API Reference

AWS Data Exchange



API Version 2017-07-25

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AWS Data Exchange: API Reference

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Table of Contents

Welcome **1**
Actions **4**
AcceptDataGrant 6
Request Syntax 6
URI Request Parameters 6
Request Body 6
Response Syntax 6
Response Elements 7
Errors 9
See Also 11
CancelJob 12
Request Syntax 12
URI Request Parameters 12
Request Body 12
Response Syntax 12
Response Elements 12
Errors 12
See Also 14
CreateDataGrant 15
Request Syntax 15
URI Request Parameters 15
Request Body 15
Response Syntax 17
Response Elements 17
Errors 20
See Also 21
CreateDataSet 23
Request Syntax 23
URI Request Parameters 23
Request Body 23
Response Syntax 24
Response Elements 25
Errors 26
See Also 28

CreateEventAction ... 29
Request Syntax ... 29
URI Request Parameters ... 29
Request Body ... 29
Response Syntax ... 30
Response Elements ... 31
Errors ... 32
See Also ... 33
CreateJob ... 35
Request Syntax ... 35
URI Request Parameters ... 38
Request Body ... 38
Response Syntax ... 38
Response Elements ... 42
Errors ... 44
See Also ... 45
CreateRevision ... 47
Request Syntax ... 47
URI Request Parameters ... 47
Request Body ... 47
Response Syntax ... 48
Response Elements ... 48
Errors ... 50
See Also ... 52
DeleteAsset ... 53
Request Syntax ... 53
URI Request Parameters ... 53
Request Body ... 53
Response Syntax ... 53
Response Elements ... 54
Errors ... 54
See Also ... 55
DeleteDataGrant ... 57
Request Syntax ... 57
URI Request Parameters ... 57
Request Body ... 57

Response Syntax ... 57
Response Elements ... 57
Errors ... 57
See Also ... 59
DeleteDataSet ... 60
Request Syntax ... 60
URI Request Parameters ... 60
Request Body ... 60
Response Syntax ... 60
Response Elements ... 60
Errors ... 60
See Also ... 62
DeleteEventAction ... 64
Request Syntax ... 64
URI Request Parameters ... 64
Request Body ... 64
Response Syntax ... 64
Response Elements ... 64
Errors ... 64
See Also ... 65
DeleteRevision ... 67
Request Syntax ... 67
URI Request Parameters ... 67
Request Body ... 67
Response Syntax ... 67
Response Elements ... 67
Errors ... 68
See Also ... 69
GetAsset ... 71
Request Syntax ... 71
URI Request Parameters ... 71
Request Body ... 71
Response Syntax ... 71
Response Elements ... 73
Errors ... 75
See Also ... 76

GetDataGrant ... 78
Request Syntax ... 78
URI Request Parameters ... 78
Request Body ... 78
Response Syntax ... 78
Response Elements ... 79
Errors ... 81
See Also ... 83
GetDataSet ... 84
Request Syntax ... 84
URI Request Parameters ... 84
Request Body ... 84
Response Syntax ... 84
Response Elements ... 85
Errors ... 87
See Also ... 88
GetEventAction ... 89
Request Syntax ... 89
URI Request Parameters ... 89
Request Body ... 89
Response Syntax ... 89
Response Elements ... 90
Errors ... 91
See Also ... 92
GetJob ... 93
Request Syntax ... 93
URI Request Parameters ... 93
Request Body ... 93
Response Syntax ... 93
Response Elements ... 97
Errors ... 98
See Also ... 100
GetReceivedDataGrant ... 101
Request Syntax ... 101
URI Request Parameters ... 101
Request Body ... 101

Response Syntax ... 101
Response Elements ... 102
Errors ... 104
See Also ... 105
GetRevision ... 107
Request Syntax ... 107
URI Request Parameters ... 107
Request Body ... 107
Response Syntax ... 107
Response Elements ... 108
Errors ... 110
See Also ... 111
ListDataGrants ... 112
Request Syntax ... 112
URI Request Parameters ... 112
Request Body ... 112
Response Syntax ... 112
Response Elements ... 113
Errors ... 113
See Also ... 115
ListDataSetRevisions ... 116
Request Syntax ... 116
URI Request Parameters ... 116
Request Body ... 116
Response Syntax ... 116
Response Elements ... 117
Errors ... 117
See Also ... 119
ListDataSets ... 120
Request Syntax ... 120
URI Request Parameters ... 120
Request Body ... 120
Response Syntax ... 120
Response Elements ... 121
Errors ... 121
See Also ... 123

ListEventActions ... 124
Request Syntax ... 124
URI Request Parameters ... 124
Request Body ... 124
Response Syntax ... 124
Response Elements ... 125
Errors ... 125
See Also ... 127
ListJobs ... 128
Request Syntax ... 128
URI Request Parameters ... 128
Request Body ... 128
Response Syntax ... 128
Response Elements ... 132
Errors ... 133
See Also ... 134
ListReceivedDataGrants ... 135
Request Syntax ... 135
URI Request Parameters ... 135
Request Body ... 135
Response Syntax ... 135
Response Elements ... 136
Errors ... 136
See Also ... 138
ListRevisionAssets ... 139
Request Syntax ... 139
URI Request Parameters ... 139
Request Body ... 139
Response Syntax ... 140
Response Elements ... 141
Errors ... 142
See Also ... 143
ListTagsForResource ... 144
Request Syntax ... 144
URI Request Parameters ... 144
Request Body ... 144

Response Syntax 144
Response Elements 144
Errors 145
See Also 145
RevokeRevision 146
Request Syntax 146
URI Request Parameters 146
Request Body 146
Response Syntax 147
Response Elements 147
Errors 149
See Also 151
SendApiAsset 152
Request Syntax 152
URI Request Parameters 152
Request Body 153
Response Syntax 153
Response Elements 153
Errors 153
See Also 155
SendDataSetNotification 156
Request Syntax 156
URI Request Parameters 157
Request Body 157
Response Syntax 158
Response Elements 158
Errors 159
See Also 160
StartJob 162
Request Syntax 162
URI Request Parameters 162
Request Body 162
Response Syntax 162
Response Elements 162
Errors 162
See Also 164

