



API Reference

# AWS Data Exchange



# AWS Data Exchange: API Reference

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# Table of Contents

<b>Welcome .....</b>	<b>1</b>
Data sets and products .....	2
API access control .....	2
Endpoints and AWS Regions .....	2
Service quotas .....	3
<b>Actions .....</b>	<b>4</b>
AcceptDataGrant .....	6
Request Syntax .....	6
URI Request Parameters .....	6
Request Body .....	6
Response Syntax .....	6
Response Elements .....	7
Errors .....	9
See Also .....	10
CancelJob .....	11
Request Syntax .....	11
URI Request Parameters .....	11
Request Body .....	11
Response Syntax .....	11
Response Elements .....	11
Errors .....	11
See Also .....	12
CreateDataGrant .....	13
Request Syntax .....	13
URI Request Parameters .....	13
Request Body .....	13
Response Syntax .....	15
Response Elements .....	15
Errors .....	17
See Also .....	18
CreateDataSet .....	20
Request Syntax .....	20
URI Request Parameters .....	20
Request Body .....	20

---

Response Syntax .....	21
Response Elements .....	22
Errors .....	23
See Also .....	24
CreateEventAction .....	25
Request Syntax .....	25
URI Request Parameters .....	25
Request Body .....	25
Response Syntax .....	26
Response Elements .....	27
Errors .....	28
See Also .....	29
CreateJob .....	30
Request Syntax .....	30
URI Request Parameters .....	32
Request Body .....	32
Response Syntax .....	33
Response Elements .....	37
Errors .....	38
See Also .....	39
CreateRevision .....	40
Request Syntax .....	40
URI Request Parameters .....	40
Request Body .....	40
Response Syntax .....	41
Response Elements .....	41
Errors .....	43
See Also .....	44
DeleteAsset .....	45
Request Syntax .....	45
URI Request Parameters .....	45
Request Body .....	45
Response Syntax .....	45
Response Elements .....	45
Errors .....	46
See Also .....	46

---

DeleteDataGrant .....	48
Request Syntax .....	48
URI Request Parameters .....	48
Request Body .....	48
Response Syntax .....	48
Response Elements .....	48
Errors .....	48
See Also .....	49
DeleteDataSet .....	51
Request Syntax .....	51
URI Request Parameters .....	51
Request Body .....	51
Response Syntax .....	51
Response Elements .....	51
Errors .....	51
See Also .....	52
DeleteEventAction .....	54
Request Syntax .....	54
URI Request Parameters .....	54
Request Body .....	54
Response Syntax .....	54
Response Elements .....	54
Errors .....	54
See Also .....	55
DeleteRevision .....	56
Request Syntax .....	56
URI Request Parameters .....	56
Request Body .....	56
Response Syntax .....	56
Response Elements .....	56
Errors .....	56
See Also .....	57
GetAsset .....	59
Request Syntax .....	59
URI Request Parameters .....	59
Request Body .....	59

---

Response Syntax .....	59
Response Elements .....	61
Errors .....	63
See Also .....	63
GetDataGrant .....	65
Request Syntax .....	65
URI Request Parameters .....	65
Request Body .....	65
Response Syntax .....	65
Response Elements .....	66
Errors .....	68
See Also .....	69
GetDataSet .....	70
Request Syntax .....	70
URI Request Parameters .....	70
Request Body .....	70
Response Syntax .....	70
Response Elements .....	71
Errors .....	72
See Also .....	73
GetEventAction .....	74
Request Syntax .....	74
URI Request Parameters .....	74
Request Body .....	74
Response Syntax .....	74
Response Elements .....	75
Errors .....	76
See Also .....	76
GetJob .....	78
Request Syntax .....	78
URI Request Parameters .....	78
Request Body .....	78
Response Syntax .....	78
Response Elements .....	82
Errors .....	83
See Also .....	84

---

GetReceivedDataGrant .....	85
Request Syntax .....	85
URI Request Parameters .....	85
Request Body .....	85
Response Syntax .....	85
Response Elements .....	86
Errors .....	88
See Also .....	88
GetRevision .....	90
Request Syntax .....	90
URI Request Parameters .....	90
Request Body .....	90
Response Syntax .....	90
Response Elements .....	91
Errors .....	93
See Also .....	93
ListDataGrants .....	95
Request Syntax .....	95
URI Request Parameters .....	95
Request Body .....	95
Response Syntax .....	95
Response Elements .....	96
Errors .....	96
See Also .....	97
ListDataSetRevisions .....	98
Request Syntax .....	98
URI Request Parameters .....	98
Request Body .....	98
Response Syntax .....	98
Response Elements .....	99
Errors .....	99
See Also .....	100
ListDataSets .....	101
Request Syntax .....	101
URI Request Parameters .....	101
Request Body .....	101

---

Response Syntax .....	101
Response Elements .....	102
Errors .....	102
See Also .....	103
ListEventActions .....	104
Request Syntax .....	104
URI Request Parameters .....	104
Request Body .....	104
Response Syntax .....	104
Response Elements .....	105
Errors .....	105
See Also .....	106
ListJobs .....	107
Request Syntax .....	107
URI Request Parameters .....	107
Request Body .....	107
Response Syntax .....	107
Response Elements .....	111
Errors .....	111
See Also .....	112
ListReceivedDataGrants .....	113
Request Syntax .....	113
URI Request Parameters .....	113
Request Body .....	113
Response Syntax .....	113
Response Elements .....	114
Errors .....	114
See Also .....	115
ListRevisionAssets .....	116
Request Syntax .....	116
URI Request Parameters .....	116
Request Body .....	116
Response Syntax .....	116
Response Elements .....	118
Errors .....	119
See Also .....	119



---

ListTagsForResource .....	121
Request Syntax .....	121
URI Request Parameters .....	121
Request Body .....	121
Response Syntax .....	121
Response Elements .....	121
Errors .....	122
See Also .....	122
RevokeRevision .....	123
Request Syntax .....	123
URI Request Parameters .....	123
Request Body .....	123
Response Syntax .....	124
Response Elements .....	124
Errors .....	126
See Also .....	127
SendApiAsset .....	128
Request Syntax .....	128
URI Request Parameters .....	128
Request Body .....	129
Response Syntax .....	129
Response Elements .....	129
Errors .....	129
See Also .....	130
SendDataSetNotification .....	132
Request Syntax .....	132
URI Request Parameters .....	133
Request Body .....	133
Response Syntax .....	134
Response Elements .....	134
Errors .....	134
See Also .....	135
StartJob .....	137
Request Syntax .....	137
URI Request Parameters .....	137
Request Body .....	137

Response Syntax .....	137
Response Elements .....	137
Errors .....	137
See Also .....	138
TagResource .....	140
Request Syntax .....	140
URI Request Parameters .....	140
Request Body .....	140
Response Syntax .....	140
Response Elements .....	141
Errors .....	141
See Also .....	141
UntagResource .....	142
Request Syntax .....	142
URI Request Parameters .....	142
Request Body .....	142
Response Syntax .....	142
Response Elements .....	142
Errors .....	142
See Also .....	143
UpdateAsset .....	144
Request Syntax .....	144
URI Request Parameters .....	144
Request Body .....	144
Response Syntax .....	145
Response Elements .....	147
Errors .....	148
See Also .....	149
UpdateDataSet .....	151
Request Syntax .....	151
URI Request Parameters .....	151
Request Body .....	151
Response Syntax .....	152
Response Elements .....	152
Errors .....	154
See Also .....	154

---

UpdateEventAction .....	156
Request Syntax .....	156
URI Request Parameters .....	156
Request Body .....	156
Response Syntax .....	157
Response Elements .....	157
Errors .....	158
See Also .....	159
UpdateRevision .....	160
Request Syntax .....	160
URI Request Parameters .....	160
Request Body .....	160
Response Syntax .....	161
Response Elements .....	161
Errors .....	163
See Also .....	164
<b>Data Types .....</b>	<b>165</b>
Action .....	168
Contents .....	168
See Also .....	168
ApiGatewayApiAsset .....	169
Contents .....	169
See Also .....	170
AssetDestinationEntry .....	171
Contents .....	171
See Also .....	171
AssetDetails .....	172
Contents .....	172
See Also .....	173
AssetEntry .....	174
Contents .....	174
See Also .....	176
AssetSourceEntry .....	177
Contents .....	177
See Also .....	177
AutoExportRevisionDestinationEntry .....	178

---

Contents .....	178
See Also .....	178
AutoExportRevisionToS3RequestDetails .....	179
Contents .....	179
See Also .....	179
CreateS3DataAccessFromS3BucketRequestDetails .....	180
Contents .....	180
See Also .....	180
CreateS3DataAccessFromS3BucketResponseDetails .....	181
Contents .....	181
See Also .....	181
DatabaseLFTagPolicy .....	182
Contents .....	182
See Also .....	182
DatabaseLFTagPolicyAndPermissions .....	183
Contents .....	183
See Also .....	183
DataGrantSummaryEntry .....	184
Contents .....	184
See Also .....	186
DataSetEntry .....	187
Contents .....	187
See Also .....	189
DataUpdateRequestDetails .....	190
Contents .....	190
See Also .....	190
DeprecationRequestDetails .....	191
Contents .....	191
See Also .....	191
Details .....	192
Contents .....	192
See Also .....	192
Event .....	193
Contents .....	193
See Also .....	193
EventActionEntry .....	194

Contents .....	194
See Also .....	195
ExportAssetsToS3RequestDetails .....	196
Contents .....	196
See Also .....	196
ExportAssetsToS3ResponseDetails .....	198
Contents .....	198
See Also .....	198
ExportAssetToSignedUrlRequestDetails .....	200
Contents .....	200
See Also .....	200
ExportAssetToSignedUrlResponseDetails .....	201
Contents .....	201
See Also .....	202
ExportRevisionsToS3RequestDetails .....	203
Contents .....	203
See Also .....	203
ExportRevisionsToS3ResponseDetails .....	204
Contents .....	204
See Also .....	204
ExportServerSideEncryption .....	206
Contents .....	206
See Also .....	206
ImportAssetFromApiGatewayApiRequestDetails .....	207
Contents .....	207
See Also .....	208
ImportAssetFromApiGatewayApiResponseDetails .....	210
Contents .....	210
See Also .....	212
ImportAssetFromSignedUrlJobErrorDetails .....	213
Contents .....	213
See Also .....	213
ImportAssetFromSignedUrlRequestDetails .....	214
Contents .....	214
See Also .....	215
ImportAssetFromSignedUrlResponseDetails .....	216

---

Contents .....	216
See Also .....	217
ImportAssetsFromLakeFormationTagPolicyRequestDetails .....	218
Contents .....	218
See Also .....	219
ImportAssetsFromLakeFormationTagPolicyResponseDetails .....	220
Contents .....	220
See Also .....	221
ImportAssetsFromRedshiftDataSharesRequestDetails .....	222
Contents .....	222
See Also .....	222
ImportAssetsFromRedshiftDataSharesResponseDetails .....	223
Contents .....	223
See Also .....	223
ImportAssetsFromS3RequestDetails .....	224
Contents .....	224
See Also .....	224
ImportAssetsFromS3ResponseDetails .....	225
Contents .....	225
See Also .....	225
JobEntry .....	226
Contents .....	226
See Also .....	227
JobError .....	229
Contents .....	229
See Also .....	230
KmsKeyToGrant .....	231
Contents .....	231
See Also .....	231
LakeFormationDataPermissionAsset .....	232
Contents .....	232
See Also .....	233
LakeFormationDataPermissionDetails .....	234
Contents .....	234
See Also .....	234
LakeFormationTagPolicyDetails .....	235

---

Contents .....	235
See Also .....	235
LFResourceDetails .....	236
Contents .....	236
See Also .....	236
LFTag .....	237
Contents .....	237
See Also .....	237
LFTagPolicyDetails .....	238
Contents .....	238
See Also .....	238
NotificationDetails .....	240
Contents .....	240
See Also .....	240
OriginDetails .....	241
Contents .....	241
See Also .....	241
ReceivedDataGrantSummariesEntry .....	242
Contents .....	242
See Also .....	244
RedshiftDataShareAsset .....	245
Contents .....	245
See Also .....	245
RedshiftDataShareAssetSourceEntry .....	246
Contents .....	246
See Also .....	246
RedshiftDataShareDetails .....	247
Contents .....	247
See Also .....	248
RequestDetails .....	249
Contents .....	249
See Also .....	250
ResponseDetails .....	251
Contents .....	251
See Also .....	252
RevisionDestinationEntry .....	253

---

Contents .....	253
See Also .....	253
RevisionEntry .....	254
Contents .....	254
See Also .....	256
RevisionPublished .....	257
Contents .....	257
See Also .....	257
S3DataAccessAsset .....	258
Contents .....	258
See Also .....	259
S3DataAccessAssetSourceEntry .....	260
Contents .....	260
See Also .....	260
S3DataAccessDetails .....	262
Contents .....	262
See Also .....	262
S3SnapshotAsset .....	263
Contents .....	263
See Also .....	263
SchemaChangeDetails .....	264
Contents .....	264
See Also .....	264
SchemaChangeRequestDetails .....	266
Contents .....	266
See Also .....	266
ScopeDetails .....	267
Contents .....	267
See Also .....	267
TableLFTagPolicy .....	268
Contents .....	268
See Also .....	268
TableLFTagPolicyAndPermissions .....	269
Contents .....	269
See Also .....	269
<b>Common Parameters .....</b>	<b>270</b>



---

<b>Common Errors .....</b>	<b>273</b>
<b>Document history .....</b>	<b>275</b>

# Welcome

Welcome to the *AWS Data Exchange API Reference*. AWS Data Exchange is a service that helps AWS customers to exchange data in the AWS Cloud. You can use the AWS Data Exchange API operations in the AWS Cloud.

As a subscriber, you can view and access the data sets that you have an entitlement to through a subscription. You can use the API operations to download (export) or copy your entitled data sets to Amazon Simple Storage Service (Amazon S3) for use across a variety of AWS analytics and machine learning services.

As a provider, you can create and manage your data sets that you want to publish to a product. You can download (export) or copy your assets or revisions to Amazon S3 or a signed URL. In addition, providers can import assets from an Amazon API Gateway API or import assets from an Amazon Redshift datashare.

A *data set* in AWS Data Exchange is a collection of data that can be changed or updated over time. Data sets can be updated using revisions, which represent a new version or incremental change to a data set. A revision contains one or more assets.

An *asset* in AWS Data Exchange is a piece of data. The asset can be one of the following:

- A structured data file, an image file, or some other data file that is stored as an Amazon S3 object.
- An Amazon Redshift datashare. Datashares are created in Amazon Redshift based on an existing database within a cluster that contain schemas, tables, views, or user-defined functions.
- A REST API that you created in Amazon API Gateway.
- An Amazon S3 access point that allows read-only access to an Amazon S3 bucket or subset of a bucket.
- An AWS Lake Formation data permission (Preview).

As a subscriber, you can view and access the data sets that you have an entitlement to through a subscription. You can use the API operations to export or copy your entitled data sets for use across a variety of AWS analytics and machine learning services, or download them locally.

As a provider, you can create and manage your data sets that you want to publish to a product. Providers can import assets locally, from an Amazon Simple Storage Service (S3) bucket, an

Amazon API Gateway API, from an Amazon Redshift datashare, or from an AWS Lake Formation data permission (Preview).

*Jobs* are asynchronous import or export operations used to create or copy assets.

To learn more about these and other AWS Data Exchange concepts, procedures, best practices, and AWS Marketplace integration, see the [AWS Marketplace Catalog API Reference](#) and the [AWS Data Exchange User Guide](#).

### Note

Currently, the `SendApiAsset` operation is not supported for AWS SDKs for Java or Swift.

## Data sets and products

You can manage and interact with data sets by using the AWS Data Exchange API operations. You can perform product publishing and product subscription tasks through the AWS Marketplace Catalog API or the AWS Data Exchange console. For more information, see the [AWS Data Exchange User Guide](#).

## API access control

You use [AWS Identity and Access Management](#) (IAM) to create IAM roles and assign policies that grant limited permissions to end users. The policies define the actions that the role can take on your data sets, revisions, assets, and associated jobs in the AWS Data Exchange API. For example, you can define roles such as engineering, marketing, and pricing. A user in your organization who has been added to the engineering role might be granted permissions to import an asset from Amazon S3 but can't finalize a revision for your data set.

For more information about AWS Data Exchange permissions, including managed policies, and a permissions reference for AWS Data Exchange actions and resources, see [Identity and Access Management in AWS Data Exchange](#) in the *AWS Data Exchange User Guide*.

## Endpoints and AWS Regions

For information about AWS Regions and endpoints that are supported for AWS Data Exchange, see [AWS Data Exchange endpoints and quotas](#) in the *AWS General Reference*.

## Service quotas

For information about the quotas for using AWS Data Exchange, see [AWS Data Exchange endpoints and quotas](#) in the *AWS General Reference*.

# Actions

The following actions are supported:

- [AcceptDataGrant](#)
- [CancelJob](#)
- [CreateDataGrant](#)
- [CreateDataSet](#)
- [CreateEventAction](#)
- [CreateJob](#)
- [CreateRevision](#)
- [DeleteAsset](#)
- [DeleteDataGrant](#)
- [DeleteDataSet](#)
- [DeleteEventAction](#)
- [DeleteRevision](#)
- [GetAsset](#)
- [GetDataGrant](#)
- [GetDataSet](#)
- [GetEventAction](#)
- [GetJob](#)
- [GetReceivedDataGrant](#)
- [GetRevision](#)
- [ListDataGrants](#)
- [ListDataSetRevisions](#)
- [ListDataSets](#)
- [ListEventActions](#)
- [ListJobs](#)
- [ListReceivedDataGrants](#)
- [ListRevisionAssets](#)
- [ListTagsForResource](#)

- [RevokeRevision](#)
- [SendApiAsset](#)
- [SendDataSetNotification](#)
- [StartJob](#)
- [TagResource](#)
- [UntagResource](#)
- [UpdateAsset](#)
- [UpdateDataSet](#)
- [UpdateEventAction](#)
- [UpdateRevision](#)

# AcceptDataGrant

This operation accepts a data grant.

