: application/json

{
  "AnomalyDetectorArn": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### AnomalyDetectorArn

The ARN of the detector to describe.

Type: String

Length Constraints: Maximum length of 256.

Pattern: `arn:([a-z\d-]+):.*:.*:.*:.*`

Required: Yes

## Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

{
  "AnomalyDetectorArn": "string",
  "AnomalyDetectorConfig": {
    "AnomalyDetectorFrequency": "string"
  },
  "AnomalyDetectorDescription": "string",
  "AnomalyDetectorName": "string",
  "CreationTime": number,
  "FailureReason": "string",
  "FailureType": "string",
  "KmsKeyArn": "string",
  "LastModificationTime": number,
  "Status": "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.

### AnomalyDetectorArn

The ARN of the detector.

Type: String

Length Constraints: Maximum length of 256.

Pattern: `arn:( [a-z\d-] + ): . * : . * : . * : . *`

### AnomalyDetectorConfig

Contains information about the detector's configuration.

Type: [AnomalyDetectorConfigSummary](#) object

### AnomalyDetectorDescription

A description of the detector.

Type: String

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

Pattern: `.*\S.*`

### AnomalyDetectorName

The name of the detector.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

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

### CreationTime

The time at which the detector was created.

Type: Timestamp

### FailureReason

The reason that the detector failed.

Type: String

Length Constraints: Maximum length of 256.

### FailureType

The process that caused the detector to fail.

Type: String

Valid Values: `ACTIVATION_FAILURE | BACK_TEST_ACTIVATION_FAILURE | DELETION_FAILURE | DEACTIVATION_FAILURE`

### KmsKeyArn

The ARN of the KMS key to use to encrypt your data.

Type: String

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

Pattern: `arn:aws.*:kms:.*:[0-9]{12}:key/[a-z0-9]{8}-[a-z0-9]{4}-[a-z0-9]{4}-[a-z0-9]{4}-[a-z0-9]{12}`

## LastModificationTime

The time at which the detector was last modified.

Type: Timestamp

## Status

The status of the detector.

Type: String

Valid Values: ACTIVE | ACTIVATING | DELETING | FAILED | INACTIVE | LEARNING  
| BACK\_TEST\_ACTIVATING | BACK\_TEST\_ACTIVE | BACK\_TEST\_COMPLETE |  
DEACTIVATED | DEACTIVATING

## Errors

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

### **AccessDeniedException**

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

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

HTTP Status Code: 500

### **ResourceNotFoundException**

The specified resource cannot be found. Check the ARN of the resource and try again.

HTTP Status Code: 400

### **TooManyRequestsException**

The request was denied due to too many requests being submitted at the same time.

HTTP Status Code: 429

## ValidationException

The input fails to satisfy the constraints specified by the AWS service. Check your input values and try again.

HTTP Status Code: 400

## See Also

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

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

# DescribeMetricSet

Describes a dataset.

Amazon Lookout for Metrics API actions are eventually consistent. If you do a read operation on a resource immediately after creating or modifying it, use retries to allow time for the write operation to complete.

## Request Syntax

```
POST /DescribeMetricSet HTTP/1.1
Content-type: application/json

{
  "MetricSetArn": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### [MetricSetArn](#)

The ARN of the dataset.

Type: String

Length Constraints: Maximum length of 256.

Pattern: `arn:([a-z\d-]+):.*:.*:.*:.*`

Required: Yes

## Response Syntax

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



```

{
  "AnomalyDetectorArn": "string",
  "CreationTime": number,
  "DimensionFilterList": [
    {
      "FilterList": [
        {
          "DimensionValue": "string",
          "FilterOperation": "string"
        }
      ],
      "Name": "string"
    }
  ],
  "DimensionList": [ "string" ],
  "LastModificationTime": number,
  "MetricList": [
    {
      "AggregationFunction": "string",
      "MetricName": "string",
      "Namespace": "string"
    }
  ],
  "MetricSetArn": "string",
  "MetricSetDescription": "string",
  "MetricSetFrequency": "string",
  "MetricSetName": "string",
  "MetricSource": {
    "AppFlowConfig": {
      "FlowName": "string",
      "RoleArn": "string"
    },
    "AthenaSourceConfig": {
      "BackTestConfiguration": {
        "RunBackTestMode": boolean
      },
      "DatabaseName": "string",
      "DataCatalog": "string",
      "RoleArn": "string",
      "S3ResultsPath": "string",
      "TableName": "string",
      "WorkGroupName": "string"
    }
  },

```

```
"CloudWatchConfig": {
  "BackTestConfiguration": {
    "RunBackTestMode": boolean
  },
  "RoleArn": "string"
},
"RDSSourceConfig": {
  "DatabaseHost": "string",
  "DatabaseName": "string",
  "DatabasePort": number,
  "DBInstanceIdentifier": "string",
  "RoleArn": "string",
  "SecretManagerArn": "string",
  "TableName": "string",
  "VpcConfiguration": {
    "SecurityGroupIdList": [ "string " ],
    "SubnetIdList": [ "string " ]
  }
},
"RedshiftSourceConfig": {
  "ClusterIdentifier": "string",
  "DatabaseHost": "string",
  "DatabaseName": "string",
  "DatabasePort": number,
  "RoleArn": "string",
  "SecretManagerArn": "string",
  "TableName": "string",
  "VpcConfiguration": {
    "SecurityGroupIdList": [ "string " ],
    "SubnetIdList": [ "string " ]
  }
},
"S3SourceConfig": {
  "FileFormatDescriptor": {
    "CsvFormatDescriptor": {
      "Charset": "string",
      "ContainsHeader": boolean,
      "Delimiter": "string",
      "FileCompression": "string",
      "HeaderList": [ "string " ],
      "QuoteSymbol": "string"
    },
    "JsonFormatDescriptor": {
      "Charset": "string",
```

```
        "FileCompression": "string"
      }
    },
    "HistoricalDataPathList": [ "string" ],
    "RoleArn": "string",
    "TemplatedPathList": [ "string" ]
  }
},
"Offset": number,
"TimestampColumn": {
  "ColumnFormat": "string",
  "ColumnName": "string"
},
"Timezone": "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.

### AnomalyDetectorArn

The ARN of the detector that contains the dataset.

Type: String

Length Constraints: Maximum length of 256.

Pattern: `arn:([a-z\d-]+):.*:.*:.*:.*`

### CreationTime

The time at which the dataset was created.

Type: Timestamp

### DimensionFilterList

The dimensions and their values that were used to filter the dataset.

Type: Array of [MetricSetDimensionFilter](#) objects

## DimensionList

A list of the dimensions chosen for analysis.

Type: Array of strings

Array Members: Minimum number of 1 item.

Length Constraints: Minimum length of 1. Maximum length of 63.

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

## LastModificationTime

The time at which the dataset was last modified.

Type: Timestamp

## MetricList

A list of the metrics defined by the dataset.

Type: Array of [Metric](#) objects

Array Members: Minimum number of 1 item.

## MetricSetArn

The ARN of the dataset.

Type: String

Length Constraints: Maximum length of 256.

Pattern: `arn:( [a-z\d-] + ): . * : . * : . * : . *`

## MetricSetDescription

The dataset's description.

Type: String

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

Pattern: `. * \S . *`

## MetricSetFrequency

The interval at which the data will be analyzed for anomalies.

Type: String

Valid Values: P1D | PT1H | PT10M | PT5M

## MetricSetName

The name of the dataset.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

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

## MetricSource

Contains information about the dataset's source data.

Type: [MetricSource](#) object

## Offset

After an interval ends, the amount of seconds that the detector waits before importing data.

Offset is only supported for S3, Redshift, Athena and datasources.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 432000.

## TimestampColumn

Contains information about the column used for tracking time in your source data.

Type: [TimestampColumn](#) object

## Timezone

The time zone in which the dataset's data was recorded.

Type: String

Length Constraints: Maximum length of 60.

Pattern: .\*\\S.\*

## Errors

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

### **AccessDeniedException**

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

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

HTTP Status Code: 500

### **ResourceNotFoundException**

The specified resource cannot be found. Check the ARN of the resource and try again.

HTTP Status Code: 400

### **TooManyRequestsException**

The request was denied due to too many requests being submitted at the same time.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the constraints specified by the AWS service. Check your input values and try again.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface](#)

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

# DetectMetricSetConfig

Detects an Amazon S3 dataset's file format, interval, and offset.

## Request Syntax

```
POST /DetectMetricSetConfig HTTP/1.1
Content-type: application/json

{
  "AnomalyDetectorArn": "string",
  "AutoDetectionMetricSource": {
    "S3SourceConfig": {
      "HistoricalDataPathList": [ "string" ],
      "TemplatedPathList": [ "string" ]
    }
  }
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### AnomalyDetectorArn

An anomaly detector ARN.

Type: String

Length Constraints: Maximum length of 256.

Pattern: `arn:( [a-z\d-] + ): . * : . * : . * : . * +`

Required: Yes

### AutoDetectionMetricSource

A data source.

Type: [AutoDetectionMetricSource](#) object



Required: Yes

## Response Syntax

HTTP/1.1 200

Content-type: application/json

```
{
  "DetectedMetricSetConfig": {
    "MetricSetFrequency": {
      "Confidence": "string",
      "Message": "string",
      "Value": {
        "B": "string",
        "BS": [ "string" ],
        "N": "string",
        "NS": [ "string" ],
        "S": "string",
        "SS": [ "string" ]
      }
    },
    "MetricSource": {
      "S3SourceConfig": {
        "FileFormatDescriptor": {
          "CsvFormatDescriptor": {
            "Charset": {
              "Confidence": "string",
              "Message": "string",
              "Value": {
                "B": "string",
                "BS": [ "string" ],
                "N": "string",
                "NS": [ "string" ],
                "S": "string",
                "SS": [ "string" ]
              }
            },
            "ContainsHeader": {
              "Confidence": "string",
              "Message": "string",
              "Value": {
                "B": "string",
```

```
        "BS": [ "string" ],
        "N": "string",
        "NS": [ "string" ],
        "S": "string",
        "SS": [ "string" ]
    }
},
"Delimiter": {
    "Confidence": "string",
    "Message": "string",
    "Value": {
        "B": "string",
        "BS": [ "string" ],
        "N": "string",
        "NS": [ "string" ],
        "S": "string",
        "SS": [ "string" ]
    }
},
"FileCompression": {
    "Confidence": "string",
    "Message": "string",
    "Value": {
        "B": "string",
        "BS": [ "string" ],
        "N": "string",
        "NS": [ "string" ],
        "S": "string",
        "SS": [ "string" ]
    }
},
"HeaderList": {
    "Confidence": "string",
    "Message": "string",
    "Value": {
        "B": "string",
        "BS": [ "string" ],
        "N": "string",
        "NS": [ "string" ],
        "S": "string",
        "SS": [ "string" ]
    }
},
"QuoteSymbol": {
```

```

    "Confidence": "string",
    "Message": "string",
    "Value": {
      "B": "string",
      "BS": [ "string" ],
      "N": "string",
      "NS": [ "string" ],
      "S": "string",
      "SS": [ "string" ]
    }
  },
  "JsonFormatDescriptor": {
    "Charset": {
      "Confidence": "string",
      "Message": "string",
      "Value": {
        "B": "string",
        "BS": [ "string" ],
        "N": "string",
        "NS": [ "string" ],
        "S": "string",
        "SS": [ "string" ]
      }
    },
    "FileCompression": {
      "Confidence": "string",
      "Message": "string",
      "Value": {
        "B": "string",
        "BS": [ "string" ],
        "N": "string",
        "NS": [ "string" ],
        "S": "string",
        "SS": [ "string" ]
      }
    }
  }
},
"Offset": {
  "Confidence": "string",
  "Message": "string",

```

```
    "Value": {
      "B": "string",
      "BS": [ "string" ],
      "N": "string",
      "NS": [ "string" ],
      "S": "string",
      "SS": [ "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.