TagResource ... 166
Request Syntax ... 166
URI Request Parameters ... 166
Request Body ... 166
Response Syntax ... 166
Response Elements ... 167
Errors ... 167
See Also ... 167
UntagResource ... 168
Request Syntax ... 168
URI Request Parameters ... 168
Request Body ... 168
Response Syntax ... 168
Response Elements ... 168
Errors ... 168
See Also ... 169
UpdateAsset ... 170
Request Syntax ... 170
URI Request Parameters ... 170
Request Body ... 170
Response Syntax ... 171
Response Elements ... 173
Errors ... 174
See Also ... 176
UpdateDataSet ... 178
Request Syntax ... 178
URI Request Parameters ... 178
Request Body ... 178
Response Syntax ... 179
Response Elements ... 179
Errors ... 181
See Also ... 182
UpdateEventAction ... 184
Request Syntax ... 184
URI Request Parameters ... 184
Request Body ... 184

Response Syntax ... 185
Response Elements ... 185
Errors ... 186
See Also ... 188
UpdateRevision ... 189
Request Syntax ... 189
URI Request Parameters ... 189
Request Body ... 189
Response Syntax ... 190
Response Elements ... 190
Errors ... 192
See Also ... 194
Data Types ... 195
Action ... 198
Contents ... 198
See Also ... 198
ApiGatewayApiAsset ... 199
Contents ... 199
See Also ... 200
AssetConfiguration ... 201
Contents ... 201
See Also ... 201
AssetDestinationEntry ... 202
Contents ... 202
See Also ... 202
AssetDetails ... 203
Contents ... 203
See Also ... 204
AssetEntry ... 205
Contents ... 205
See Also ... 207
AssetSourceEntry ... 208
Contents ... 208
See Also ... 208
AutoExportRevisionDestinationEntry ... 209
Contents ... 209

See Also ... 209
AutoExportRevisionToS3RequestDetails ... 210
Contents ... 210
See Also ... 210
CreateS3DataAccessFromS3BucketRequestDetails ... 211
Contents ... 211
See Also ... 211
CreateS3DataAccessFromS3BucketResponseDetails ... 213
Contents ... 213
See Also ... 213
DatabaseLFTagPolicy ... 215
Contents ... 215
See Also ... 215
DatabaseLFTagPolicyAndPermissions ... 216
Contents ... 216
See Also ... 216
DataGrantSummaryEntry ... 217
Contents ... 217
See Also ... 219
DataSetEntry ... 220
Contents ... 220
See Also ... 222
DataUpdateRequestDetails ... 223
Contents ... 223
See Also ... 223
DeprecationRequestDetails ... 224
Contents ... 224
See Also ... 224
Details ... 225
Contents ... 225
See Also ... 225
Event ... 226
Contents ... 226
See Also ... 226
EventActionEntry ... 227
Contents ... 227

See Also ... 228
ExportAssetsToS3RequestDetails ... 229
Contents ... 229
See Also ... 229
ExportAssetsToS3ResponseDetails ... 231
Contents ... 231
See Also ... 231
ExportAssetToSignedUrlRequestDetails ... 233
Contents ... 233
See Also ... 233
ExportAssetToSignedUrlResponseDetails ... 235
Contents ... 235
See Also ... 236
ExportRevisionsToS3RequestDetails ... 237
Contents ... 237
See Also ... 237
ExportRevisionsToS3ResponseDetails ... 238
Contents ... 238
See Also ... 238
ExportServerSideEncryption ... 240
Contents ... 240
See Also ... 240
ImportAssetFromApiGatewayApiRequestDetails ... 241
Contents ... 241
See Also ... 243
ImportAssetFromApiGatewayApiResponseDetails ... 244
Contents ... 244
See Also ... 246
ImportAssetFromSignedUrlJobErrorDetails ... 247
Contents ... 247
See Also ... 247
ImportAssetFromSignedUrlRequestDetails ... 248
Contents ... 248
See Also ... 249
ImportAssetFromSignedUrlResponseDetails ... 250
Contents ... 250

See Also ... 251
ImportAssetsFromLakeFormationTagPolicyRequestDetails ... 252
Contents ... 252
See Also ... 253
ImportAssetsFromLakeFormationTagPolicyResponseDetails ... 254
Contents ... 254
See Also ... 255
ImportAssetsFromRedshiftDataSharesRequestDetails ... 256
Contents ... 256
See Also ... 256
ImportAssetsFromRedshiftDataSharesResponseDetails ... 258
Contents ... 258
See Also ... 258
ImportAssetsFromS3RequestDetails ... 260
Contents ... 260
See Also ... 260
ImportAssetsFromS3ResponseDetails ... 262
Contents ... 262
See Also ... 262
JobEntry ... 264
Contents ... 264
See Also ... 266
JobError ... 267
Contents ... 267
See Also ... 268
KmsKeyToGrant ... 269
Contents ... 269
See Also ... 269
LakeFormationDataPermissionAsset ... 270
Contents ... 270
See Also ... 271
LakeFormationDataPermissionDetails ... 272
Contents ... 272
See Also ... 272
LakeFormationTagPolicyDetails ... 273
Contents ... 273

See Also ... 273
LFResourceDetails ... 274
Contents ... 274
See Also ... 274
LFTag ... 275
Contents ... 275
See Also ... 275
LFTagPolicyDetails ... 276
Contents ... 276
See Also ... 276
NotificationDetails ... 278
Contents ... 278
See Also ... 278
OriginDetails ... 279
Contents ... 279
See Also ... 279
ReceivedDataGrantSummariesEntry ... 280
Contents ... 280
See Also ... 282
RedshiftDataShareAsset ... 283
Contents ... 283
See Also ... 283
RedshiftDataShareAssetSourceEntry ... 284
Contents ... 284
See Also ... 284
RedshiftDataShareDetails ... 285
Contents ... 285
See Also ... 286
RequestDetails ... 287
Contents ... 287
See Also ... 288
ResponseDetails ... 289
Contents ... 289
See Also ... 290
RevisionDestinationEntry ... 291
Contents ... 291

See Also ... 291
RevisionEntry ... 293
Contents ... 293
See Also ... 295
RevisionPublished ... 296
Contents ... 296
See Also ... 296
S3DataAccessAsset ... 297
Contents ... 297
See Also ... 298
S3DataAccessAssetSourceEntry ... 299
Contents ... 299
See Also ... 299
S3DataAccessDetails ... 301
Contents ... 301
See Also ... 301
S3SnapshotAsset ... 302
Contents ... 302
See Also ... 302
SchemaChangeDetails ... 303
Contents ... 303
See Also ... 303
SchemaChangeRequestDetails ... 305
Contents ... 305
See Also ... 305
ScopeDetails ... 306
Contents ... 306
See Also ... 306
TableLFTagPolicy ... 307
Contents ... 307
See Also ... 307
TableLFTagPolicyAndPermissions ... 308
Contents ... 308
See Also ... 308
Tag ... 309
Contents ... 309

See Also 309
Common Parameters 310
Common Error Types 313

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 (Amazon 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* .