## Request Syntax

```
POST /v1/data-grants/DataGrantArn/accept HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### DataGrantArn

The Amazon Resource Name (ARN) of the data grant to accept.

Pattern: `arn:aws:dataexchange:[\ -a-z0-9]*:(\d{12}):data-grants\[a-zA-Z0-9]{30,40}`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "AcceptanceState": "string",
  "AcceptedAt": "string",
  "Arn": "string",
  "CreatedAt": "string",
  "DataSetId": "string",
  "Description": "string",
  "EndsAt": "string",
  "GrantDistributionScope": "string",
  "Id": "string",
```

```
"Name": "string",  
"ReceiverPrincipal": "string",  
"SenderPrincipal": "string",  
"UpdatedAt": "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.

### AcceptanceState

The acceptance state of the data grant.

Type: String

Valid Values: PENDING\_RECEIVER\_ACCEPTANCE | ACCEPTED

### AcceptedAt

The timestamp of when the data grant was accepted.

Type: Timestamp

### Arn

The Amazon Resource Name (ARN) of the accepted data grant.

Type: String

### CreatedAt

The timestamp of when the data grant was created.

Type: Timestamp

### DataSetId

The ID of the data set associated to the data grant.

Type: String

### Description

The description of the accepted data grant.



Type: String

Length Constraints: Minimum length of 1. Maximum length of 16384.

### EndsAt

The timestamp of when access to the associated data set ends.

Type: Timestamp

### GrantDistributionScope

The distribution scope for the data grant.

Type: String

Valid Values: AWS\_ORGANIZATION | NONE

### Id

The ID of the data grant.

Type: String

### Name

The name of the accepted data grant.

Type: String

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

### ReceiverPrincipal

The AWS account ID of the data grant receiver.

Type: String

Pattern: \d{12}

### SenderPrincipal

The AWS account ID of the data grant sender.

Type: String

Pattern: \d{12}

## **UpdatedAt**

The timestamp of when the data grant was last updated.

Type: Timestamp

## **Errors**

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

### **AccessDeniedException**

Access to the resource is denied.

HTTP Status Code: 403

### **ConflictException**

The request couldn't be completed because it conflicted with the current state of the resource.

HTTP Status Code: 409

### **InternalServerErrorException**

An exception occurred with the service.

HTTP Status Code: 500

### **ResourceNotFoundException**

The resource couldn't be found.

HTTP Status Code: 404

### **ThrottlingException**

The limit on the number of requests per second was exceeded.

HTTP Status Code: 429

### **ValidationException**

The request was invalid.

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

# CancelJob

This operation cancels a job. Jobs can be cancelled only when they are in the WAITING state.

## Request Syntax

```
DELETE /v1/jobs/JobId HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### JobId

The unique identifier for a job.

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](#).

### ConflictException

The request couldn't be completed because it conflicted with the current state of the resource.

HTTP Status Code: 409

## InternalServerErrorException

An exception occurred with the service.

HTTP Status Code: 500

## ResourceNotFoundException

The resource couldn't be found.

HTTP Status Code: 404

## ThrottlingException

The limit on the number of requests per second was exceeded.

HTTP Status Code: 429

## ValidationException

The request was invalid.

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

# CreateDataGrant

This operation creates a data grant.

## Request Syntax

```
POST /v1/data-grants HTTP/1.1
Content-type: application/json

{
  "Description": "string",
  "EndsAt": "string",
  "GrantDistributionScope": "string",
  "Name": "string",
  "ReceiverPrincipal": "string",
  "SourceDataSetId": "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.

### Description

The description of the data grant.

Type: String

Required: No

### EndsAt

The timestamp of when access to the associated data set ends.

Type: Timestamp

Required: No

### GrantDistributionScope

The distribution scope of the data grant.

Type: String

Valid Values: AWS\_ORGANIZATION | NONE

Required: Yes

### Name

The name of the data grant.

Type: String

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

Required: Yes

### ReceiverPrincipal

The AWS account ID of the data grant receiver.

Type: String

Pattern: \d{12}

Required: Yes

### SourceDataSetId

The ID of the data set used to create the data grant.

Type: String

Required: Yes

### Tags

The tags to add to the data grant. A tag is a key-value pair.

Type: String to string map

Required: No

## Response Syntax

```
HTTP/1.1 201
Content-type: application/json

{
  "AcceptanceState": "string",
  "AcceptedAt": "string",
  "Arn": "string",
  "CreatedAt": "string",
  "DataSetId": "string",
  "Description": "string",
  "EndsAt": "string",
  "GrantDistributionScope": "string",
  "Id": "string",
  "Name": "string",
  "ReceiverPrincipal": "string",
  "SenderPrincipal": "string",
  "SourceDataSetId": "string",
  "Tags": {
    "string" : "string"
  },
  "UpdatedAt": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 201 response.

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

### AcceptanceState

The acceptance state of the data grant.

Type: String

Valid Values: PENDING\_RECEIVER\_ACCEPTANCE | ACCEPTED

### AcceptedAt

The timestamp of when the data grant was accepted.

Type: Timestamp



### Arn

The Amazon Resource Name (ARN) of the data grant.

Type: String

### CreatedAt

The timestamp of when the data grant was created.

Type: Timestamp

### DataSetId

The ID of the data set associated to the data grant.

Type: String

### Description

The description of the data grant.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 16384.

### EndsAt

The timestamp of when access to the associated data set ends.

Type: Timestamp

### GrantDistributionScope

The distribution scope for the data grant.

Type: String

Valid Values: AWS\_ORGANIZATION | NONE

### Id

The ID of the data grant.

Type: String

### Name

The name of the data grant.

Type: String

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

### ReceiverPrincipal

The AWS account ID of the data grant receiver.

Type: String

Pattern: \d{12}

### SenderPrincipal

The AWS account ID of the data grant sender.

Type: String

Pattern: \d{12}

### SourceDataSetId

The ID of the data set used to create the data grant.

Type: String

### Tags

The tags associated to the data grant. A tag is a key-value pair.

Type: String to string map

### UpdatedAt

The timestamp of when the data grant was last updated.

Type: Timestamp

## Errors

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

### **AccessDeniedException**

Access to the resource is denied.

HTTP Status Code: 403

### **InternalServerErrorException**

An exception occurred with the service.

HTTP Status Code: 500

### **ResourceNotFoundException**

The resource couldn't be found.

HTTP Status Code: 404

### **ServiceLimitExceededException**

The request has exceeded the quotas imposed by the service.

HTTP Status Code: 402

### **ThrottlingException**

The limit on the number of requests per second was exceeded.

HTTP Status Code: 429

### **ValidationException**

The request was invalid.

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

# CreateDataSet

This operation creates a data set.

## Request Syntax

```
POST /v1/data-sets HTTP/1.1
Content-type: application/json

{
  "AssetType": "string",
  "Description": "string",
  "Name": "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.

### AssetType

The type of asset that is added to a data set.

Type: String

Valid Values: S3\_SNAPSHOT | REDSHIFT\_DATA\_SHARE | API\_GATEWAY\_API | S3\_DATA\_ACCESS | LAKE\_FORMATION\_DATA\_PERMISSION

Required: Yes

### Description

A description for the data set. This value can be up to 16,348 characters long.

Type: String

Required: Yes

### Name

The name of the data set.

Type: String

Required: Yes

### Tags

A data set tag is an optional label that you can assign to a data set when you create it. Each tag consists of a key and an optional value, both of which you define. When you use tagging, you can also use tag-based access control in IAM policies to control access to these data sets and revisions.

Type: String to string map

Required: No

## Response Syntax

```
HTTP/1.1 201
Content-type: application/json

{
  "Arn": "string",
  "AssetType": "string",
  "CreatedAt": "string",
  "Description": "string",
  "Id": "string",
  "Name": "string",
  "Origin": "string",
  "OriginDetails": {
    "DataGrantId": "string",
    "ProductId": "string"
  },
  "SourceId": "string",
  "Tags": {
    "string" : "string"
  },
  "UpdatedAt": "string"
```

```
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 201 response.

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

### Arn

The ARN for the data set.

Type: String

### AssetType

The type of asset that is added to a data set.

Type: String

Valid Values: S3\_SNAPSHOT | REDSHIFT\_DATA\_SHARE | API\_GATEWAY\_API | S3\_DATA\_ACCESS | LAKE\_FORMATION\_DATA\_PERMISSION

### CreatedAt

The date and time that the data set was created, in ISO 8601 format.

Type: Timestamp

### Description

The description for the data set.

Type: String

### Id

The unique identifier for the data set.

Type: String

### Name

The name of the data set.

Type: String

## Origin

A property that defines the data set as OWNED by the account (for providers) or ENTITLED to the account (for subscribers).

Type: String

Valid Values: OWNED | ENTITLED

## OriginDetails

If the origin of this data set is ENTITLED, includes the details for the product on AWS Marketplace.

Type: [OriginDetails](#) object

## SourceId

The data set ID of the owned data set corresponding to the entitled data set being viewed. This parameter is returned when a data set owner is viewing the entitled copy of its owned data set.

Type: String

## Tags

The tags for the data set.

Type: String to string map

## UpdatedAt

The date and time that the data set was last updated, in ISO 8601 format.

Type: Timestamp

## Errors

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

### **AccessDeniedException**

Access to the resource is denied.

HTTP Status Code: 403



## InternalServerErrorException

An exception occurred with the service.

HTTP Status Code: 500

## ServiceLimitExceededException

The request has exceeded the quotas imposed by the service.

HTTP Status Code: 402

## ThrottlingException

The limit on the number of requests per second was exceeded.

HTTP Status Code: 429

## ValidationException

The request was invalid.

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

# CreateEventAction

This operation creates an event action.

## Request Syntax

```
POST /v1/event-actions HTTP/1.1
Content-type: application/json

{
  "Action": {
    "ExportRevisionToS3": {
      "Encryption": {
        "KmsKeyArn": "string",
        "Type": "string"
      },
      "RevisionDestination": {
        "Bucket": "string",
        "KeyPattern": "string"
      }
    }
  },
  "Event": {
    "RevisionPublished": {
      "DataSetId": "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

What occurs after a certain event.

Type: [Action](#) object

Required: Yes

## Event

What occurs to start an action.

Type: [Event](#) object

Required: Yes

## Tags

Key-value pairs that you can associate with the event action.

Type: String to string map

Required: No

## Response Syntax

```
HTTP/1.1 201
Content-type: application/json

{
  "Action": {
    "ExportRevisionToS3": {
      "Encryption": {
        "KmsKeyArn": "string",
        "Type": "string"
      },
      "RevisionDestination": {
        "Bucket": "string",
        "KeyPattern": "string"
      }
    }
  },
  "Arn": "string",
  "CreatedAt": "string",
```

```
"Event": {
  "RevisionPublished": {
    "DataSetId": "string"
  }
},
"Id": "string",
"Tags": {
  "string" : "string"
},
"UpdatedAt": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 201 response.

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

### Action

What occurs after a certain event.

Type: [Action](#) object

### Arn

The ARN for the event action.

Type: String

### CreatedAt

The date and time that the event action was created, in ISO 8601 format.

Type: Timestamp

### Event

What occurs to start an action.

Type: [Event](#) object

### Id

The unique identifier for the event action.

Type: String

### Tags

The tags for the event action.

Type: String to string map

### UpdatedAt

The date and time that the event action was last updated, in ISO 8601 format.

Type: Timestamp

## Errors

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

### **AccessDeniedException**

Access to the resource is denied.

HTTP Status Code: 403

### **InternalServerErrorException**

An exception occurred with the service.

HTTP Status Code: 500

### **ServiceLimitExceededException**

The request has exceeded the quotas imposed by the service.

HTTP Status Code: 402

### **ThrottlingException**

The limit on the number of requests per second was exceeded.

HTTP Status Code: 429

### **ValidationException**

The request was invalid.

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

# CreateJob

This operation creates a job.

## Request Syntax

```
POST /v1/jobs HTTP/1.1
```

```
Content-type: application/json
```

```
{
  "Details": {
    "CreateS3DataAccessFromS3Bucket": {
      "AssetSource": {
        "Bucket": "string",
        "KeyPrefixes": [ "string" ],
        "Keys": [ "string" ],
        "KmsKeysToGrant": [
          {
            "KmsKeyArn": "string"
          }
        ]
      },
      "DataSetId": "string",
      "RevisionId": "string"
    },
    "ExportAssetsToS3": {
      "AssetDestinations": [
        {
          "AssetId": "string",
          "Bucket": "string",
          "Key": "string"
        }
      ],
      "DataSetId": "string",
      "Encryption": {
        "KmsKeyArn": "string",
        "Type": "string"
      },
      "RevisionId": "string"
    },
    "ExportAssetToSignedUrl": {
      "AssetId": "string",
      "DataSetId": "string",

```

```

    "RevisionId": "string"
  },
  "ExportRevisionsToS3": {
    "DataSetId": "string",
    "Encryption": {
      "KmsKeyArn": "string",
      "Type": "string"
    },
  },
  "RevisionDestinations": [
    {
      "Bucket": "string",
      "KeyPattern": "string",
      "RevisionId": "string"
    }
  ]
},
"ImportAssetFromApiGatewayApi": {
  "ApiDescription": "string",
  "ApiId": "string",
  "ApiKey": "string",
  "ApiName": "string",
  "ApiSpecificationMd5Hash": "string",
  "DataSetId": "string",
  "ProtocolType": "string",
  "RevisionId": "string",
  "Stage": "string"
},
"ImportAssetFromSignedUrl": {
  "AssetName": "string",
  "DataSetId": "string",
  "Md5Hash": "string",
  "RevisionId": "string"
},
"ImportAssetsFromLakeFormationTagPolicy": {
  "CatalogId": "string",
  "Database": {
    "Expression": [
      {
        "TagKey": "string",
        "TagValues": [ "string" ]
      }
    ],
  },
  "Permissions": [ "string" ]
},

```



```

    "DataSetId": "string",
    "RevisionId": "string",
    "RoleArn": "string",
    "Table": {
      "Expression": [
        {
          "TagKey": "string",
          "TagValues": [ "string" ]
        }
      ],
      "Permissions": [ "string" ]
    }
  },
  "ImportAssetsFromRedshiftDataShares": {
    "AssetSources": [
      {
        "DataShareArn": "string"
      }
    ],
    "DataSetId": "string",
    "RevisionId": "string"
  },
  "ImportAssetsFromS3": {
    "AssetSources": [
      {
        "Bucket": "string",
        "Key": "string"
      }
    ],
    "DataSetId": "string",
    "RevisionId": "string"
  }
},
"Type": "string"
}

```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

## Details

The details for the CreateJob request.

Type: [RequestDetails](#) object

Required: Yes

## Type

The type of job to be created.

Type: String

Valid Values: IMPORT\_ASSETS\_FROM\_S3 | IMPORT\_ASSET\_FROM\_SIGNED\_URL  
| EXPORT\_ASSETS\_TO\_S3 | EXPORT\_ASSET\_TO\_SIGNED\_URL |  
EXPORT\_REVISIONS\_TO\_S3 | IMPORT\_ASSETS\_FROM\_REDSHIFT\_DATA\_SHARES |  
IMPORT\_ASSET\_FROM\_API\_GATEWAY\_API | CREATE\_S3\_DATA\_ACCESS\_FROM\_S3\_BUCKET  
| IMPORT\_ASSETS\_FROM\_LAKE\_FORMATION\_TAG\_POLICY

Required: Yes

## Response Syntax

```
HTTP/1.1 201
Content-type: application/json

{
  "Arn": "string",
  "CreatedAt": "string",
  "Details": {
    "CreateS3DataAccessFromS3Bucket": {
      "AssetSource": {
        "Bucket": "string",
        "KeyPrefixes": [ "string " ],
        "Keys": [ "string " ],
        "KmsKeysToGrant": [
          {
            "KmsKeyArn": "string"
          }
        ]
      }
    }
  },
  "DataSetId": "string",
```

```
    "RevisionId": "string"
  },
  "ExportAssetsToS3": {
    "AssetDestinations": [
      {
        "AssetId": "string",
        "Bucket": "string",
        "Key": "string"
      }
    ],
    "DataSetId": "string",
    "Encryption": {
      "KmsKeyArn": "string",
      "Type": "string"
    },
    "RevisionId": "string"
  },
  "ExportAssetToSignedUrl": {
    "AssetId": "string",
    "DataSetId": "string",
    "RevisionId": "string",
    "SignedUrl": "string",
    "SignedUrlExpiresAt": "string"
  },
  "ExportRevisionsToS3": {
    "DataSetId": "string",
    "Encryption": {
      "KmsKeyArn": "string",
      "Type": "string"
    },
    "EventActionArn": "string",
    "RevisionDestinations": [
      {
        "Bucket": "string",
        "KeyPattern": "string",
        "RevisionId": "string"
      }
    ]
  },
  "ImportAssetFromApiGatewayApi": {
    "ApiDescription": "string",
    "ApiId": "string",
    "ApiKey": "string",
    "ApiName": "string",
```

```

    "ApiSpecificationMd5Hash": "string",
    "ApiSpecificationUploadUrl": "string",
    "ApiSpecificationUploadUrlExpiresAt": "string",
    "DataSetId": "string",
    "ProtocolType": "string",
    "RevisionId": "string",
    "Stage": "string"
  },
  "ImportAssetFromSignedUrl": {
    "AssetName": "string",
    "DataSetId": "string",
    "Md5Hash": "string",
    "RevisionId": "string",
    "SignedUrl": "string",
    "SignedUrlExpiresAt": "string"
  },
  "ImportAssetsFromLakeFormationTagPolicy": {
    "CatalogId": "string",
    "Database": {
      "Expression": [
        {
          "TagKey": "string",
          "TagValues": [ "string" ]
        }
      ],
      "Permissions": [ "string" ]
    },
    "DataSetId": "string",
    "RevisionId": "string",
    "RoleArn": "string",
    "Table": {
      "Expression": [
        {
          "TagKey": "string",
          "TagValues": [ "string" ]
        }
      ],
      "Permissions": [ "string" ]
    }
  },
  "ImportAssetsFromRedshiftDataShares": {
    "AssetSources": [
      {
        "DataShareArn": "string"
      }
    ]
  }
}

```

```

    }
  ],
  "DataSetId": "string",
  "RevisionId": "string"
},
"ImportAssetsFromS3": {
  "AssetSources": [
    {
      "Bucket": "string",
      "Key": "string"
    }
  ],
  "DataSetId": "string",
  "RevisionId": "string"
}
},
"Errors": [
  {
    "Code": "string",
    "Details": {
      "ImportAssetFromSignedUrlJobErrorDetails": {
        "AssetName": "string"
      },
      "ImportAssetsFromS3JobErrorDetails": [
        {
          "Bucket": "string",
          "Key": "string"
        }
      ]
    }
  },
  "LimitName": "string",
  "LimitValue": number,
  "Message": "string",
  "ResourceId": "string",
  "ResourceType": "string"
}
],
"Id": "string",
"State": "string",
"Type": "string",
"UpdatedAt": "string"
}

```

## Response Elements

If the action is successful, the service sends back an HTTP 201 response.