### [DetectedMetricSetConfig](#)

The inferred dataset configuration for the datasource.

Type: [DetectedMetricSetConfig](#) object

## Errors

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

### **AccessDeniedException**

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

### **InternalServerError**

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

HTTP Status Code: 500

### **ResourceNotFoundException**

The specified resource cannot be found. Check the ARN of the resource and try again.

HTTP Status Code: 400

### **TooManyRequestsException**

The request was denied due to too many requests being submitted at the same time.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the constraints specified by the AWS service. Check your input values and try again.

HTTP Status Code: 400

## **See Also**

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

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

# GetAnomalyGroup

Returns details about a group of anomalous metrics.

## Request Syntax

```
POST /GetAnomalyGroup HTTP/1.1
Content-type: application/json

{
  "AnomalyDetectorArn": "string",
  "AnomalyGroupId": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### AnomalyDetectorArn

The Amazon Resource Name (ARN) of the anomaly detector.

Type: String

Length Constraints: Maximum length of 256.

Pattern: arn:([a-z\d-]+):.\*:.\*:.\*:.\*

Required: Yes

### AnomalyGroupId

The ID of the anomaly group.

Type: String

Length Constraints: Maximum length of 63.

Pattern: [a-z0-9]{8}-[a-z0-9]{4}-[a-z0-9]{4}-[a-z0-9]{4}-[a-z0-9]{12}

Required: Yes

## Response Syntax

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

{
  "AnomalyGroup": {
    "AnomalyGroupId": "string",
    "AnomalyGroupScore": number,
    "EndTime": "string",
    "MetricLevelImpactList": [
      {
        "ContributionMatrix": {
          "DimensionContributionList": [
            {
              "DimensionName": "string",
              "DimensionValueContributionList": [
                {
                  "ContributionScore": number,
                  "DimensionValue": "string"
                }
              ]
            }
          ]
        },
        "MetricName": "string",
        "NumTimeSeries": number
      }
    ],
    "PrimaryMetricName": "string",
    "StartTime": "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.

## [AnomalyGroup](#)

Details about the anomaly group.

Type: [AnomalyGroup](#) object

## Errors

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

### **AccessDeniedException**

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

### **InternalServerError**

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

HTTP Status Code: 500

### **ResourceNotFoundException**

The specified resource cannot be found. Check the ARN of the resource and try again.

HTTP Status Code: 400

### **TooManyRequestsException**

The request was denied due to too many requests being submitted at the same time.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the constraints specified by the AWS service. Check your input values and try again.

HTTP Status Code: 400



## See Also

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

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

# GetDataQualityMetrics

Returns details about the requested data quality metrics.

## Request Syntax

```
POST /GetDataQualityMetrics HTTP/1.1
Content-type: application/json

{
  "AnomalyDetectorArn": "string",
  "MetricSetArn": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### AnomalyDetectorArn

The Amazon Resource Name (ARN) of the anomaly detector that you want to investigate.

Type: String

Length Constraints: Maximum length of 256.

Pattern: arn:([a-z\d-]+):.\*:.\*:.\*:.\*

Required: Yes

### MetricSetArn

The Amazon Resource Name (ARN) of a specific data quality metric set.

Type: String

Length Constraints: Maximum length of 256.

Pattern: `arn:([a-z\d-]+):.*:.*:.*:.*`

Required: No

## Response Syntax

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

{
  "AnomalyDetectorDataQualityMetricList": [
    {
      "MetricSetDataQualityMetricList": [
        {
          "DataQualityMetricList": [
            {
              "MetricDescription": "string",
              "MetricType": "string",
              "MetricValue": number,
              "RelatedColumnName": "string"
            }
          ],
          "MetricSetArn": "string"
        }
      ],
      "StartTimestamp": number
    }
  ]
}
```

## Response Elements

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

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

### [AnomalyDetectorDataQualityMetricList](#)

A list of the data quality metrics for the `AnomalyDetectorArn` that you requested.

Type: Array of [AnomalyDetectorDataQualityMetric](#) objects

## Errors

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

### **AccessDeniedException**

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

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

HTTP Status Code: 500

### **ResourceNotFoundException**

The specified resource cannot be found. Check the ARN of the resource and try again.

HTTP Status Code: 400

### **TooManyRequestsException**

The request was denied due to too many requests being submitted at the same time.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the constraints specified by the AWS service. Check your input values and try again.

HTTP Status Code: 400

## See Also

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

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

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

# GetFeedback

Get feedback for an anomaly group.

## Request Syntax

```
POST /GetFeedback HTTP/1.1
Content-type: application/json

{
  "AnomalyDetectorArn": "string",
  "AnomalyGroupTimeSeriesFeedback": {
    "AnomalyGroupId": "string",
    "TimeSeriesId": "string"
  },
  "MaxResults": number,
  "NextToken": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### AnomalyDetectorArn

The Amazon Resource Name (ARN) of the anomaly detector.

Type: String

Length Constraints: Maximum length of 256.

Pattern: `arn:( [a-z\d-] ) : . * : . * : . * : . *`

Required: Yes

### AnomalyGroupTimeSeriesFeedback

The anomalous metric and group ID.

Type: [AnomalyGroupTimeSeries](#) object

Required: Yes

### MaxResults

The maximum number of results to return.

Type: Integer

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

Required: No

### NextToken

Specify the pagination token that's returned by a previous request to retrieve the next page of results.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 3000.

Pattern: `.*\S.*`

Required: No

## Response Syntax

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

{
  "AnomalyGroupTimeSeriesFeedback": [
    {
      "IsAnomaly": boolean,
      "TimeSeriesId": "string"
    }
  ],
  "NextToken": "string"
}
```

## Response Elements

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

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

### [AnomalyGroupTimeSeriesFeedback](#)

Feedback for an anomalous metric.

Type: Array of [TimeSeriesFeedback](#) objects

### [NextToken](#)

The pagination token that's included if more results are available.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 3000.

Pattern: `.*\S.*`

## Errors

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

### **AccessDeniedException**

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

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

HTTP Status Code: 500

### **ResourceNotFoundException**

The specified resource cannot be found. Check the ARN of the resource and try again.

HTTP Status Code: 400

### **TooManyRequestsException**

The request was denied due to too many requests being submitted at the same time.

HTTP Status Code: 429



## ValidationException

The input fails to satisfy the constraints specified by the AWS service. Check your input values and try again.

HTTP Status Code: 400

## See Also

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

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

# GetSampleData

Returns a selection of sample records from an Amazon S3 datasource.

## Request Syntax

```
POST /GetSampleData HTTP/1.1
Content-type: application/json
```

```
{
  "S3SourceConfig": {
    "FileFormatDescriptor": {
      "CsvFormatDescriptor": {
        "Charset": "string",
        "ContainsHeader": boolean,
        "Delimiter": "string",
        "FileCompression": "string",
        "HeaderList": [ "string" ],
        "QuoteSymbol": "string"
      },
      "JsonFormatDescriptor": {
        "Charset": "string",
        "FileCompression": "string"
      }
    },
    "HistoricalDataPathList": [ "string" ],
    "RoleArn": "string",
    "TemplatedPathList": [ "string" ]
  }
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### S3SourceConfig

A datasource bucket in Amazon S3.

Type: [SampleDataS3SourceConfig](#) object

Required: No

## Response Syntax

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

{
  "HeaderValues": [ "string" ],
  "SampleRows": [
    [ "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.

### [HeaderValues](#)

A list of header labels for the records.

Type: Array of strings

### [SampleRows](#)

A list of records.

Type: Array of arrays of strings

## Errors

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

### **AccessDeniedException**

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

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

HTTP Status Code: 500

### **ResourceNotFoundException**

The specified resource cannot be found. Check the ARN of the resource and try again.

HTTP Status Code: 400

### **TooManyRequestsException**

The request was denied due to too many requests being submitted at the same time.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the constraints specified by the AWS service. Check your input values and try again.

HTTP Status Code: 400

## **See Also**

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

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



# ListAlerts

Lists the alerts attached to a detector.

Amazon Lookout for Metrics API actions are eventually consistent. If you do a read operation on a resource immediately after creating or modifying it, use retries to allow time for the write operation to complete.

## Request Syntax

```
POST /ListAlerts HTTP/1.1
Content-type: application/json

{
  "AnomalyDetectorArn": "string",
  "MaxResults": number,
  "NextToken": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### AnomalyDetectorArn

The ARN of the alert's detector.

Type: String

Length Constraints: Maximum length of 256.

Pattern: `arn:( [a-z\d-] + ): . * : . * : . * : . * : . +`

Required: No

### MaxResults

The maximum number of results that will be displayed by the request.

Type: Integer

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

Required: No

### NextToken

If the result of the previous request is truncated, the response includes a NextToken. To retrieve the next set of results, use the token in the next request. Tokens expire after 24 hours.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 3000.

Pattern: `.*\S.*`

Required: No

## Response Syntax

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

{
  "AlertSummaryList": [
    {
      "AlertArn": "string",
      "AlertName": "string",
      "AlertSensitivityThreshold": number,
      "AlertStatus": "string",
      "AlertType": "string",
      "AnomalyDetectorArn": "string",
      "CreationTime": number,
      "LastModificationTime": number,
      "Tags": {
        "string" : "string"
      }
    }
  ],
  "NextToken": "string"
}
```

## Response Elements

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

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

### [AlertSummaryList](#)

Contains information about an alert.