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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

Pattern: `[a-zA-Z0-9]{30,40}`

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

Pattern: `[a-zA-Z0-9]{30,40}`

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 Error Types.

AccessDeniedException

Access to the resource is denied.

Message

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.

Message

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

ResourceId

The unique identifier for the resource with the conflict.

ResourceType

The type of the resource with the conflict.

HTTP Status Code: 409

InternalServerException

An exception occurred with the service.

Message

The message identifying the service exception that occurred.

HTTP Status Code: 500

ResourceNotFoundException

The resource couldn't be found.

Message

The resource couldn't be found.

ResourceId

The unique identifier for the resource that couldn't be found.

ResourceType

The type of resource that couldn't be found.

HTTP Status Code: 404

ThrottlingException

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

Message

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

HTTP Status Code: 429

ValidationException

The request was invalid.

ExceptionCause

The unique identifier for the resource that couldn't be found.

Message

The message that informs you about what was invalid about the request.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- 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.

Pattern: `[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 Error Types.

ConflictException

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

Message

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

ResourceId

The unique identifier for the resource with the conflict.

ResourceType

The type of the resource with the conflict.

HTTP Status Code: 409

InternalServerException

An exception occurred with the service.

Message

The message identifying the service exception that occurred.

HTTP Status Code: 500

ResourceNotFoundException

The resource couldn't be found.

Message

The resource couldn't be found.

ResourceId

The unique identifier for the resource that couldn't be found.

ResourceType

The type of resource that couldn't be found.

HTTP Status Code: 404

ThrottlingException

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

Message

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

HTTP Status Code: 429

ValidationException

The request was invalid.

ExceptionCause

The unique identifier for the resource that couldn't be found.

Message

The message that informs you about what was invalid about the request.

HTTP Status Code: 400

See Also

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

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- 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 (Boto3)
- 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

Pattern: `[a-zA-Z0-9]{30,40}`

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

Pattern: `[a-zA-Z0-9]{30,40}`

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

Pattern: `[a-zA-Z0-9]{30,40}`

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

Pattern: `[a-zA-Z0-9]{30,40}`

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 Error Types.

AccessDeniedException

Access to the resource is denied.

Message

Access to the resource is denied.

HTTP Status Code: 403

InternalServerException

An exception occurred with the service.

Message

The message identifying the service exception that occurred.

HTTP Status Code: 500

ResourceNotFoundException

The resource couldn't be found.

Message

The resource couldn't be found.

ResourceId

The unique identifier for the resource that couldn't be found.

ResourceType

The type of resource that couldn't be found.

HTTP Status Code: 404

ServiceLimitExceededException

The request has exceeded the quotas imposed by the service.

LimitName

The name of the limit that was reached.

LimitValue

The value of the exceeded limit.

Message

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.

Message

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

HTTP Status Code: 429

ValidationException

The request was invalid.

ExceptionCause

The unique identifier for the resource that couldn't be found.

Message

The message that informs you about what was invalid about the request.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++

- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- 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

Pattern: `[a-zA-Z0-9]{30,40}`

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

Pattern: `[a-zA-Z0-9]{30,40}`

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 Error Types.

AccessDeniedException

Access to the resource is denied.

Message

Access to the resource is denied.

HTTP Status Code: 403

InternalServerException

An exception occurred with the service.

Message

The message identifying the service exception that occurred.

HTTP Status Code: 500

ServiceLimitExceededException

The request has exceeded the quotas imposed by the service.

LimitName

The name of the limit that was reached.

LimitValue

The value of the exceeded limit.

Message

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.

Message

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

HTTP Status Code: 429

ValidationException

The request was invalid.

ExceptionCause

The unique identifier for the resource that couldn't be found.

Message

The message that informs you about what was invalid about the request.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- 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

Pattern: `[a-zA-Z0-9]{30,40}`

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 Error Types.

AccessDeniedException

Access to the resource is denied.

Message

Access to the resource is denied.

HTTP Status Code: 403

InternalServerException

An exception occurred with the service.

Message

The message identifying the service exception that occurred.

HTTP Status Code: 500

ServiceLimitExceededException

The request has exceeded the quotas imposed by the service.

LimitName

The name of the limit that was reached.

LimitValue

The value of the exceeded limit.

Message

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.

Message

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

HTTP Status Code: 429

ValidationException

The request was invalid.

ExceptionCause

The unique identifier for the resource that couldn't be found.

Message

The message that informs you about what was invalid about the request.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2

- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

CreateJob

This operation creates a job.

Request Syntax

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

{
   "AssetConfiguration": {
      "Tags": [
         {
            "Key": "string",
            "Value": "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"
      },
      "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.

AssetConfiguration

The configuration for the asset, including tags to be applied to assets created by the job.

Type: AssetConfiguration object

Required: No

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",
   "AssetConfiguration": {
      "Tags": [
         {
            "Key": "string",
            "Value": "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

AssetConfiguration

The configuration for the asset, including tags applied to assets created by the job.

Type: AssetConfiguration object

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

Pattern: `[a-zA-Z0-9]{30,40}`

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 Error Types.

AccessDeniedException

Access to the resource is denied.

Message

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.

Message

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

ResourceId

The unique identifier for the resource with the conflict.

ResourceType

The type of the resource with the conflict.

HTTP Status Code: 409

InternalServerException

An exception occurred with the service.

Message

The message identifying the service exception that occurred.

HTTP Status Code: 500

ResourceNotFoundException

The resource couldn't be found.

Message

The resource couldn't be found.

ResourceId

The unique identifier for the resource that couldn't be found.

ResourceType

The type of resource that couldn't be found.

HTTP Status Code: 404

ThrottlingException

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

Message

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

HTTP Status Code: 429

ValidationException

The request was invalid.

ExceptionCause

The unique identifier for the resource that couldn't be found.

Message

The message that informs you about what was invalid about the request.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++

- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- 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.

Pattern: `[a-zA-Z0-9]{30,40}`

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

Pattern: `[a-zA-Z0-9]{30,40}`

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

Pattern: `[a-zA-Z0-9]{30,40}`

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

Pattern: `[a-zA-Z0-9]{30,40}`

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 Error Types.

