



Welcome

NeptuneAnalyticsAPI



API Version 2023-11-29

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NeptuneAnalyticsAPI: Welcome

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Table of Contents

Welcome	1
Actions	2
CancelExportTask	4
Request Syntax	4
URI Request Parameters	4
Request Body	4
Response Syntax	4
Response Elements	5
Errors	6
See Also	8
CancelImportTask	9
Request Syntax	9
URI Request Parameters	9
Request Body	9
Response Syntax	9
Response Elements	10
Errors	11
See Also	12
CancelQuery	14
Request Syntax	14
URI Request Parameters	14
Request Body	14
Response Syntax	14
Response Elements	14
Errors	15
See Also	16
CreateGraph	17
Request Syntax	17
URI Request Parameters	17
Request Body	17
Response Syntax	20
Response Elements	20
Errors	23
See Also	25

CreateGraphSnapshot	26
Request Syntax	26
URI Request Parameters	26
Request Body	26
Response Syntax	27
Response Elements	27
Errors	29
See Also	31
CreateGraphUsingImportTask	32
Request Syntax	32
URI Request Parameters	32
Request Body	33
Response Syntax	37
Response Elements	37
Errors	39
See Also	40
CreatePrivateGraphEndpoint	42
Request Syntax	42
URI Request Parameters	42
Request Body	42
Response Syntax	43
Response Elements	43
Errors	44
See Also	46
DeleteGraph	48
Request Syntax	48
URI Request Parameters	48
Request Body	48
Response Syntax	48
Response Elements	49
Errors	51
See Also	53
DeleteGraphSnapshot	54
Request Syntax	54
URI Request Parameters	54
Request Body	54

Response Syntax	54
Response Elements	55
Errors	56
See Also	57
DeletePrivateGraphEndpoint	59
Request Syntax	59
URI Request Parameters	59
Request Body	59
Response Syntax	59
Response Elements	60
Errors	60
See Also	62
ExecuteQuery	63
Request Syntax	63
URI Request Parameters	63
Request Body	64
Response Syntax	65
Response Elements	65
Errors	65
See Also	67
GetExportTask	68
Request Syntax	68
URI Request Parameters	68
Request Body	68
Response Syntax	68
Response Elements	69
Errors	71
See Also	72
GetGraph	74
Request Syntax	74
URI Request Parameters	74
Request Body	74
Response Syntax	74
Response Elements	75
Errors	77
See Also	78

GetGraphSnapshot	80
Request Syntax	80
URI Request Parameters	80
Request Body	80
Response Syntax	80
Response Elements	81
Errors	82
See Also	83
GetGraphSummary	84
Request Syntax	84
URI Request Parameters	84
Request Body	84
Response Syntax	84
Response Elements	85
Errors	86
See Also	87
GetImportTask	89
Request Syntax	89
URI Request Parameters	89
Request Body	89
Response Syntax	89
Response Elements	90
Errors	92
See Also	93
GetPrivateGraphEndpoint	95
Request Syntax	95
URI Request Parameters	95
Request Body	95
Response Syntax	95
Response Elements	96
Errors	96
See Also	97
GetQuery	99
Request Syntax	99
URI Request Parameters	99
Request Body	99

Response Syntax	99
Response Elements	100
Errors	101
See Also	102
ListExportTasks	103
Request Syntax	103
URI Request Parameters	103
Request Body	103
Response Syntax	103
Response Elements	104
Errors	104
See Also	105
ListGraphs	107
Request Syntax	107
URI Request Parameters	107
Request Body	107
Response Syntax	107
Response Elements	108
Errors	109
See Also	109
ListGraphSnapshots	111
Request Syntax	111
URI Request Parameters	111
Request Body	111
Response Syntax	112
Response Elements	112
Errors	113
See Also	114
ListImportTasks	115
Request Syntax	115
URI Request Parameters	115
Request Body	115
Response Syntax	115
Response Elements	116
Errors	116
See Also	117

ListPrivateGraphEndpoints	119
Request Syntax	119
URI Request Parameters	119
Request Body	120
Response Syntax	120
Response Elements	120
Errors	121
See Also	122
ListQueries	123
Request Syntax	123
URI Request Parameters	123
Request Body	123
Response Syntax	123
Response Elements	124
Errors	124
See Also	125
ListTagsForResource	127
Request Syntax	127
URI Request Parameters	127
Request Body	127
Response Syntax	127
Response Elements	127
Errors	128
See Also	129
ResetGraph	130
Request Syntax	130
URI Request Parameters	130
Request Body	130
Response Syntax	131
Response Elements	131
Errors	134
See Also	135
RestoreGraphFromSnapshot	136
Request Syntax	136
URI Request Parameters	136
Request Body	136

Response Syntax	138
Response Elements	139
Errors	141
See Also	143
StartExportTask	144
Request Syntax	144
URI Request Parameters	145
Request Body	145
Response Syntax	147
Response Elements	148
Errors	150
See Also	151
StartGraph	152
Request Syntax	152
URI Request Parameters	152
Request Body	152
Response Syntax	152
Response Elements	153
Errors	155
See Also	156
StartImportTask	158
Request Syntax	158
URI Request Parameters	158
Request Body	158
Response Syntax	160
Response Elements	160
Errors	162
See Also	163
StopGraph	165
Request Syntax	165
URI Request Parameters	165
Request Body	165
Response Syntax	165
Response Elements	166
Errors	168
See Also	169

TagResource	171
Request Syntax	171
URI Request Parameters	171
Request Body	171
Response Syntax	172
Response Elements	172
Errors	172
See Also	173
UntagResource	175
Request Syntax	175
URI Request Parameters	175
Request Body	175
Response Syntax	175
Response Elements	176
Errors	176
See Also	177
UpdateGraph	178
Request Syntax	178
URI Request Parameters	178
Request Body	178
Response Syntax	179
Response Elements	180
Errors	182
See Also	183
Data Types	185
EdgeStructure	186
Contents	186
See Also	186
ExportFilter	187
Contents	187
See Also	187
ExportFilterElement	188
Contents	188
See Also	188
ExportFilterPropertyAttributes	189
Contents	189

See Also	190
ExportTaskDetails	191
Contents	191
See Also	192
ExportTaskSummary	193
Contents	193
See Also	195
GraphDataSummary	196
Contents	196
See Also	198
GraphSnapshotSummary	199
Contents	199
See Also	200
GraphSummary	202
Contents	202
See Also	204
ImportOptions	205
Contents	205
See Also	205
ImportTaskDetails	206
Contents	206
See Also	207
ImportTaskSummary	208
Contents	208
See Also	209
NeptuneImportOptions	210
Contents	210
See Also	211
NodeStructure	212
Contents	212
See Also	212
PrivateGraphEndpointSummary	213
Contents	213
See Also	214
QuerySummary	215
Contents	215

See Also	216
VectorSearchConfiguration	217
Contents	217
See Also	217
Common Parameters	218
Common Errors	221

Welcome

Neptune Analytics is a new analytics database engine for Amazon Neptune that helps customers get to insights faster by quickly processing large amounts of graph data, invoking popular graph analytic algorithms in low-latency queries, and getting analytics results in seconds.

This document was last published on January 15, 2026.

Actions

The following actions are supported:

- [CancelExportTask](#)
- [CancelImportTask](#)
- [CancelQuery](#)
- [CreateGraph](#)
- [CreateGraphSnapshot](#)
- [CreateGraphUsingImportTask](#)
- [CreatePrivateGraphEndpoint](#)
- [DeleteGraph](#)
- [DeleteGraphSnapshot](#)
- [DeletePrivateGraphEndpoint](#)
- [ExecuteQuery](#)
- [GetExportTask](#)
- [GetGraph](#)
- [GetGraphSnapshot](#)
- [GetGraphSummary](#)
- [GetImportTask](#)
- [GetPrivateGraphEndpoint](#)
- [GetQuery](#)
- [ListExportTasks](#)
- [ListGraphs](#)
- [ListGraphSnapshots](#)
- [ListImportTasks](#)
- [ListPrivateGraphEndpoints](#)
- [ListQueries](#)
- [ListTagsForResource](#)
- [ResetGraph](#)
- [RestoreGraphFromSnapshot](#)

- [StartExportTask](#)
- [StartGraph](#)
- [StartImportTask](#)
- [StopGraph](#)
- [TagResource](#)
- [UntagResource](#)
- [UpdateGraph](#)

CancelExportTask

Cancel the specified export task.