Type: Array of [AlertSummary](#) objects

### [NextToken](#)

If the response is truncated, the service returns this token. To retrieve the next set of results, use this token in the next request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 3000.

Pattern: `.*\S.*`

## Errors

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

### **AccessDeniedException**

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

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

HTTP Status Code: 500

### **ResourceNotFoundException**

The specified resource cannot be found. Check the ARN of the resource and try again.

HTTP Status Code: 400



## TooManyRequestsException

The request was denied due to too many requests being submitted at the same time.

HTTP Status Code: 429

## ValidationException

The input fails to satisfy the constraints specified by the AWS service. Check your input values and try again.

HTTP Status Code: 400

## See Also

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

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

# ListAnomalyDetectors

Lists the detectors in the current AWS Region.

Amazon Lookout for Metrics API actions are eventually consistent. If you do a read operation on a resource immediately after creating or modifying it, use retries to allow time for the write operation to complete.

## Request Syntax

```
POST /ListAnomalyDetectors HTTP/1.1
Content-type: application/json
```

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

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### MaxResults

The maximum number of results to return.

Type: Integer

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

Required: No

### NextToken

If the result of the previous request was truncated, the response includes a NextToken. To retrieve the next set of results, use the token in the next request. Tokens expire after 24 hours.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 3000.

Pattern: .\*\\S.\*

Required: No

## Response Syntax

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

{
  "AnomalyDetectorSummaryList": [
    {
      "AnomalyDetectorArn": "string",
      "AnomalyDetectorDescription": "string",
      "AnomalyDetectorName": "string",
      "CreationTime": number,
      "LastModificationTime": number,
      "Status": "string",
      "Tags": {
        "string" : "string"
      }
    }
  ],
  "NextToken": "string"
}
```

## Response Elements

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

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

### AnomalyDetectorSummaryList

A list of anomaly detectors in the account in the current region.

Type: Array of [AnomalyDetectorSummary](#) objects

## **NextToken**

If the response is truncated, the service returns this token. To retrieve the next set of results, use the token in the next request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 3000.

Pattern: `.*\S.*`

## **Errors**

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

### **AccessDeniedException**

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

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

HTTP Status Code: 500

### **ResourceNotFoundException**

The specified resource cannot be found. Check the ARN of the resource and try again.

HTTP Status Code: 400

### **TooManyRequestsException**

The request was denied due to too many requests being submitted at the same time.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the constraints specified by the AWS service. Check your input values and try again.

HTTP Status Code: 400

## See Also

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

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

# ListAnomalyGroupRelatedMetrics

Returns a list of measures that are potential causes or effects of an anomaly group.

## Request Syntax

```
POST /ListAnomalyGroupRelatedMetrics HTTP/1.1
Content-type: application/json
```

```
{
  "AnomalyDetectorArn": "string",
  "AnomalyGroupId": "string",
  "MaxResults": number,
  "NextToken": "string",
  "RelationshipTypeFilter": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### AnomalyDetectorArn

The Amazon Resource Name (ARN) of the anomaly detector.

Type: String

Length Constraints: Maximum length of 256.

Pattern: `arn:( [a-z\d-] + ): . * : . * : . * : . * +`

Required: Yes

### AnomalyGroupId

The ID of the anomaly group.

Type: String

Length Constraints: Maximum length of 63.

Pattern: `[a-z0-9]{8}-[a-z0-9]{4}-[a-z0-9]{4}-[a-z0-9]{4}-[a-z0-9]{12}`

Required: Yes

### MaxResults

The maximum number of results to return.

Type: Integer

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

Required: No

### NextToken

Specify the pagination token that's returned by a previous request to retrieve the next page of results.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 3000.

Pattern: `.*\S.*`

Required: No

### RelationshipTypeFilter

Filter for potential causes (CAUSE\_OF\_INPUT\_ANOMALY\_GROUP) or downstream effects (EFFECT\_OF\_INPUT\_ANOMALY\_GROUP) of the anomaly group.

Type: String

Valid Values: CAUSE\_OF\_INPUT\_ANOMALY\_GROUP | EFFECT\_OF\_INPUT\_ANOMALY\_GROUP

Required: No

## Response Syntax

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

```
{
  "InterMetricImpactList": [
    {
      "AnomalyGroupId": "string",
      "ContributionPercentage": number,
      "MetricName": "string",
      "RelationshipType": "string"
    }
  ],
  "NextToken": "string"
}
```

## Response Elements

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

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

### [InterMetricImpactList](#)

Aggregated details about the measures contributing to the anomaly group, and the measures potentially impacted by the anomaly group.

Type: Array of [InterMetricImpactDetails](#) objects

### [NextToken](#)

The pagination token that's included if more results are available.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 3000.

Pattern: `.*\S.*`

## Errors

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

### **AccessDeniedException**

You do not have sufficient permissions to perform this action.



HTTP Status Code: 403

### **InternalServerErrorException**

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

HTTP Status Code: 500

### **ResourceNotFoundException**

The specified resource cannot be found. Check the ARN of the resource and try again.

HTTP Status Code: 400

### **TooManyRequestsException**

The request was denied due to too many requests being submitted at the same time.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the constraints specified by the AWS service. Check your input values and try again.

HTTP Status Code: 400

## **See Also**

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

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



# ListAnomalyGroupSummaries

Returns a list of anomaly groups.

## Request Syntax

```
POST /ListAnomalyGroupSummaries HTTP/1.1
Content-type: application/json
```

```
{
  "AnomalyDetectorArn": "string",
  "MaxResults": number,
  "NextToken": "string",
  "SensitivityThreshold": number
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### AnomalyDetectorArn

The Amazon Resource Name (ARN) of the anomaly detector.

Type: String

Length Constraints: Maximum length of 256.

Pattern: `arn:( [a-z\d- ]+ ): . * : . * : . * : . * : . +`

Required: Yes

### MaxResults

The maximum number of results to return.

Type: Integer

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

Required: No

### NextToken

Specify the pagination token that's returned by a previous request to retrieve the next page of results.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 3000.

Pattern: `.*\S.*`

Required: No

### SensitivityThreshold

The minimum severity score for inclusion in the output.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 100.

Required: Yes

## Response Syntax

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

{
  "AnomalyGroupStatistics": {
    "EvaluationStartDate": "string",
    "ItemizedMetricStatsList": [
      {
        "MetricName": "string",
        "OccurrenceCount": number
      }
    ],
    "TotalCount": number
  },
  "AnomalyGroupSummaryList": [
    {
      "AnomalyGroupId": "string",
```

```
    "AnomalyGroupScore": number,
    "EndTime": "string",
    "PrimaryMetricName": "string",
    "StartTime": "string"
  }
],
"NextToken": "string"
}
```

## Response Elements

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

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

### AnomalyGroupStatistics

Aggregated details about the anomaly groups.

Type: [AnomalyGroupStatistics](#) object

### AnomalyGroupSummaryList

A list of anomaly group summaries.

Type: Array of [AnomalyGroupSummary](#) objects

### NextToken

The pagination token that's included if more results are available.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 3000.

Pattern: `.*\S.*`

## Errors

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

### **AccessDeniedException**

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

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

HTTP Status Code: 500

### **ResourceNotFoundException**

The specified resource cannot be found. Check the ARN of the resource and try again.

HTTP Status Code: 400

### **TooManyRequestsException**

The request was denied due to too many requests being submitted at the same time.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the constraints specified by the AWS service. Check your input values and try again.

HTTP Status Code: 400

## **See Also**

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

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



# ListAnomalyGroupTimeSeries

Gets a list of anomalous metrics for a measure in an anomaly group.

## Request Syntax

```
POST /ListAnomalyGroupTimeSeries HTTP/1.1
Content-type: application/json
```

```
{
  "AnomalyDetectorArn": "string",
  "AnomalyGroupId": "string",
  "MaxResults": number,
  "MetricName": "string",
  "NextToken": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### AnomalyDetectorArn

The Amazon Resource Name (ARN) of the anomaly detector.

Type: String

Length Constraints: Maximum length of 256.

Pattern: `arn:([a-z\d-]+):.*:.*:.*:.*`

Required: Yes

### AnomalyGroupId

The ID of the anomaly group.

Type: String



Length Constraints: Maximum length of 63.

Pattern: `[a-z0-9]{8}-[a-z0-9]{4}-[a-z0-9]{4}-[a-z0-9]{4}-[a-z0-9]{12}`

Required: Yes

### MaxResults

The maximum number of results to return.

Type: Integer

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

Required: No

### MetricName

The name of the measure field.

Type: String

Length Constraints: Maximum length of 256.

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

Required: Yes

### NextToken

Specify the pagination token that's returned by a previous request to retrieve the next page of results.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 3000.

Pattern: `.*\S.*`

Required: No

## Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

{
  "AnomalyGroupId": "string",
  "MetricName": "string",
  "NextToken": "string",
  "TimeSeriesList": [
    {
      "DimensionList": [
        {
          "DimensionName": "string",
          "DimensionValue": "string"
        }
      ],
      "MetricValueList": [ number ],
      "TimeSeriesId": "string"
    }
  ],
  "TimestampList": [ "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.

### AnomalyGroupId

The ID of the anomaly group.

Type: String

Length Constraints: Maximum length of 63.

Pattern: [a-z0-9]{8}-[a-z0-9]{4}-[a-z0-9]{4}-[a-z0-9]{4}-[a-z0-9]{12}

### MetricName

The name of the measure field.

Type: String

Length Constraints: Maximum length of 256.

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

### NextToken

The pagination token that's included if more results are available.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 3000.

Pattern: `.*\S.*`

### TimeSeriesList

A list of anomalous metrics.

Type: Array of [TimeSeries](#) objects

### TimestampList

Timestamps for the anomalous metrics.

Type: Array of strings

Length Constraints: Maximum length of 60.

Pattern: `^([\d]{3})-(1[0-2]|0[1-9])-(0[1-9]|[\d]{3}|3[01])T([01]\d|2[0-3]):([0-5]\d):([0-5]\d)(Z|(\+|\-)(0\d|1[0-2])):([\d]{5}|(\[[[:alnum:]]\|_\+))?)$`

## Errors

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

### **AccessDeniedException**

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

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

HTTP Status Code: 500

## ResourceNotFoundException

The specified resource cannot be found. Check the ARN of the resource and try again.

HTTP Status Code: 400

## TooManyRequestsException

The request was denied due to too many requests being submitted at the same time.

HTTP Status Code: 429

## ValidationException

The input fails to satisfy the constraints specified by the AWS service. Check your input values and try again.

HTTP Status Code: 400

## See Also

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

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

# ListMetricSets

Lists the datasets in the current AWS Region.

Amazon Lookout for Metrics API actions are eventually consistent. If you do a read operation on a resource immediately after creating or modifying it, use retries to allow time for the write operation to complete.

## Request Syntax

```
POST /ListMetricSets HTTP/1.1
Content-type: application/json

{
  "AnomalyDetectorArn": "string",
  "MaxResults": number,
  "NextToken": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### AnomalyDetectorArn

The ARN of the anomaly detector containing the metrics sets to list.