AccessDeniedException

Access to the resource is denied.

Message

Access to the resource is denied.

HTTP Status Code: 403

InternalServerException

An exception occurred with the service.

Message

The message identifying the service exception that occurred.

HTTP Status Code: 500

ResourceNotFoundException

The resource couldn't be found.

Message

The resource couldn't be found.

ResourceId

The unique identifier for the resource that couldn't be found.

ResourceType

The type of resource that couldn't be found.

HTTP Status Code: 404

ThrottlingException

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

Message

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

HTTP Status Code: 429

ValidationException

The request was invalid.

ExceptionCause

The unique identifier for the resource that couldn't be found.

Message

The message that informs you about what was invalid about the request.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- 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.

Pattern: `[a-zA-Z0-9]{30,40}`

Required: Yes

DataSetId

The unique identifier for a data set.

Pattern: `[a-zA-Z0-9]{30,40}`

Required: Yes

RevisionId

The unique identifier for a revision.

Pattern: `[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 Error Types.

AccessDeniedException

Access to the resource is denied.

Message

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.

Message

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

ResourceId

The unique identifier for the resource with the conflict.

ResourceType

The type of the resource with the conflict.

HTTP Status Code: 409

InternalServerException

An exception occurred with the service.

Message

The message identifying the service exception that occurred.

HTTP Status Code: 500

ResourceNotFoundException

The resource couldn't be found.

Message

The resource couldn't be found.

ResourceId

The unique identifier for the resource that couldn't be found.

ResourceType

The type of resource that couldn't be found.

HTTP Status Code: 404

ThrottlingException

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

Message

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

HTTP Status Code: 429

ValidationException

The request was invalid.

ExceptionCause

The unique identifier for the resource that couldn't be found.

Message

The message that informs you about what was invalid about the request.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2

- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- 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 Error Types.

AccessDeniedException

Access to the resource is denied.

Message

Access to the resource is denied.

HTTP Status Code: 403

InternalServerException

An exception occurred with the service.

Message

The message identifying the service exception that occurred.

HTTP Status Code: 500

ResourceNotFoundException

The resource couldn't be found.

Message

The resource couldn't be found.

ResourceId

The unique identifier for the resource that couldn't be found.

ResourceType

The type of resource that couldn't be found.

HTTP Status Code: 404

ThrottlingException

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

Message

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

HTTP Status Code: 429

ValidationException

The request was invalid.

ExceptionCause

The unique identifier for the resource that couldn't be found.

Message

The message that informs you about what was invalid about the request.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- 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.

Pattern: `[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 Error Types.

AccessDeniedException

Access to the resource is denied.

Message

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.

Message

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

ResourceId

The unique identifier for the resource with the conflict.

ResourceType

The type of the resource with the conflict.

HTTP Status Code: 409

InternalServerException

An exception occurred with the service.

Message

The message identifying the service exception that occurred.

HTTP Status Code: 500

ResourceNotFoundException

The resource couldn't be found.

Message

The resource couldn't be found.

ResourceId

The unique identifier for the resource that couldn't be found.

ResourceType

The type of resource that couldn't be found.

HTTP Status Code: 404

ThrottlingException

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

Message

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

HTTP Status Code: 429

ValidationException

The request was invalid.

ExceptionCause

The unique identifier for the resource that couldn't be found.

Message

The message that informs you about what was invalid about the request.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- 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 Error Types.

InternalServerException

An exception occurred with the service.

Message

The message identifying the service exception that occurred.

HTTP Status Code: 500

ResourceNotFoundException

The resource couldn't be found.

Message

The resource couldn't be found.

ResourceId

The unique identifier for the resource that couldn't be found.

ResourceType

The type of resource that couldn't be found.

HTTP Status Code: 404

ThrottlingException

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

Message

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

HTTP Status Code: 429

ValidationException

The request was invalid.

ExceptionCause

The unique identifier for the resource that couldn't be found.

Message

The message that informs you about what was invalid about the request.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- 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.

Pattern: `[a-zA-Z0-9]{30,40}`

Required: Yes

RevisionId

The unique identifier for a revision.

Pattern: `[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 Error Types.

AccessDeniedException

Access to the resource is denied.

Message

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.

Message

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

ResourceId

The unique identifier for the resource with the conflict.

ResourceType

The type of the resource with the conflict.

HTTP Status Code: 409

InternalServerException

An exception occurred with the service.

Message

The message identifying the service exception that occurred.

HTTP Status Code: 500

ResourceNotFoundException

The resource couldn't be found.

Message

The resource couldn't be found.

ResourceId

The unique identifier for the resource that couldn't be found.

ResourceType

The type of resource that couldn't be found.

HTTP Status Code: 404

ThrottlingException

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

Message

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

HTTP Status Code: 429

ValidationException

The request was invalid.

ExceptionCause

The unique identifier for the resource that couldn't be found.

Message

The message that informs you about what was invalid about the request.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++

- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- 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.

Pattern: `[a-zA-Z0-9]{30,40}`

Required: Yes

DataSetId

The unique identifier for a data set.

Pattern: `[a-zA-Z0-9]{30,40}`

Required: Yes

RevisionId

The unique identifier for a revision.

Pattern: `[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

{
   "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",
   "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 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

Pattern: `[a-zA-Z0-9]{30,40}`

Id

The unique identifier for the asset.

Type: String

Pattern: `[a-zA-Z0-9]{30,40}`

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

Pattern: `[a-zA-Z0-9]{30,40}`

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

Pattern: `[a-zA-Z0-9]{30,40}`

Tags

The tags for the asset.

Type: String to string map

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 Error Types.

InternalServerException

An exception occurred with the service.

Message

The message identifying the service exception that occurred.

HTTP Status Code: 500

ResourceNotFoundException

The resource couldn't be found.

Message

The resource couldn't be found.

ResourceId

The unique identifier for the resource that couldn't be found.

ResourceType

The type of resource that couldn't be found.

HTTP Status Code: 404

ThrottlingException

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

Message

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

HTTP Status Code: 429

ValidationException

The request was invalid.

ExceptionCause

The unique identifier for the resource that couldn't be found.

Message

The message that informs you about what was invalid about the request.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2

- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- 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

Pattern: `[a-zA-Z0-9]{30,40}`

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

Pattern: `[a-zA-Z0-9]{30,40}`

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

Pattern: [a-zA-Z0-9]{30,40}

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 Error Types.

AccessDeniedException

Access to the resource is denied.

Message

Access to the resource is denied.