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

### Arn

The ARN for the job.

Type: String

### CreatedAt

The date and time that the job was created, in ISO 8601 format.

Type: Timestamp

### Details

Details about the job.

Type: [ResponseDetails](#) object

### Errors

The errors associated with jobs.

Type: Array of [JobError](#) objects

### Id

The unique identifier for the job.

Type: String

### State

The state of the job.

Type: String

Valid Values: WAITING | IN\_PROGRESS | ERROR | COMPLETED | CANCELLED | TIMED\_OUT

### Type

The job type.

Type: String

Valid Values: IMPORT\_ASSETS\_FROM\_S3 | IMPORT\_ASSET\_FROM\_SIGNED\_URL  
| EXPORT\_ASSETS\_TO\_S3 | EXPORT\_ASSET\_TO\_SIGNED\_URL |  
EXPORT\_REVISIONS\_TO\_S3 | IMPORT\_ASSETS\_FROM\_REDSHIFT\_DATA\_SHARES |  
IMPORT\_ASSET\_FROM\_API\_GATEWAY\_API | CREATE\_S3\_DATA\_ACCESS\_FROM\_S3\_BUCKET  
| IMPORT\_ASSETS\_FROM\_LAKE\_FORMATION\_TAG\_POLICY

### UpdatedAt

The date and time that the job was last updated, in ISO 8601 format.

Type: Timestamp

## Errors

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

### **AccessDeniedException**

Access to the resource is denied.

HTTP Status Code: 403

### **ConflictException**

The request couldn't be completed because it conflicted with the current state of the resource.

HTTP Status Code: 409

### **InternalServerErrorException**

An exception occurred with the service.

HTTP Status Code: 500

### **ResourceNotFoundException**

The resource couldn't be found.

HTTP Status Code: 404

### **ThrottlingException**

The limit on the number of requests per second was exceeded.

HTTP Status Code: 429

## ValidationException

The request was invalid.

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



# CreateRevision

This operation creates a revision for a data set.

## Request Syntax

```
POST /v1/data-sets/DataSetId/revisions HTTP/1.1
Content-type: application/json
```

```
{
  "Comment": "string",
  "Tags": {
    "string" : "string"
  }
}
```

## URI Request Parameters

The request uses the following URI parameters.

### DataSetId

The unique identifier for a data set.

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### Comment

An optional comment about the revision.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 16384.

Required: No

## Tags

A revision tag is an optional label that you can assign to a revision when you create it. Each tag consists of a key and an optional value, both of which you define. When you use tagging, you can also use tag-based access control in IAM policies to control access to these data sets and revisions.

Type: String to string map

Required: No

## Response Syntax

```
HTTP/1.1 201
Content-type: application/json

{
  "Arn": "string",
  "Comment": "string",
  "CreatedAt": "string",
  "DataSetId": "string",
  "Finalized": boolean,
  "Id": "string",
  "RevocationComment": "string",
  "Revoked": boolean,
  "RevokedAt": "string",
  "SourceId": "string",
  "Tags": {
    "string" : "string"
  },
  "UpdatedAt": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 201 response.

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

### Arn

The ARN for the revision.

Type: String

### **Comment**

An optional comment about the revision.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 16384.

### **CreatedAt**

The date and time that the revision was created, in ISO 8601 format.

Type: Timestamp

### **DataSetId**

The unique identifier for the data set associated with the data set revision.

Type: String

### **Finalized**

To publish a revision to a data set in a product, the revision must first be finalized. Finalizing a revision tells AWS Data Exchange that your changes to the assets in the revision are complete. After it's in this read-only state, you can publish the revision to your products. Finalized revisions can be published through the AWS Data Exchange console or the AWS Marketplace Catalog API, using the StartChangeSet AWS Marketplace Catalog API action. When using the API, revisions are uniquely identified by their ARN.

Type: Boolean

### **Id**

The unique identifier for the revision.

Type: String

### **RevocationComment**

A required comment to inform subscribers of the reason their access to the revision was revoked.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 512.

## Revoked

A status indicating that subscribers' access to the revision was revoked.

Type: Boolean

## RevokedAt

The date and time that the revision was revoked, in ISO 8601 format.

Type: Timestamp

## SourceId

The revision ID of the owned revision corresponding to the entitled revision being viewed. This parameter is returned when a revision owner is viewing the entitled copy of its owned revision.

Type: String

## Tags

The tags for the revision.

Type: String to string map

## UpdatedAt

The date and time that the revision was last updated, in ISO 8601 format.

Type: Timestamp

## Errors

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

### **AccessDeniedException**

Access to the resource is denied.

HTTP Status Code: 403

### **InternalServerError**

An exception occurred with the service.

HTTP Status Code: 500

## ResourceNotFoundException

The resource couldn't be found.

HTTP Status Code: 404

## ThrottlingException

The limit on the number of requests per second was exceeded.

HTTP Status Code: 429

## ValidationException

The request was invalid.

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

# DeleteAsset

This operation deletes an asset.

## Request Syntax

```
DELETE /v1/data-sets/DataSetId/revisions/RevisionId/assets/AssetId HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### AssetId

The unique identifier for an asset.

Required: Yes

### DataSetId

The unique identifier for a data set.

Required: Yes

### RevisionId

The unique identifier for a revision.

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](#).

### **AccessDeniedException**

Access to the resource is denied.

HTTP Status Code: 403

### **ConflictException**

The request couldn't be completed because it conflicted with the current state of the resource.

HTTP Status Code: 409

### **InternalServerErrorException**

An exception occurred with the service.

HTTP Status Code: 500

### **ResourceNotFoundException**

The resource couldn't be found.

HTTP Status Code: 404

### **ThrottlingException**

The limit on the number of requests per second was exceeded.

HTTP Status Code: 429

### **ValidationException**

The request was invalid.

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



# DeleteDataGrant

This operation deletes a data grant.

## Request Syntax

```
DELETE /v1/data-grants/DataGrantId HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### DataGrantId

The ID of the data grant to delete.

Pattern: `[a-zA-Z0-9]{30,40}$|^arn:aws:dataexchange:[\a-z0-9]*:(\d{12}):data-grants\[a-zA-Z0-9]{30,40}`

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](#).

### **AccessDeniedException**

Access to the resource is denied.

HTTP Status Code: 403

### **InternalServerErrorException**

An exception occurred with the service.

HTTP Status Code: 500

### **ResourceNotFoundException**

The resource couldn't be found.

HTTP Status Code: 404

### **ThrottlingException**

The limit on the number of requests per second was exceeded.

HTTP Status Code: 429

### **ValidationException**

The request was invalid.

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



# DeleteDataSet

This operation deletes a data set.

## Request Syntax

```
DELETE /v1/data-sets/DataSetId HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### DataSetId

The unique identifier for a data set.

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](#).

### **AccessDeniedException**

Access to the resource is denied.

HTTP Status Code: 403

## **ConflictException**

The request couldn't be completed because it conflicted with the current state of the resource.

HTTP Status Code: 409

## **InternalServerErrorException**

An exception occurred with the service.

HTTP Status Code: 500

## **ResourceNotFoundException**

The resource couldn't be found.

HTTP Status Code: 404

## **ThrottlingException**

The limit on the number of requests per second was exceeded.

HTTP Status Code: 429

## **ValidationException**

The request was invalid.

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 Kotlin](#)

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

# DeleteEventAction

This operation deletes the event action.

## Request Syntax

```
DELETE /v1/event-actions/EventActionId HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### EventActionId

The unique identifier for the event action.

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](#).

### InternalServerError

An exception occurred with the service.

HTTP Status Code: 500

## ResourceNotFoundException

The resource couldn't be found.

HTTP Status Code: 404

## ThrottlingException

The limit on the number of requests per second was exceeded.

HTTP Status Code: 429

## ValidationException

The request was invalid.

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



# DeleteRevision

This operation deletes a revision.

## Request Syntax

```
DELETE /v1/data-sets/DataSetId/revisions/RevisionId HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### DataSetId

The unique identifier for a data set.

Required: Yes

### RevisionId

The unique identifier for a revision.

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](#).

## **AccessDeniedException**

Access to the resource is denied.

HTTP Status Code: 403

## **ConflictException**

The request couldn't be completed because it conflicted with the current state of the resource.

HTTP Status Code: 409

## **InternalServerErrorException**

An exception occurred with the service.

HTTP Status Code: 500

## **ResourceNotFoundException**

The resource couldn't be found.

HTTP Status Code: 404

## **ThrottlingException**

The limit on the number of requests per second was exceeded.

HTTP Status Code: 429

## **ValidationException**

The request was invalid.

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

# GetAsset

This operation returns information about an asset.

## Request Syntax

```
GET /v1/data-sets/DataSetId/revisions/RevisionId/assets/AssetId HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### AssetId

The unique identifier for an asset.

Required: Yes

### DataSetId

The unique identifier for a data set.

Required: Yes

### RevisionId

The unique identifier for a revision.

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "Arn": "string",
  "AssetDetails": {
    "ApiGatewayApiAsset": {
```

```

    "ApiDescription": "string",
    "ApiEndpoint": "string",
    "ApiId": "string",
    "ApiKey": "string",
    "ApiName": "string",
    "ApiSpecificationDownloadUrl": "string",
    "ApiSpecificationDownloadUrlExpiresAt": "string",
    "ProtocolType": "string",
    "Stage": "string"
  },
  "LakeFormationDataPermissionAsset": {
    "LakeFormationDataPermissionDetails": {
      "LFTagPolicy": {
        "CatalogId": "string",
        "ResourceDetails": {
          "Database": {
            "Expression": [
              {
                "TagKey": "string",
                "TagValues": [ "string" ]
              }
            ]
          },
          "Table": {
            "Expression": [
              {
                "TagKey": "string",
                "TagValues": [ "string" ]
              }
            ]
          }
        }
      },
      "ResourceType": "string"
    }
  },
  "LakeFormationDataPermissionType": "string",
  "Permissions": [ "string" ],
  "RoleArn": "string"
},
"RedshiftDataShareAsset": {
  "Arn": "string"
},
"S3DataAccessAsset": {
  "Bucket": "string",

```

```

    "KeyPrefixes": [ "string" ],
    "Keys": [ "string" ],
    "KmsKeysToGrant": [
      {
        "KmsKeyArn": "string"
      }
    ],
    "S3AccessPointAlias": "string",
    "S3AccessPointArn": "string"
  },
  "S3SnapshotAsset": {
    "Size": number
  }
},
"AssetType": "string",
"CreatedAt": "string",
"DataSetId": "string",
"Id": "string",
"Name": "string",
"RevisionId": "string",
"SourceId": "string",
"UpdatedAt": "string"
}

```

## Response Elements

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

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

### [Arn](#)

The ARN for the asset.

Type: String

### [AssetDetails](#)

Details about the asset.

Type: [AssetDetails](#) object

### [AssetType](#)

The type of asset that is added to a data set.

Type: String

Valid Values: S3\_SNAPSHOT | REDSHIFT\_DATA\_SHARE | API\_GATEWAY\_API | S3\_DATA\_ACCESS | LAKE\_FORMATION\_DATA\_PERMISSION

### CreatedAt

The date and time that the asset was created, in ISO 8601 format.

Type: Timestamp

### DataSetId

The unique identifier for the data set associated with this asset.

Type: String

### Id

The unique identifier for the asset.

Type: String

### Name

The name of the asset. When importing from Amazon S3, the Amazon S3 object key is used as the asset name. When exporting to Amazon S3, the asset name is used as default target Amazon S3 object key. When importing from Amazon API Gateway API, the API name is used as the asset name. When importing from Amazon Redshift, the datashare name is used as the asset name. When importing from AWS Lake Formation, the static values of "Database(s) included in the LF-tag policy" or "Table(s) included in the LF-tag policy" are used as the asset name.

Type: String

### RevisionId

The unique identifier for the revision associated with this asset.

Type: String

### SourceId

The asset ID of the owned asset corresponding to the entitled asset being viewed. This parameter is returned when an asset owner is viewing the entitled copy of its owned asset.

Type: String

### UpdatedAt

The date and time that the asset was last updated, in ISO 8601 format.

Type: Timestamp

## Errors

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

### **InternalServerErrorException**

An exception occurred with the service.

HTTP Status Code: 500

### **ResourceNotFoundException**

The resource couldn't be found.

HTTP Status Code: 404

### **ThrottlingException**

The limit on the number of requests per second was exceeded.

HTTP Status Code: 429

### **ValidationException**

The request was invalid.

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

# GetDataGrant

This operation returns information about a data grant.

## Request Syntax

```
GET /v1/data-grants/DataGrantId HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### DataGrantId

The ID of the data grant.

Pattern: `[a-zA-Z0-9]{30,40}$|^arn:aws:dataexchange:[\a-z0-9]*:(\d{12}):data-grants\/[a-zA-Z0-9]{30,40}`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "AcceptanceState": "string",
  "AcceptedAt": "string",
  "Arn": "string",
  "CreatedAt": "string",
  "DataSetId": "string",
  "Description": "string",
  "EndsAt": "string",
  "GrantDistributionScope": "string",
  "Id": "string",
```

```
"Name": "string",
"ReceiverPrincipal": "string",
"SenderPrincipal": "string",
"SourceDataSetId": "string",
"Tags": {
  "string" : "string"
},
"UpdatedAt": "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.

### AcceptanceState

The acceptance state of the data grant.

Type: String

Valid Values: PENDING\_RECEIVER\_ACCEPTANCE | ACCEPTED

### AcceptedAt

The timestamp of when the data grant was accepted.

Type: Timestamp

### Arn

The Amazon Resource Name (ARN) of the data grant.

Type: String

### CreatedAt

The timestamp of when the data grant was created.

Type: Timestamp

### DataSetId

The ID of the data set associated to the data grant.

Type: String

### Description

The description of the data grant.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 16384.

### EndsAt

The timestamp of when access to the associated data set ends.

Type: Timestamp

### GrantDistributionScope

The distribution scope for the data grant.

Type: String

Valid Values: AWS\_ORGANIZATION | NONE

### Id

The ID of the data grant.

Type: String

### Name

The name of the data grant.

Type: String

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

### ReceiverPrincipal

The AWS account ID of the data grant receiver.

Type: String

Pattern: \d{12}

### SenderPrincipal

The AWS account ID of the data grant sender.

Type: String

Pattern: \d{12}

### SourceDataSetId

The ID of the data set used to create the data grant.

Type: String

### Tags

The tags associated to the data grant. A tag is a key-value pair.

Type: String to string map

### UpdatedAt

The timestamp of when the data grant was last updated.

Type: Timestamp

## Errors

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

### **AccessDeniedException**

Access to the resource is denied.

HTTP Status Code: 403

### **InternalServerErrorException**

An exception occurred with the service.

HTTP Status Code: 500

### **ResourceNotFoundException**

The resource couldn't be found.

HTTP Status Code: 404

### **ThrottlingException**

The limit on the number of requests per second was exceeded.

HTTP Status Code: 429

## ValidationException

The request was invalid.

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

# GetDataSet

This operation returns information about a data set.

## Request Syntax

```
GET /v1/data-sets/DataSetId HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### DataSetId

The unique identifier for a data set.

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "Arn": "string",
  "AssetType": "string",
  "CreatedAt": "string",
  "Description": "string",
  "Id": "string",
  "Name": "string",
  "Origin": "string",
  "OriginDetails": {
    "DataGrantId": "string",
    "ProductId": "string"
  },
  "SourceId": "string",
```

```
"Tags": {  
  "string" : "string"  
},  
"UpdatedAt": "string"  
}
```

## Response Elements

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

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

### Arn

The ARN for the data set.

Type: String

### AssetType

The type of asset that is added to a data set.

Type: String

Valid Values: S3\_SNAPSHOT | REDSHIFT\_DATA\_SHARE | API\_GATEWAY\_API | S3\_DATA\_ACCESS | LAKE\_FORMATION\_DATA\_PERMISSION

### CreatedAt

The date and time that the data set was created, in ISO 8601 format.

Type: Timestamp

### Description

The description for the data set.

Type: String

### Id

The unique identifier for the data set.

Type: String



## Name

The name of the data set.

Type: String

## Origin

A property that defines the data set as OWNED by the account (for providers) or ENTITLED to the account (for subscribers).

Type: String

Valid Values: OWNED | ENTITLED

## OriginDetails

If the origin of this data set is ENTITLED, includes the details for the product on AWS Marketplace.

Type: [OriginDetails](#) object

## SourceId

The data set ID of the owned data set corresponding to the entitled data set being viewed. This parameter is returned when a data set owner is viewing the entitled copy of its owned data set.

Type: String

## Tags

The tags for the data set.

Type: String to string map

## UpdatedAt

The date and time that the data set was last updated, in ISO 8601 format.

Type: Timestamp

## Errors

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

## InternalServerErrorException

An exception occurred with the service.

HTTP Status Code: 500

## ResourceNotFoundException

The resource couldn't be found.

HTTP Status Code: 404

## ThrottlingException

The limit on the number of requests per second was exceeded.

HTTP Status Code: 429

## ValidationException

The request was invalid.

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

# GetEventAction

This operation retrieves information about an event action.

## Request Syntax

```
GET /v1/event-actions/EventActionId HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### [EventActionId](#)

The unique identifier for the event action.

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "Action": {
    "ExportRevisionToS3": {
      "Encryption": {
        "KmsKeyArn": "string",
        "Type": "string"
      },
      "RevisionDestination": {
        "Bucket": "string",
        "KeyPattern": "string"
      }
    }
  },
  "Arn": "string",
```

```
"CreatedAt": "string",
"Event": {
  "RevisionPublished": {
    "DataSetId": "string"
  }
},
"Id": "string",
"Tags": {
  "string" : "string"
},
"UpdatedAt": "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.