Request Syntax

```
DELETE /exporttasks/taskIdIdentifier HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

taskIdIdentifier

The unique identifier of the export task.

Pattern: t-[a-z0-9]{10}

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
  "destination": "string",
  "format": "string",
  "graphId": "string",
  "kmsKeyIdentifier": "string",
  "parquetType": "string",
  "roleArn": "string",
  "status": "string",
  "statusReason": "string",
  "taskId": "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.

destination

The Amazon S3 URI of the cancelled export task where data will be exported to.

Type: String

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

format

The format of the cancelled export task.

Type: String

Valid Values: PARQUET | CSV

graphId

The source graph identifier of the cancelled export task.

Type: String

Pattern: g-[a-z0-9]{10}

kmsKeyIdentifier

The KMS key identifier of the cancelled export task.

Type: String

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

Pattern: arn:aws(|-cn|-us-gov):kms:[a-zA-Z0-9-]*:[0-9]{12}:key/[a-zA-Z0-9-]{36}

parquetType

The parquet type of the cancelled export task.

Type: String

Valid Values: COLUMNAR

roleArn

The ARN of the IAM role that will allow the exporting of data to the destination.

Type: String

Pattern: `arn:aws[^:]*:iam::\d{12}:(role|role/service-role)(/[\w+=,.\@-]+)+`

status

The current status of the export task. The status is CANCELLING when the export task is cancelled.

Type: String

Valid Values: INITIALIZING | EXPORTING | SUCCEEDED | FAILED | CANCELLING | CANCELLED | DELETED

statusReason

The reason that the export task has this status value.

Type: String

taskId

The unique identifier of the export task.

Type: String

Pattern: `t-[a-z0-9]{10}`

Errors

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

ConflictException

Raised when a conflict is encountered.

message

A message describing the problem.

reason

The reason for the conflict exception.

HTTP Status Code: 409

InternalServerErrorException

A failure occurred on the server.

message

A message describing the problem.

HTTP Status Code: 500

ResourceNotFoundException

A specified resource could not be located.

message

A message describing the problem.

HTTP Status Code: 404

ThrottlingException

The exception was interrupted by throttling.

message

A message describing the problem.

HTTP Status Code: 429

ValidationException

A resource could not be validated.

message

A message describing the problem.

reason

The reason that the resource could not be validated.

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

CancelImportTask

Deletes the specified import task.

Request Syntax

```
DELETE /importtasks/taskIdentifier HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

taskIdentifier

The unique identifier of the import task.

Pattern: t-[a-z0-9]{10}

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

```
{  
  "format": "string",  
  "graphId": "string",  
  "parquetType": "string",  
  "roleArn": "string",  
  "source": "string",  
  "status": "string",  
  "taskId": "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.

format

Specifies the format of S3 data to be imported. Valid values are CSV, which identifies the [Gremlin CSV format](#) or OPENCYPHER, which identifies the [openCypher load format](#).

Type: String

Valid Values: CSV | OPEN_CYPHER | PARQUET | NTRIPLES

graphId

The unique identifier of the Neptune Analytics graph.

Type: String

Pattern: g-[a-z0-9]{10}

parquetType

The parquet type of the cancelled import task.

Type: String

Valid Values: COLUMNAR

roleArn

The ARN of the IAM role that will allow access to the data that is to be imported.

Type: String

Pattern: arn:aws[^:]*:iam::\d{12}:(role|role/service-role)(/[\w+=, .@-]+)+

source

A URL identifying to the location of the data to be imported. This can be an Amazon S3 path, or can point to a Neptune database endpoint or snapshot.

Type: String

status

Current status of the task. Status is CANCELLING when the import task is cancelled.

Type: String

Valid Values: INITIALIZING | EXPORTING | ANALYZING_DATA | IMPORTING | REPROVISIONING | ROLLING_BACK | SUCCEEDED | FAILED | CANCELLING | CANCELLED | DELETED

taskId

The unique identifier of the import task.

Type: String

Pattern: t-[a-z0-9]{10}

Errors

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

ConflictException

Raised when a conflict is encountered.

message

A message describing the problem.

reason

The reason for the conflict exception.

HTTP Status Code: 409

InternalServerError

A failure occurred on the server.

message

A message describing the problem.

HTTP Status Code: 500

ResourceNotFoundException

A specified resource could not be located.

message

A message describing the problem.

HTTP Status Code: 404

ThrottlingException

The exception was interrupted by throttling.

message

A message describing the problem.

HTTP Status Code: 429

ValidationException

A resource could not be validated.

message

A message describing the problem.

reason

The reason that the resource could not be validated.

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](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)

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

CancelQuery

Cancels a specified query.

Request Syntax

```
DELETE /queries/queryId HTTP/1.1  
graphIdentifier: graphIdentifier
```

URI Request Parameters

The request uses the following URI parameters.

graphIdentifier

The unique identifier of the Neptune Analytics graph.

Pattern: g-[a-z0-9]{10}

Required: Yes

queryId

The unique identifier of the query to cancel.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

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

Errors

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

AccessDeniedException

Raised in case of an authentication or authorization failure.

message

A message describing the problem.

HTTP Status Code: 403

InternalServerError

A failure occurred on the server.

message

A message describing the problem.

HTTP Status Code: 500

ResourceNotFoundException

A specified resource could not be located.

message

A message describing the problem.

HTTP Status Code: 404

ThrottlingException

The exception was interrupted by throttling.

message

A message describing the problem.

HTTP Status Code: 429

ValidationException

A resource could not be validated.

message

A message describing the problem.

reason

The reason that the resource could not be validated.

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

CreateGraph

Creates a new Neptune Analytics graph.

Request Syntax

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

{
  "deletionProtection": boolean,
  "graphName": "string",
  "kmsKeyId": "string",
  "provisionedMemory": number,
  "publicConnectivity": boolean,
  "replicaCount": number,
  "tags": {
    "string" : "string"
  },
  "vectorSearchConfiguration": {
    "dimension": number
  }
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

deletionProtection

Indicates whether or not to enable deletion protection on the graph. The graph can't be deleted when deletion protection is enabled. (true or false).

Type: Boolean

Required: No

graphName

A name for the new Neptune Analytics graph to be created.

The name must contain from 1 to 63 letters, numbers, or hyphens, and its first character must be a letter. It cannot end with a hyphen or contain two consecutive hyphens. Only lowercase letters are allowed.

Type: String

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

Pattern: (?!g-)[a-z][a-z0-9]*(-[a-z0-9]+)*

Required: Yes

kmsKeyIdentifier

Specifies a KMS key to use to encrypt data in the new graph.

Type: String

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

Pattern: arn:aws(|-cn|-us-gov):kms:[a-zA-Z0-9-]*:[0-9]{12}:key/[a-zA-Z0-9-]{36}

Required: No

provisionedMemory

The provisioned memory-optimized Neptune Capacity Units (m-NCUs) to use for the graph. Min = 16

Type: Integer

Valid Range: Minimum value of 16. Maximum value of 24576.

Required: Yes

publicConnectivity

Specifies whether or not the graph can be reachable over the internet. All access to graphs is IAM authenticated. (true to enable, or false to disable.

Type: Boolean

Required: No

replicaCount

The number of replicas in other AZs. Min =0, Max = 2, Default = 1.

Important

Additional charges equivalent to the m-NCUs selected for the graph apply for each replica.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 2.

Required: No

tags

Adds metadata tags to the new graph. These tags can also be used with cost allocation reporting, or used in a Condition statement in an IAM policy.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

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

Key Pattern: `(?!aws:)[a-zA-Z+-=._:/]+`

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

Required: No

vectorSearchConfiguration

Specifies the number of dimensions for vector embeddings that will be loaded into the graph. The value is specified as `dimension=value`. Max = 65,535

Type: [VectorSearchConfiguration](#) object

Required: No

Response Syntax

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

{
  "arn": "string",
  "buildNumber": "string",
  "createTime": number,
  "deletionProtection": boolean,
  "endpoint": "string",
  "id": "string",
  "kmsKeyIdentifier": "string",
  "name": "string",
  "provisionedMemory": number,
  "publicConnectivity": boolean,
  "replicaCount": number,
  "sourceSnapshotId": "string",
  "status": "string",
  "statusReason": "string",
  "vectorSearchConfiguration": {
    "dimension": number
  }
}
```

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 of the graph.

Type: String

buildNumber

The build number of the graph software.

Type: String

createTime

The time when the graph was created.

Type: Timestamp

deletionProtection

A value that indicates whether the graph has deletion protection enabled. The graph can't be deleted when deletion protection is enabled.

Type: Boolean

endpoint

The graph endpoint.