HTTP Status Code: 403

InternalServerException

An exception occurred with the service.

Message

The message identifying the service exception that occurred.

HTTP Status Code: 500

ResourceNotFoundException

The resource couldn't be found.

Message

The resource couldn't be found.

ResourceId

The unique identifier for the resource that couldn't be found.

ResourceType

The type of resource that couldn't be found.

HTTP Status Code: 404

ThrottlingException

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

Message

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

HTTP Status Code: 429

ValidationException

The request was invalid.

ExceptionCause

The unique identifier for the resource that couldn't be found.

Message

The message that informs you about what was invalid about the request.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- 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.

Pattern: `[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

{
   "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

Pattern: `[a-zA-Z0-9]{30,40}`

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

Pattern: `[a-zA-Z0-9]{30,40}`

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 Error Types.

InternalServerException

An exception occurred with the service.

Message

The message identifying the service exception that occurred.

HTTP Status Code: 500

ResourceNotFoundException

The resource couldn't be found.

Message

The resource couldn't be found.

ResourceId

The unique identifier for the resource that couldn't be found.

ResourceType

The type of resource that couldn't be found.

HTTP Status Code: 404

ThrottlingException

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

Message

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

HTTP Status Code: 429

ValidationException

The request was invalid.

ExceptionCause

The unique identifier for the resource that couldn't be found.

Message

The message that informs you about what was invalid about the request.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- 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

Pattern: `[a-zA-Z0-9]{30,40}`

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 Error Types.

InternalServerException

An exception occurred with the service.

Message

The message identifying the service exception that occurred.

HTTP Status Code: 500

ResourceNotFoundException

The resource couldn't be found.

Message

The resource couldn't be found.

ResourceId

The unique identifier for the resource that couldn't be found.

ResourceType

The type of resource that couldn't be found.

HTTP Status Code: 404

ThrottlingException

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

Message

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

HTTP Status Code: 429

ValidationException

The request was invalid.

ExceptionCause

The unique identifier for the resource that couldn't be found.

Message

The message that informs you about what was invalid about the request.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- 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.

Pattern: `[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

{
   "Arn": "string",
   "AssetConfiguration": {
      "Tags": [
         {
            "Key": "string",
            "Value": "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

AssetConfiguration

The configuration for the asset, including tags applied to assets created by the job.

Type: AssetConfiguration object

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

Pattern: `[a-zA-Z0-9]{30,40}`

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 Error Types.

InternalServerException

An exception occurred with the service.

Message

The message identifying the service exception that occurred.

HTTP Status Code: 500

ResourceNotFoundException

The resource couldn't be found.

Message

The resource couldn't be found.

ResourceId

The unique identifier for the resource that couldn't be found.

ResourceType

The type of resource that couldn't be found.

HTTP Status Code: 404

ThrottlingException

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

Message

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

HTTP Status Code: 429

ValidationException

The request was invalid.

ExceptionCause

The unique identifier for the resource that couldn't be found.

Message

The message that informs you about what was invalid about the request.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- 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

Pattern: `[a-zA-Z0-9]{30,40}`

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

Pattern: `[a-zA-Z0-9]{30,40}`

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 Error Types.

AccessDeniedException

Access to the resource is denied.

Message

Access to the resource is denied.

HTTP Status Code: 403

InternalServerException

An exception occurred with the service.

Message

The message identifying the service exception that occurred.

HTTP Status Code: 500

ResourceNotFoundException

The resource couldn't be found.

Message

The resource couldn't be found.

ResourceId

The unique identifier for the resource that couldn't be found.

ResourceType

The type of resource that couldn't be found.

HTTP Status Code: 404

ThrottlingException

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

Message

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

HTTP Status Code: 429

ValidationException

The request was invalid.

ExceptionCause

The unique identifier for the resource that couldn't be found.

Message

The message that informs you about what was invalid about the request.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2

- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- 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.

Pattern: `[a-zA-Z0-9]{30,40}`

Required: Yes

RevisionId

The unique identifier for a revision.

Pattern: `[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

{
   "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

Pattern: `[a-zA-Z0-9]{30,40}`

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

Pattern: `[a-zA-Z0-9]{30,40}`

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

Pattern: `[a-zA-Z0-9]{30,40}`

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 Error Types.

InternalServerException

An exception occurred with the service.

Message

The message identifying the service exception that occurred.

HTTP Status Code: 500

ResourceNotFoundException

The resource couldn't be found.

Message

The resource couldn't be found.

ResourceId

The unique identifier for the resource that couldn't be found.

ResourceType

The type of resource that couldn't be found.

HTTP Status Code: 404

ThrottlingException

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

Message

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

HTTP Status Code: 429

ValidationException

The request was invalid.

ExceptionCause

The unique identifier for the resource that couldn't be found.

Message

The message that informs you about what was invalid about the request.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- 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 Error Types.

AccessDeniedException

Access to the resource is denied.

Message

Access to the resource is denied.

HTTP Status Code: 403

InternalServerException

An exception occurred with the service.

Message

The message identifying the service exception that occurred.

HTTP Status Code: 500

ResourceNotFoundException

The resource couldn't be found.

Message

The resource couldn't be found.

ResourceId

The unique identifier for the resource that couldn't be found.

ResourceType

The type of resource that couldn't be found.

HTTP Status Code: 404

ThrottlingException

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

Message

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

HTTP Status Code: 429

ValidationException

The request was invalid.

ExceptionCause

The unique identifier for the resource that couldn't be found.

Message

The message that informs you about what was invalid about the request.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

ListDataSetRevisions

This operation lists a data set's revisions sorted by CreatedAt in descending order.