### Action

What occurs after a certain event.

Type: [Action](#) object

### Arn

The ARN for the event action.

Type: String

### CreatedAt

The date and time that the event action was created, in ISO 8601 format.

Type: Timestamp

### Event

What occurs to start an action.

Type: [Event](#) object

### Id

The unique identifier for the event action.

Type: String

### Tags

The tags for the event action.

Type: String to string map

### UpdatedAt

The date and time that the event action was last updated, in ISO 8601 format.

Type: Timestamp

## Errors

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

### **InternalServerErrorException**

An exception occurred with the service.

HTTP Status Code: 500

### **ResourceNotFoundException**

The resource couldn't be found.

HTTP Status Code: 404

### **ThrottlingException**

The limit on the number of requests per second was exceeded.

HTTP Status Code: 429

### **ValidationException**

The request was invalid.

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

# GetJob

This operation returns information about a job.

## Request Syntax

```
GET /v1/jobs/JobId HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### JobId

The unique identifier for a job.

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "Arn": "string",
  "CreatedAt": "string",
  "Details": {
    "CreateS3DataAccessFromS3Bucket": {
      "AssetSource": {
        "Bucket": "string",
        "KeyPrefixes": [ "string ],
        "Keys": [ "string ],
        "KmsKeysToGrant": [
          {
            "KmsKeyArn": "string"
          }
        ]
      }
    }
  }
}
```

```
    },
    "DataSetId": "string",
    "RevisionId": "string"
  },
  "ExportAssetsToS3": {
    "AssetDestinations": [
      {
        "AssetId": "string",
        "Bucket": "string",
        "Key": "string"
      }
    ],
    "DataSetId": "string",
    "Encryption": {
      "KmsKeyArn": "string",
      "Type": "string"
    },
    "RevisionId": "string"
  },
  "ExportAssetToSignedUrl": {
    "AssetId": "string",
    "DataSetId": "string",
    "RevisionId": "string",
    "SignedUrl": "string",
    "SignedUrlExpiresAt": "string"
  },
  "ExportRevisionsToS3": {
    "DataSetId": "string",
    "Encryption": {
      "KmsKeyArn": "string",
      "Type": "string"
    },
    "EventActionArn": "string",
    "RevisionDestinations": [
      {
        "Bucket": "string",
        "KeyPattern": "string",
        "RevisionId": "string"
      }
    ]
  },
  "ImportAssetFromApiGatewayApi": {
    "ApiDescription": "string",
    "ApiId": "string",
```



```

    "ApiKey": "string",
    "ApiName": "string",
    "ApiSpecificationMd5Hash": "string",
    "ApiSpecificationUploadUrl": "string",
    "ApiSpecificationUploadUrlExpiresAt": "string",
    "DataSetId": "string",
    "ProtocolType": "string",
    "RevisionId": "string",
    "Stage": "string"
  },
  "ImportAssetFromSignedUrl": {
    "AssetName": "string",
    "DataSetId": "string",
    "Md5Hash": "string",
    "RevisionId": "string",
    "SignedUrl": "string",
    "SignedUrlExpiresAt": "string"
  },
  "ImportAssetsFromLakeFormationTagPolicy": {
    "CatalogId": "string",
    "Database": {
      "Expression": [
        {
          "TagKey": "string",
          "TagValues": [ "string" ]
        }
      ],
      "Permissions": [ "string" ]
    },
    "DataSetId": "string",
    "RevisionId": "string",
    "RoleArn": "string",
    "Table": {
      "Expression": [
        {
          "TagKey": "string",
          "TagValues": [ "string" ]
        }
      ],
      "Permissions": [ "string" ]
    }
  },
  "ImportAssetsFromRedshiftDataShares": {
    "AssetSources": [

```

```

        {
            "DataShareArn": "string"
        }
    ],
    "DataSetId": "string",
    "RevisionId": "string"
},
"ImportAssetsFromS3": {
    "AssetSources": [
        {
            "Bucket": "string",
            "Key": "string"
        }
    ],
    "DataSetId": "string",
    "RevisionId": "string"
}
},
"Errors": [
    {
        "Code": "string",
        "Details": {
            "ImportAssetFromSignedUrlJobErrorDetails": {
                "AssetName": "string"
            },
            "ImportAssetsFromS3JobErrorDetails": [
                {
                    "Bucket": "string",
                    "Key": "string"
                }
            ]
        },
        "LimitName": "string",
        "LimitValue": number,
        "Message": "string",
        "ResourceId": "string",
        "ResourceType": "string"
    }
],
"Id": "string",
"State": "string",
"Type": "string",
"UpdatedAt": "string"

```

```
}
```

## Response Elements

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

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

### Arn

The ARN for the job.

Type: String

### CreatedAt

The date and time that the job was created, in ISO 8601 format.

Type: Timestamp

### Details

Details about the job.

Type: [ResponseDetails](#) object

### Errors

The errors associated with jobs.

Type: Array of [JobError](#) objects

### Id

The unique identifier for the job.

Type: String

### State

The state of the job.

Type: String

Valid Values: WAITING | IN\_PROGRESS | ERROR | COMPLETED | CANCELLED | TIMED\_OUT

## Type

The job type.

Type: String

Valid Values: IMPORT\_ASSETS\_FROM\_S3 | IMPORT\_ASSET\_FROM\_SIGNED\_URL  
| EXPORT\_ASSETS\_TO\_S3 | EXPORT\_ASSET\_TO\_SIGNED\_URL |  
EXPORT\_REVISIONS\_TO\_S3 | IMPORT\_ASSETS\_FROM\_REDSHIFT\_DATA\_SHARES |  
IMPORT\_ASSET\_FROM\_API\_GATEWAY\_API | CREATE\_S3\_DATA\_ACCESS\_FROM\_S3\_BUCKET  
| IMPORT\_ASSETS\_FROM\_LAKE\_FORMATION\_TAG\_POLICY

## UpdatedAt

The date and time that the job was last updated, in ISO 8601 format.

Type: Timestamp

## Errors

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

### **InternalServerErrorException**

An exception occurred with the service.

HTTP Status Code: 500

### **ResourceNotFoundException**

The resource couldn't be found.

HTTP Status Code: 404

### **ThrottlingException**

The limit on the number of requests per second was exceeded.

HTTP Status Code: 429

### **ValidationException**

The request was invalid.

HTTP Status Code: 400

## See Also

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

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

# GetReceivedDataGrant

This operation returns information about a received data grant.

## Request Syntax

```
GET /v1/received-data-grants/DataGrantArn HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### DataGrantArn

The Amazon Resource Name (ARN) of the data grant.

Pattern: `arn:aws:dataexchange:[\ -a-z0-9]*:(\d{12}):data-grants\[a-zA-Z0-9\]{30,40}`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "AcceptanceState": "string",
  "AcceptedAt": "string",
  "Arn": "string",
  "CreatedAt": "string",
  "DataSetId": "string",
  "Description": "string",
  "EndsAt": "string",
  "GrantDistributionScope": "string",
  "Id": "string",
```

```
"Name": "string",  
"ReceiverPrincipal": "string",  
"SenderPrincipal": "string",  
"UpdatedAt": "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.

### AcceptanceState

The acceptance state of the data grant.

Type: String

Valid Values: PENDING\_RECEIVER\_ACCEPTANCE | ACCEPTED

### AcceptedAt

The timestamp of when the data grant was accepted.

Type: Timestamp

### Arn

The Amazon Resource Name (ARN) of the data grant.

Type: String

### CreatedAt

The timestamp of when the data grant was created.

Type: Timestamp

### DataSetId

The ID of the data set associated to the data grant.

Type: String

### Description

The description of the data grant.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 16384.

### EndsAt

The timestamp of when access to the associated data set ends.

Type: Timestamp

### GrantDistributionScope

The distribution scope for the data grant.

Type: String

Valid Values: AWS\_ORGANIZATION | NONE

### Id

The ID of the data grant.

Type: String

### Name

The name of the data grant.

Type: String

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

### ReceiverPrincipal

The AWS account ID of the data grant receiver.

Type: String

Pattern: \d{12}

### SenderPrincipal

The AWS account ID of the data grant sender.

Type: String

Pattern: \d{12}



## **UpdatedAt**

The timestamp of when the data grant was last updated.

Type: Timestamp

## **Errors**

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

### **AccessDeniedException**

Access to the resource is denied.

HTTP Status Code: 403

### **InternalServerErrorException**

An exception occurred with the service.

HTTP Status Code: 500

### **ResourceNotFoundException**

The resource couldn't be found.

HTTP Status Code: 404

### **ThrottlingException**

The limit on the number of requests per second was exceeded.

HTTP Status Code: 429

### **ValidationException**

The request was invalid.

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

# GetRevision

This operation returns information about a revision.

## Request Syntax

```
GET /v1/data-sets/DataSetId/revisions/RevisionId HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### DataSetId

The unique identifier for a data set.

Required: Yes

### RevisionId

The unique identifier for a revision.

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "Arn": "string",
  "Comment": "string",
  "CreatedAt": "string",
  "DataSetId": "string",
  "Finalized": boolean,
  "Id": "string",
  "RevocationComment": "string",
```

```
"Revoked": boolean,
"RevokedAt": "string",
"SourceId": "string",
"Tags": {
  "string" : "string"
},
"UpdatedAt": "string"
}
```

## Response Elements

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

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

### Arn

The ARN for the revision.

Type: String

### Comment

An optional comment about the revision.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 16384.

### CreatedAt

The date and time that the revision was created, in ISO 8601 format.

Type: Timestamp

### DataSetId

The unique identifier for the data set associated with the data set revision.

Type: String

### Finalized

To publish a revision to a data set in a product, the revision must first be finalized. Finalizing a revision tells AWS Data Exchange that your changes to the assets in the revision are complete.

After it's in this read-only state, you can publish the revision to your products. Finalized revisions can be published through the AWS Data Exchange console or the AWS Marketplace Catalog API, using the StartChangeSet AWS Marketplace Catalog API action. When using the API, revisions are uniquely identified by their ARN.

Type: Boolean

### **Id**

The unique identifier for the revision.

Type: String

### **RevocationComment**

A required comment to inform subscribers of the reason their access to the revision was revoked.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 512.

### **Revoked**

A status indicating that subscribers' access to the revision was revoked.

Type: Boolean

### **RevokedAt**

The date and time that the revision was revoked, in ISO 8601 format.

Type: Timestamp

### **SourceId**

The revision ID of the owned revision corresponding to the entitled revision being viewed. This parameter is returned when a revision owner is viewing the entitled copy of its owned revision.

Type: String

### **Tags**

The tags for the revision.

Type: String to string map

## UpdatedAt

The date and time that the revision was last updated, in ISO 8601 format.

Type: Timestamp

## Errors

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

### **InternalServerErrorException**

An exception occurred with the service.

HTTP Status Code: 500

### **ResourceNotFoundException**

The resource couldn't be found.

HTTP Status Code: 404

### **ThrottlingException**

The limit on the number of requests per second was exceeded.

HTTP Status Code: 429

### **ValidationException**

The request was invalid.

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

# ListDataGrants

This operation returns information about all data grants.

## Request Syntax

```
GET /v1/data-grants?maxResults=MaxResults&nextToken=NextToken HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### [MaxResults](#)

The maximum number of results to be included in the next page.

Valid Range: Minimum value of 1. Maximum value of 200.

### [NextToken](#)

The pagination token used to retrieve the next page of results for this operation.

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "DataGrantSummaries": [
    {
      "AcceptanceState": "string",
      "AcceptedAt": "string",
      "Arn": "string",
      "CreatedAt": "string",
      "DataSetId": "string",
      "EndsAt": "string",
      "Id": "string",
```



```
    "Name": "string",
    "ReceiverPrincipal": "string",
    "SenderPrincipal": "string",
    "SourceDataSetId": "string",
    "UpdatedAt": "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.

### DataGrantSummaries

An object that contains a list of data grant information.

Type: Array of [DataGrantSummaryEntry](#) objects

### NextToken

The pagination token used to retrieve the next page of results for this operation.

Type: String

## Errors

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

### **AccessDeniedException**

Access to the resource is denied.

HTTP Status Code: 403

### **InternalServerErrorException**

An exception occurred with the service.

HTTP Status Code: 500

## ResourceNotFoundException

The resource couldn't be found.

HTTP Status Code: 404

## ThrottlingException

The limit on the number of requests per second was exceeded.

HTTP Status Code: 429

## ValidationException

The request was invalid.

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



```
{
  "Arn": "string",
  "Comment": "string",
  "CreatedAt": "string",
  "DataSetId": "string",
  "Finalized": boolean,
  "Id": "string",
  "RevocationComment": "string",
  "Revoked": boolean,
  "RevokedAt": "string",
  "SourceId": "string",
  "UpdatedAt": "string"
}
```

## Response Elements

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

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

### NextToken

The token value retrieved from a previous call to access the next page of results.

Type: String

### Revisions

The asset objects listed by the request.

Type: Array of [RevisionEntry](#) objects

## Errors

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

### **InternalServerError**

An exception occurred with the service.

HTTP Status Code: 500

## ResourceNotFoundException

The resource couldn't be found.

HTTP Status Code: 404

## ThrottlingException

The limit on the number of requests per second was exceeded.

HTTP Status Code: 429

## ValidationException

The request was invalid.

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

# ListDataSets

This operation lists your data sets. When listing by origin OWNED, results are sorted by CreatedAt in descending order. When listing by origin ENTITLED, there is no order.

## Request Syntax

```
GET /v1/data-sets?maxResults=MaxResults&nextToken=NextToken&origin=Origin HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### MaxResults

The maximum number of results returned by a single call.

Valid Range: Minimum value of 1. Maximum value of 200.

### NextToken

The token value retrieved from a previous call to access the next page of results.

### Origin

A property that defines the data set as OWNED by the account (for providers) or ENTITLED to the account (for subscribers).

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "DataSets": [
    {
```

```
    "Arn": "string",
    "AssetType": "string",
    "CreatedAt": "string",
    "Description": "string",
    "Id": "string",
    "Name": "string",
    "Origin": "string",
    "OriginDetails": {
      "DataGrantId": "string",
      "ProductId": "string"
    },
    "SourceId": "string",
    "UpdatedAt": "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.

### DataSets

The data set objects listed by the request.

Type: Array of [DataSetEntry](#) objects

### NextToken

The token value retrieved from a previous call to access the next page of results.

Type: String

## Errors

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

### **InternalServerErrorException**

An exception occurred with the service.

HTTP Status Code: 500

### **ResourceNotFoundException**

The resource couldn't be found.

HTTP Status Code: 404

### **ThrottlingException**

The limit on the number of requests per second was exceeded.

HTTP Status Code: 429

### **ValidationException**

The request was invalid.

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



# ListEventActions

This operation lists your event actions.

## Request Syntax

```
GET /v1/event-actions?  
eventSourceId=EventSourceId&maxResults=MaxResults&nextToken=NextToken HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### [EventSourceId](#)

The unique identifier for the event source.

### [MaxResults](#)

The maximum number of results returned by a single call.

Valid Range: Minimum value of 1. Maximum value of 200.

### [NextToken](#)

The token value retrieved from a previous call to access the next page of results.

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200  
Content-type: application/json  
  
{  
  "EventActions": [  
    {  
      "Action": {  
        "ExportRevisionToS3": {  
          "Encryption": {  
            "KmsKeyArn": "string",
```

```
        "Type": "string"
      },
      "RevisionDestination": {
        "Bucket": "string",
        "KeyPattern": "string"
      }
    }
  },
  "Arn": "string",
  "CreatedAt": "string",
  "Event": {
    "RevisionPublished": {
      "DataSetId": "string"
    }
  },
  "Id": "string",
  "UpdatedAt": "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.

### EventActions

The event action objects listed by the request.

Type: Array of [EventActionEntry](#) objects

### NextToken

The token value retrieved from a previous call to access the next page of results.

Type: String

## Errors

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

## InternalServerErrorException

An exception occurred with the service.

HTTP Status Code: 500

## ResourceNotFoundException

The resource couldn't be found.

HTTP Status Code: 404

## ThrottlingException

The limit on the number of requests per second was exceeded.

HTTP Status Code: 429

## ValidationException

The request was invalid.