Type: String

Length Constraints: Maximum length of 256.

Pattern: `arn:( [a-z\d- ]+ ): . * : . * : . * : . +`

Required: No

### MaxResults

The maximum number of results to return.

Type: Integer

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

Required: No

### NextToken

If the result of the previous request was truncated, the response includes a NextToken. To retrieve the next set of results, use the token in the next request. Tokens expire after 24 hours.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 3000.

Pattern: .\*\\S.\*

Required: No

## Response Syntax

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

{
  "MetricSetSummaryList": [
    {
      "AnomalyDetectorArn": "string",
      "CreationTime": number,
      "LastModificationTime": number,
      "MetricSetArn": "string",
      "MetricSetDescription": "string",
      "MetricSetName": "string",
      "Tags": {
        "string" : "string"
      }
    }
  ],
  "NextToken": "string"
}
```

## Response Elements

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

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

### [MetricSetSummaryList](#)

A list of the datasets in the AWS Region, with configuration details for each.

Type: Array of [MetricSetSummary](#) objects

### [NextToken](#)

If the response is truncated, the list call returns this token. To retrieve the next set of results, use the token in the next list request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 3000.

Pattern: `.*\S.*`

## Errors

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

### **AccessDeniedException**

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

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

HTTP Status Code: 500

### **ResourceNotFoundException**

The specified resource cannot be found. Check the ARN of the resource and try again.

HTTP Status Code: 400

### **TooManyRequestsException**

The request was denied due to too many requests being submitted at the same time.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the constraints specified by the AWS service. Check your input values and try again.

HTTP Status Code: 400

## **See Also**

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

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



# ListTagsForResource

Gets a list of [tags](#) for a detector, dataset, or alert.

## Request Syntax

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

## URI Request Parameters

The request uses the following URI parameters.

### [resourceArn](#)

The resource's Amazon Resource Name (ARN).

Length Constraints: Maximum length of 256.

Pattern: `arn:( [a-z\d-]+ ): .* : .* : .* : .+`

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 resource's tags.

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: Maximum length of 256.

## Errors

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

### **InternalServerErrorException**

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

HTTP Status Code: 500

### **ResourceNotFoundException**

The specified resource cannot be found. Check the ARN of the resource and try again.

HTTP Status Code: 400

### **ValidationException**

The input fails to satisfy the constraints specified by the AWS service. Check your input values and try again.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface](#)

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

# PutFeedback

Add feedback for an anomalous metric.

## Request Syntax

```
POST /PutFeedback HTTP/1.1
Content-type: application/json

{
  "AnomalyDetectorArn": "string",
  "AnomalyGroupTimeSeriesFeedback": {
    "AnomalyGroupId": "string",
    "IsAnomaly": boolean,
    "TimeSeriesId": "string"
  }
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### AnomalyDetectorArn

The Amazon Resource Name (ARN) of the anomaly detector.

Type: String

Length Constraints: Maximum length of 256.

Pattern: `arn:([a-z\d-]+):.*:.*:.*:.*`

Required: Yes

### AnomalyGroupTimeSeriesFeedback

Feedback for an anomalous metric.

Type: [AnomalyGroupTimeSeriesFeedback](#) object

Required: Yes

## Response Syntax

```
HTTP/1.1 200
```

## Response Elements

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

## Errors

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

### AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

### InternalServerError

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

HTTP Status Code: 500

### ResourceNotFoundException

The specified resource cannot be found. Check the ARN of the resource and try again.

HTTP Status Code: 400

### TooManyRequestsException

The request was denied due to too many requests being submitted at the same time.

HTTP Status Code: 429

### ValidationException

The input fails to satisfy the constraints specified by the AWS service. Check your input values and try again.

HTTP Status Code: 400

## See Also

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

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

# TagResource

Adds [tags](#) to a detector, dataset, or alert.

## 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 resource's Amazon Resource Name (ARN).

Length Constraints: Maximum length of 256.

Pattern: `arn:([a-z\d-]+):.*:.*:.*:.*`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### [tags](#)

Tags to apply to the resource. Tag keys and values can contain letters, numbers, spaces, and the following symbols: `_ . : / = + @ -`

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: Maximum length of 256.

Required: Yes

## Response Syntax

```
HTTP/1.1 204
```

## Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

## Errors

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

### InternalServerErrorException

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

HTTP Status Code: 500

### ResourceNotFoundException

The specified resource cannot be found. Check the ARN of the resource and try again.

HTTP Status Code: 400

### ValidationException

The input fails to satisfy the constraints specified by the AWS service. Check your input values and try again.

HTTP Status Code: 400

## See Also

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



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

# UntagResource

Removes [tags](#) from a detector, dataset, or alert.

## Request Syntax

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

## URI Request Parameters

The request uses the following URI parameters.

### [resourceArn](#)

The resource's Amazon Resource Name (ARN).

Length Constraints: Maximum length of 256.

Pattern: `arn:([a-z\d-]+):.*:.*:.*:.*`

Required: Yes

### [TagKeys](#)

Keys to remove from the resource's tags.

Array Members: Minimum number of 1 item. 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/1.1 204
```

## Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

## Errors

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

### InternalServerErrorException

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

HTTP Status Code: 500

### ResourceNotFoundException

The specified resource cannot be found. Check the ARN of the resource and try again.

HTTP Status Code: 400

### ValidationException

The input fails to satisfy the constraints specified by the AWS service. Check your input values and try again.

HTTP Status Code: 400

## See Also

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

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

- [AWS SDK for Ruby V3](#)

# UpdateAlert

Make changes to an existing alert.

## Request Syntax

```
POST /UpdateAlert HTTP/1.1
Content-type: application/json

{
  "Action": {
    "LambdaConfiguration": {
      "LambdaArn": "string",
      "RoleArn": "string"
    },
    "SNSConfiguration": {
      "RoleArn": "string",
      "SnsFormat": "string",
      "SnsTopicArn": "string"
    }
  },
  "AlertArn": "string",
  "AlertDescription": "string",
  "AlertFilters": {
    "DimensionFilterList": [
      {
        "DimensionName": "string",
        "DimensionValueList": [ "string" ]
      }
    ],
    "MetricList": [ "string" ]
  },
  "AlertSensitivityThreshold": number
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

## Action

Action that will be triggered when there is an alert.

Type: [Action](#) object

Required: No

## AlertArn

The ARN of the alert to update.

Type: String

Length Constraints: Maximum length of 256.

Pattern: `arn:([a-z\d-]+):.*:.*:.*:.*+`

Required: Yes

## AlertDescription

A description of the alert.

Type: String

Length Constraints: Maximum length of 256.

Pattern: `.*\S.*`

Required: No

## AlertFilters

The configuration of the alert filters, containing MetricList and DimensionFilterList.

Type: [AlertFilters](#) object

Required: No

## AlertSensitivityThreshold

An integer from 0 to 100 specifying the alert sensitivity threshold.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 100.

Required: No

## Response Syntax

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

{
  "AlertArn": "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.

### [AlertArn](#)

The ARN of the updated alert.

Type: String

Length Constraints: Maximum length of 256.

Pattern: `arn:([a-z\d-]+):.*:.*:.*:.*`

## Errors

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

### **AccessDeniedException**

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

### **InternalServerError**

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

HTTP Status Code: 500

## ResourceNotFoundException

The specified resource cannot be found. Check the ARN of the resource and try again.

HTTP Status Code: 400

## TooManyRequestsException

The request was denied due to too many requests being submitted at the same time.

HTTP Status Code: 429

## ValidationException

The input fails to satisfy the constraints specified by the AWS service. Check your input values and try again.

HTTP Status Code: 400

## See Also

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

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



# UpdateAnomalyDetector

Updates a detector. After activation, you can only change a detector's ingestion delay and description.

## Request Syntax

```
POST /UpdateAnomalyDetector HTTP/1.1
Content-type: application/json

{
  "AnomalyDetectorArn": "string",
  "AnomalyDetectorConfig": {
    "AnomalyDetectorFrequency": "string"
  },
  "AnomalyDetectorDescription": "string",
  "KmsKeyArn": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### AnomalyDetectorArn

The ARN of the detector to update.

Type: String

Length Constraints: Maximum length of 256.

Pattern: `arn:( [a-z\d-] + ): . * : . * : . * : . * +`

Required: Yes

### AnomalyDetectorConfig

Contains information about the configuration to which the detector will be updated.

Type: [AnomalyDetectorConfig](#) object

Required: No

### [AnomalyDetectorDescription](#)

The updated detector description.

Type: String

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

Pattern: `.*\S.*`

Required: No

### [KmsKeyArn](#)

The Amazon Resource Name (ARN) of an AWS KMS encryption key.

Type: String

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

Pattern: `arn:aws.*:kms:.*:[0-9]{12}:key/[a-z0-9]{8}-[a-z0-9]{4}-[a-z0-9]{4}-[a-z0-9]{4}-[a-z0-9]{12}`

Required: No

## Response Syntax

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

{
  "AnomalyDetectorArn": "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.

## **AnomalyDetectorArn**

The ARN of the updated detector.

Type: String

Length Constraints: Maximum length of 256.

Pattern: `arn:([a-z\d-]+):.*:.*:.*:.*+`

## **Errors**

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

### **AccessDeniedException**

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

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

HTTP Status Code: 500

### **ResourceNotFoundException**

The specified resource cannot be found. Check the ARN of the resource and try again.

HTTP Status Code: 400

### **TooManyRequestsException**

The request was denied due to too many requests being submitted at the same time.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the constraints specified by the AWS service. Check your input values and try again.

HTTP Status Code: 400

## See Also

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

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

# UpdateMetricSet

Updates a dataset.

## Request Syntax

```
POST /UpdateMetricSet HTTP/1.1
Content-type: application/json
```

```
{
  "DimensionFilterList": [
    {
      "FilterList": [
        {
          "DimensionValue": "string",
          "FilterOperation": "string"
        }
      ],
      "Name": "string"
    }
  ],
  "DimensionList": [ "string" ],
  "MetricList": [
    {
      "AggregationFunction": "string",
      "MetricName": "string",
      "Namespace": "string"
    }
  ],
  "MetricSetArn": "string",
  "MetricSetDescription": "string",
  "MetricSetFrequency": "string",
  "MetricSource": {
    "AppFlowConfig": {
      "FlowName": "string",
      "RoleArn": "string"
    },
    "AthenaSourceConfig": {
      "BackTestConfiguration": {
        "RunBackTestMode": boolean
      },
      "DatabaseName": "string",
      "DataCatalog": "string",
```