Request Syntax

```
GET /v1/data-sets/DataSetId/revisions?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.

Pattern: `[a-zA-Z0-9]{30,40}`

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.

Request Body

The request does not have a request body.

Response Syntax

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

{
```

```
   "NextToken": "string",
   "Revisions": [
      {
         "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 Error Types.

InternalServerException

An exception occurred with the service.

Message

The message identifying the service exception that occurred.

HTTP Status Code: 500

ResourceNotFoundException

The resource couldn't be found.

Message

The resource couldn't be found.

ResourceId

The unique identifier for the resource that couldn't be found.

ResourceType

The type of resource that couldn't be found.

HTTP Status Code: 404

ThrottlingException

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

Message

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

HTTP Status Code: 429

ValidationException

The request was invalid.

ExceptionCause

The unique identifier for the resource that couldn't be found.

Message

The message that informs you about what was invalid about the request.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- 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 Error Types.

InternalServerException

An exception occurred with the service.

Message

The message identifying the service exception that occurred.

HTTP Status Code: 500

ResourceNotFoundException

The resource couldn't be found.

Message

The resource couldn't be found.

ResourceId

The unique identifier for the resource that couldn't be found.

ResourceType

The type of resource that couldn't be found.

HTTP Status Code: 404

ThrottlingException

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

Message

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

HTTP Status Code: 429

ValidationException

The request was invalid.

ExceptionCause

The unique identifier for the resource that couldn't be found.

Message

The message that informs you about what was invalid about the request.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- 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 Error Types.

InternalServerException

An exception occurred with the service.

Message

The message identifying the service exception that occurred.

HTTP Status Code: 500

ResourceNotFoundException

The resource couldn't be found.

Message

The resource couldn't be found.

ResourceId

The unique identifier for the resource that couldn't be found.

ResourceType

The type of resource that couldn't be found.

HTTP Status Code: 404

ThrottlingException

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

Message

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

HTTP Status Code: 429

ValidationException

The request was invalid.

ExceptionCause

The unique identifier for the resource that couldn't be found.

Message

The message that informs you about what was invalid about the request.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

ListJobs

This operation lists your jobs sorted by CreatedAt in descending order.

Request Syntax

```
GET /v1/jobs?
dataSetId=DataSetId&maxResults=MaxResults&nextToken=NextToken&revisionId=RevisionId
 HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

DataSetId

The unique identifier for a data set.

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.

Request Body

The request does not have a request body.

Response Syntax

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

{
   "Jobs": [
```

```
{
   "Arn": "string",
   "AssetConfiguration": {
      "Tags": [
         {
            "Key": "string",
            "Value": "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 Error Types.

InternalServerException

An exception occurred with the service.

Message

The message identifying the service exception that occurred.

HTTP Status Code: 500

ResourceNotFoundException

The resource couldn't be found.

Message

The resource couldn't be found.

ResourceId

The unique identifier for the resource that couldn't be found.

ResourceType

The type of resource that couldn't be found.

HTTP Status Code: 404

ThrottlingException

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

Message

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

HTTP Status Code: 429

ValidationException

The request was invalid.

ExceptionCause

The unique identifier for the resource that couldn't be found.

Message

The message that informs you about what was invalid about the request.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- 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 Error Types.

AccessDeniedException

Access to the resource is denied.

Message

Access to the resource is denied.

HTTP Status Code: 403

InternalServerException

An exception occurred with the service.

Message

The message identifying the service exception that occurred.

HTTP Status Code: 500

ResourceNotFoundException

The resource couldn't be found.

Message

The resource couldn't be found.

ResourceId

The unique identifier for the resource that couldn't be found.

ResourceType

The type of resource that couldn't be found.

HTTP Status Code: 404

ThrottlingException

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

Message

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

HTTP Status Code: 429

ValidationException

The request was invalid.

ExceptionCause

The unique identifier for the resource that couldn't be found.

Message

The message that informs you about what was invalid about the request.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- 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.

Pattern: `[a-zA-Z0-9]{30,40}`

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.

Pattern: `[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

{
   "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 Error Types.

InternalServerException

An exception occurred with the service.

Message

The message identifying the service exception that occurred.

HTTP Status Code: 500

ResourceNotFoundException

The resource couldn't be found.

Message

The resource couldn't be found.

ResourceId

The unique identifier for the resource that couldn't be found.

ResourceType

The type of resource that couldn't be found.

HTTP Status Code: 404

ThrottlingException

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

Message

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

HTTP Status Code: 429

ValidationException

The request was invalid.

ExceptionCause

The unique identifier for the resource that couldn't be found.

Message

The message that informs you about what was invalid about the request.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- 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 Error Types.

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- 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.

Pattern: `[a-zA-Z0-9]{30,40}`

Required: Yes

RevisionId

The unique identifier for a revision.

Pattern: `[a-zA-Z0-9]{30,40}`

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

Pattern: `[a-zA-Z0-9]{30,40}`

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

Pattern: `[a-zA-Z0-9]{30,40}`

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

Pattern: `[a-zA-Z0-9]{30,40}`

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 Error Types.

AccessDeniedException

Access to the resource is denied.

Message

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.

Message

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

ResourceId

The unique identifier for the resource with the conflict.

ResourceType

The type of the resource with the conflict.

HTTP Status Code: 409

InternalServerException

An exception occurred with the service.

Message

The message identifying the service exception that occurred.

HTTP Status Code: 500

ResourceNotFoundException

The resource couldn't be found.

Message

The resource couldn't be found.

ResourceId

The unique identifier for the resource that couldn't be found.

ResourceType

The type of resource that couldn't be found.

HTTP Status Code: 404

ThrottlingException

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

Message

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

HTTP Status Code: 429

ValidationException

The request was invalid.

ExceptionCause

The unique identifier for the resource that couldn't be found.

Message

The message that informs you about what was invalid about the request.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- 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 Error Types.

AccessDeniedException

Access to the resource is denied.

Message

Access to the resource is denied.

HTTP Status Code: 403

InternalServerException

An exception occurred with the service.

Message

The message identifying the service exception that occurred.

HTTP Status Code: 500

ResourceNotFoundException

The resource couldn't be found.

Message

The resource couldn't be found.

ResourceId

The unique identifier for the resource that couldn't be found.

ResourceType

The type of resource that couldn't be found.

HTTP Status Code: 404

ThrottlingException

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

Message

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

HTTP Status Code: 429

ValidationException

The request was invalid.

ExceptionCause

The unique identifier for the resource that couldn't be found.

Message

The message that informs you about what was invalid about the request.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- 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.

Pattern: `[a-zA-Z0-9]{30,40}`

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 Error Types.

AccessDeniedException

Access to the resource is denied.

Message

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.

Message

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

ResourceId

The unique identifier for the resource with the conflict.

ResourceType

The type of the resource with the conflict.

HTTP Status Code: 409

InternalServerException

An exception occurred with the service.

Message

The message identifying the service exception that occurred.

HTTP Status Code: 500

ResourceNotFoundException

The resource couldn't be found.

Message

The resource couldn't be found.

ResourceId

The unique identifier for the resource that couldn't be found.

ResourceType

The type of resource that couldn't be found.

HTTP Status Code: 404

ThrottlingException

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

Message

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

HTTP Status Code: 429

ValidationException

The request was invalid.