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



```
{
  "Arn": "string",
  "CreatedAt": "string",
  "Details": {
    "CreateS3DataAccessFromS3Bucket": {
      "AssetSource": {
        "Bucket": "string",
        "KeyPrefixes": [ "string" ],
        "Keys": [ "string" ],
        "KmsKeysToGrant": [
          {
            "KmsKeyArn": "string"
          }
        ]
      },
      "DataSetId": "string",
      "RevisionId": "string"
    },
    "ExportAssetsToS3": {
      "AssetDestinations": [
        {
          "AssetId": "string",
          "Bucket": "string",
          "Key": "string"
        }
      ],
      "DataSetId": "string",
      "Encryption": {
        "KmsKeyArn": "string",
        "Type": "string"
      },
      "RevisionId": "string"
    },
    "ExportAssetToSignedUrl": {
      "AssetId": "string",
      "DataSetId": "string",
      "RevisionId": "string",
      "SignedUrl": "string",
      "SignedUrlExpiresAt": "string"
    },
    "ExportRevisionsToS3": {
      "DataSetId": "string",
      "Encryption": {
        "KmsKeyArn": "string",
```

```

    "Type": "string"
  },
  "EventActionArn": "string",
  "RevisionDestinations": [
    {
      "Bucket": "string",
      "KeyPattern": "string",
      "RevisionId": "string"
    }
  ]
},
"ImportAssetFromApiGatewayApi": {
  "ApiDescription": "string",
  "ApiId": "string",
  "ApiKey": "string",
  "ApiName": "string",
  "ApiSpecificationMd5Hash": "string",
  "ApiSpecificationUploadUrl": "string",
  "ApiSpecificationUploadUrlExpiresAt": "string",
  "DataSetId": "string",
  "ProtocolType": "string",
  "RevisionId": "string",
  "Stage": "string"
},
"ImportAssetFromSignedUrl": {
  "AssetName": "string",
  "DataSetId": "string",
  "Md5Hash": "string",
  "RevisionId": "string",
  "SignedUrl": "string",
  "SignedUrlExpiresAt": "string"
},
"ImportAssetsFromLakeFormationTagPolicy": {
  "CatalogId": "string",
  "Database": {
    "Expression": [
      {
        "TagKey": "string",
        "TagValues": [ "string" ]
      }
    ]
  },
  "Permissions": [ "string" ]
},
"DataSetId": "string",

```

```

    "RevisionId": "string",
    "RoleArn": "string",
    "Table": {
      "Expression": [
        {
          "TagKey": "string",
          "TagValues": [ "string" ]
        }
      ],
      "Permissions": [ "string" ]
    }
  },
  "ImportAssetsFromRedshiftDataShares": {
    "AssetSources": [
      {
        "DataShareArn": "string"
      }
    ],
    "DataSetId": "string",
    "RevisionId": "string"
  },
  "ImportAssetsFromS3": {
    "AssetSources": [
      {
        "Bucket": "string",
        "Key": "string"
      }
    ],
    "DataSetId": "string",
    "RevisionId": "string"
  }
},
"Errors": [
  {
    "Code": "string",
    "Details": {
      "ImportAssetFromSignedUrlJobErrorDetails": {
        "AssetName": "string"
      },
      "ImportAssetsFromS3JobErrorDetails": [
        {
          "Bucket": "string",
          "Key": "string"
        }
      ]
    }
  }
]

```

```
    ]
    },
    "LimitName": "string",
    "LimitValue": number,
    "Message": "string",
    "ResourceId": "string",
    "ResourceType": "string"
  }
],
"Id": "string",
"State": "string",
"Type": "string",
"UpdatedAt": "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.

### Jobs

The jobs listed by the request.

Type: Array of [JobEntry](#) objects

### NextToken

The token value retrieved from a previous call to access the next page of results.

Type: String

## Errors

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

### **InternalServerError**

An exception occurred with the service.



HTTP Status Code: 500

### **ResourceNotFoundException**

The resource couldn't be found.

HTTP Status Code: 404

### **ThrottlingException**

The limit on the number of requests per second was exceeded.

HTTP Status Code: 429

### **ValidationException**

The request was invalid.

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

# ListReceivedDataGrants

This operation returns information about all received data grants.

## Request Syntax

```
GET /v1/received-data-grants?  
acceptanceState=AcceptanceState&maxResults=MaxResults&nextToken=NextToken HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### AcceptanceState

The acceptance state of the data grants to list.

Valid Values: PENDING\_RECEIVER\_ACCEPTANCE | ACCEPTED

### MaxResults

The maximum number of results to be included in the next page.

Valid Range: Minimum value of 1. Maximum value of 200.

### NextToken

The pagination token used to retrieve the next page of results for this operation.

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200  
Content-type: application/json  
  
{  
  "DataGrantSummaries": [  
    {
```

```
    "AcceptanceState": "string",
    "AcceptedAt": "string",
    "Arn": "string",
    "CreatedAt": "string",
    "DataSetId": "string",
    "EndsAt": "string",
    "Id": "string",
    "Name": "string",
    "ReceiverPrincipal": "string",
    "SenderPrincipal": "string",
    "UpdatedAt": "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.

### DataGrantSummaries

An object that contains a list of received data grant information.

Type: Array of [ReceivedDataGrantSummariesEntry](#) objects

### NextToken

The pagination token used to retrieve the next page of results for this operation.

Type: String

## Errors

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

### **AccessDeniedException**

Access to the resource is denied.

HTTP Status Code: 403

## InternalServerErrorException

An exception occurred with the service.

HTTP Status Code: 500

## ResourceNotFoundException

The resource couldn't be found.

HTTP Status Code: 404

## ThrottlingException

The limit on the number of requests per second was exceeded.

HTTP Status Code: 429

## ValidationException

The request was invalid.

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

# ListRevisionAssets

This operation lists a revision's assets sorted alphabetically in descending order.

## Request Syntax

```
GET /v1/data-sets/DataSetId/revisions/RevisionId/assets?  
maxResults=MaxResults&nextToken=NextToken HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### DataSetId

The unique identifier for a data set.

Required: Yes

### MaxResults

The maximum number of results returned by a single call.

Valid Range: Minimum value of 1. Maximum value of 200.

### NextToken

The token value retrieved from a previous call to access the next page of results.

### RevisionId

The unique identifier for a revision.

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

```

{
  "Assets": [
    {
      "Arn": "string",
      "AssetDetails": {
        "ApiGatewayApiAsset": {
          "ApiDescription": "string",
          "ApiEndpoint": "string",
          "ApiId": "string",
          "ApiKey": "string",
          "ApiName": "string",
          "ApiSpecificationDownloadUrl": "string",
          "ApiSpecificationDownloadUrlExpiresAt": "string",
          "ProtocolType": "string",
          "Stage": "string"
        },
        "LakeFormationDataPermissionAsset": {
          "LakeFormationDataPermissionDetails": {
            "LFTagPolicy": {
              "CatalogId": "string",
              "ResourceDetails": {
                "Database": {
                  "Expression": [
                    {
                      "TagKey": "string",
                      "TagValues": [ "string" ]
                    }
                  ]
                },
              "Table": {
                "Expression": [
                  {
                    "TagKey": "string",
                    "TagValues": [ "string" ]
                  }
                ]
              }
            },
            "ResourceType": "string"
          }
        },
        "LakeFormationDataPermissionType": "string",
        "Permissions": [ "string" ],
        "RoleArn": "string"
      }
    }
  ]
}

```

```

    },
    "RedshiftDataShareAsset": {
      "Arn": "string"
    },
    "S3DataAccessAsset": {
      "Bucket": "string",
      "KeyPrefixes": [ "string" ],
      "Keys": [ "string" ],
      "KmsKeysToGrant": [
        {
          "KmsKeyArn": "string"
        }
      ],
      "S3AccessPointAlias": "string",
      "S3AccessPointArn": "string"
    },
    "S3SnapshotAsset": {
      "Size": number
    }
  },
  "AssetType": "string",
  "CreatedAt": "string",
  "DataSetId": "string",
  "Id": "string",
  "Name": "string",
  "RevisionId": "string",
  "SourceId": "string",
  "UpdatedAt": "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.

### Assets

The asset objects listed by the request.

Type: Array of [AssetEntry](#) objects

## **NextToken**

The token value retrieved from a previous call to access the next page of results.

Type: String

## **Errors**

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

### **InternalServerErrorException**

An exception occurred with the service.

HTTP Status Code: 500

### **ResourceNotFoundException**

The resource couldn't be found.

HTTP Status Code: 404

### **ThrottlingException**

The limit on the number of requests per second was exceeded.

HTTP Status Code: 429

### **ValidationException**

The request was invalid.

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

# ListTagsForResource

This operation lists the tags on the resource.

## Request Syntax

```
GET /tags/ResourceArn HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### ResourceArn

An Amazon Resource Name (ARN) that uniquely identifies an AWS resource.

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

A label that consists of a customer-defined key and an optional value.

Type: String to string map

## Errors

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

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

# RevokeRevision

This operation revokes subscribers' access to a revision.

## Request Syntax

```
POST /v1/data-sets/DataSetId/revisions/RevisionId/revoke HTTP/1.1
Content-type: application/json

{
  "RevocationComment": "string"
}
```

## URI Request Parameters

The request uses the following URI parameters.

### DataSetId

The unique identifier for a data set.

Required: Yes

### RevisionId

The unique identifier for a revision.

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### RevocationComment

A required comment to inform subscribers of the reason their access to the revision was revoked.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 512.

Required: Yes

## Response Syntax

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

{
  "Arn": "string",
  "Comment": "string",
  "CreatedAt": "string",
  "DataSetId": "string",
  "Finalized": boolean,
  "Id": "string",
  "RevocationComment": "string",
  "Revoked": boolean,
  "RevokedAt": "string",
  "SourceId": "string",
  "UpdatedAt": "string"
}
```

## Response Elements

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

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

### [Arn](#)

The ARN for the revision.

Type: String

### [Comment](#)

An optional comment about the revision.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 16384.

### [CreatedAt](#)

The date and time that the revision was created, in ISO 8601 format.

Type: Timestamp

### DataSetId

The unique identifier for the data set associated with the data set revision.

Type: String

### Finalized

To publish a revision to a data set in a product, the revision must first be finalized. Finalizing a revision tells AWS Data Exchange that changes to the assets in the revision are complete. After it's in this read-only state, you can publish the revision to your products. Finalized revisions can be published through the AWS Data Exchange console or the AWS Marketplace Catalog API, using the StartChangeSet AWS Marketplace Catalog API action. When using the API, revisions are uniquely identified by their ARN.

Type: Boolean

### Id

The unique identifier for the revision.

Type: String

### RevocationComment

A required comment to inform subscribers of the reason their access to the revision was revoked.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 512.

### Revoked

A status indicating that subscribers' access to the revision was revoked.

Type: Boolean

### RevokedAt

The date and time that the revision was revoked, in ISO 8601 format.

Type: Timestamp

## **SourceId**

The revision ID of the owned revision corresponding to the entitled revision being viewed. This parameter is returned when a revision owner is viewing the entitled copy of its owned revision.

Type: String

## **UpdatedAt**

The date and time that the revision was last updated, in ISO 8601 format.

Type: Timestamp

## **Errors**

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

### **AccessDeniedException**

Access to the resource is denied.

HTTP Status Code: 403

### **ConflictException**

The request couldn't be completed because it conflicted with the current state of the resource.

HTTP Status Code: 409

### **InternalServerError**

An exception occurred with the service.

HTTP Status Code: 500

### **ResourceNotFoundException**

The resource couldn't be found.

HTTP Status Code: 404

### **ThrottlingException**

The limit on the number of requests per second was exceeded.

HTTP Status Code: 429

## ValidationException

The request was invalid.

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



# SendApiAsset

This operation invokes an API Gateway API asset. The request is proxied to the provider's API Gateway API.

## Request Syntax

```
POST /v1?QueryStringParameters HTTP/1.1
x-amzn-dataexchange-asset-id: AssetId
x-amzn-dataexchange-data-set-id: DataSetId
x-amzn-dataexchange-http-method: Method
x-amzn-dataexchange-path: Path
x-amzn-dataexchange-revision-id: RevisionId
```

*Body*

## URI Request Parameters

The request uses the following URI parameters.

### [AssetId](#)

Asset ID value for the API request.

Required: Yes

### [DataSetId](#)

Data set ID value for the API request.

Required: Yes

### [Method](#)

HTTP method value for the API request. Alternatively, you can use the appropriate verb in your request.

### [Path](#)

URI path value for the API request. Alternatively, you can set the URI path directly by invoking /v1/{pathValue}.

## QueryStringParameters

Attach query string parameters to the end of the URI (for example, /v1/examplePath?exampleParam=exampleValue).

## RevisionId

Revision ID value for the API request.

Required: Yes

## Request Body

The request accepts the following string data.

### Body

The request body.

## Response Syntax

```
HTTP/1.1 200
```

*Body*

## Response Elements

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

The response returns the following as the HTTP body.

### Body

The response body from the underlying API tracked by the API asset.

## Errors

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

## AccessDeniedException

Access to the resource is denied.

HTTP Status Code: 403

## InternalServerError

An exception occurred with the service.

HTTP Status Code: 500

## ResourceNotFoundException

The resource couldn't be found.

HTTP Status Code: 404

## ThrottlingException

The limit on the number of requests per second was exceeded.

HTTP Status Code: 429

## ValidationException

The request was invalid.

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 Kotlin](#)

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

# SendDataSetNotification

The type of event associated with the data set.

## Request Syntax

```
POST /v1/data-sets/DataSetId/notification HTTP/1.1
```

```
Content-type: application/json
```

```
{
  "ClientToken": "string",
  "Comment": "string",
  "Details": {
    "DataUpdate": {
      "DataUpdatedAt": "string"
    },
    "Deprecation": {
      "DeprecationAt": "string"
    },
    "SchemaChange": {
      "Changes": [
        {
          "Description": "string",
          "Name": "string",
          "Type": "string"
        }
      ],
      "SchemaChangeAt": "string"
    }
  },
  "Scope": {
    "LakeFormationTagPolicies": [
      {
        "Database": "string",
        "Table": "string"
      }
    ],
    "RedshiftDataShares": [
      {
        "Arn": "string",
        "Database": "string",
        "Function": "string",
        "Schema": "string",

```

```
    "Table": "string",
    "View": "string"
  }
],
"S3DataAccesses": [
  {
    "KeyPrefixes": [ "string" ],
    "Keys": [ "string" ]
  }
]
},
"Type": "string"
}
```

## URI Request Parameters

The request uses the following URI parameters.

### DataSetId

Affected data set of the notification.

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### ClientToken

Idempotency key for the notification, this key allows us to deduplicate notifications that are sent in quick succession erroneously.

Type: String

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

Pattern: `[\x21-\x7E]{1,64}`

Required: No

### Comment

Free-form text field for providers to add information about their notifications.

Type: String

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

Required: No

### Details

Extra details specific to this notification type.

Type: [NotificationDetails](#) object

Required: No

### Scope

Affected scope of this notification such as the underlying resources affected by the notification event.

Type: [ScopeDetails](#) object

Required: No

### Type

The type of the notification. Describing the kind of event the notification is alerting you to.

Type: String

Valid Values: DATA\_DELAY | DATA\_UPDATE | DEPRECATION | SCHEMA\_CHANGE

Required: Yes

## Response Syntax

```
HTTP/1.1 202
```

## Response Elements

If the action is successful, the service sends back an HTTP 202 response with an empty HTTP body.

## Errors

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

## **AccessDeniedException**

Access to the resource is denied.

HTTP Status Code: 403

## **ConflictException**

The request couldn't be completed because it conflicted with the current state of the resource.

HTTP Status Code: 409

## **InternalServerErrorException**

An exception occurred with the service.

HTTP Status Code: 500

## **ResourceNotFoundException**

The resource couldn't be found.

HTTP Status Code: 404

## **ThrottlingException**

The limit on the number of requests per second was exceeded.

HTTP Status Code: 429

## **ValidationException**

The request was invalid.

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

# StartJob

This operation starts a job.

## Request Syntax

```
PATCH /v1/jobs/JobId HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### JobId

The unique identifier for a job.

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 202
```

## Response Elements

If the action is successful, the service sends back an HTTP 202 response with an empty HTTP body.

## Errors

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

### **AccessDeniedException**

Access to the resource is denied.

HTTP Status Code: 403

## **ConflictException**

The request couldn't be completed because it conflicted with the current state of the resource.

HTTP Status Code: 409

## **InternalServerErrorException**

An exception occurred with the service.

HTTP Status Code: 500

## **ResourceNotFoundException**

The resource couldn't be found.

HTTP Status Code: 404

## **ThrottlingException**

The limit on the number of requests per second was exceeded.

HTTP Status Code: 429

## **ValidationException**

The request was invalid.

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 Kotlin](#)

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

# TagResource

This operation tags a resource.

## 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

An Amazon Resource Name (ARN) that uniquely identifies an AWS resource.

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### tags

A label that consists of a customer-defined key and an optional value.

Type: String to string map

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](#).

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

# UntagResource

This operation removes one or more tags from a resource.

## Request Syntax

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

## URI Request Parameters

The request uses the following URI parameters.

### ResourceArn

An Amazon Resource Name (ARN) that uniquely identifies an AWS resource.

Required: Yes

### TagKeys

The key tags.

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](#).

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



# UpdateAsset

This operation updates an asset.

## Request Syntax

```
PATCH /v1/data-sets/DataSetId/revisions/RevisionId/assets/AssetId HTTP/1.1  
Content-type: application/json
```

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

## URI Request Parameters

The request uses the following URI parameters.

### AssetId

The unique identifier for an asset.

Required: Yes

### DataSetId

The unique identifier for a data set.

Required: Yes

### RevisionId

The unique identifier for a revision.

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### Name

The name of the asset. When importing from Amazon S3, the Amazon S3 object key is used as the asset name. When exporting to Amazon S3, the asset name is used as default target

Amazon S3 object key. When importing from Amazon API Gateway API, the API name is used as the asset name. When importing from Amazon Redshift, the datashare name is used as the asset name. When importing from AWS Lake Formation, the static values of "Database(s) included in the LF-tag policy" or "Table(s) included in LF-tag policy" are used as the name.