```
    "RoleArn": "string",
    "S3ResultsPath": "string",
    "TableName": "string",
    "WorkGroupName": "string"
  },
  "CloudWatchConfig": {
    "BackTestConfiguration": {
      "RunBackTestMode": boolean
    },
    "RoleArn": "string"
  },
  "RDSSourceConfig": {
    "DatabaseHost": "string",
    "DatabaseName": "string",
    "DatabasePort": number,
    "DBInstanceIdentifier": "string",
    "RoleArn": "string",
    "SecretManagerArn": "string",
    "TableName": "string",
    "VpcConfiguration": {
      "SecurityGroupIdList": [ "string" ],
      "SubnetIdList": [ "string" ]
    }
  },
  "RedshiftSourceConfig": {
    "ClusterIdentifier": "string",
    "DatabaseHost": "string",
    "DatabaseName": "string",
    "DatabasePort": number,
    "RoleArn": "string",
    "SecretManagerArn": "string",
    "TableName": "string",
    "VpcConfiguration": {
      "SecurityGroupIdList": [ "string" ],
      "SubnetIdList": [ "string" ]
    }
  },
  "S3SourceConfig": {
    "FileFormatDescriptor": {
      "CsvFormatDescriptor": {
        "Charset": "string",
        "ContainsHeader": boolean,
        "Delimiter": "string",
        "FileCompression": "string",
```

```
    "HeaderList": [ "string" ],
    "QuoteSymbol": "string"
  },
  "JsonFormatDescriptor": {
    "Charset": "string",
    "FileCompression": "string"
  }
},
"HistoricalDataPathList": [ "string" ],
"RoleArn": "string",
"TemplatedPathList": [ "string" ]
}
},
"Offset": number,
"TimestampColumn": {
  "ColumnFormat": "string",
  "ColumnName": "string"
}
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### DimensionFilterList

Describes a list of filters for choosing specific dimensions and specific values. Each filter consists of the dimension and one of its values that you want to include. When multiple dimensions or values are specified, the dimensions are joined with an AND operation and the values are joined with an OR operation.

Type: Array of [MetricSetDimensionFilter](#) objects

Required: No

### DimensionList

The dimension list.

Type: Array of strings

Array Members: Minimum number of 1 item.

Length Constraints: Minimum length of 1. Maximum length of 63.

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

Required: No

### MetricList

The metric list.

Type: Array of [Metric](#) objects

Array Members: Minimum number of 1 item.

Required: No

### MetricSetArn

The ARN of the dataset to update.

Type: String

Length Constraints: Maximum length of 256.

Pattern: `arn:([a-z\d-]+):.*:.*:.*:.*+`

Required: Yes

### MetricSetDescription

The dataset's description.

Type: String

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

Pattern: `.*\S.*`

Required: No

### MetricSetFrequency

The dataset's interval.

Type: String



Valid Values: P1D | PT1H | PT10M | PT5M

Required: No

### MetricSource

Contains information about source data used to generate metrics.

Type: [MetricSource](#) object

Required: No

### Offset

After an interval ends, the amount of seconds that the detector waits before importing data. Offset is only supported for S3, Redshift, Athena and datasources.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 432000.

Required: No

### TimestampColumn

The timestamp column.

Type: [TimestampColumn](#) object

Required: No

## Response Syntax

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

{
  "MetricSetArn": "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.

### MetricSetArn

The ARN of the dataset.

Type: String

Length Constraints: Maximum length of 256.

Pattern: `arn:([a-z\d-]+):.*:.*:.*:.*`

## Errors

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

### **AccessDeniedException**

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

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

HTTP Status Code: 500

### **ResourceNotFoundException**

The specified resource cannot be found. Check the ARN of the resource and try again.

HTTP Status Code: 400

### **ServiceQuotaExceededException**

The request exceeded the service's quotas. Check the service quotas and try again.

HTTP Status Code: 402

### **TooManyRequestsException**

The request was denied due to too many requests being submitted at the same time.

HTTP Status Code: 429

## ValidationException

The input fails to satisfy the constraints specified by the AWS service. Check your input values and try again.

HTTP Status Code: 400

## See Also

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

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

# Data Types

The Amazon Lookout for Metrics 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:

- [Action](#)
- [Alert](#)
- [AlertFilters](#)
- [AlertSummary](#)
- [AnomalyDetectorConfig](#)
- [AnomalyDetectorConfigSummary](#)
- [AnomalyDetectorDataQualityMetric](#)
- [AnomalyDetectorSummary](#)
- [AnomalyGroup](#)
- [AnomalyGroupStatistics](#)
- [AnomalyGroupSummary](#)
- [AnomalyGroupTimeSeries](#)
- [AnomalyGroupTimeSeriesFeedback](#)
- [AppFlowConfig](#)
- [AthenaSourceConfig](#)
- [AttributeValue](#)
- [AutoDetectionMetricSource](#)
- [AutoDetectionS3SourceConfig](#)
- [BackTestConfiguration](#)
- [CloudWatchConfig](#)

- [ContributionMatrix](#)
- [CsvFormatDescriptor](#)
- [DataQualityMetric](#)
- [DetectedCsvFormatDescriptor](#)
- [DetectedField](#)
- [DetectedFileFormatDescriptor](#)
- [DetectedJsonFormatDescriptor](#)
- [DetectedMetricSetConfig](#)
- [DetectedMetricSource](#)
- [DetectedS3SourceConfig](#)
- [DimensionContribution](#)
- [DimensionFilter](#)
- [DimensionNameValue](#)
- [DimensionValueContribution](#)
- [ExecutionStatus](#)
- [FileFormatDescriptor](#)
- [Filter](#)
- [InterMetricImpactDetails](#)
- [ItemizedMetricStats](#)
- [JsonFormatDescriptor](#)
- [LambdaConfiguration](#)
- [Metric](#)
- [MetricLevelImpact](#)
- [MetricSetDataQualityMetric](#)
- [MetricSetDimensionFilter](#)
- [MetricSetSummary](#)
- [MetricSource](#)
- [RDSSourceConfig](#)
- [RedshiftSourceConfig](#)
- [S3SourceConfig](#)

- [SampleDataS3SourceConfig](#)
- [SNSConfiguration](#)
- [TimeSeries](#)
- [TimeSeriesFeedback](#)
- [TimestampColumn](#)
- [ValidationExceptionField](#)
- [VpcConfiguration](#)

# Action

A configuration that specifies the action to perform when anomalies are detected.

## Contents

### LambdaConfiguration

A configuration for an AWS Lambda channel.

Type: [LambdaConfiguration](#) object

Required: No

### SNSConfiguration

A configuration for an Amazon SNS channel.

Type: [SNSConfiguration](#) 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](#)

# Alert

A configuration for Amazon SNS-integrated notifications.

## Contents

### Action

Action that will be triggered when there is an alert.

Type: [Action](#) object

Required: No

### AlertArn

The ARN of the alert.

Type: String

Length Constraints: Maximum length of 256.

Pattern: `arn:([a-z\d-]+):.*:.*:.*:.*`

Required: No

### AlertDescription

A description of the alert.

Type: String

Length Constraints: Maximum length of 256.

Pattern: `.*\S.*`

Required: No

### AlertFilters

The configuration of the alert filters, containing MetricList and DimensionFilter.

Type: [AlertFilters](#) object

Required: No



## AlertName

The name of the alert.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

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

Required: No

## AlertSensitivityThreshold

The minimum severity for an anomaly to trigger the alert.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 100.

Required: No

## AlertStatus

The status of the alert.

Type: String

Valid Values: ACTIVE | INACTIVE

Required: No

## AlertType

The type of the alert.

Type: String

Valid Values: SNS | LAMBDA

Required: No

## AnomalyDetectorArn

The ARN of the detector to which the alert is attached.

Type: String

Length Constraints: Maximum length of 256.

Pattern: `arn:([a-z\d-]+):.*:.*:.*:.*`

Required: No

### **CreationTime**

The time at which the alert was created.

Type: Timestamp

Required: No

### **LastModificationTime**

The time at which the alert was last modified.

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](#)

# AlertFilters

The configuration of the alert filters.

## Contents

### DimensionFilterList

The list of DimensionFilter objects that are used for dimension-based filtering.

Type: Array of [DimensionFilter](#) objects

Array Members: Minimum number of 1 item. Maximum number of 5 items.

Required: No

### MetricList

The list of measures that you want to get alerts for.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 5 items.

Length Constraints: Maximum length of 256.

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

# AlertSummary

Provides a summary of an alert's configuration.

## Contents

### AlertArn

The ARN of the alert.

Type: String

Length Constraints: Maximum length of 256.

Pattern: `arn:( [a-z\d-]+ ): . * : . * : . * : . +`

Required: No

### AlertName

The name of the alert.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

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

Required: No

### AlertSensitivityThreshold

The minimum severity for an anomaly to trigger the alert.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 100.

Required: No

### AlertStatus

The status of the alert.

Type: String

Valid Values: ACTIVE | INACTIVE

Required: No

### **AlertType**

The type of the alert.

Type: String

Valid Values: SNS | LAMBDA

Required: No

### **AnomalyDetectorArn**

The ARN of the detector to which the alert is attached.

Type: String

Length Constraints: Maximum length of 256.

Pattern: `arn:([a-z\d-]+):.*:.*:.*:.*`

Required: No

### **CreationTime**

The time at which the alert was created.

Type: Timestamp

Required: No

### **LastModificationTime**

The time at which the alert was last modified.

Type: Timestamp

Required: No

### **Tags**

The alert's [tags](#).

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: 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](#)

# AnomalyDetectorConfig

Contains information about a detector's configuration.

## Contents

### AnomalyDetectorFrequency

The frequency at which the detector analyzes its source data.

Type: String

Valid Values: P1D | PT1H | PT10M | PT5M

Required: No

## See Also

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

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

# AnomalyDetectorConfigSummary

Contains information about a detector's configuration.

## Contents

### AnomalyDetectorFrequency

The interval at which the detector analyzes its source data.

Type: String

Valid Values: P1D | PT1H | PT10M | PT5M

Required: No

## See Also

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

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



# AnomalyDetectorDataQualityMetric

Aggregated details about the data quality metrics collected for the `AnomalyDetectorArn` provided in the [GetDataQualityMetrics](#) object.