Type: String

id

The ID of the graph.

Type: String

Pattern: g-[a-z0-9]{10}

kmsKeyIdentifier

Specifies the KMS key used to encrypt data in the new graph.

Type: String

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

Pattern: arn:aws(|-cn|-us-gov):kms:[a-zA-Z0-9-]*:[0-9]{12}:key/[a-zA-Z0-9-]{36}

name

The graph name. For example: my-graph-1.

The name must contain from 1 to 63 letters, numbers, or hyphens, and its first character must be a letter. It cannot end with a hyphen or contain two consecutive hyphens. Only lowercase letters are allowed.

Type: String

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

Pattern: (?!g-)[a-z][a-z0-9]*(-[a-z0-9]+)*

provisionedMemory

The provisioned memory-optimized Neptune Capacity Units (m-NCUs) to use for the graph.

Min = 16

Type: Integer

Valid Range: Minimum value of 16. Maximum value of 24576.

publicConnectivity

Specifies whether or not the graph can be reachable over the internet. All access to graphs is IAM authenticated.

Note

If enabling public connectivity for the first time, there will be a delay while it is enabled.

Type: Boolean

replicaCount

The number of replicas in other AZs.

Default: If not specified, the default value is 1.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 2.

sourceSnapshotId

The ID of the source graph.

Type: String

Pattern: gs-[a-z0-9]{10}

status

The current status of the graph.

Type: String

Valid Values: CREATING | AVAILABLE | DELETING | RESETTING | UPDATING |
SNAPSHOTTING | FAILED | IMPORTING | STARTING | STOPPING | STOPPED

statusReason

The reason the status was given.

Type: String

vectorSearchConfiguration

The vector-search configuration for the graph, which specifies the vector dimension to use in the vector index, if any.

Type: [VectorSearchConfiguration](#) object

Errors

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

ConflictException

Raised when a conflict is encountered.

message

A message describing the problem.

reason

The reason for the conflict exception.

HTTP Status Code: 409

InternalServerErrorException

A failure occurred on the server.

message

A message describing the problem.

HTTP Status Code: 500

ServiceQuotaExceededException

A service quota was exceeded.

quotaCode

Service quota code of the resource for which quota was exceeded.

resourceId

The identifier of the resource that exceeded quota.

resourceType

The type of the resource that exceeded quota. Ex: Graph, Snapshot

serviceCode

The service code that exceeded quota.

HTTP Status Code: 402

ThrottlingException

The exception was interrupted by throttling.

message

A message describing the problem.

HTTP Status Code: 429

ValidationException

A resource could not be validated.

message

A message describing the problem.

reason

The reason that the resource could not be validated.

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

CreateGraphSnapshot

Creates a snapshot of the specific graph.

Request Syntax

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

{
  "graphIdentifier": "string",
  "snapshotName": "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.

graphIdentifier

The unique identifier of the Neptune Analytics graph.

Type: String

Pattern: g-[a-z0-9]{10}

Required: Yes

snapshotName

The snapshot name. For example: my-snapshot-1.

The name must contain from 1 to 63 letters, numbers, or hyphens, and its first character must be a letter. It cannot end with a hyphen or contain two consecutive hyphens. Only lowercase letters are allowed.

Type: String

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

Pattern: `(?!gs-)[a-z][a-z0-9]*(-[a-z0-9]+)*`

Required: Yes

tags

Adds metadata tags to the new graph. These tags can also be used with cost allocation reporting, or used in a Condition statement in an IAM policy.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

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

Key Pattern: `(?!aws:)[a-zA-Z+-._: /]+`

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

Required: No

Response Syntax

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

```
{
  "arn": "string",
  "id": "string",
  "kmsKeyIdentifier": "string",
  "name": "string",
  "snapshotCreateTime": number,
  "sourceGraphId": "string",
  "status": "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 of the snapshot created.

Type: String

id

The ID of the snapshot created.

Type: String

Pattern: gs-[a-z0-9]{10}

kmsKeyIdentifier

The ID of the KMS key used to encrypt and decrypt graph data.

Type: String

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

Pattern: arn:aws(|-cn|-us-gov):kms:[a-zA-Z0-9-]*:[0-9]{12}:key/[a-zA-Z0-9-]{36}

name

The name of the snapshot created.

Type: String

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

Pattern: (?!gs-)[a-z][a-z0-9]*(-[a-z0-9]+)*

snapshotCreateTime

The snapshot creation time

Type: Timestamp

sourceGraphId

The Id of the Neptune Analytics graph from which the snapshot is created.

Type: String

Pattern: g-[a-z0-9]{10}

status

The current state of the snapshot.

Type: String

Valid Values: CREATING | AVAILABLE | DELETING | FAILED

Errors

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

ConflictException

Raised when a conflict is encountered.

message

A message describing the problem.

reason

The reason for the conflict exception.

HTTP Status Code: 409

InternalServerError

A failure occurred on the server.

message

A message describing the problem.

HTTP Status Code: 500

ResourceNotFoundException

A specified resource could not be located.

message

A message describing the problem.

HTTP Status Code: 404

ServiceQuotaExceededException

A service quota was exceeded.

quotaCode

Service quota code of the resource for which quota was exceeded.

resourceId

The identifier of the resource that exceeded quota.

resourceType

The type of the resource that exceeded quota. Ex: Graph, Snapshot

serviceCode

The service code that exceeded quota.

HTTP Status Code: 402

ThrottlingException

The exception was interrupted by throttling.

message

A message describing the problem.

HTTP Status Code: 429

ValidationException

A resource could not be validated.

message

A message describing the problem.

reason

The reason that the resource could not be validated.

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

CreateGraphUsingImportTask

Creates a new Neptune Analytics graph and imports data into it, either from Amazon Simple Storage Service (S3) or from a Neptune database or a Neptune database snapshot.

The data can be loaded from files in S3 that in either the [Gremlin CSV format](#) or the [openCypher load format](#).

Request Syntax

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

```
{
  "blankNodeHandling": "string",
  "deletionProtection": boolean,
  "failOnError": boolean,
  "format": "string",
  "graphName": "string",
  "importOptions": { ... },
  "kmsKeyId": "string",
  "maxProvisionedMemory": number,
  "minProvisionedMemory": number,
  "parquetType": "string",
  "publicConnectivity": boolean,
  "replicaCount": number,
  "roleArn": "string",
  "source": "string",
  "tags": {
    "string" : "string"
  },
  "vectorSearchConfiguration": {
    "dimension": number
  }
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

blankNodeHandling

The method to handle blank nodes in the dataset. Currently, only `convertToIri` is supported, meaning blank nodes are converted to unique IRIs at load time. Must be provided when format is `ntriples`. For more information, see [Handling RDF values](#).

Type: String

Valid Values: `convertToIri`

Required: No

deletionProtection

Indicates whether or not to enable deletion protection on the graph. The graph can't be deleted when deletion protection is enabled. (`true` or `false`).

Type: Boolean

Required: No

failOnError

If set to `true`, the task halts when an import error is encountered. If set to `false`, the task skips the data that caused the error and continues if possible.

Type: Boolean

Required: No

format

Specifies the format of S3 data to be imported. Valid values are `CSV`, which identifies the [Gremlin CSV format](#), `OPEN_CYPHER`, which identifies the [openCypher load format](#), or `ntriples`, which identifies the [RDF n-triples](#) format.

Type: String

Valid Values: `CSV` | `OPEN_CYPHER` | `PARQUET` | `NTRIPLES`

Required: No

graphName

A name for the new Neptune Analytics graph to be created.

The name must contain from 1 to 63 letters, numbers, or hyphens, and its first character must be a letter. It cannot end with a hyphen or contain two consecutive hyphens. Only lowercase letters are allowed.

Type: String

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

Pattern: `(?!g-)[a-z][a-z0-9]*(-[a-z0-9]+)*`

Required: Yes

importOptions

Contains options for controlling the import process. For example, if the `failOnError` key is set to `false`, the import skips problem data and attempts to continue (whereas if set to `true`, the default, or if omitted, the import operation halts immediately when an error is encountered).

Type: [ImportOptions](#) object

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

Required: No

kmsKeyIdentifier

Specifies a KMS key to use to encrypt data imported into the new graph.

Type: String

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

Pattern: `arn:aws(|-cn|-us-gov):kms:[a-zA-Z0-9-]*:[0-9]{12}:key/[a-zA-Z0-9-]{36}`

Required: No

maxProvisionedMemory

The maximum provisioned memory-optimized Neptune Capacity Units (m-NCUs) to use for the graph. Default: 1024, or the approved upper limit for your account.