ExceptionCause

The unique identifier for the resource that couldn't be found.

Message

The message that informs you about what was invalid about the request.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++

- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- 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.

Pattern: `[a-zA-Z0-9]{30,40}`

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 Error Types.

AccessDeniedException

Access to the resource is denied.

Message

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.

Message

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

ResourceId

The unique identifier for the resource with the conflict.

ResourceType

The type of the resource with the conflict.

HTTP Status Code: 409

InternalServerException

An exception occurred with the service.

Message

The message identifying the service exception that occurred.

HTTP Status Code: 500

ResourceNotFoundException

The resource couldn't be found.

Message

The resource couldn't be found.

ResourceId

The unique identifier for the resource that couldn't be found.

ResourceType

The type of resource that couldn't be found.

HTTP Status Code: 404

ThrottlingException

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

Message

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

HTTP Status Code: 429

ValidationException

The request was invalid.

ExceptionCause

The unique identifier for the resource that couldn't be found.

Message

The message that informs you about what was invalid about the request.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- 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 Error Types.

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- 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 Error Types.

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- 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.

Pattern: `[a-zA-Z0-9]{30,40}`

Required: Yes

DataSetId

The unique identifier for a data set.

Pattern: `[a-zA-Z0-9]{30,40}`

Required: Yes

RevisionId

The unique identifier for a revision.

Pattern: `[a-zA-Z0-9]{30,40}`

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

Pattern: `[a-zA-Z0-9]{30,40}`

Id

The unique identifier for the asset.

Type: String

Pattern: `[a-zA-Z0-9]{30,40}`

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

Pattern: `[a-zA-Z0-9]{30,40}`

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

Pattern: `[a-zA-Z0-9]{30,40}`

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 Error Types.

AccessDeniedException

Access to the resource is denied.

Message

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.

Message

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

ResourceId

The unique identifier for the resource with the conflict.

ResourceType

The type of the resource with the conflict.

HTTP Status Code: 409

InternalServerException

An exception occurred with the service.

Message

The message identifying the service exception that occurred.

HTTP Status Code: 500

ResourceNotFoundException

The resource couldn't be found.

Message

The resource couldn't be found.

ResourceId

The unique identifier for the resource that couldn't be found.

ResourceType

The type of resource that couldn't be found.

HTTP Status Code: 404

ThrottlingException

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

Message

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

HTTP Status Code: 429

ValidationException

The request was invalid.

ExceptionCause

The unique identifier for the resource that couldn't be found.

Message

The message that informs you about what was invalid about the request.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin

- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- 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.

Pattern: `[a-zA-Z0-9]{30,40}`

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

Pattern: `[a-zA-Z0-9]{30,40}`

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

Pattern: `[a-zA-Z0-9]{30,40}`

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 Error Types.

AccessDeniedException

Access to the resource is denied.

Message

Access to the resource is denied.

HTTP Status Code: 403

InternalServerException

An exception occurred with the service.

Message

The message identifying the service exception that occurred.

HTTP Status Code: 500

ResourceNotFoundException

The resource couldn't be found.

Message

The resource couldn't be found.

ResourceId

The unique identifier for the resource that couldn't be found.

ResourceType

The type of resource that couldn't be found.

HTTP Status Code: 404

ThrottlingException

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

Message

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

HTTP Status Code: 429

ValidationException

The request was invalid.

ExceptionCause

The unique identifier for the resource that couldn't be found.

Message

The message that informs you about what was invalid about the request.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin

- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- 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

Pattern: `[a-zA-Z0-9]{30,40}`

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 Error Types.

AccessDeniedException

Access to the resource is denied.

Message

Access to the resource is denied.

HTTP Status Code: 403

InternalServerException

An exception occurred with the service.

Message

The message identifying the service exception that occurred.

HTTP Status Code: 500

ResourceNotFoundException

The resource couldn't be found.

Message

The resource couldn't be found.

ResourceId

The unique identifier for the resource that couldn't be found.

ResourceType

The type of resource that couldn't be found.

HTTP Status Code: 404

ThrottlingException

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

Message

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

HTTP Status Code: 429

ValidationException

The request was invalid.

ExceptionCause

The unique identifier for the resource that couldn't be found.

Message

The message that informs you about what was invalid about the request.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- 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.

Pattern: `[a-zA-Z0-9]{30,40}`

Required: Yes

RevisionId

The unique identifier for a revision.

Pattern: `[a-zA-Z0-9]{30,40}`

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

Pattern: `[a-zA-Z0-9]{30,40}`

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

Pattern: `[a-zA-Z0-9]{30,40}`

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

Pattern: `[a-zA-Z0-9]{30,40}`

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 Error Types.

AccessDeniedException

Access to the resource is denied.

Message

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.

Message

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

ResourceId

The unique identifier for the resource with the conflict.

ResourceType

The type of the resource with the conflict.

HTTP Status Code: 409

InternalServerException

An exception occurred with the service.

Message

The message identifying the service exception that occurred.

HTTP Status Code: 500

ResourceNotFoundException

The resource couldn't be found.

Message

The resource couldn't be found.

ResourceId

The unique identifier for the resource that couldn't be found.

ResourceType

The type of resource that couldn't be found.

HTTP Status Code: 404

ThrottlingException

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

Message

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

HTTP Status Code: 429

ValidationException

The request was invalid.

ExceptionCause

The unique identifier for the resource that couldn't be found.

Message

The message that informs you about what was invalid about the request.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- 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
- AssetConfiguration
- 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
- Tag

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

AssetConfiguration

The configuration for the asset, which can include tags.

Contents

Tags

The tags to be applied to assets created by the job.

Type: Array of Tag objects

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

AssetDestinationEntry

The destination for the asset.

Contents

AssetId

The unique identifier for the asset.

Type: String

Pattern: `[a-zA-Z0-9]{30,40}`

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

Pattern: `[a-zA-Z0-9]{30,40}`

Required: Yes

Id

The unique identifier for the asset.

Type: String

Pattern: `[a-zA-Z0-9]{30,40}`

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

Pattern: `[a-zA-Z0-9]{30,40}`

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

Pattern: `[a-zA-Z0-9]{30,40}`

Required: No

See Also

For more information about using this API in 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

Pattern: `[a-zA-Z0-9]{30,40}`

Required: Yes

RevisionId

The unique identifier for a revision.

Type: String

Pattern: `[a-zA-Z0-9]{30,40}`

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

Pattern: `[a-zA-Z0-9]{30,40}`

Required: Yes

RevisionId

The unique identifier for the revision.