## Contents

### MetricSetDataQualityMetricList

An array of `DataQualityMetricList` objects. Each object in the array contains information about a data quality metric.

Type: Array of [MetricSetDataQualityMetric](#) objects

Required: No

### StartTimestamp

The start time for the data quality metrics collection.

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](#)

# AnomalyDetectorSummary

Contains information about an an anomaly detector.

## Contents

### AnomalyDetectorArn

The ARN of the detector.

Type: String

Length Constraints: Maximum length of 256.

Pattern: `arn:([a-z\d-]+):.*:.*:.*:.*+`

Required: No

### AnomalyDetectorDescription

A description of the detector.

Type: String

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

Pattern: `.*\S.*`

Required: No

### AnomalyDetectorName

The name of the detector.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

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

Required: No

### CreationTime

The time at which the detector was created.

Type: Timestamp

Required: No

### **LastModificationTime**

The time at which the detector was last modified.

Type: Timestamp

Required: No

### **Status**

The status of detector.

Type: String

Valid Values: ACTIVE | ACTIVATING | DELETING | FAILED | INACTIVE | LEARNING  
| BACK\_TEST\_ACTIVATING | BACK\_TEST\_ACTIVE | BACK\_TEST\_COMPLETE |  
DEACTIVATED | DEACTIVATING

Required: No

### **Tags**

The detector's [tags](#).

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: 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](#)

# AnomalyGroup

A group of anomalous metrics

## Contents

### AnomalyGroupId

The ID of the anomaly group.

Type: String

Length Constraints: Maximum length of 63.

Pattern: `[a-z0-9]{8}-[a-z0-9]{4}-[a-z0-9]{4}-[a-z0-9]{4}-[a-z0-9]{12}`

Required: No

### AnomalyGroupScore

The severity score of the group.

Type: Double

Valid Range: Minimum value of 0.0. Maximum value of 100.0.

Required: No

### EndTime

The end time for the group.

Type: String

Length Constraints: Maximum length of 60.

Pattern: `^([12]\d{3})-(1[0-2]|0[1-9])-(0[1-9]|[12]\d|3[01])T([01]\d|2[0-3]):([0-5]\d):([0-5]\d)(Z|(\+|\-)(0\d|1[0-2])):([0-5]\d)(\[[[:alnum:]\_\-]+\])?)$`

Required: No

### MetricLevelImpactList

A list of measures affected by the anomaly.

Type: Array of [MetricLevelImpact](#) objects

Required: No

### PrimaryMetricName

The name of the primary affected measure for the group.

Type: String

Length Constraints: Maximum length of 256.

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

Required: No

### StartTime

The start time for the group.

Type: String

Length Constraints: Maximum length of 60.

Pattern: `^([12]\d{3})-(1[0-2]|0[1-9])-(0[1-9]|[12]\d|3[01])T([01]\d|2[0-3]):([0-5]\d):([0-5]\d)(Z|(\+|\-)(0\d|1[0-2])):([0-5]\d)(\[[[:alnum:]\_\-]+\])? )$`

Required: No

## See Also

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

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

# AnomalyGroupStatistics

Aggregated statistics for a group of anomalous metrics.

## Contents

### EvaluationStartDate

The start of the time range that was searched.

Type: String

Length Constraints: Maximum length of 60.

Pattern: `^([12]\d{3})-(1[0-2]|0[1-9])-(0[1-9]|[12]\d|3[01])T([01]\d|2[0-3]):([0-5]\d):([0-5]\d)(Z|(\+|\-)(0\d|1[0-2])):([0-5]\d)(\[[[:alnum:]]\/_]+\])?)$`

Required: No

### ItemizedMetricStatsList

Statistics for individual metrics within the group.

Type: Array of [ItemizedMetricStats](#) objects

Required: No

### TotalCount

The number of groups found.

Type: Integer

Required: No

## See Also

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

- [AWS SDK for C++](#)

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



# AnomalyGroupSummary

Details about a group of anomalous metrics.

## Contents

### AnomalyGroupId

The ID of the anomaly group.

Type: String

Length Constraints: Maximum length of 63.

Pattern: `[a-z0-9]{8}-[a-z0-9]{4}-[a-z0-9]{4}-[a-z0-9]{4}-[a-z0-9]{12}`

Required: No

### AnomalyGroupScore

The severity score of the group.

Type: Double

Valid Range: Minimum value of 0.0. Maximum value of 100.0.

Required: No

### EndTime

The end time for the group.

Type: String

Length Constraints: Maximum length of 60.

Pattern: `^([12]\d{3})-(1[0-2]|0[1-9])-(0[1-9]|[12]\d|3[01])T([01]\d|2[0-3]):([0-5]\d):([0-5]\d)(Z|(\+|\-)(0\d|1[0-2])):([0-5]\d)(\[[[:alnum:]\_\+]\])?)$`

Required: No

### PrimaryMetricName

The name of the primary affected measure for the group.

Type: String

Length Constraints: Maximum length of 256.

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

Required: No

## StartTime

The start time for the group.

Type: String

Length Constraints: Maximum length of 60.

Pattern: `^([\d]{3})-(1[0-2]|0[1-9])-(0[1-9]|12[\d|3][01])T([01]\d|2[0-3]):([0-5]\d):([0-5]\d)(Z|(\+|\-)(0\d|1[0-2]):([0-5]\d)(\[[[:alnum:]\_\-]+\]))?)$`

Required: No

## See Also

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

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

# AnomalyGroupTimeSeries

An anomalous metric in an anomaly group.

## Contents

### AnomalyGroupId

The ID of the anomaly group.

Type: String

Length Constraints: Maximum length of 63.

Pattern: `[a-z0-9]{8}-[a-z0-9]{4}-[a-z0-9]{4}-[a-z0-9]{4}-[a-z0-9]{12}`

Required: Yes

### TimeSeriesId

The ID of the metric.

Type: String

Length Constraints: Maximum length of 520.

Pattern: `.*\S.*`

Required: No

## See Also

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

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

# AnomalyGroupTimeSeriesFeedback

Feedback for an anomalous metric.

## Contents

### AnomalyGroupId

The ID of the anomaly group.

Type: String

Length Constraints: Maximum length of 63.

Pattern: `[a-z0-9]{8}-[a-z0-9]{4}-[a-z0-9]{4}-[a-z0-9]{4}-[a-z0-9]{12}`

Required: Yes

### IsAnomaly

Feedback on whether the metric is a legitimate anomaly.

Type: Boolean

Required: Yes

### TimeSeriesId

The ID of the metric.

Type: String

Length Constraints: Maximum length of 520.

Pattern: `.*\S.*`

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](#)

# AppFlowConfig

Details about an Amazon AppFlow flow datasource.

## Contents

### FlowName

name of the flow.

Type: String

Length Constraints: Maximum length of 256.

Pattern: `[a-zA-Z0-9][\w!@#.-]+`

Required: No

### RoleArn

An IAM role that gives Amazon Lookout for Metrics permission to access the flow.

Type: String

Length Constraints: Maximum length of 256.

Pattern: `arn:([a-z\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](#)

# AthenaSourceConfig

Details about an Amazon Athena datasource.

## Contents

### BackTestConfiguration

Settings for backtest mode.

Type: [BackTestConfiguration](#) object

Required: No

### DatabaseName

The database's name.

Type: String

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

Pattern: [a-zA-Z0-9\_]+

Required: No

### DataCatalog

The database's data catalog.

Type: String

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

Pattern: [\u0020-\uD7FF\uE000-\uFFFF\uD800\uDC00-\uDBFF\uDFFF\t]\*

Required: No

### RoleArn

An IAM role that gives Amazon Lookout for Metrics permission to access the data.

Type: String

Length Constraints: Maximum length of 256.

Pattern: `arn:([a-z\d-]+):.*:.*:.*:.*+`

Required: No

### **S3ResultsPath**

The database's results path.

Type: String

Length Constraints: Maximum length of 1024.

Pattern: `^s3://[a-z0-9].+$`

Required: No

### **TableName**

The database's table name.

Type: String

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

Pattern: `[a-zA-Z0-9_]+`

Required: No

### **WorkGroupName**

The database's work group name.

Type: String

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

Pattern: `[a-zA-Z0-9._-]{1,128}`

Required: No

## **See Also**

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



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

# AttributeValue

An attribute value.

## Contents

### B

A binary value.

Type: String

Required: No

### BS

A list of binary values.

Type: Array of strings

Required: No

### N

A number.

Type: String

Required: No

### NS

A list of numbers.

Type: Array of strings

Required: No

### S

A string.

Type: String

Required: No

## SS

A list of strings.

Type: Array of strings

Required: No

## See Also

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

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

# AutoDetectionMetricSource

An auto detection metric source.

## Contents

### S3SourceConfig

The source's source config.

Type: [AutoDetectionS3SourceConfig](#) 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](#)

# AutoDetectionS3SourceConfig

An auto detection source config.

## Contents

### HistoricalDataPathList

The config's historical data path list.

Type: Array of strings

Array Members: Fixed number of 1 item.

Length Constraints: Maximum length of 1024.

Pattern: `^s3://[a-z0-9].+$`

Required: No

### TemplatedPathList

The config's templated path list.

Type: Array of strings

Array Members: Fixed number of 1 item.

Length Constraints: Maximum length of 1024.

Pattern: `^s3://[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](#)



# BackTestConfiguration

Settings for backtest mode.

## Contents

### RunBackTestMode

Run a backtest instead of monitoring new data.

Type: Boolean

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](#)

# CloudWatchConfig

Details about an Amazon CloudWatch datasource.

## Contents

### BackTestConfiguration

Settings for backtest mode.

Type: [BackTestConfiguration](#) object

Required: No

### RoleArn

An IAM role that gives Amazon Lookout for Metrics permission to access data in Amazon CloudWatch.

Type: String

Length Constraints: Maximum length of 256.

Pattern: `arn:([a-z\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](#)



# ContributionMatrix

Details about dimensions that contributed to an anomaly.

## Contents

### DimensionContributionList

A list of contributing dimensions.

Type: Array of [DimensionContribution](#) 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](#)

# CsvFormatDescriptor

Contains information about how a source CSV data file should be analyzed.

## Contents

### Charset

The character set in which the source CSV file is written.

Type: String

Length Constraints: Maximum length of 63.

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

Required: No

### ContainsHeader

Whether or not the source CSV file contains a header.

Type: Boolean

Required: No

### Delimiter

The character used to delimit the source CSV file.

Type: String

Length Constraints: Maximum length of 1.

Pattern: `[^\x\n]`

Required: No

### FileCompression

The level of compression of the source CSV file.