If both the minimum and maximum values are specified, the final provisioned-memory will be chosen per the actual size of your imported data. If neither value is specified, 128 m-NCUs are used.

Type: Integer

Valid Range: Minimum value of 16. Maximum value of 24576.

Required: No

minProvisionedMemory

The minimum provisioned memory-optimized Neptune Capacity Units (m-NCUs) to use for the graph. Default: 16

Type: Integer

Valid Range: Minimum value of 16. Maximum value of 24576.

Required: No

parquetType

The parquet type of the import task.

Type: String

Valid Values: COLUMNAR

Required: No

publicConnectivity

Specifies whether or not the graph can be reachable over the internet. All access to graphs is IAM authenticated. (true to enable, or false to disable).

Type: Boolean

Required: No

replicaCount

The number of replicas in other AZs to provision on the new graph after import. Default = 0, Min = 0, Max = 2.

⚠ Important

Additional charges equivalent to the m-NCUs selected for the graph apply for each replica.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 2.

Required: No

roleArn

The ARN of the IAM role that will allow access to the data that is to be imported.

Type: String

Pattern: `arn:aws[^:]*:iam::\d{12}:(role|role/service-role)(/[\w+=,.\@-]+)+`

Required: Yes

source

A URL identifying to the location of the data to be imported. This can be an Amazon S3 path, or can point to a Neptune database endpoint or snapshot.

Type: String

Required: Yes

tags

Adds metadata tags to the new graph. These tags can also be used with cost allocation reporting, or used in a Condition statement in an IAM policy.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

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

Key Pattern: `(?!aws:)[a-zA-Z+-._: /]+`

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

Required: No

vectorSearchConfiguration

Specifies the number of dimensions for vector embeddings that will be loaded into the graph. The value is specified as `dimension=value`. Max = 65,535

Type: [VectorSearchConfiguration](#) object

Required: No

Response Syntax

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

```
{
  "format": "string",
  "graphId": "string",
  "importOptions": { ... },
  "parquetType": "string",
  "roleArn": "string",
  "source": "string",
  "status": "string",
  "taskId": "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.

format

Specifies the format of S3 data to be imported. Valid values are CSV, which identifies the [Gremlin CSV format](#), OPENCYPHER, which identifies the [openCypher load format](#), or ntriples, which identifies the [RDF n-triples](#) format.

Type: String

Valid Values: CSV | OPEN_CYPHER | PARQUET | NTRIPLES

graphId

The unique identifier of the Neptune Analytics graph.

Type: String

Pattern: g-[a-z0-9]{10}

importOptions

Contains options for controlling the import process. For example, if the `failOnError` key is set to `false`, the import skips problem data and attempts to continue (whereas if set to `true`, the default, or if omitted, the import operation halts immediately when an error is encountered).

Type: [ImportOptions](#) object

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

parquetType

The parquet type of the import task.

Type: String

Valid Values: COLUMNAR

roleArn

The ARN of the IAM role that will allow access to the data that is to be imported.

Type: String

Pattern: arn:aws[^:]*:iam::\d{12}:(role|role/service-role)(/[\w+=,.\@-]+)+

source

A URL identifying to the location of the data to be imported. This can be an Amazon S3 path, or can point to a Neptune database endpoint or snapshot.

Type: String

status

The status of the import task.

Type: String

Valid Values: INITIALIZING | EXPORTING | ANALYZING_DATA | IMPORTING |
REPROVISIONING | ROLLING_BACK | SUCCEEDED | FAILED | CANCELLING |
CANCELLED | DELETED

taskId

The unique identifier of the import task.

Type: String

Pattern: t-[a-z0-9]{10}

Errors

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

ConflictException

Raised when a conflict is encountered.

message

A message describing the problem.

reason

The reason for the conflict exception.

HTTP Status Code: 409

InternalServerError

A failure occurred on the server.

message

A message describing the problem.

HTTP Status Code: 500

ServiceQuotaExceededException

A service quota was exceeded.

quotaCode

Service quota code of the resource for which quota was exceeded.

resourceId

The identifier of the resource that exceeded quota.

resourceType

The type of the resource that exceeded quota. Ex: Graph, Snapshot

serviceCode

The service code that exceeded quota.

HTTP Status Code: 402

ThrottlingException

The exception was interrupted by throttling.

message

A message describing the problem.

HTTP Status Code: 429

ValidationException

A resource could not be validated.

message

A message describing the problem.

reason

The reason that the resource could not be validated.

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

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

CreatePrivateGraphEndpoint

Create a private graph endpoint to allow private access from to the graph from within a VPC. You can attach security groups to the private graph endpoint.

Note

VPC endpoint charges apply.

Request Syntax

```
POST /graphs/graphIdentifier/endpoints/ HTTP/1.1
Content-type: application/json
```

```
{
  "subnetIds": [ "string" ],
  "vpcId": "string",
  "vpcSecurityGroupIds": [ "string" ]
}
```

URI Request Parameters

The request uses the following URI parameters.

graphIdentifier

The unique identifier of the Neptune Analytics graph.

Pattern: g-[a-z0-9]{10}

Required: Yes

Request Body

The request accepts the following data in JSON format.

subnetIds

Subnets in which private graph endpoint ENIs are created.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 6 items.

Pattern: subnet-[a-z0-9]+

Required: No

vpcId

The VPC in which the private graph endpoint needs to be created.

Type: String

Pattern: vpc-[a-z0-9]+

Required: No

vpcSecurityGroupIds

Security groups to be attached to the private graph endpoint..

Type: Array of strings

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

Pattern: sg-[a-z0-9]+

Required: No

Response Syntax

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

```
{
  "status": "string",
  "subnetIds": [ "string" ],
  "vpcEndpointId": "string",
  "vpcId": "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.

status

Status of the private graph endpoint.

Type: String

Valid Values: CREATING | AVAILABLE | DELETING | FAILED

subnetIds

Subnets in which the private graph endpoint ENIs are created.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 6 items.

Pattern: subnet-[a-z0-9]+

vpcEndpointId

Endpoint ID of the private graph endpoint.

Type: String

Pattern: vpce-[0-9a-f]{17}

vpcId

VPC in which the private graph endpoint is created.

Type: String

Pattern: vpc-[a-z0-9]+

Errors

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

ConflictException

Raised when a conflict is encountered.

message

A message describing the problem.

reason

The reason for the conflict exception.

HTTP Status Code: 409

InternalServerError

A failure occurred on the server.

message

A message describing the problem.

HTTP Status Code: 500

ResourceNotFoundException

A specified resource could not be located.

message

A message describing the problem.

HTTP Status Code: 404

ServiceQuotaExceededException

A service quota was exceeded.

quotaCode

Service quota code of the resource for which quota was exceeded.

resourceId

The identifier of the resource that exceeded quota.

resourceType

The type of the resource that exceeded quota. Ex: Graph, Snapshot

serviceCode

The service code that exceeded quota.

HTTP Status Code: 402

ThrottlingException

The exception was interrupted by throttling.

message

A message describing the problem.

HTTP Status Code: 429

ValidationException

A resource could not be validated.

message

A message describing the problem.

reason

The reason that the resource could not be validated.

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

DeleteGraph

Deletes the specified graph. Graphs cannot be deleted if delete-protection is enabled.

Request Syntax

```
DELETE /graphs/graphIdentifier?skipSnapshot=skipSnapshot HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

graphIdentifier

The unique identifier of the Neptune Analytics graph.

Pattern: g-[a-z0-9]{10}

Required: Yes

skipSnapshot

Determines whether a final graph snapshot is created before the graph is deleted. If `true` is specified, no graph snapshot is created. If `false` is specified, a graph snapshot is created before the graph is deleted.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
  "arn": "string",
  "buildNumber": "string",
  "createTime": number,
```

```
"deletionProtection": boolean,
"endpoint": "string",
"id": "string",
"kmsKeyId": "string",
"name": "string",
"provisionedMemory": number,
"publicConnectivity": boolean,
"replicaCount": number,
"sourceSnapshotId": "string",
"status": "string",
"statusReason": "string",
"vectorSearchConfiguration": {
  "dimension": number
}
}
```

Response Elements

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

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

arn

The ARN associated with the graph.

Type: String

buildNumber

The build number associated with the graph.

Type: String

createTime

The time at which the graph was created.

Type: Timestamp

deletionProtection

If `true`, deletion protection was enabled for the graph.

Type: Boolean

endpoint

The graph endpoint.