Type: String

Pattern: `[a-zA-Z0-9]{30,40}`

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

Pattern: `[a-zA-Z0-9]{30,40}`

Required: Yes

Id

The ID of the data grant.

Type: String

Pattern: `[a-zA-Z0-9]{30,40}`

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

Pattern: `[a-zA-Z0-9]{30,40}`

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

Pattern: `[a-zA-Z0-9]{30,40}`

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

Pattern: `[a-zA-Z0-9]{30,40}`

Required: No

See Also

For more information about using this API in 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

Pattern: `[a-zA-Z0-9]{30,40}`

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

Pattern: `[a-zA-Z0-9]{30,40}`

Required: Yes

RevisionId

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

Type: String

Pattern: `[a-zA-Z0-9]{30,40}`

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

Pattern: `[a-zA-Z0-9]{30,40}`

Required: Yes

RevisionId

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

Type: String

Pattern: `[a-zA-Z0-9]{30,40}`

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

Pattern: `[a-zA-Z0-9]{30,40}`

Required: Yes

DataSetId

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

Type: String

Pattern: `[a-zA-Z0-9]{30,40}`

Required: Yes

RevisionId

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

Type: String

Pattern: `[a-zA-Z0-9]{30,40}`

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

Pattern: `[a-zA-Z0-9]{30,40}`

Required: Yes

DataSetId

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

Type: String

Pattern: `[a-zA-Z0-9]{30,40}`

Required: Yes

RevisionId

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

Type: String

Pattern: `[a-zA-Z0-9]{30,40}`

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

Pattern: `[a-zA-Z0-9]{30,40}`

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

Pattern: `[a-zA-Z0-9]{30,40}`

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

Pattern: `[a-zA-Z0-9]{30,40}`

Required: Yes

ProtocolType

The protocol type.

Type: String

Valid Values: REST

Required: Yes

RevisionId

The revision ID.

Type: String

Pattern: [a-zA-Z0-9]{30,40}

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

Pattern: `[a-zA-Z0-9]{30,40}`

Required: Yes

ProtocolType

The protocol type.

Type: String

Valid Values: `REST`

Required: Yes

RevisionId

The revision ID.

Type: String

Pattern: `[a-zA-Z0-9]{30,40}`

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

Pattern: `[a-zA-Z0-9]{30,40}`

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

Pattern: `[a-zA-Z0-9]{30,40}`

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

Pattern: `[a-zA-Z0-9]{30,40}`

Required: Yes

RevisionId

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

Type: String

Pattern: `[a-zA-Z0-9]{30,40}`

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

Pattern: `[a-zA-Z0-9]{30,40}`

Required: Yes

RevisionId

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

Type: String

Pattern: `[a-zA-Z0-9]{30,40}`

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

Pattern: `[a-zA-Z0-9]{30,40}`

Required: Yes

RevisionId

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

Type: String

Pattern: `[a-zA-Z0-9]{30,40}`

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

Pattern: `[a-zA-Z0-9]{30,40}`

Required: Yes

RevisionId

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

Type: String

Pattern: `[a-zA-Z0-9]{30,40}`

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

Pattern: `[a-zA-Z0-9]{30,40}`

Required: Yes

RevisionId

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

Type: String

Pattern: `[a-zA-Z0-9]{30,40}`

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

Pattern: `[a-zA-Z0-9]{30,40}`

Required: Yes

RevisionId

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

Type: String

Pattern: `[a-zA-Z0-9]{30,40}`

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

Pattern: `[a-zA-Z0-9]{30,40}`

Required: Yes

RevisionId

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

Type: String

Pattern: `[a-zA-Z0-9]{30,40}`

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

Pattern: `[a-zA-Z0-9]{30,40}`

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

AssetConfiguration

The configuration for the asset, including tags applied to assets created by the job.

Type: AssetConfiguration object

Required: No

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

Pattern: `[a-zA-Z0-9]{30,40}`

Required: Yes

Id

The ID of the data grant.

Type: String

Pattern: `[a-zA-Z0-9]{30,40}`

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

Pattern: `[a-zA-Z0-9]{30,40}`

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

Pattern: `[a-zA-Z0-9]{30,40}`

Required: Yes

Id

The unique identifier for the revision.

Type: String

Pattern: `[a-zA-Z0-9]{30,40}`

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

Pattern: `[a-zA-Z0-9]{30,40}`

Required: No

See Also

For more information about using this API in 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

Pattern: `[a-zA-Z0-9]{30,40}`

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

Tag

A tag consisting of a key-value pair that can be applied to a resource.

Contents

Key

The key of the tag.

Type: String

Required: Yes

Value

The value of the tag.

Type: String

Required: Yes

See Also

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

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

Common Parameters

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

X-Amz-Algorithm

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

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

Type: string

Valid Values: `AWS4-HMAC-SHA256`

Required: Conditional

X-Amz-Credential

The credential scope value, which is a string that includes your access key, the date, the region you are targeting, the service you are requesting, and a termination string ("aws4_request"). The value is expressed in the following format: *access_key*/*YYYYMMDD*/*region*/*service*/aws4_request.

For more information, see Create a signed AWS API request in the *IAM User Guide*.

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

Type: string

Required: Conditional

X-Amz-Date

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

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

Type: string

Required: Conditional

X-Amz-Security-Token

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

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

Type: string

Required: Conditional

X-Amz-Signature

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

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

Type: string

Required: Conditional

X-Amz-SignedHeaders

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

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

Type: string

Required: Conditional

Common Error Types

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

AccessDeniedException

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

HTTP Status Code: 403

ExpiredTokenException

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

HTTP Status Code: 403

IncompleteSignature

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

HTTP Status Code: 403

InternalFailure

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

HTTP Status Code: 500

MalformedHttpRequestException

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

HTTP Status Code: 400

NotAuthorized

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

HTTP Status Code: 401

OptInRequired

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

HTTP Status Code: 403

RequestAbortedException

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

HTTP Status Code: 400

RequestEntityTooLargeException

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

HTTP Status Code: 413

RequestTimeoutException

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

HTTP Status Code: 408

ServiceUnavailable

The service is temporarily unavailable. Try again later.

HTTP Status Code: 503

ThrottlingException

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

HTTP Status Code: 400

UnknownOperationException

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

HTTP Status Code: 404

UnrecognizedClientException

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

HTTP Status Code: 403

ValidationError

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

HTTP Status Code: 400