Type: String

Required: Yes

## Response Syntax

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

{
  "Arn": "string",
  "AssetDetails": {
    "ApiGatewayApiAsset": {
      "ApiDescription": "string",
      "ApiEndpoint": "string",
      "ApiId": "string",
      "ApiKey": "string",
      "ApiName": "string",
      "ApiSpecificationDownloadUrl": "string",
      "ApiSpecificationDownloadUrlExpiresAt": "string",
      "ProtocolType": "string",
      "Stage": "string"
    },
    "LakeFormationDataPermissionAsset": {
      "LakeFormationDataPermissionDetails": {
        "LFTagPolicy": {
          "CatalogId": "string",
          "ResourceDetails": {
            "Database": {
              "Expression": [
                {
                  "TagKey": "string",
                  "TagValues": [ "string" ]
                }
              ]
            }
          }
        },
        "Table": {
```

```

        "Expression": [
            {
                "TagKey": "string",
                "TagValues": [ "string" ]
            }
        ]
    },
    "ResourceType": "string"
}
},
"LakeFormationDataPermissionType": "string",
"Permissions": [ "string" ],
"RoleArn": "string"
},
"RedshiftDataShareAsset": {
    "Arn": "string"
},
"S3DataAccessAsset": {
    "Bucket": "string",
    "KeyPrefixes": [ "string" ],
    "Keys": [ "string" ],
    "KmsKeysToGrant": [
        {
            "KmsKeyArn": "string"
        }
    ],
    "S3AccessPointAlias": "string",
    "S3AccessPointArn": "string"
},
"S3SnapshotAsset": {
    "Size": number
}
},
"AssetType": "string",
"CreatedAt": "string",
"DataSetId": "string",
"Id": "string",
"Name": "string",
"RevisionId": "string",
"SourceId": "string",
"UpdatedAt": "string"
}

```

## Response Elements

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

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

### Arn

The ARN for the asset.

Type: String

### AssetDetails

Details about the asset.

Type: [AssetDetails](#) object

### AssetType

The type of asset that is added to a data set.

Type: String

Valid Values: S3\_SNAPSHOT | REDSHIFT\_DATA\_SHARE | API\_GATEWAY\_API | S3\_DATA\_ACCESS | LAKE\_FORMATION\_DATA\_PERMISSION

### CreatedAt

The date and time that the asset was created, in ISO 8601 format.

Type: Timestamp

### DataSetId

The unique identifier for the data set associated with this asset.

Type: String

### Id

The unique identifier for the asset.

Type: String

## Name

The name of the asset. When importing from Amazon S3, the Amazon S3 object key is used as the asset name. When exporting to Amazon S3, the asset name is used as default target Amazon S3 object key. When importing from Amazon API Gateway API, the API name is used as the asset name. When importing from Amazon Redshift, the datashare name is used as the asset name. When importing from AWS Lake Formation, the static values of "Database(s) included in the LF-tag policy"- or "Table(s) included in LF-tag policy" are used as the asset name.

Type: String

## RevisionId

The unique identifier for the revision associated with this asset.

Type: String

## SourceId

The asset ID of the owned asset corresponding to the entitled asset being viewed. This parameter is returned when an asset owner is viewing the entitled copy of its owned asset.

Type: String

## UpdatedAt

The date and time that the asset was last updated, in ISO 8601 format.

Type: Timestamp

## Errors

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

### **AccessDeniedException**

Access to the resource is denied.

HTTP Status Code: 403

### **ConflictException**

The request couldn't be completed because it conflicted with the current state of the resource.

HTTP Status Code: 409

### **InternalServerErrorException**

An exception occurred with the service.

HTTP Status Code: 500

### **ResourceNotFoundException**

The resource couldn't be found.

HTTP Status Code: 404

### **ThrottlingException**

The limit on the number of requests per second was exceeded.

HTTP Status Code: 429

### **ValidationException**

The request was invalid.

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



# UpdateDataSet

This operation updates a data set.

## Request Syntax

```
PATCH /v1/data-sets/DataSetId HTTP/1.1
Content-type: application/json

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

## URI Request Parameters

The request uses the following URI parameters.

### DataSetId

The unique identifier for a data set.

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### Description

The description for the data set.

Type: String

Required: No

### Name

The name of the data set.

Type: String



Required: No

## Response Syntax

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

{
  "Arn": "string",
  "AssetType": "string",
  "CreatedAt": "string",
  "Description": "string",
  "Id": "string",
  "Name": "string",
  "Origin": "string",
  "OriginDetails": {
    "DataGrantId": "string",
    "ProductId": "string"
  },
  "SourceId": "string",
  "UpdatedAt": "string"
}
```

## Response Elements

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

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

### Arn

The ARN for the data set.

Type: String

### AssetType

The type of asset that is added to a data set.

Type: String

Valid Values: S3\_SNAPSHOT | REDSHIFT\_DATA\_SHARE | API\_GATEWAY\_API |  
S3\_DATA\_ACCESS | LAKE\_FORMATION\_DATA\_PERMISSION

## CreatedAt

The date and time that the data set was created, in ISO 8601 format.

Type: Timestamp

## Description

The description for the data set.

Type: String

## Id

The unique identifier for the data set.

Type: String

## Name

The name of the data set.

Type: String

## Origin

A property that defines the data set as OWNED by the account (for providers) or ENTITLED to the account (for subscribers).

Type: String

Valid Values: OWNED | ENTITLED

## OriginDetails

If the origin of this data set is ENTITLED, includes the details for the product on AWS Marketplace.

Type: [OriginDetails](#) object

## SourceId

The data set ID of the owned data set corresponding to the entitled data set being viewed. This parameter is returned when a data set owner is viewing the entitled copy of its owned data set.

Type: String

## **UpdatedAt**

The date and time that the data set was last updated, in ISO 8601 format.

Type: Timestamp

## **Errors**

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

### **AccessDeniedException**

Access to the resource is denied.

HTTP Status Code: 403

### **InternalServerErrorException**

An exception occurred with the service.

HTTP Status Code: 500

### **ResourceNotFoundException**

The resource couldn't be found.

HTTP Status Code: 404

### **ThrottlingException**

The limit on the number of requests per second was exceeded.

HTTP Status Code: 429

### **ValidationException**

The request was invalid.

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

# UpdateEventAction

This operation updates the event action.

## Request Syntax

```
PATCH /v1/event-actions/EventActionId HTTP/1.1
Content-type: application/json
```

```
{
  "Action": {
    "ExportRevisionToS3": {
      "Encryption": {
        "KmsKeyArn": "string",
        "Type": "string"
      },
      "RevisionDestination": {
        "Bucket": "string",
        "KeyPattern": "string"
      }
    }
  }
}
```

## URI Request Parameters

The request uses the following URI parameters.

### EventActionId

The unique identifier for the event action.

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### Action

What occurs after a certain event.

Type: [Action](#) object

Required: No

## Response Syntax

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

{
  "Action": {
    "ExportRevisionToS3": {
      "Encryption": {
        "KmsKeyArn": "string",
        "Type": "string"
      },
      "RevisionDestination": {
        "Bucket": "string",
        "KeyPattern": "string"
      }
    }
  },
  "Arn": "string",
  "CreatedAt": "string",
  "Event": {
    "RevisionPublished": {
      "DataSetId": "string"
    }
  },
  "Id": "string",
  "UpdatedAt": "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.

### [Action](#)

What occurs after a certain event.

Type: [Action](#) object

### [Arn](#)

The ARN for the event action.

Type: String

### [CreatedAt](#)

The date and time that the event action was created, in ISO 8601 format.

Type: Timestamp

### [Event](#)

What occurs to start an action.

Type: [Event](#) object

### [Id](#)

The unique identifier for the event action.

Type: String

### [UpdatedAt](#)

The date and time that the event action was last updated, in ISO 8601 format.

Type: Timestamp

## Errors

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

### **AccessDeniedException**

Access to the resource is denied.

HTTP Status Code: 403

### **InternalServerErrorException**

An exception occurred with the service.

HTTP Status Code: 500

## ResourceNotFoundException

The resource couldn't be found.

HTTP Status Code: 404

## ThrottlingException

The limit on the number of requests per second was exceeded.

HTTP Status Code: 429

## ValidationException

The request was invalid.

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



# UpdateRevision

This operation updates a revision.

## Request Syntax

```
PATCH /v1/data-sets/DataSetId/revisions/RevisionId HTTP/1.1
Content-type: application/json

{
  "Comment": "string",
  "Finalized": boolean
}
```

## URI Request Parameters

The request uses the following URI parameters.

### DataSetId

The unique identifier for a data set.

Required: Yes

### RevisionId

The unique identifier for a revision.

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### Comment

An optional comment about the revision.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 16384.

Required: No

## Finalized

Finalizing a revision tells AWS Data Exchange that your changes to the assets in the revision are complete. After it's in this read-only state, you can publish the revision to your products.

Type: Boolean

Required: No

## Response Syntax

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

{
  "Arn": "string",
  "Comment": "string",
  "CreatedAt": "string",
  "DataSetId": "string",
  "Finalized": boolean,
  "Id": "string",
  "RevocationComment": "string",
  "Revoked": boolean,
  "RevokedAt": "string",
  "SourceId": "string",
  "UpdatedAt": "string"
}
```

## Response Elements

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

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

### Arn

The ARN for the revision.

Type: String

## Comment

An optional comment about the revision.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 16384.

## CreatedAt

The date and time that the revision was created, in ISO 8601 format.

Type: Timestamp

## DataSetId

The unique identifier for the data set associated with the data set revision.

Type: String

## Finalized

To publish a revision to a data set in a product, the revision must first be finalized. Finalizing a revision tells AWS Data Exchange that changes to the assets in the revision are complete. After it's in this read-only state, you can publish the revision to your products. Finalized revisions can be published through the AWS Data Exchange console or the AWS Marketplace Catalog API, using the StartChangeSet AWS Marketplace Catalog API action. When using the API, revisions are uniquely identified by their ARN.

Type: Boolean

## Id

The unique identifier for the revision.

Type: String

## RevocationComment

A required comment to inform subscribers of the reason their access to the revision was revoked.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 512.

## Revoked

A status indicating that subscribers' access to the revision was revoked.

Type: Boolean

## RevokedAt

The date and time that the revision was revoked, in ISO 8601 format.

Type: Timestamp

## SourceId

The revision ID of the owned revision corresponding to the entitled revision being viewed. This parameter is returned when a revision owner is viewing the entitled copy of its owned revision.

Type: String

## UpdatedAt

The date and time that the revision was last updated, in ISO 8601 format.

Type: Timestamp

## Errors

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

### **AccessDeniedException**

Access to the resource is denied.

HTTP Status Code: 403

### **ConflictException**

The request couldn't be completed because it conflicted with the current state of the resource.

HTTP Status Code: 409

### **InternalServerErrorException**

An exception occurred with the service.

HTTP Status Code: 500

## ResourceNotFoundException

The resource couldn't be found.

HTTP Status Code: 404

## ThrottlingException

The limit on the number of requests per second was exceeded.

HTTP Status Code: 429

## ValidationException

The request was invalid.

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

# Data Types

The AWS Data Exchange 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](#)
- [ApiGatewayApiAsset](#)
- [AssetDestinationEntry](#)
- [AssetDetails](#)
- [AssetEntry](#)
- [AssetSourceEntry](#)
- [AutoExportRevisionDestinationEntry](#)
- [AutoExportRevisionToS3RequestDetails](#)
- [CreateS3DataAccessFromS3BucketRequestDetails](#)
- [CreateS3DataAccessFromS3BucketResponseDetails](#)
- [DatabaseLFTagPolicy](#)
- [DatabaseLFTagPolicyAndPermissions](#)
- [DataGrantSummaryEntry](#)
- [DataSetEntry](#)
- [DataUpdateRequestDetails](#)
- [DeprecationRequestDetails](#)
- [Details](#)
- [Event](#)
- [EventActionEntry](#)
- [ExportAssetsToS3RequestDetails](#)

- [ExportAssetsToS3ResponseDetails](#)
- [ExportAssetToSignedUrlRequestDetails](#)
- [ExportAssetToSignedUrlResponseDetails](#)
- [ExportRevisionsToS3RequestDetails](#)
- [ExportRevisionsToS3ResponseDetails](#)
- [ExportServerSideEncryption](#)
- [ImportAssetFromApiGatewayApiRequestDetails](#)
- [ImportAssetFromApiGatewayApiResponseDetails](#)
- [ImportAssetFromSignedUrlJobErrorDetails](#)
- [ImportAssetFromSignedUrlRequestDetails](#)
- [ImportAssetFromSignedUrlResponseDetails](#)
- [ImportAssetsFromLakeFormationTagPolicyRequestDetails](#)
- [ImportAssetsFromLakeFormationTagPolicyResponseDetails](#)
- [ImportAssetsFromRedshiftDataSharesRequestDetails](#)
- [ImportAssetsFromRedshiftDataSharesResponseDetails](#)
- [ImportAssetsFromS3RequestDetails](#)
- [ImportAssetsFromS3ResponseDetails](#)
- [JobEntry](#)
- [JobError](#)
- [KmsKeyToGrant](#)
- [LakeFormationDataPermissionAsset](#)
- [LakeFormationDataPermissionDetails](#)
- [LakeFormationTagPolicyDetails](#)
- [LFResourceDetails](#)
- [LFTag](#)
- [LFTagPolicyDetails](#)
- [NotificationDetails](#)
- [OriginDetails](#)
- [ReceivedDataGrantSummariesEntry](#)
- [RedshiftDataShareAsset](#)

- [RedshiftDataShareAssetSourceEntry](#)
- [RedshiftDataShareDetails](#)
- [RequestDetails](#)
- [ResponseDetails](#)
- [RevisionDestinationEntry](#)
- [RevisionEntry](#)
- [RevisionPublished](#)
- [S3DataAccessAsset](#)
- [S3DataAccessAssetSourceEntry](#)
- [S3DataAccessDetails](#)
- [S3SnapshotAsset](#)
- [SchemaChangeDetails](#)
- [SchemaChangeRequestDetails](#)
- [ScopeDetails](#)
- [TableLFTagPolicy](#)
- [TableLFTagPolicyAndPermissions](#)



# Action

What occurs after a certain event.

## Contents

### ExportRevisionToS3

Details for the export revision to Amazon S3 action.

Type: [AutoExportRevisionToS3RequestDetails](#) 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](#)

# ApiGatewayApiAsset

The API Gateway API that is the asset.

## Contents

### ApiDescription

The API description of the API asset.

Type: String

Required: No

### ApiEndpoint

The API endpoint of the API asset.

Type: String

Required: No

### ApiId

The unique identifier of the API asset.

Type: String

Required: No

### ApiKey

The API key of the API asset.

Type: String

Required: No

### ApiName

The API name of the API asset.

Type: String

Required: No

## ApiSpecificationDownloadUrl

The download URL of the API specification of the API asset.

Type: String

Required: No

## ApiSpecificationDownloadUrlExpiresAt

The date and time that the upload URL expires, in ISO 8601 format.

Type: Timestamp

Required: No

## ProtocolType

The protocol type of the API asset.

Type: String

Valid Values: REST

Required: No

## Stage

The stage of the API asset.

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](#)

# AssetDestinationEntry

The destination for the asset.

## Contents

### AssetId

The unique identifier for the asset.

Type: String

Required: Yes

### Bucket

The Amazon S3 bucket that is the destination for the asset.

Type: String

Required: Yes

### Key

The name of the object in Amazon S3 for the asset.

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](#)

# AssetDetails

Details about the asset.

## Contents

### ApiGatewayApiAsset

Information about the API Gateway API asset.

Type: [ApiGatewayApiAsset](#) object

Required: No

### LakeFormationDataPermissionAsset

The AWS Lake Formation data permission that is the asset.

Type: [LakeFormationDataPermissionAsset](#) object

Required: No

### RedshiftDataShareAsset

The Amazon Redshift datashare that is the asset.

Type: [RedshiftDataShareAsset](#) object

Required: No

### S3DataAccessAsset

The Amazon S3 data access that is the asset.

Type: [S3DataAccessAsset](#) object

Required: No

### S3SnapshotAsset

The Amazon S3 object that is the asset.

Type: [S3SnapshotAsset](#) 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](#)

# AssetEntry

An asset in AWS Data Exchange is a piece of data (Amazon S3 object) or a means of fulfilling data (Amazon Redshift datashare or Amazon API Gateway API, AWS Lake Formation data permission, or Amazon S3 data access). The asset can be a structured data file, an image file, or some other data file that can be stored as an Amazon S3 object, an Amazon API Gateway API, or an Amazon Redshift datashare, an AWS Lake Formation data permission, or an Amazon S3 data access. When you create an import job for your files, API Gateway APIs, Amazon Redshift datashares, AWS Lake Formation data permission, or Amazon S3 data access, you create an asset in AWS Data Exchange.

## Contents

### Arn

The ARN for the asset.

Type: String

Required: Yes

### AssetDetails

Details about the asset.

Type: [AssetDetails](#) object

Required: Yes

### AssetType

The type of asset that is added to a data set.

Type: String

Valid Values: S3\_SNAPSHOT | REDSHIFT\_DATA\_SHARE | API\_GATEWAY\_API | S3\_DATA\_ACCESS | LAKE\_FORMATION\_DATA\_PERMISSION

Required: Yes

### CreatedAt

The date and time that the asset was created, in ISO 8601 format.

Type: Timestamp

Required: Yes

### **DataSetId**

The unique identifier for the data set associated with this asset.

Type: String

Required: Yes

### **Id**

The unique identifier for the asset.

Type: String

Required: Yes

### **Name**

The name of the asset. When importing from Amazon S3, the Amazon S3 object key is used as the asset name. When exporting to Amazon S3, the asset name is used as default target Amazon S3 object key. When importing from Amazon API Gateway API, the API name is used as the asset name. When importing from Amazon Redshift, the datashare name is used as the asset name. When importing from AWS Lake Formation, the static values of "Database(s) included in LF-tag policy" or "Table(s) included in LF-tag policy" are used as the asset name.

Type: String

Required: Yes

### **RevisionId**

The unique identifier for the revision associated with this asset.

Type: String

Required: Yes

### **UpdatedAt**

The date and time that the asset was last updated, in ISO 8601 format.

Type: Timestamp

Required: Yes



## SourceId

The asset ID of the owned asset corresponding to the entitled asset being viewed. This parameter is returned when an asset owner is viewing the entitled copy of its owned asset.

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](#)

# AssetSourceEntry

The source of the assets.

## Contents

### Bucket

The Amazon S3 bucket that's part of the source of the asset.

Type: String

Required: Yes

### Key

The name of the object in Amazon S3 for the asset.

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](#)

# AutoExportRevisionDestinationEntry

A revision destination is the Amazon S3 bucket folder destination to where the export will be sent.

## Contents

### Bucket

The Amazon S3 bucket that is the destination for the event action.

Type: String

Required: Yes

### KeyPattern

A string representing the pattern for generated names of the individual assets in the revision. For more information about key patterns, see [Key patterns when exporting revisions](#).

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](#)

# AutoExportRevisionToS3RequestDetails

Details of the operation to be performed by the job.

## Contents

### RevisionDestination

A revision destination is the Amazon S3 bucket folder destination to where the export will be sent.

Type: [AutoExportRevisionDestinationEntry](#) object

Required: Yes

### Encryption

Encryption configuration for the auto export job.

Type: [ExportServerSideEncryption](#) 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](#)

# CreateS3DataAccessFromS3BucketRequestDetails

Details of the operation to create an Amazon S3 data access from an S3 bucket.

## Contents

### AssetSource

Details about the S3 data access source asset.

Type: [S3DataAccessAssetSourceEntry](#) object

Required: Yes

### DataSetId

The unique identifier for the data set associated with the creation of this Amazon S3 data access.

Type: String

Required: Yes

### RevisionId

The unique identifier for a revision.

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](#)

# CreateS3DataAccessFromS3BucketResponseDetails

Details about the response of the operation to create an S3 data access from an S3 bucket.

## Contents

### AssetSource

Details about the asset source from an Amazon S3 bucket.

Type: [S3DataAccessAssetSourceEntry](#) object

Required: Yes

### DataSetId

The unique identifier for this data set.

Type: String

Required: Yes

### RevisionId

The unique identifier for the revision.