Type: String

id

The unique identifier of the graph.

Type: String

Pattern: g-[a-z0-9]{10}

kmsKeyIdentifier

The ID of the KMS key used to encrypt and decrypt graph data.

Type: String

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

Pattern: arn:aws(|-cn|-us-gov):kms:[a-zA-Z0-9]*:[0-9]{12}:key/[a-zA-Z0-9-]{36}

name

The name of the graph.

Type: String

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

Pattern: (?!g-)[a-z][a-z0-9]*(-[a-z0-9]+)*

provisionedMemory

The number of memory-optimized Neptune Capacity Units (m-NCUs) allocated to the graph.

Type: Integer

Valid Range: Minimum value of 16. Maximum value of 24576.

publicConnectivity

If true, the graph has a public endpoint, otherwise not.

Type: Boolean

replicaCount

The number of replicas for the graph.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 2.

sourceSnapshotId

The ID of the snapshot from which the graph was created, if the graph was recovered from a snapshot.

Type: String

Pattern: gs-[a-z0-9]{10}

status

The status of the graph.

Type: String

Valid Values: CREATING | AVAILABLE | DELETING | RESETTING | UPDATING | SNAPSHOTTING | FAILED | IMPORTING | STARTING | STOPPING | STOPPED

statusReason

The reason for the status of the graph.

Type: String

vectorSearchConfiguration

Specifies the number of dimensions for vector embeddings loaded into the graph. Max = 65535

Type: [VectorSearchConfiguration](#) object

Errors

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

ConflictException

Raised when a conflict is encountered.

message

A message describing the problem.

reason

The reason for the conflict exception.

HTTP Status Code: 409

InternalServerError

A failure occurred on the server.

message

A message describing the problem.

HTTP Status Code: 500

ResourceNotFoundException

A specified resource could not be located.

message

A message describing the problem.

HTTP Status Code: 404

ThrottlingException

The exception was interrupted by throttling.

message

A message describing the problem.

HTTP Status Code: 429

ValidationException

A resource could not be validated.

message

A message describing the problem.

reason

The reason that the resource could not be validated.

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

DeleteGraphSnapshot

Deletes the specified graph snapshot.

Request Syntax

```
DELETE /snapshots/snapshotIdentifier HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

snapshotIdentifier

ID of the graph snapshot to be deleted.

Pattern: `gs-[a-z0-9]{10}`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
  "arn": "string",
  "id": "string",
  "kmsKeyIdentifier": "string",
  "name": "string",
  "snapshotCreateTime": number,
  "sourceGraphId": "string",
  "status": "string"
}
```

Response Elements

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

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

arn

The ARN of the graph snapshot.

Type: String

id

The unique identifier of the graph snapshot.

Type: String

Pattern: gs-[a-z0-9]{10}

kmsKeyIdIdentifier

The ID of the KMS key used to encrypt and decrypt the snapshot.

Type: String

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

Pattern: arn:aws(|-cn|-us-gov):kms:[a-zA-Z0-9]*:[0-9]{12}:key/[a-zA-Z0-9-]{36}

name

The snapshot name. For example: my-snapshot-1.

The name must contain from 1 to 63 letters, numbers, or hyphens, and its first character must be a letter. It cannot end with a hyphen or contain two consecutive hyphens. Only lowercase letters are allowed.

Type: String

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

Pattern: (?!gs-)[a-z][a-z0-9]*(-[a-z0-9]+)*

snapshotCreateTime

The time when the snapshot was created.

Type: Timestamp

sourceGraphId

The graph identifier for the graph from which the snapshot was created.

Type: String

Pattern: g-[a-z0-9]{10}

status

The status of the graph snapshot.

Type: String

Valid Values: CREATING | AVAILABLE | DELETING | FAILED

Errors

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

ConflictException

Raised when a conflict is encountered.

message

A message describing the problem.

reason

The reason for the conflict exception.

HTTP Status Code: 409

InternalServerError

A failure occurred on the server.

message

A message describing the problem.

HTTP Status Code: 500

ResourceNotFoundException

A specified resource could not be located.

message

A message describing the problem.

HTTP Status Code: 404

ThrottlingException

The exception was interrupted by throttling.

message

A message describing the problem.

HTTP Status Code: 429

ValidationException

A resource could not be validated.

message

A message describing the problem.

reason

The reason that the resource could not be validated.

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](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)

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

DeletePrivateGraphEndpoint

Deletes a private graph endpoint.

Request Syntax

```
DELETE /graphs/graphIdentifier/endpoints/vpcId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

graphIdentifier

The unique identifier of the Neptune Analytics graph.

Pattern: g-[a-z0-9]{10}

Required: Yes

vpcId

The ID of the VPC where the private endpoint is located.

Pattern: vpc-[a-z0-9]+

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
  "status": "string",
  "subnetIds": [ "string" ],
  "vpcEndpointId": "string",
  "vpcId": "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.

status

The status of the delete operation.

Type: String

Valid Values: CREATING | AVAILABLE | DELETING | FAILED

subnetIds

The subnet IDs involved.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 6 items.

Pattern: subnet-[a-z0-9]+

vpcEndpointId

The ID of the VPC endpoint that was deleted.

Type: String

Pattern: vpce-[0-9a-f]{17}

vpcId

The ID of the VPC where the private endpoint was deleted.

Type: String

Pattern: vpc-[a-z0-9]+

Errors

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

ConflictException

Raised when a conflict is encountered.

message

A message describing the problem.

reason

The reason for the conflict exception.

HTTP Status Code: 409

InternalServerError

A failure occurred on the server.

message

A message describing the problem.

HTTP Status Code: 500

ResourceNotFoundException

A specified resource could not be located.

message

A message describing the problem.

HTTP Status Code: 404

ThrottlingException

The exception was interrupted by throttling.

message

A message describing the problem.

HTTP Status Code: 429

ValidationException

A resource could not be validated.

message

A message describing the problem.

reason

The reason that the resource could not be validated.

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

ExecuteQuery

Execute an openCypher query.

When invoking this operation in a Neptune Analytics cluster, the IAM user or role making the request must have a policy attached that allows one of the following IAM actions in that cluster, depending on the query:

- `neptune-graph:ReadDataViaQuery`
- `neptune-graph:WriteDataViaQuery`
- `neptune-graph>DeleteDataViaQuery`

Request Syntax

```
POST /queries HTTP/1.1
graphIdentifier: graphIdentifier
Content-type: application/json

{
  "explain": "string",
  "language": "string",
  "parameters": {
    "string" : JSON value
  },
  "planCache": "string",
  "query": "string",
  "queryTimeoutMilliseconds": number
}
```

URI Request Parameters

The request uses the following URI parameters.

graphIdentifier

The unique identifier of the Neptune Analytics graph.

Pattern: `g-[a-z0-9]{10}`

Required: Yes

Request Body

The request accepts the following data in JSON format.

explain

The explain mode parameter returns a query explain instead of the actual query results. A query explain can be used to gather insights about the query execution such as planning decisions, time spent on each operator, solutions flowing etc.

Type: String

Valid Values: STATIC | DETAILS

Required: No

language

The query language the query is written in. Currently only openCypher is supported.

Type: String

Valid Values: OPEN_CYPHER

Required: Yes

parameters

The data parameters the query can use in JSON format. For example: {"name": "john", "age": 20}. (optional)

Type: String to JSON value map

Required: No

planCache

Query plan cache is a feature that saves the query plan and reuses it on successive executions of the same query. This reduces query latency, and works for both READ and UPDATE queries. The plan cache is an LRU cache with a 5 minute TTL and a capacity of 1000.

Type: String

Valid Values: ENABLED | DISABLED | AUTO

Required: No

query

The query string to be executed.

Type: String

Required: Yes

queryTimeoutMilliseconds

Specifies the query timeout duration, in milliseconds. (optional)

Type: Integer

Required: No

Response Syntax

```
HTTP/1.1 200
```

```
payload
```

Response Elements

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

The response returns the following as the HTTP body.

payload

The query results.

Errors

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

AccessDeniedException

Raised in case of an authentication or authorization failure.

message

A message describing the problem.

HTTP Status Code: 403

ConflictException

Raised when a conflict is encountered.

message

A message describing the problem.

reason

The reason for the conflict exception.

HTTP Status Code: 409

InternalServerErrorException

A failure occurred on the server.

message

A message describing the problem.

HTTP Status Code: 500

ThrottlingException

The exception was interrupted by throttling.

message

A message describing the problem.

HTTP Status Code: 429

UnprocessableException

Request cannot be processed due to known reasons. Eg. partition full.

reason

The reason for the unprocessable exception.

HTTP Status Code: 422

ValidationException

A resource could not be validated.

message

A message describing the problem.

reason

The reason that the resource could not be validated.

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

GetExportTask

Retrieves a specified export task.

Request Syntax

```
GET /exporttasks/taskIdentifier HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

taskIdentifier

The unique identifier of the export task.