Type: String

Valid Values: NONE | GZIP

Required: No

## HeaderList

A list of the source CSV file's headers, if any.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 63.

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

Required: No

## QuoteSymbol

The character used as a quote character.

Type: String

Length Constraints: Maximum length of 1.

Pattern: `[\x00-\x09]|^\$`

Required: No

## See Also

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

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

# DataQualityMetric

An array that describes a data quality metric. Each `DataQualityMetric` object contains the data quality metric name, its value, a description of the metric, and the affected column.

## Contents

### MetricDescription

A description of the data quality metric.

Type: String

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

Pattern: `.*\S.*`

Required: No

### MetricType

The name of the data quality metric.

Type: String

Valid Values: `COLUMN_COMPLETENESS` | `DIMENSION_UNIQUENESS` | `TIME_SERIES_COUNT` | `ROWS_PROCESSED` | `ROWS_PARTIAL_COMPLIANCE` | `INVALID_ROWS_COMPLIANCE` | `BACKTEST_TRAINING_DATA_START_TIME_STAMP` | `BACKTEST_TRAINING_DATA_END_TIME_STAMP` | `BACKTEST_INFERENCE_DATA_START_TIME_STAMP` | `BACKTEST_INFERENCE_DATA_END_TIME_STAMP`

Required: No

### MetricValue

The value of the data quality metric.

Type: Double

Required: No

### RelatedColumnName

The column that is being monitored.

Type: String

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

Pattern: .\*\\S.\*

Required: No

## See Also

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

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

# DetectedCsvFormatDescriptor

Properties of an inferred CSV format.

## Contents

### Charset

The format's charset.

Type: [DetectedField](#) object

Required: No

### ContainsHeader

Whether the format includes a header.

Type: [DetectedField](#) object

Required: No

### Delimiter

The format's delimiter.

Type: [DetectedField](#) object

Required: No

### FileCompression

The format's file compression.

Type: [DetectedField](#) object

Required: No

### HeaderList

The format's header list.

Type: [DetectedField](#) object

Required: No

## QuoteSymbol

The format's quote symbol.

Type: [DetectedField](#) 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](#)

# DetectedField

An inferred field.

## Contents

### Confidence

The field's confidence.

Type: String

Valid Values: HIGH | LOW | NONE

Required: No

### Message

The field's message.

Type: String

Required: No

### Value

The field's value.

Type: [AttributeValue](#) 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](#)



# DetectedFileFormatDescriptor

Properties of an inferred data format.

## Contents

### CsvFormatDescriptor

Details about a CSV format.

Type: [DetectedCsvFormatDescriptor](#) object

Required: No

### JsonFormatDescriptor

Details about a JSON format.

Type: [DetectedJsonFormatDescriptor](#) 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](#)

# DetectedJsonFormatDescriptor

A detected JSON format descriptor.

## Contents

### Charset

The format's character set.

Type: [DetectedField](#) object

Required: No

### FileCompression

The format's file compression.

Type: [DetectedField](#) 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](#)

# DetectedMetricSetConfig

An inferred dataset configuration.

## Contents

### MetricSetFrequency

The dataset's interval.

Type: [DetectedField](#) object

Required: No

### MetricSource

The dataset's data source.

Type: [DetectedMetricSource](#) object

Required: No

### Offset

The dataset's offset.

Type: [DetectedField](#) 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](#)

# DetectedMetricSource

An inferred data source.

## Contents

### S3SourceConfig

The data source's source configuration.

Type: [DetectedS3SourceConfig](#) 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](#)

# DetectedS3SourceConfig

An inferred source configuration.

## Contents

### FileFormatDescriptor

The source's file format descriptor.

Type: [DetectedFileFormatDescriptor](#) 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](#)

# DimensionContribution

Details about a dimension that contributed to an anomaly.

## Contents

### DimensionName

The name of the dimension.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

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

Required: No

### DimensionValueContributionList

A list of dimension values that contributed to the anomaly.

Type: Array of [DimensionValueContribution](#) 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](#)

# DimensionFilter

The dimension filter, containing DimensionName and DimensionValueList.

## Contents

### DimensionName

The name of the dimension to filter on.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

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

Required: No

### DimensionValueList

The list of values for the dimension specified in DimensionName that you want to filter on.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 10 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](#)

# DimensionNameValue

A dimension name and value.

## Contents

### DimensionName

The name of the dimension.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

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

Required: Yes

### DimensionValue

The value of the dimension.

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](#)



# DimensionValueContribution

The severity of a value of a dimension that contributed to an anomaly.

## Contents

### ContributionScore

The severity score of the value.

Type: Double

Valid Range: Minimum value of 0.0. Maximum value of 100.0.

Required: No

### DimensionValue

The value of the dimension.

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](#)

# ExecutionStatus

The status of an anomaly detector run.

## Contents

### FailureReason

The reason that the run failed, if applicable.

Type: String

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

Pattern: `.*\S.*`

Required: No

### Status

The run's status.

Type: String

Valid Values: PENDING | IN\_PROGRESS | COMPLETED | FAILED | FAILED\_TO\_SCHEDULE

Required: No

### Timestamp

The run's timestamp.

Type: String

Length Constraints: Maximum length of 60.

Pattern: `^([12]\d{3})-(1[0-2]|0[1-9])-(0[1-9]|[12]\d|3[01])T([01]\d|2[0-3]):([0-5]\d):([0-5]\d)(Z|(\+|\-)(0\d|1[0-2])):([0-5]\d)(\[[[:alnum:]]\/_]+\])?)$`

Required: No

## See Also

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

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

# FileFormatDescriptor

Contains information about a source file's formatting.

## Contents

### CsvFormatDescriptor

Contains information about how a source CSV data file should be analyzed.

Type: [CsvFormatDescriptor](#) object

Required: No

### JsonFormatDescriptor

Contains information about how a source JSON data file should be analyzed.

Type: [JsonFormatDescriptor](#) 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](#)

# Filter

Describes a filter for choosing a subset of dimension values. Each filter consists of the dimension that you want to include and the condition statement. The condition statement is specified in the `FilterOperation` object.

## Contents

### DimensionValue

The value that you want to include in the filter.

Type: String

Required: No

### FilterOperation

The condition to apply.

Type: String

Valid Values: EQUALS

Required: No

## See Also

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

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

# InterMetricImpactDetails

Aggregated details about the measures contributing to the anomaly group, and the measures potentially impacted by the anomaly group.

## Contents

### AnomalyGroupId

The ID of the anomaly group.

Type: String

Length Constraints: Maximum length of 63.

Pattern: `[a-z0-9]{8}-[a-z0-9]{4}-[a-z0-9]{4}-[a-z0-9]{4}-[a-z0-9]{12}`

Required: No

### ContributionPercentage

For potential causes (CAUSE\_OF\_INPUT\_ANOMALY\_GROUP), the percentage contribution the measure has in causing the anomalies.

Type: Double

Valid Range: Minimum value of 0.0. Maximum value of 100.0.

Required: No

### MetricName

The name of the measure.

Type: String

Length Constraints: Maximum length of 256.

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

Required: No

## RelationshipType

Whether a measure is a potential cause of the anomaly group (CAUSE\_OF\_INPUT\_ANOMALY\_GROUP), or whether the measure is impacted by the anomaly group (EFFECT\_OF\_INPUT\_ANOMALY\_GROUP).

Type: String

Valid Values: CAUSE\_OF\_INPUT\_ANOMALY\_GROUP | EFFECT\_OF\_INPUT\_ANOMALY\_GROUP

Required: No

## See Also

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

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

# ItemizedMetricStats

Aggregated statistics about a measure affected by an anomaly.

## Contents

### MetricName

The name of the measure.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

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

Required: No

### OccurrenceCount

The number of times that the measure appears.

Type: Integer

Required: No

## See Also

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

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



# JsonFormatDescriptor

Contains information about how a source JSON data file should be analyzed.

## Contents

### Charset

The character set in which the source JSON file is written.

Type: String

Length Constraints: Maximum length of 63.

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

Required: No

### FileCompression

The level of compression of the source CSV file.

Type: String

Valid Values: NONE | GZIP

Required: No

## See Also

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

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

# LambdaConfiguration

Contains information about a Lambda configuration.

## Contents

### LambdaArn

The ARN of the Lambda function.

Type: String

Length Constraints: Maximum length of 256.

Pattern: `arn:([a-z\d-]+):.*:.*:.*:.*`

Required: Yes

### RoleArn

The ARN of an IAM role that has permission to invoke the Lambda function.

Type: String

Length Constraints: Maximum length of 256.

Pattern: `arn:([a-z\d-]+):.*:.*:.*:.*`

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](#)

# Metric

A calculation made by contrasting a measure and a dimension from your source data.

## Contents

### AggregationFunction

The function with which the metric is calculated.

Type: String

Valid Values: AVG | SUM

Required: Yes

### MetricName

The name of the metric.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

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

Required: Yes

### Namespace

The namespace for the metric.

Type: String

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

Pattern: `[\^:]\.*`

Required: No

## See Also

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

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

# MetricLevelImpact

Details about a measure affected by an anomaly.

## Contents

### ContributionMatrix

Details about the dimensions that contributed to the anomaly.

Type: [ContributionMatrix](#) object

Required: No

### MetricName

The name of the measure.

Type: String

Length Constraints: Maximum length of 256.

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

Required: No

### NumTimeSeries

The number of anomalous metrics for the measure.

Type: Integer

Required: No

## See Also

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

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



# MetricSetDataQualityMetric

An array of `DataQualityMetric` objects that describes one or more data quality metrics.

## Contents

### DataQualityMetricList

The array of data quality metrics contained in the data quality metric set.

Type: Array of [DataQualityMetric](#) objects

Required: No

### MetricSetArn

The Amazon Resource Name (ARN) of the data quality metric array.

Type: String

Length Constraints: Maximum length of 256.

Pattern: `arn:([a-z\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](#)

# MetricSetDimensionFilter

Describes a list of filters for choosing a subset of dimension values. Each filter consists of the dimension and one of its values that you want to include. When multiple dimensions or values are specified, the dimensions are joined with an AND operation and the values are joined with an OR operation.

## Contents

### FilterList

The list of filters that you are applying.

Type: Array of [Filter](#) objects

Array Members: Minimum number of 1 item.

Required: No

### Name

The dimension that you want to filter on.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

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



# MetricSetSummary

Contains information about a dataset.

## Contents

### AnomalyDetectorArn

The ARN of the detector to which the dataset belongs.

Type: String

Length Constraints: Maximum length of 256.

Pattern: `arn:([a-z\d-]+):.*:.*:.*:.*+`

Required: No

### CreationTime

The time at which the dataset was created.