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](#)

# DatabaseLFTagPolicy

The LF-tag policy for database resources.

## Contents

### Expression

A list of LF-tag conditions that apply to database resources.

Type: Array of [LFTag](#) objects

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](#)

# DatabaseLFTagPolicyAndPermissions

The LF-tag policy and permissions for database resources.

## Contents

### Expression

A list of LF-tag conditions that apply to database resources.

Type: Array of [LFTag](#) objects

Required: Yes

### Permissions

The permissions granted to subscribers on database resources.

Type: Array of strings

Valid Values: DESCRIBE

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](#)



# DataGrantSummaryEntry

Information about a data grant.

## Contents

### AcceptanceState

The acceptance state of the data grant.

Type: String

Valid Values: PENDING\_RECEIVER\_ACCEPTANCE | ACCEPTED

Required: Yes

### Arn

The Amazon Resource Name (ARN) of the data grant.

Type: String

Required: Yes

### CreatedAt

The timestamp of when the data grant was created.

Type: Timestamp

Required: Yes

### DataSetId

The ID of the data set associated to the data grant.

Type: String

Required: Yes

### Id

The ID of the data grant.

Type: String

Required: Yes

### **Name**

The name of the data grant.

Type: String

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

Required: Yes

### **ReceiverPrincipal**

The AWS account ID of the data grant receiver.

Type: String

Pattern: `\d{12}`

Required: Yes

### **SenderPrincipal**

The AWS account ID of the data grant sender.

Type: String

Pattern: `\d{12}`

Required: Yes

### **SourceDataSetId**

The ID of the data set used to create the data grant.

Type: String

Required: Yes

### **UpdatedAt**

The timestamp of when the data grant was last updated.

Type: Timestamp

Required: Yes

## AcceptedAt

The timestamp of when the data grant was accepted.

Type: Timestamp

Required: No

## EndsAt

The timestamp of when access to the associated data set ends.

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](#)

# DataSetEntry

A data set is an AWS resource with one or more revisions.

## Contents

### Arn

The ARN for the data set.

Type: String

Required: Yes

### AssetType

The type of asset that is added to a data set.

Type: String

Valid Values: S3\_SNAPSHOT | REDSHIFT\_DATA\_SHARE | API\_GATEWAY\_API | S3\_DATA\_ACCESS | LAKE\_FORMATION\_DATA\_PERMISSION

Required: Yes

### CreatedAt

The date and time that the data set was created, in ISO 8601 format.

Type: Timestamp

Required: Yes

### Description

The description for the data set.

Type: String

Required: Yes

### Id

The unique identifier for the data set.

Type: String

Required: Yes

## Name

The name of the data set.

Type: String

Required: Yes

## Origin

A property that defines the data set as OWNED by the account (for providers) or ENTITLED to the account (for subscribers).

Type: String

Valid Values: OWNED | ENTITLED

Required: Yes

## UpdatedAt

The date and time that the data set was last updated, in ISO 8601 format.

Type: Timestamp

Required: Yes

## OriginDetails

If the origin of this data set is ENTITLED, includes the details for the product on AWS Marketplace.

Type: [OriginDetails](#) object

Required: No

## SourceId

The data set ID of the owned data set corresponding to the entitled data set being viewed. This parameter is returned when a data set owner is viewing the entitled copy of its owned data set.

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](#)

# DataUpdateRequestDetails

Extra details specific to a data update type notification.

## Contents

### DataUpdatedAt

A datetime in the past when the data was updated. This typically means that the underlying resource supporting the data set was updated.

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](#)

# DeprecationRequestDetails

Extra details specific to a deprecation type notification.

## Contents

### DeprecationAt

A datetime in the future when the data set will be deprecated.

Type: Timestamp

Required: Yes

## See Also

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

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



## Details

Information about the job error.

## Contents

### ImportAssetFromSignedUrlJobErrorDetails

Information about the job error.

Type: [ImportAssetFromSignedUrlJobErrorDetails](#) object

Required: No

### ImportAssetsFromS3JobErrorDetails

Details about the job error.

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

# Event

What occurs to start an action.

## Contents

### RevisionPublished

What occurs to start the revision publish action.

Type: [RevisionPublished](#) 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](#)

# EventActionEntry

An event action is an object that defines the relationship between a specific event and an automated action that will be taken on behalf of the customer.

## Contents

### Action

What occurs after a certain event.

Type: [Action](#) object

Required: Yes

### Arn

The Amazon Resource Name (ARN) for the event action.

Type: String

Required: Yes

### CreatedAt

The date and time that the event action was created, in ISO 8601 format.

Type: Timestamp

Required: Yes

### Event

What occurs to start an action.

Type: [Event](#) object

Required: Yes

### Id

The unique identifier for the event action.

Type: String

Required: Yes

## UpdatedAt

The date and time that the event action was last updated, in ISO 8601 format.

Type: Timestamp

Required: Yes

## See Also

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

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

# ExportAssetsToS3RequestDetails

Details of the operation to be performed by the job.

## Contents

### AssetDestinations

The destination for the asset.

Type: Array of [AssetDestinationEntry](#) objects

Required: Yes

### DataSetId

The unique identifier for the data set associated with this export job.

Type: String

Required: Yes

### RevisionId

The unique identifier for the revision associated with this export request.

Type: String

Required: Yes

### Encryption

Encryption configuration for the export job.

Type: [ExportServerSideEncryption](#) 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](#)

# ExportAssetsToS3ResponseDetails

Details about the export to Amazon S3 response.

## Contents

### AssetDestinations

The destination in Amazon S3 where the asset is exported.

Type: Array of [AssetDestinationEntry](#) objects

Required: Yes

### DataSetId

The unique identifier for the data set associated with this export job.

Type: String

Required: Yes

### RevisionId

The unique identifier for the revision associated with this export response.

Type: String

Required: Yes

### Encryption

Encryption configuration of the export job.

Type: [ExportServerSideEncryption](#) 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](#)



# ExportAssetToSignedUrlRequestDetails

Details of the operation to be performed by the job.

## Contents

### AssetId

The unique identifier for the asset that is exported to a signed URL.

Type: String

Required: Yes

### DataSetId

The unique identifier for the data set associated with this export job.

Type: String

Required: Yes

### RevisionId

The unique identifier for the revision associated with this export request.

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](#)

# ExportAssetToSignedUrlResponseDetails

The details of the export to signed URL response.

## Contents

### AssetId

The unique identifier for the asset associated with this export job.

Type: String

Required: Yes

### DataSetId

The unique identifier for the data set associated with this export job.

Type: String

Required: Yes

### RevisionId

The unique identifier for the revision associated with this export response.

Type: String

Required: Yes

### SignedUrl

The signed URL for the export request.

Type: String

Required: No

### SignedUrlExpiresAt

The date and time that the signed URL expires, in ISO 8601 format.

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](#)

# ExportRevisionsToS3RequestDetails

Details of the operation to be performed by the job.

## Contents

### DataSetId

The unique identifier for the data set associated with this export job.

Type: String

Required: Yes

### RevisionDestinations

The destination for the revision.

Type: Array of [RevisionDestinationEntry](#) objects

Required: Yes

### Encryption

Encryption configuration for the export job.

Type: [ExportServerSideEncryption](#) 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](#)

# ExportRevisionsToS3ResponseDetails

Details about the export revisions to Amazon S3 response.

## Contents

### DataSetId

The unique identifier for the data set associated with this export job.

Type: String

Required: Yes

### RevisionDestinations

The destination in Amazon S3 where the revision is exported.

Type: Array of [RevisionDestinationEntry](#) objects

Required: Yes

### Encryption

Encryption configuration of the export job.

Type: [ExportServerSideEncryption](#) object

Required: No

### EventActionArn

The Amazon Resource Name (ARN) of the event action.

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](#)

# ExportServerSideEncryption

Encryption configuration of the export job. Includes the encryption type in addition to the AWS KMS key. The KMS key is only necessary if you chose the KMS encryption type.

## Contents

### Type

The type of server side encryption used for encrypting the objects in Amazon S3.

Type: String

Valid Values: `aws:kms` | `AES256`

Required: Yes

### KmsKeyArn

The Amazon Resource Name (ARN) of the AWS KMS key you want to use to encrypt the Amazon S3 objects. This parameter is required if you choose `aws:kms` as an encryption type.

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](#)

# ImportAssetFromApiGatewayApiRequestDetails

The request details.

## Contents

### ApiId

The API Gateway API ID.

Type: String

Required: Yes

### ApiName

The API name.

Type: String

Required: Yes

### ApiSpecificationMd5Hash

The Base64-encoded MD5 hash of the OpenAPI 3.0 JSON API specification file. It is used to ensure the integrity of the file.

Type: String

Length Constraints: Fixed length of 24.

Pattern: `(?:[A-Za-z0-9+/]{4})*(?:[A-Za-z0-9+/]{2}==|[A-Za-z0-9+/]{3}=)?`

Required: Yes

### DataSetId

The data set ID.

Type: String

Required: Yes

### ProtocolType

The protocol type.



Type: String

Valid Values: REST

Required: Yes

### **RevisionId**

The revision ID.

Type: String

Required: Yes

### **Stage**

The API stage.

Type: String

Required: Yes

### **ApiDescription**

The API description. Markdown supported.

Type: String

Required: No

### **ApiKey**

The API Gateway API key.

Type: String

Required: No

## **See Also**

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

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

- [AWS SDK for Ruby V3](#)

# ImportAssetFromApiGatewayApiResponseDetails

The response details.

## Contents

### ApiId

The API ID.

Type: String

Required: Yes

### ApiName

The API name.

Type: String

Required: Yes

### ApiSpecificationMd5Hash

The Base64-encoded Md5 hash for the API asset, used to ensure the integrity of the API at that location.

Type: String

Length Constraints: Fixed length of 24.

Pattern: (? : [A-Za-z0-9+ / ] {4} ) \* ( ? : [A-Za-z0-9+ / ] {2} = = | [A-Za-z0-9+ / ] {3} = ) ?

Required: Yes

### ApiSpecificationUploadUrl

The upload URL of the API specification.

Type: String

Required: Yes

### ApiSpecificationUploadUrlExpiresAt

The date and time that the upload URL expires, in ISO 8601 format.

Type: Timestamp

Required: Yes

### **DataSetId**

The data set ID.

Type: String

Required: Yes

### **ProtocolType**

The protocol type.

Type: String

Valid Values: REST

Required: Yes

### **RevisionId**

The revision ID.

Type: String

Required: Yes

### **Stage**

The API stage.

Type: String

Required: Yes

### **ApiDescription**

The API description.

Type: String

Required: No

### **ApiKey**

The API key.

Type: String

Required: No

## See Also

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

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

# ImportAssetFromSignedUrlJobErrorDetails

Details about the job error.

## Contents

### AssetName

Details about the job error.

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](#)

# ImportAssetFromSignedUrlRequestDetails

Details of the operation to be performed by the job.

## Contents

### AssetName

The name of the asset. When importing from Amazon S3, the Amazon S3 object key is used as the asset name.

Type: String

Required: Yes

### DataSetId

The unique identifier for the data set associated with this import job.

Type: String

Required: Yes

### Md5Hash

The Base64-encoded Md5 hash for the asset, used to ensure the integrity of the file at that location.

Type: String

Length Constraints: Fixed length of 24.

Pattern: (? : [A-Za-z0-9+ / ] {4} ) \* ( ? : [A-Za-z0-9+ / ] {2} = = | [A-Za-z0-9+ / ] {3} = ) ?

Required: Yes

### RevisionId

The unique identifier for the revision associated with this import request.

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](#)



# ImportAssetFromSignedUrlResponseDetails

The details in the response for an import request, including the signed URL and other information.

## Contents

### AssetName

The name for the asset associated with this import job.

Type: String

Required: Yes

### DataSetId

The unique identifier for the data set associated with this import job.

Type: String

Required: Yes

### RevisionId

The unique identifier for the revision associated with this import response.

Type: String

Required: Yes

### Md5Hash

The Base64-encoded Md5 hash for the asset, used to ensure the integrity of the file at that location.

Type: String

Length Constraints: Fixed length of 24.

Pattern: `(?:[A-Za-z0-9+]{4})*(?:[A-Za-z0-9+]{2}=|[A-Za-z0-9+]{3}=)?`

Required: No

### SignedUrl

The signed URL.

Type: String

Required: No

### **SignedUrlExpiresAt**

The time and date at which the signed URL expires, in ISO 8601 format.

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](#)

# ImportAssetsFromLakeFormationTagPolicyRequestDetails

Details about the assets imported from an AWS Lake Formation tag policy request.

## Contents

### CatalogId

The identifier for the AWS Glue Data Catalog.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `.*\/^[\\d]{12}$\/.*`

Required: Yes

### DataSetId

The unique identifier for the data set associated with this import job.

Type: String

Required: Yes

### RevisionId

The unique identifier for the revision associated with this import job.

Type: String

Required: Yes

### RoleArn

The IAM role's ARN that allows AWS Data Exchange to assume the role and grant and revoke permissions of subscribers to AWS Lake Formation data permissions.

Type: String

Pattern: `arn:aws:iam::(\\d{12}):role\\/.+`

Required: Yes

## Database

A structure for the database object.

Type: [DatabaseLFTagPolicyAndPermissions](#) object

Required: No

## Table

A structure for the table object.

Type: [TableLFTagPolicyAndPermissions](#) 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](#)

# ImportAssetsFromLakeFormationTagPolicyResponseDetails

Details from an import AWS Lake Formation tag policy job response.

## Contents

### CatalogId

The identifier for the AWS Glue Data Catalog.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `.*\/^[\\d]{12}$\/.*`

Required: Yes

### DataSetId

The unique identifier for the data set associated with this import job.

Type: String

Required: Yes

### RevisionId

The unique identifier for the revision associated with this import job.

Type: String

Required: Yes

### RoleArn

The IAM role's ARN that allows AWS Data Exchange to assume the role and grant and revoke permissions to AWS Lake Formation data permissions.

Type: String

Pattern: `arn:aws:iam::(\\d{12}):role\\/.*`

Required: Yes

## Database

A structure for the database object.

Type: [DatabaseLFTagPolicyAndPermissions](#) object

Required: No

## Table

A structure for the table object.

Type: [TableLFTagPolicyAndPermissions](#) 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](#)

# ImportAssetsFromRedshiftDataSharesRequestDetails

Details from an import from Amazon Redshift datashare request.

## Contents

### AssetSources

A list of Amazon Redshift datashare assets.

Type: Array of [RedshiftDataShareAssetSourceEntry](#) objects

Required: Yes

### DataSetId

The unique identifier for the data set associated with this import job.

Type: String

Required: Yes

### RevisionId

The unique identifier for the revision associated with this import job.

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](#)

# ImportAssetsFromRedshiftDataSharesResponseDetails

Details from an import from Amazon Redshift datashare response.

## Contents

### AssetSources

A list of Amazon Redshift datashare asset sources.

Type: Array of [RedshiftDataShareAssetSourceEntry](#) objects

Required: Yes

### DataSetId

The unique identifier for the data set associated with this import job.

Type: String

Required: Yes

### RevisionId

The unique identifier for the revision associated with this import job.

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](#)



# ImportAssetsFromS3RequestDetails

Details of the operation to be performed by the job.

## Contents

### AssetSources

Is a list of Amazon S3 bucket and object key pairs.

Type: Array of [AssetSourceEntry](#) objects

Required: Yes

### DataSetId

The unique identifier for the data set associated with this import job.

Type: String

Required: Yes

### RevisionId

The unique identifier for the revision associated with this import request.

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](#)

# ImportAssetsFromS3ResponseDetails

Details from an import from Amazon S3 response.

## Contents

### AssetSources

Is a list of Amazon S3 bucket and object key pairs.

Type: Array of [AssetSourceEntry](#) objects

Required: Yes

### DataSetId

The unique identifier for the data set associated with this import job.

Type: String

Required: Yes

### RevisionId

The unique identifier for the revision associated with this import response.

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](#)

# JobEntry

AWS Data Exchange Jobs are asynchronous import or export operations used to create or copy assets. A data set owner can both import and export as they see fit. Someone with an entitlement to a data set can only export. Jobs are deleted 90 days after they are created.

## Contents

### Arn

The ARN for the job.

Type: String

Required: Yes

### CreatedAt

The date and time that the job was created, in ISO 8601 format.

Type: Timestamp

Required: Yes

### Details

Details of the operation to be performed by the job, such as export destination details or import source details.

Type: [ResponseDetails](#) object

Required: Yes

### Id

The unique identifier for the job.

Type: String

Required: Yes

### State

The state of the job.

Type: String

Valid Values: WAITING | IN\_PROGRESS | ERROR | COMPLETED | CANCELLED | TIMED\_OUT

Required: Yes

## Type

The job type.

Type: String

Valid Values: IMPORT\_ASSETS\_FROM\_S3 | IMPORT\_ASSET\_FROM\_SIGNED\_URL | EXPORT\_ASSETS\_TO\_S3 | EXPORT\_ASSET\_TO\_SIGNED\_URL | EXPORT\_REVISIONS\_TO\_S3 | IMPORT\_ASSETS\_FROM\_REDSHIFT\_DATA\_SHARES | IMPORT\_ASSET\_FROM\_API\_GATEWAY\_API | CREATE\_S3\_DATA\_ACCESS\_FROM\_S3\_BUCKET | IMPORT\_ASSETS\_FROM\_LAKE\_FORMATION\_TAG\_POLICY

Required: Yes

## UpdatedAt

The date and time that the job was last updated, in ISO 8601 format.

Type: Timestamp

Required: Yes

## Errors

Errors for jobs.

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

# JobError

An error that occurred with the job request.

## Contents

### Code

The code for the job error.

Type: String

Valid Values: ACCESS\_DENIED\_EXCEPTION | INTERNAL\_SERVER\_EXCEPTION  
| MALWARE\_DETECTED | RESOURCE\_NOT\_FOUND\_EXCEPTION |  
SERVICE\_QUOTA\_EXCEEDED\_EXCEPTION | VALIDATION\_EXCEPTION |  
MALWARE\_SCAN\_ENCRYPTED\_FILE

Required: Yes

### Message

The message related to the job error.

Type: String

Required: Yes

### Details

The details about the job error.