Pattern: t-[a-z0-9]{10}

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
  "destination": "string",
  "exportFilter": {
    "edgeFilter": {
      "string": {
        "properties": {
          "string": {
            "multiValueHandling": "string",
            "outputType": "string",
            "sourcePropertyName": "string"
          }
        }
      }
    }
  }
}
```



```

    }
  }
},
"vertexFilter": {
  "string": {
    "properties": {
      "string": {
        "multiValueHandling": "string",
        "outputType": "string",
        "sourcePropertyName": "string"
      }
    }
  }
}
},
"exportTaskDetails": {
  "numEdgesWritten": number,
  "numVerticesWritten": number,
  "progressPercentage": number,
  "startTime": number,
  "timeElapsedSeconds": number
},
"format": "string",
"graphId": "string",
"kmsKeyIdIdentifier": "string",
"parquetType": "string",
"roleArn": "string",
"status": "string",
"statusReason": "string",
"taskId": "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.

destination

The Amazon S3 URI of the export task where data will be exported.

Type: String

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

exportFilter

The export filter of the export task.

Type: [ExportFilter](#) object

exportTaskDetails

The details of the export task.

Type: [ExportTaskDetails](#) object

format

The format of the export task.

Type: String

Valid Values: PARQUET | CSV

graphId

The source graph identifier of the export task.

Type: String

Pattern: g-[a-z0-9]{10}

kmsKeyIdentifier

The KMS key identifier of the export task.

Type: String

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

Pattern: arn:aws(|-cn|-us-gov):kms:[a-zA-Z0-9]*:[0-9]{12}:key/[a-zA-Z0-9-]{36}

parquetType

The parquet type of the export task.

Type: String

Valid Values: COLUMNAR

roleArn

The ARN of the IAM role that will allow data to be exported to the destination.

Type: String

Pattern: `arn:aws[^:]*:iam::\d{12}:(role|role/service-role)(/[\w+=,.\@-]+)+`

status

The current status of the export task.

Type: String

Valid Values: `INITIALIZING | EXPORTING | SUCCEEDED | FAILED | CANCELLING | CANCELLED | DELETED`

statusReason

The reason that the export task has this status value.

Type: String

taskId

The unique identifier of the export task.

Type: String

Pattern: `t-[a-z0-9]{10}`

Errors

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

InternalServerErrorException

A failure occurred on the server.

message

A message describing the problem.

HTTP Status Code: 500

ResourceNotFoundException

A specified resource could not be located.

message

A message describing the problem.

HTTP Status Code: 404

ThrottlingException

The exception was interrupted by throttling.

message

A message describing the problem.

HTTP Status Code: 429

ValidationException

A resource could not be validated.

message

A message describing the problem.

reason

The reason that the resource could not be validated.

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](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)

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

GetGraph

Gets information about a specified graph.

Request Syntax

```
GET /graphs/graphIdentifier HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

graphIdentifier

The unique identifier of the Neptune Analytics graph.

Pattern: g-[a-z0-9]{10}

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
  "arn": "string",
  "buildNumber": "string",
  "createTime": number,
  "deletionProtection": boolean,
  "endpoint": "string",
  "id": "string",
  "kmsKeyIdentifier": "string",
  "name": "string",
  "provisionedMemory": number,
  "publicConnectivity": boolean,
  "replicaCount": number,
```

```
"sourceSnapshotId": "string",  
"status": "string",  
"statusReason": "string",  
"vectorSearchConfiguration": {  
  "dimension": number  
}  
}
```

Response Elements

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

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

arn

The ARN associated with the graph.

Type: String

buildNumber

The build number of the graph.

Type: String

createTime

The time at which the graph was created.

Type: Timestamp

deletionProtection

If `true`, deletion protection is enabled for the graph.

Type: Boolean

endpoint

The graph endpoint.

Type: String

id

The unique identifier of the graph.

Type: String

Pattern: g-[a-z0-9]{10}

kmsKeyIdIdentifier

The ID of the KMS key used to encrypt and decrypt graph data.

Type: String

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

Pattern: arn:aws(|-cn|-us-gov):kms:[a-zA-Z0-9-]*:[0-9]{12}:key/[a-zA-Z0-9-]{36}

name

The name of the graph.

Type: String

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

Pattern: (?!g-)[a-z][a-z0-9]*(-[a-z0-9]+)*

provisionedMemory

The number of memory-optimized Neptune Capacity Units (m-NCUs) allocated to the graph.

Type: Integer

Valid Range: Minimum value of 16. Maximum value of 24576.

publicConnectivity

If `true`, the graph has a public endpoint, otherwise not.

Type: Boolean

replicaCount

The number of replicas for the graph.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 2.

sourceSnapshotId

The ID of the snapshot from which the graph was created, if it was created from a snapshot.

Type: String

Pattern: gs-[a-z0-9]{10}

status

The status of the graph.

Type: String

Valid Values: CREATING | AVAILABLE | DELETING | RESETTING | UPDATING |
SNAPSHOTTING | FAILED | IMPORTING | STARTING | STOPPING | STOPPED

statusReason

The reason that the graph has this status.

Type: String

vectorSearchConfiguration

Specifies the number of dimensions for vector embeddings loaded into the graph. Max = 65535

Type: [VectorSearchConfiguration](#) object

Errors

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

InternalServerErrorException

A failure occurred on the server.

message

A message describing the problem.

HTTP Status Code: 500

ResourceNotFoundException

A specified resource could not be located.

message

A message describing the problem.

HTTP Status Code: 404

ThrottlingException

The exception was interrupted by throttling.

message

A message describing the problem.

HTTP Status Code: 429

ValidationException

A resource could not be validated.

message

A message describing the problem.

reason

The reason that the resource could not be validated.

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](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)

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

GetGraphSnapshot

Retrieves a specified graph snapshot.

Request Syntax

```
GET /snapshots/snapshotIdentifier HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

snapshotIdentifier

The ID of the snapshot to retrieve.

Pattern: gs-[a-z0-9]{10}

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
  "arn": "string",
  "id": "string",
  "kmsKeyIdentifier": "string",
  "name": "string",
  "snapshotCreateTime": number,
  "sourceGraphId": "string",
  "status": "string"
}
```

Response Elements

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

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

arn

The ARN of the graph snapshot.

Type: String

id

The unique identifier of the graph snapshot.

Type: String

Pattern: gs-[a-z0-9]{10}

kmsKeyIdentifier

The ID of the KMS key used to encrypt and decrypt the snapshot.

Type: String

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

Pattern: arn:aws(|-cn|-us-gov):kms:[a-zA-Z0-9]*:[0-9]{12}:key/[a-zA-Z0-9-]{36}

name

The snapshot name. For example: my-snapshot-1.

The name must contain from 1 to 63 letters, numbers, or hyphens, and its first character must be a letter. It cannot end with a hyphen or contain two consecutive hyphens. Only lowercase letters are allowed.

Type: String

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

Pattern: (?!gs-)[a-z][a-z0-9]*(-[a-z0-9]+)*

snapshotCreateTime

The time when the snapshot was created.

Type: Timestamp

sourceGraphId

The graph identifier for the graph for which a snapshot is to be created.

Type: String

Pattern: g-[a-z0-9]{10}

status

The status of the graph snapshot.

Type: String

Valid Values: CREATING | AVAILABLE | DELETING | FAILED

Errors

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

InternalServerErrorException

A failure occurred on the server.

message

A message describing the problem.

HTTP Status Code: 500

ResourceNotFoundException

A specified resource could not be located.

message

A message describing the problem.

HTTP Status Code: 404

ThrottlingException

The exception was interrupted by throttling.

message

A message describing the problem.

HTTP Status Code: 429

ValidationException

A resource could not be validated.

message

A message describing the problem.

reason

The reason that the resource could not be validated.

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

GetGraphSummary

Gets a graph summary for a property graph.

Request Syntax

```
GET /summary?mode=mode HTTP/1.1
graphIdentifier: graphIdentifier
```

URI Request Parameters

The request uses the following URI parameters.

graphIdentifier

The unique identifier of the Neptune Analytics graph.