Type: Timestamp

Required: No

### LastModificationTime

The time at which the dataset was last modified.

Type: Timestamp

Required: No

### MetricSetArn

The ARN of the dataset.

Type: String

Length Constraints: Maximum length of 256.

Pattern: `arn:([a-z\d-]+):.*:.*:.*:.*+`

Required: No

## MetricSetDescription

The description of the dataset.

Type: String

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

Pattern: .\*\\S.\*

Required: No

## MetricSetName

The name of the dataset.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

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

Required: No

## Tags

The dataset's [tags](#).

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: 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](#)

# MetricSource

Contains information about source data used to generate metrics.

## Contents

### AppFlowConfig

Details about an AppFlow datasource.

Type: [AppFlowConfig](#) object

Required: No

### AthenaSourceConfig

Details about an Amazon Athena datasource.

Type: [AthenaSourceConfig](#) object

Required: No

### CloudWatchConfig

Details about an Amazon CloudWatch monitoring datasource.

Type: [CloudWatchConfig](#) object

Required: No

### RDSSourceConfig

Details about an Amazon Relational Database Service (RDS) datasource.

Type: [RDSSourceConfig](#) object

Required: No

### RedshiftSourceConfig

Details about an Amazon Redshift database datasource.

Type: [RedshiftSourceConfig](#) object

Required: No

## S3SourceConfig

Contains information about the configuration of the S3 bucket that contains source files.

Type: [S3SourceConfig](#) 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](#)

# RDSSourceConfig

Contains information about the Amazon Relational Database Service (RDS) configuration.

## Contents

### DatabaseHost

The host name of the database.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 253.

Pattern: `.*\S.*`

Required: No

### DatabaseName

The name of the RDS database.

Type: String

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

Pattern: `[a-zA-Z0-9_.]+`

Required: No

### DatabasePort

The port number where the database can be accessed.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 65535.

Required: No

### DBInstanceIdentifier

A string identifying the database instance.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `^[a-zA-Z](?!.*--)(?!.*-$)[0-9a-zA-Z\-*]*$`

Required: No

### **RoleArn**

The Amazon Resource Name (ARN) of the role.

Type: String

Length Constraints: Maximum length of 256.

Pattern: `arn:([a-z\d-]+):.*:.*:.*:.*`

Required: No

### **SecretManagerArn**

The Amazon Resource Name (ARN) of the AWS Secrets Manager role.

Type: String

Length Constraints: Maximum length of 256.

Pattern: `arn:([a-z\d-]+):.*:.*:secret:AmazonLookoutMetrics-.+`

Required: No

### **TableName**

The name of the table in the database.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `^[a-zA-Z][a-zA-Z0-9_.*]*$`

Required: No

### **VpcConfiguration**

An object containing information about the Amazon Virtual Private Cloud (VPC) configuration.

Type: [VpcConfiguration](#) 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](#)



# RedshiftSourceConfig

Provides information about the Amazon Redshift database configuration.

## Contents

### ClusterIdentifier

A string identifying the Redshift cluster.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `^[a-z](?!.*--)(?!.*-$)[0-9a-z\-*_]*$`

Required: No

### DatabaseHost

The name of the database host.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 253.

Pattern: `.*\S.*`

Required: No

### DatabaseName

The Redshift database name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

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

Required: No

### DatabasePort

The port number where the database can be accessed.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 65535.

Required: No

### **RoleArn**

The Amazon Resource Name (ARN) of the role providing access to the database.

Type: String

Length Constraints: Maximum length of 256.

Pattern: `arn:([a-z\d-]+):.*:.*:.*:.*`

Required: No

### **SecretManagerArn**

The Amazon Resource Name (ARN) of the AWS Secrets Manager role.

Type: String

Length Constraints: Maximum length of 256.

Pattern: `arn:([a-z\d-]+):.*:.*:secret:AmazonLookoutMetrics-.*`

Required: No

### **TableName**

The table name of the Redshift database.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `^[a-zA-Z][a-zA-Z0-9_.*]*$`

Required: No

### **VpcConfiguration**

Contains information about the Amazon Virtual Private Cloud (VPC) configuration.

Type: [VpcConfiguration](#) 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](#)

# S3SourceConfig

Contains information about the configuration of the S3 bucket that contains source files.

## Contents

### FileFormatDescriptor

Contains information about a source file's formatting.

Type: [FileFormatDescriptor](#) object

Required: No

### HistoricalDataPathList

A list of paths to the historical data files.

Type: Array of strings

Array Members: Fixed number of 1 item.

Length Constraints: Maximum length of 1024.

Pattern: `^s3://[a-z0-9].+$`

Required: No

### RoleArn

The ARN of an IAM role that has read and write access permissions to the source S3 bucket.

Type: String

Length Constraints: Maximum length of 256.

Pattern: `arn:([a-z\d-]+):.*:.*:.*:.*`

Required: No

### TemplatedPathList

A list of templated paths to the source files.

Type: Array of strings

Array Members: Fixed number of 1 item.

Length Constraints: Maximum length of 1024.

Pattern: `^s3://[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](#)

# SampleDataS3SourceConfig

Contains information about the source configuration in Amazon S3.

## Contents

### FileFormatDescriptor

Contains information about a source file's formatting.

Type: [FileFormatDescriptor](#) object

Required: Yes

### RoleArn

The Amazon Resource Name (ARN) of the role.

Type: String

Length Constraints: Maximum length of 256.

Pattern: `arn:([a-z\d-]+):.*:.*:.*:.*`

Required: Yes

### HistoricalDataPathList

An array of strings containing the historical set of data paths.

Type: Array of strings

Array Members: Fixed number of 1 item.

Length Constraints: Maximum length of 1024.

Pattern: `^s3://[a-z0-9].+$`

Required: No

### TemplatedPathList

An array of strings containing the list of templated paths.

Type: Array of strings

Array Members: Fixed number of 1 item.

Length Constraints: Maximum length of 1024.

Pattern: `^s3://[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](#)

# SNSConfiguration

Contains information about the SNS topic to which you want to send your alerts and the IAM role that has access to that topic.

## Contents

### RoleArn

The ARN of the IAM role that has access to the target SNS topic.

Type: String

Length Constraints: Maximum length of 256.

Pattern: `arn:([a-z\d-]+):.*:.*:.*:.*+`

Required: Yes

### SnsTopicArn

The ARN of the target SNS topic.

Type: String

Length Constraints: Maximum length of 256.

Pattern: `arn:([a-z\d-]+):.*:.*:.*:.*+`

Required: Yes

### SnsFormat

The format of the SNS topic.

- JSON – Send JSON alerts with an anomaly ID and a link to the anomaly detail page. This is the default.
- LONG\_TEXT – Send human-readable alerts with information about the impacted timeseries and a link to the anomaly detail page. We recommend this for email.
- SHORT\_TEXT – Send human-readable alerts with a link to the anomaly detail page. We recommend this for SMS.

Type: String



Valid Values: LONG\_TEXT | SHORT\_TEXT | JSON

Required: No

## See Also

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

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

# TimeSeries

Details about a metric. A metric is an aggregation of the values of a measure for a dimension value, such as *availability* in the *us-east-1* Region.

## Contents

### DimensionList

The dimensions of the metric.

Type: Array of [DimensionNameValue](#) objects

Required: Yes

### MetricValueList

The values for the metric.

Type: Array of doubles

Required: Yes

### TimeSeriesId

The ID of the metric.

Type: String

Length Constraints: Maximum length of 520.

Pattern: `.*\S.*`

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](#)

# TimeSeriesFeedback

Details about feedback submitted for an anomalous metric.

## Contents

### IsAnomaly

Feedback on whether the metric is a legitimate anomaly.

Type: Boolean

Required: No

### TimeSeriesId

The ID of the metric.

Type: String

Length Constraints: Maximum length of 520.

Pattern: `.*\S.*`

Required: No

## See Also

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

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

# TimestampColumn

Contains information about the column used to track time in a source data file.

## Contents

### ColumnFormat

The format of the timestamp column.

Type: String

Length Constraints: Maximum length of 63.

Pattern: `.*\S.*`

Required: No

### ColumnName

The name of the timestamp column.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

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

# ValidationExceptionField

Contains information about a a field in a validation exception.

## Contents

### Message

The message with more information about the validation exception.

Type: String

Required: Yes

### Name

The name of the field.

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](#)

# VpcConfiguration

Contains configuration information about the Amazon Virtual Private Cloud (VPC).

## Contents

### SecurityGroupIdsList

An array of strings containing the list of security groups.

Type: Array of strings

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

Pattern: `[-0-9a-zA-Z]+`

Required: Yes

### SubnetIdsList

An array of strings containing the Amazon VPC subnet IDs (e.g., `subnet-0bb1c79de3EXAMPLE`).

Type: Array of strings

Length Constraints: Maximum length of 255.

Pattern: `[\-0-9a-zA-Z]+`

Required: Yes

## See Also

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

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

# Common Parameters

The following list contains the parameters that all actions use for signing Signature Version 4 requests with a query string. Any action-specific parameters are listed in the topic for that action. For more information about Signature Version 4, see [Signing AWS API requests](#) in the *IAM User Guide*.

## Action

The action to be performed.

Type: string

Required: Yes

## Version

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

Type: string

Required: Yes

## X-Amz-Algorithm

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

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

Type: string

Valid Values: AWS4-HMAC-SHA256

Required: Conditional

## X-Amz-Credential

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



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

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

Type: string

Required: Conditional

### **X-Amz-Date**

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

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

Type: string

Required: Conditional

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

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

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

Type: string

Required: Conditional

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

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

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

Type: string

Required: Conditional

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

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

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

Type: string

Required: Conditional

# Common Errors

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

## **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

## **ExpiredTokenException**

The security token included in the request is expired

HTTP Status Code: 403

## **IncompleteSignature**

The request signature does not conform to AWS standards.

HTTP Status Code: 403

## **InternalFailure**

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

HTTP Status Code: 500

## **MalformedHttpRequestException**

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

HTTP Status Code: 400

## **NotAuthorized**

You do not have permission to perform this action.

HTTP Status Code: 401

## **OptInRequired**

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

HTTP Status Code: 403

### **RequestAbortedException**

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

HTTP Status Code: 400

### **RequestEntityTooLargeException**

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

HTTP Status Code: 413

### **RequestExpired**

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

HTTP Status Code: 400

### **RequestTimeoutException**

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

HTTP Status Code: 408

### **ServiceUnavailable**

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

HTTP Status Code: 503

### **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 400

### **UnrecognizedClientException**

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

HTTP Status Code: 403

**UnknownOperationException**

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

HTTP Status Code: 404

**ValidationError**

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

HTTP Status Code: 400