Type: [Details](#) object

Required: No

### LimitName

The name of the limit that was reached.

Type: String

Valid Values: Assets per revision | Asset size in GB | Amazon Redshift  
datashare assets per revision | AWS Lake Formation data permission  
assets per revision | Amazon S3 data access assets per revision

Required: No

### **LimitValue**

The value of the exceeded limit.

Type: Double

Required: No

### **ResourceId**

The unique identifier for the resource related to the error.

Type: String

Required: No

### **ResourceType**

The type of resource related to the error.

Type: String

Valid Values: REVISION | ASSET | DATA\_SET

Required: No

## **See Also**

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

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

# KmsKeyToGrant

The Amazon Resource Name (ARN) of the AWS KMS key used to encrypt the shared S3 objects.

## Contents

### KmsKeyArn

The AWS KMS CMK (Key Management System Customer Managed Key) used to encrypt S3 objects in the shared S3 Bucket. AWS Data exchange will create a KMS grant for each subscriber to allow them to access and decrypt their entitled data that is encrypted using this KMS key specified.

Type: String

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

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](#)



# LakeFormationDataPermissionAsset

The AWS Lake Formation data permission asset.

## Contents

### LakeFormationDataPermissionDetails

Details about the AWS Lake Formation data permission.

Type: [LakeFormationDataPermissionDetails](#) object

Required: Yes

### LakeFormationDataPermissionType

The data permission type.

Type: String

Valid Values: LFTagPolicy

Required: Yes

### Permissions

The permissions granted to the subscribers on the resource.

Type: Array of strings

Valid Values: DESCRIBE | SELECT

Required: Yes

### RoleArn

The IAM role's ARN that allows AWS Data Exchange to assume the role and grant and revoke permissions to AWS Lake Formation data permissions.

Type: String

Pattern: `arn:aws:iam::(\d{12}):role\./.+`

Required: No

## See Also

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

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

# LakeFormationDataPermissionDetails

Details about the AWS Lake Formation data permission.

## Contents

### LFTagPolicy

Details about the LF-tag policy.

Type: [LFTagPolicyDetails](#) 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](#)

# LakeFormationTagPolicyDetails

Extra details specific to the affected scope in this LF data set.

## Contents

### Database

The underlying Glue database that the notification is referring to.

Type: String

Required: No

### Table

The underlying Glue table that the notification is referring to.

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](#)

# LFResourceDetails

Details about the AWS Lake Formation resource (Table or Database) included in the AWS Lake Formation data permission.

## Contents

### Database

Details about the database resource included in the AWS Lake Formation data permission.

Type: [DatabaseLFTagPolicy](#) object

Required: No

### Table

Details about the table resource included in the AWS Lake Formation data permission.

Type: [TableLFTagPolicy](#) 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](#)

# LFTag

A structure that allows an LF-admin to grant permissions on certain conditions.

## Contents

### TagKey

The key name for the LF-tag.

Type: String

Required: Yes

### TagValues

A list of LF-tag values.

Type: Array of strings

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](#)

# LFTagPolicyDetails

Details about the LF-tag policy.

## Contents

### CatalogId

The identifier for the AWS Glue Data Catalog.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `.*\/^[\\d]{12}$\/.*`

Required: Yes

### ResourceDetails

Details for the Lake Formation Resources included in the LF-tag policy.

Type: [LFResourceDetails](#) object

Required: Yes

### ResourceType

The resource type for which the LF-tag policy applies.

Type: String

Valid Values: TABLE | DATABASE

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](#)



# NotificationDetails

Extra details specific to this notification.

## Contents

### DataUpdate

Extra details specific to a data update type notification.

Type: [DataUpdateRequestDetails](#) object

Required: No

### Deprecation

Extra details specific to a deprecation type notification.

Type: [DeprecationRequestDetails](#) object

Required: No

### SchemaChange

Extra details specific to a schema change type notification.

Type: [SchemaChangeRequestDetails](#) 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](#)

# OriginDetails

Details about the origin of the data set.

## Contents

### DataGrantId

The ID of the data grant.

Type: String

Required: No

### ProductId

The product ID of the origin of the data set.

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](#)

# ReceivedDataGrantSummariesEntry

Information about a received data grant.

## Contents

### AcceptanceState

The acceptance state of the data grant.

Type: String

Valid Values: PENDING\_RECEIVER\_ACCEPTANCE | ACCEPTED

Required: Yes

### Arn

The Amazon Resource Name (ARN) of the data grant.

Type: String

Required: Yes

### CreatedAt

The timestamp of when the data grant was created.

Type: Timestamp

Required: Yes

### DataSetId

The ID of the data set associated to the data grant.

Type: String

Required: Yes

### Id

The ID of the data grant.

Type: String

Required: Yes

### **Name**

The name of the data grant.

Type: String

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

Required: Yes

### **ReceiverPrincipal**

The AWS account ID of the data grant receiver.

Type: String

Pattern: `\d{12}`

Required: Yes

### **SenderPrincipal**

The AWS account ID of the data grant sender.

Type: String

Pattern: `\d{12}`

Required: Yes

### **UpdatedAt**

The timestamp of when the data grant was last updated.

Type: Timestamp

Required: Yes

### **AcceptedAt**

The timestamp of when the data grant was accepted.

Type: Timestamp

Required: No

## EndsAt

The timestamp of when access to the associated data set ends.

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](#)

# RedshiftDataShareAsset

The Amazon Redshift datashare asset.

## Contents

### Arn

The Amazon Resource Name (ARN) of the datashare asset.

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](#)

# RedshiftDataShareAssetSourceEntry

The source of the Amazon Redshift datashare asset.

## Contents

### DataShareArn

The Amazon Resource Name (ARN) of the datashare asset.

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](#)

# RedshiftDataShareDetails

Extra details specific to the affected scope in this Redshift data set.

## Contents

### Arn

The ARN of the underlying Redshift data share that is being affected by this notification.

Type: String

Required: Yes

### Database

The database name in the Redshift data share that is being affected by this notification.

Type: String

Required: Yes

### Function

A function name in the Redshift database that is being affected by this notification.

Type: String

Required: No

### Schema

A schema name in the Redshift database that is being affected by this notification.

Type: String

Required: No

### Table

A table name in the Redshift database that is being affected by this notification.

Type: String

Required: No



## View

A view name in the Redshift database that is being affected by this notification.

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](#)

# RequestDetails

The details for the request.

## Contents

### CreateS3DataAccessFromS3Bucket

Details of the request to create S3 data access from the Amazon S3 bucket.

Type: [CreateS3DataAccessFromS3BucketRequestDetails](#) object

Required: No

### ExportAssetsToS3

Details about the export to Amazon S3 request.

Type: [ExportAssetsToS3RequestDetails](#) object

Required: No

### ExportAssetToSignedUrl

Details about the export to signed URL request.

Type: [ExportAssetToSignedUrlRequestDetails](#) object

Required: No

### ExportRevisionsToS3

Details about the export to Amazon S3 request.

Type: [ExportRevisionsToS3RequestDetails](#) object

Required: No

### ImportAssetFromApiGatewayApi

Details about the import from signed URL request.

Type: [ImportAssetFromApiGatewayApiRequestDetails](#) object

Required: No

## ImportAssetFromSignedUrl

Details about the import from Amazon S3 request.

Type: [ImportAssetFromSignedUrlRequestDetails](#) object

Required: No

## ImportAssetsFromLakeFormationTagPolicy

Request details for the ImportAssetsFromLakeFormationTagPolicy job.

Type: [ImportAssetsFromLakeFormationTagPolicyRequestDetails](#) object

Required: No

## ImportAssetsFromRedshiftDataShares

Details from an import from Amazon Redshift datashare request.

Type: [ImportAssetsFromRedshiftDataSharesRequestDetails](#) object

Required: No

## ImportAssetsFromS3

Details about the import asset from API Gateway API request.

Type: [ImportAssetsFromS3RequestDetails](#) 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](#)

# ResponseDetails

Details for the response.

## Contents

### CreateS3DataAccessFromS3Bucket

Response details from the CreateS3DataAccessFromS3Bucket job.

Type: [CreateS3DataAccessFromS3BucketResponseDetails](#) object

Required: No

### ExportAssetsToS3

Details for the export to Amazon S3 response.

Type: [ExportAssetsToS3ResponseDetails](#) object

Required: No

### ExportAssetToSignedUrl

Details for the export to signed URL response.

Type: [ExportAssetToSignedUrlResponseDetails](#) object

Required: No

### ExportRevisionsToS3

Details for the export revisions to Amazon S3 response.

Type: [ExportRevisionsToS3ResponseDetails](#) object

Required: No

### ImportAssetFromApiGatewayApi

The response details.

Type: [ImportAssetFromApiGatewayApiResponseDetails](#) object

Required: No

## ImportAssetFromSignedUrl

Details for the import from signed URL response.

Type: [ImportAssetFromSignedUrlResponseDetails](#) object

Required: No

## ImportAssetsFromLakeFormationTagPolicy

Response details from the ImportAssetsFromLakeFormationTagPolicy job.

Type: [ImportAssetsFromLakeFormationTagPolicyResponseDetails](#) object

Required: No

## ImportAssetsFromRedshiftDataShares

Details from an import from Amazon Redshift datashare response.

Type: [ImportAssetsFromRedshiftDataSharesResponseDetails](#) object

Required: No

## ImportAssetsFromS3

Details for the import from Amazon S3 response.

Type: [ImportAssetsFromS3ResponseDetails](#) 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](#)

# RevisionDestinationEntry

The destination where the assets in the revision will be exported.

## Contents

### Bucket

The Amazon S3 bucket that is the destination for the assets in the revision.

Type: String

Required: Yes

### RevisionId

The unique identifier for the revision.

Type: String

Required: Yes

### KeyPattern

A string representing the pattern for generated names of the individual assets in the revision. For more information about key patterns, see [Key patterns when exporting revisions](#).

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](#)

# RevisionEntry

A revision is a container for one or more assets.

## Contents

### Arn

The ARN for the revision.

Type: String

Required: Yes

### CreatedAt

The date and time that the revision was created, in ISO 8601 format.

Type: Timestamp

Required: Yes

### DataSetId

The unique identifier for the data set associated with the data set revision.

Type: String

Required: Yes

### Id

The unique identifier for the revision.

Type: String

Required: Yes

### UpdatedAt

The date and time that the revision was last updated, in ISO 8601 format.

Type: Timestamp

Required: Yes

## Comment

An optional comment about the revision.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 16384.

Required: No

## Finalized

To publish a revision to a data set in a product, the revision must first be finalized. Finalizing a revision tells AWS Data Exchange that your changes to the assets in the revision are complete. After it's in this read-only state, you can publish the revision to your products. Finalized revisions can be published through the AWS Data Exchange console or the AWS Marketplace Catalog API, using the StartChangeSet AWS Marketplace Catalog API action. When using the API, revisions are uniquely identified by their ARN.

Type: Boolean

Required: No

## RevocationComment

A required comment to inform subscribers of the reason their access to the revision was revoked.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 512.

Required: No

## Revoked

A status indicating that subscribers' access to the revision was revoked.

Type: Boolean

Required: No

## RevokedAt

The date and time that the revision was revoked, in ISO 8601 format.



Type: Timestamp

Required: No

### **SourceId**

The revision ID of the owned revision corresponding to the entitled revision being viewed. This parameter is returned when a revision owner is viewing the entitled copy of its owned revision.

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](#)

# RevisionPublished

Information about the published revision.

## Contents

### DataSetId

The data set ID of the published revision.

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](#)

# S3DataAccessAsset

The Amazon S3 data access that is the asset.

## Contents

### Bucket

The Amazon S3 bucket hosting data to be shared in the S3 data access.

Type: String

Required: Yes

### KeyPrefixes

The Amazon S3 bucket used for hosting shared data in the Amazon S3 data access.

Type: Array of strings

Required: No

### Keys

S3 keys made available using this asset.

Type: Array of strings

Required: No

### KmsKeysToGrant

List of AWS KMS CMKs (Key Management System Customer Managed Keys) and ARNs used to encrypt S3 objects being shared in this S3 Data Access asset. Providers must include all AWS KMS keys used to encrypt these shared S3 objects.

Type: Array of [KmsKeyToGrant](#) objects

Array Members: Minimum number of 1 item. Maximum number of 10 items.

Required: No

### S3AccessPointAlias

The automatically-generated bucket-style alias for your Amazon S3 Access Point. Customers can access their entitled data using the S3 Access Point alias.

Type: String

Required: No

### **S3AccessPointArn**

The ARN for your Amazon S3 Access Point. Customers can also access their entitled data using the S3 Access Point ARN.

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](#)

# S3DataAccessAssetSourceEntry

Source details for an Amazon S3 data access asset.

## Contents

### Bucket

The Amazon S3 bucket used for hosting shared data in the Amazon S3 data access.

Type: String

Required: Yes

### KeyPrefixes

Organizes Amazon S3 asset key prefixes stored in an Amazon S3 bucket.

Type: Array of strings

Required: No

### Keys

The keys used to create the Amazon S3 data access.

Type: Array of strings

Required: No

### KmsKeysToGrant

List of AWS KMS CMKs (Key Management System Customer Managed Keys) and ARNs used to encrypt S3 objects being shared in this S3 Data Access asset.

Type: Array of [KmsKeyToGrant](#) objects

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](#)

# S3DataAccessDetails

Extra details specific to the affected scope in this S3 Data Access data set.

## Contents

### KeyPrefixes

A list of the key prefixes affected by this notification. This can have up to 50 entries.

Type: Array of strings

Required: No

### Keys

A list of the keys affected by this notification. This can have up to 50 entries.

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](#)

# S3SnapshotAsset

The Amazon S3 object that is the asset.

## Contents

### Size

The size of the Amazon S3 object that is the object.

Type: Double

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](#)



# SchemaChangeDetails

Object encompassing information about a schema change to a single, particular field, a notification can have up to 100 of these.

## Contents

### Name

Name of the changing field. This value can be up to 255 characters long.

Type: String

Required: Yes

### Type

Is the field being added, removed, or modified?

Type: String

Valid Values: ADD | REMOVE | MODIFY

Required: Yes

### Description

Description of what's changing about this field. This value can be up to 512 characters long.

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](#)



# SchemaChangeRequestDetails

Extra details specific to this schema change type notification.

## Contents

### SchemaChangeAt

A date in the future when the schema change is taking effect.

Type: Timestamp

Required: Yes

### Changes

List of schema changes happening in the scope of this notification. This can have up to 100 entries.

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

# ScopeDetails

Details about the scope of the notifications such as the affected resources.

## Contents

### LakeFormationTagPolicies

Underlying LF resources that will be affected by this notification.

Type: Array of [LakeFormationTagPolicyDetails](#) objects

Required: No

### RedshiftDataShares

Underlying Redshift resources that will be affected by this notification.

Type: Array of [RedshiftDataShareDetails](#) objects

Required: No

### S3DataAccesses

Underlying S3 resources that will be affected by this notification.

Type: Array of [S3DataAccessDetails](#) 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](#)

# TableLFTagPolicy

The LF-tag policy for a table resource.

## Contents

### Expression

A list of LF-tag conditions that apply to table resources.

Type: Array of [LFTag](#) objects

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](#)

# TableLFTagPolicyAndPermissions

The LF-tag policy and permissions that apply to table resources.

## Contents

### Expression

A list of LF-tag conditions that apply to table resources.

Type: Array of [LFTag](#) objects

Required: Yes

### Permissions

The permissions granted to subscribers on table resources.

Type: Array of strings

Valid Values: DESCRIBE | SELECT

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: 400

## **IncompleteSignature**

The request signature does not conform to AWS standards.

HTTP Status Code: 400

## **InternalFailure**

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

HTTP Status Code: 500

## **InvalidAction**

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

HTTP Status Code: 400

## **InvalidClientTokenId**

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

HTTP Status Code: 403

## **NotAuthorized**

You do not have permission to perform this action.

HTTP Status Code: 400

## **OptInRequired**

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

HTTP Status Code: 403

**RequestExpired**

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

HTTP Status Code: 400

**ServiceUnavailable**

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

HTTP Status Code: 503

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 400

**ValidationError**

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

HTTP Status Code: 400

## Document history

The following table describes the documentation for this release of the *AWS Data Exchange API Reference*.

For notification about updates to this documentation, you can subscribe to the RSS feed. To subscribe to the RSS feed, you must have an RSS plug-in enabled for the browser you are using.

Change	Description	Date
<a href="#">Documentation organization enhancements</a>	Documentation-only update to enhance the organization of the AWS Data Exchange API Reference Guide.	September 7, 2022
<a href="#">Revoke Revision API operation</a>	Providers can now use the RevokeRevision API operation to revoke subscriber access to a revision.	March 15, 2022
<a href="#">Send API Asset API operation and updates to Asset, DataSet, and Job API operations</a>	Providers can now use the CreateDataSet API operation to include a new AssetType : IMPORT_ASSET_FROM_API_GATEWAY_API , which adds API assets from Amazon API Gateway. This new job type, which affects the Job shape, comes with its own Details block that looks very similar to other Job types. Subscribers can now use the SendApiAsset API operation to invoke a provider's Amazon API	November 29, 2021

Gateway API that they are entitled to.

[\(Preview\) Updates to Asset, Data Set, and Job API operations](#)

(Preview) Providers can now use the `CreateDataSet` API operation to include a new `AssetType : REDSHIFT_DATA_SHARE`, which affects the Data Set shape. Assets can now be Type `REDSHIFT_DATA_SHARE`, which only affects the Asset shape. There is a new `AssetDetails` object for this type, which points at the Amazon Redshift datashare ARN. Providers can now use the `CreateJob` API operation to run a new job type: `IMPORT_ASSETS_FROM_REDSHIFT_DATA_SHARES`, which adds assets from Amazon Redshift datashares. This new job type, which affects the Job shape, comes with its own `Details` block that looks very similar to other Job types.

October 19, 2021

[Event Action API operation and Event Actions API operation](#)

Subscribers can now use the Event Action API operation and Event Actions API operation to configure jobs to automatically export revisions to an Amazon S3 bucket.

September 30, 2021

[AWS Data Exchange is now generally available](#)

AWS Data Exchange is a service that makes it easy for AWS customers to create, update, maintain, and securely exchange file-based data sets in the AWS Cloud.

November 13, 2019