Pattern: g-[a-z0-9]{10}

Required: Yes

mode

The summary mode can take one of two values: `basic` (the default), and `detailed`.

Valid Values: BASIC | DETAILED

Request Body

The request does not have a request body.

Response Syntax

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

{
  "graphSummary": {
    "edgeLabels": [ "string" ],
    "edgeProperties": [
      {
        "string" : number
```



```

    }
  ],
  "edgeStructures": [
    {
      "count": number,
      "edgeProperties": [ "string" ]
    }
  ],
  "nodeLabels": [ "string" ],
  "nodeProperties": [
    {
      "string" : number
    }
  ],
  "nodeStructures": [
    {
      "count": number,
      "distinctOutgoingEdgeLabels": [ "string" ],
      "nodeProperties": [ "string" ]
    }
  ],
  "numEdgeLabels": number,
  "numEdgeProperties": number,
  "numEdges": number,
  "numNodeLabels": number,
  "numNodeProperties": number,
  "numNodes": number,
  "totalEdgePropertyValues": number,
  "totalNodePropertyValues": number
},
"lastStatisticsComputationTime": "string",
"version": "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.

graphSummary

The graph summary.

Type: [GraphDataSummary](#) object

[lastStatisticsComputationTime](#)

The timestamp, in ISO 8601 format, of the time at which Neptune Analytics last computed statistics.

Type: Timestamp

[version](#)

Display the version of this tool.

Type: String

Errors

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

AccessDeniedException

Raised in case of an authentication or authorization failure.

message

A message describing the problem.

HTTP Status Code: 403

InternalServerError

A failure occurred on the server.

message

A message describing the problem.

HTTP Status Code: 500

ResourceNotFoundException

A specified resource could not be located.

message

A message describing the problem.

HTTP Status Code: 404

ThrottlingException

The exception was interrupted by throttling.

message

A message describing the problem.

HTTP Status Code: 429

ValidationException

A resource could not be validated.

message

A message describing the problem.

reason

The reason that the resource could not be validated.

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

GetImportTask

Retrieves a specified import task.

Request Syntax

```
GET /importtasks/taskIdentifier HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

taskIdentifier

The unique identifier of the import task.

Pattern: t-[a-z0-9]{10}

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

HTTP/1.1 200

Content-type: application/json

```
{
  "attemptNumber": number,
  "format": "string",
  "graphId": "string",
  "importOptions": { ... },
  "importTaskDetails": {
    "dictionaryEntryCount": number,
    "errorCount": number,
    "errorDetails": "string",
    "progressPercentage": number,
    "startTime": number,
    "statementCount": number,
```

```
    "status": "string",
    "timeElapsedSeconds": number
  },
  "parquetType": "string",
  "roleArn": "string",
  "source": "string",
  "status": "string",
  "statusReason": "string",
  "taskId": "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.

attemptNumber

The number of the current attempts to execute the import task.

Type: Integer

format

Specifies the format of S3 data to be imported. Valid values are CSV, which identifies the [Gremlin CSV format](#) or OPENCYPHER, which identifies the [openCypher load format](#).

Type: String

Valid Values: CSV | OPEN_CYPHER | PARQUET | NTRIPLES

graphId

The unique identifier of the Neptune Analytics graph.

Type: String

Pattern: g-[a-z0-9]{10}

importOptions

Contains options for controlling the import process. For example, if the `failOnError` key is set to `false`, the import skips problem data and attempts to continue (whereas if set to `true`, the default, or if omitted, the import operation halts immediately when an error is encountered).

Type: [ImportOptions](#) object

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

[importTaskDetails](#)

Contains details about the specified import task.

Type: [ImportTaskDetails](#) object

[parquetType](#)

The parquet type of the import task.

Type: String

Valid Values: COLUMNAR

[roleArn](#)

The ARN of the IAM role that will allow access to the data that is to be imported.

Type: String

Pattern: `arn:aws[^:]*:iam::\d{12}:(role|role/service-role)(/[\w+=,.\@-]+)+`

[source](#)

A URL identifying to the location of the data to be imported. This can be an Amazon S3 path, or can point to a Neptune database endpoint or snapshot

Type: String

[status](#)

The status of the import task:

- **INITIALIZING** – The necessary resources needed to create the graph are being prepared.
- **ANALYZING_DATA** – The data is being analyzed to determine the optimal infrastructure configuration for the new graph.
- **RE_PROVISIONING** – The data did not fit into the provisioned graph, so it is being re-provisioned with more capacity.
- **IMPORTING** – The data is being loaded.
- **ERROR_ENCOUNTERED** – An error has been encountered while trying to create the graph and import the data.

- **ERROR_ENCOUNTERED_ROLLING_BACK** – Because of the error that was encountered, the graph is being rolled back and all its resources released.
- **SUCCEEDED** – Graph creation and data loading succeeded.
- **FAILED** – Graph creation or data loading failed. When the status is FAILED, you can use `get-graphs` to get more information about the state of the graph.
- **CANCELLING** – Because you cancelled the import task, cancellation is in progress.
- **CANCELLED** – You have successfully cancelled the import task.

Type: String

Valid Values: `INITIALIZING` | `EXPORTING` | `ANALYZING_DATA` | `IMPORTING` | `REPROVISIONING` | `ROLLING_BACK` | `SUCCEEDED` | `FAILED` | `CANCELLING` | `CANCELLED` | `DELETED`

statusReason

The reason that the import task has this status value.

Type: String

taskId

The unique identifier of the import task.

Type: String

Pattern: `t-[a-z0-9]{10}`

Errors

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

InternalServerError

A failure occurred on the server.

message

A message describing the problem.

HTTP Status Code: 500

ResourceNotFoundException

A specified resource could not be located.

message

A message describing the problem.

HTTP Status Code: 404

ThrottlingException

The exception was interrupted by throttling.

message

A message describing the problem.

HTTP Status Code: 429

ValidationException

A resource could not be validated.

message

A message describing the problem.

reason

The reason that the resource could not be validated.

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](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)

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

GetPrivateGraphEndpoint

Retrieves information about a specified private endpoint.

Request Syntax

```
GET /graphs/graphIdentifier/endpoints/vpcId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

graphIdentifier

The unique identifier of the Neptune Analytics graph.

Pattern: g-[a-z0-9]{10}

Required: Yes

vpcId

The ID of the VPC where the private endpoint is located.

Pattern: vpc-[a-z0-9]+

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
  "status": "string",
  "subnetIds": [ "string" ],
  "vpcEndpointId": "string",
  "vpcId": "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.

status

The current status of the private endpoint.

Type: String

Valid Values: CREATING | AVAILABLE | DELETING | FAILED

subnetIds

The subnet IDs involved.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 6 items.

Pattern: subnet-[a-z0-9]+

vpcEndpointId

The ID of the private endpoint.

Type: String

Pattern: vpce-[0-9a-f]{17}

vpcId

The ID of the VPC where the private endpoint is located.

Type: String

Pattern: vpc-[a-z0-9]+

Errors

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

InternalServerErrorException

A failure occurred on the server.

message

A message describing the problem.

HTTP Status Code: 500

ResourceNotFoundException

A specified resource could not be located.

message

A message describing the problem.

HTTP Status Code: 404

ThrottlingException

The exception was interrupted by throttling.

message

A message describing the problem.

HTTP Status Code: 429

ValidationException

A resource could not be validated.

message

A message describing the problem.

reason

The reason that the resource could not be validated.

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

GetQuery

Retrieves the status of a specified query.

Note

When invoking this operation in a Neptune Analytics cluster, the IAM user or role making the request must have the `neptune-graph:GetQueryStatus` IAM action attached.

Request Syntax

```
GET /queries/queryId HTTP/1.1
graphIdentifier: graphIdentifier
```

URI Request Parameters

The request uses the following URI parameters.

graphIdentifier

The unique identifier of the Neptune Analytics graph.

Pattern: `g-[a-z0-9]{10}`

Required: Yes

queryId

The ID of the query in question.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Content-type: application/json

```
{
  "elapsed": number,
  "id": "string",
  "queryString": "string",
  "state": "string",
  "waited": number
}
```

Response Elements

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

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

elapsed

The number of milliseconds the query has been running.

Type: Integer

id

The ID of the query in question.

Type: String

queryString

The query in question.

Type: String

state

State of the query.

Type: String

Valid Values: RUNNING | WAITING | CANCELLING

waited

Indicates how long the query waited, in milliseconds.

Type: Integer

Errors

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

AccessDeniedException

Raised in case of an authentication or authorization failure.

message

A message describing the problem.

HTTP Status Code: 403

InternalServerError

A failure occurred on the server.

message

A message describing the problem.

HTTP Status Code: 500

ResourceNotFoundException

A specified resource could not be located.

message

A message describing the problem.

HTTP Status Code: 404

ThrottlingException

The exception was interrupted by throttling.

message

A message describing the problem.

HTTP Status Code: 429

ValidationException

A resource could not be validated.

message

A message describing the problem.

reason

The reason that the resource could not be validated.

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

ListExportTasks

Retrieves a list of export tasks.

Request Syntax

```
GET /exporttasks?  
graphIdentifier=graphIdentifier&maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

graphIdentifier

The unique identifier of the Neptune Analytics graph.

Pattern: g-[a-z0-9]{10}

maxResults

The maximum number of export tasks to return.

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

nextToken

Pagination token used to paginate input.

Length Constraints: Minimum length of 1. Maximum length of 8192.

Request Body

The request does not have a request body.

Response Syntax

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

```
"nextToken": "string",
"tasks": [
  {
    "destination": "string",
    "format": "string",
    "graphId": "string",
    "kmsKeyIdentifier": "string",
    "parquetType": "string",
    "roleArn": "string",
    "status": "string",
    "statusReason": "string",
    "taskId": "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

Pagination token used to paginate output.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 8192.

tasks

The requested list of export tasks.

Type: Array of [ExportTaskSummary](#) objects

Errors

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

InternalServerError

A failure occurred on the server.

message

A message describing the problem.

HTTP Status Code: 500

ResourceNotFoundException

A specified resource could not be located.

message

A message describing the problem.

HTTP Status Code: 404

ThrottlingException

The exception was interrupted by throttling.

message

A message describing the problem.

HTTP Status Code: 429

ValidationException

A resource could not be validated.

message

A message describing the problem.

reason

The reason that the resource could not be validated.

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

ListGraphs

Lists available Neptune Analytics graphs.

Request Syntax

```
GET /graphs?maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

maxResults

The total number of records to return in the command's output.

If the total number of records available is more than the value specified, `nextToken` is provided in the command's output. To resume pagination, provide the `nextToken` output value in the `nextToken` argument of a subsequent command. Do not use the `nextToken` response element directly outside of the Amazon CLI.

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

nextToken

Pagination token used to paginate output.

When this value is provided as input, the service returns results from where the previous response left off. When this value is present in output, it indicates that there are more results to retrieve.

Length Constraints: Minimum length of 1. Maximum length of 8192.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Content-type: application/json

```
{
  "graphs": [
    {
      "arn": "string",
      "deletionProtection": boolean,
      "endpoint": "string",
      "id": "string",
      "kmsKeyId": "string",
      "name": "string",
      "provisionedMemory": number,
      "publicConnectivity": boolean,
      "replicaCount": number,
      "status": "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.

graphs

A list of the graphs.

Type: Array of [GraphSummary](#) objects

nextToken

Pagination token used to paginate output.

When this value is provided as input, the service returns results from where the previous response left off. When this value is present in output, it indicates that there are more results to retrieve.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 8192.

Errors

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

InternalServerError

A failure occurred on the server.

message

A message describing the problem.

HTTP Status Code: 500

ResourceNotFoundException

A specified resource could not be located.

message

A message describing the problem.

HTTP Status Code: 404

ThrottlingException

The exception was interrupted by throttling.

message

A message describing the problem.

HTTP Status Code: 429

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](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)

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

ListGraphSnapshots

Lists available snapshots of a specified Neptune Analytics graph.

Request Syntax

```
GET /snapshots?  
graphIdentifier=graphIdentifier&maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

graphIdentifier

The unique identifier of the Neptune Analytics graph.

Pattern: g-[a-z0-9]{10}

maxResults

The total number of records to return in the command's output.

If the total number of records available is more than the value specified, `nextToken` is provided in the command's output. To resume pagination, provide the `nextToken` output value in the `nextToken` argument of a subsequent command. Do not use the `nextToken` response element directly outside of the Amazon CLI.

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

nextToken

Pagination token used to paginate output.

When this value is provided as input, the service returns results from where the previous response left off. When this value is present in output, it indicates that there are more results to retrieve.

Length Constraints: Minimum length of 1. Maximum length of 8192.

Request Body

The request does not have a request body.

Response Syntax

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

{
  "graphSnapshots": [
    {
      "arn": "string",
      "id": "string",
      "kmsKeyIdentifier": "string",
      "name": "string",
      "snapshotCreateTime": number,
      "sourceGraphId": "string",
      "status": "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.

graphSnapshots

The requested list of snapshots.

Type: Array of [GraphSnapshotSummary](#) objects

nextToken

Pagination token used to paginate output.

When this value is provided as input, the service returns results from where the previous response left off. When this value is present in output, it indicates that there are more results to retrieve.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 8192.

Errors

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

InternalServerError

A failure occurred on the server.

message

A message describing the problem.

HTTP Status Code: 500

ResourceNotFoundException

A specified resource could not be located.

message

A message describing the problem.

HTTP Status Code: 404

ThrottlingException

The exception was interrupted by throttling.

message

A message describing the problem.

HTTP Status Code: 429

ValidationException

A resource could not be validated.

message

A message describing the problem.

reason

The reason that the resource could not be validated.

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

ListImportTasks

Lists import tasks.

Request Syntax

```
GET /importtasks?maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

maxResults

The total number of records to return in the command's output.

If the total number of records available is more than the value specified, `nextToken` is provided in the command's output. To resume pagination, provide the `nextToken` output value in the `nextToken` argument of a subsequent command. Do not use the `nextToken` response element directly outside of the Amazon CLI.

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

nextToken

Pagination token used to paginate output.

When this value is provided as input, the service returns results from where the previous response left off. When this value is present in output, it indicates that there are more results to retrieve.

Length Constraints: Minimum length of 1. Maximum length of 8192.

Request Body

The request does not have a request body.

Response Syntax

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

```
{
  "nextToken": "string",
  "tasks": [
    {
      "format": "string",
      "graphId": "string",
      "parquetType": "string",
      "roleArn": "string",
      "source": "string",
      "status": "string",
      "taskId": "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

Pagination token used to paginate output.

When this value is provided as input, the service returns results from where the previous response left off. When this value is present in output, it indicates that there are more results to retrieve.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 8192.

tasks

The requested list of import tasks.

Type: Array of [ImportTaskSummary](#) objects

Errors

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

InternalServerError

A failure occurred on the server.

message

A message describing the problem.

HTTP Status Code: 500

ResourceNotFoundException

A specified resource could not be located.

message

A message describing the problem.

HTTP Status Code: 404

ThrottlingException

The exception was interrupted by throttling.

message

A message describing the problem.

HTTP Status Code: 429

ValidationException

A resource could not be validated.

message

A message describing the problem.

reason

The reason that the resource could not be validated.

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

ListPrivateGraphEndpoints

Lists private endpoints for a specified Neptune Analytics graph.

Request Syntax

```
GET /graphs/graphIdentifier/endpoints/?maxResults=maxResults&nextToken=nextToken  
HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

graphIdentifier

The unique identifier of the Neptune Analytics graph.

Pattern: g-[a-z0-9]{10}

Required: Yes

maxResults

The total number of records to return in the command's output.

If the total number of records available is more than the value specified, `nextToken` is provided in the command's output. To resume pagination, provide the `nextToken` output value in the `nextToken` argument of a subsequent command. Do not use the `nextToken` response element directly outside of the Amazon CLI.

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

nextToken

Pagination token used to paginate output.

When this value is provided as input, the service returns results from where the previous response left off. When this value is present in output, it indicates that there are more results to retrieve.

Length Constraints: Minimum length of 1. Maximum length of 8192.

Request Body

The request does not have a request body.

Response Syntax

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

{
  "nextToken": "string",
  "privateGraphEndpoints": [
    {
      "status": "string",
      "subnetIds": [ "string" ],
      "vpcEndpointId": "string",
      "vpcId": "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

Pagination token used to paginate output.

When this value is provided as input, the service returns results from where the previous response left off. When this value is present in output, it indicates that there are more results to retrieve.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 8192.

privateGraphEndpoints

A list of private endpoints for the specified Neptune Analytics graph.

Type: Array of [PrivateGraphEndpointSummary](#) objects

Errors

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

InternalServerError

A failure occurred on the server.

message

A message describing the problem.

HTTP Status Code: 500

ResourceNotFoundException

A specified resource could not be located.

message

A message describing the problem.

HTTP Status Code: 404

ThrottlingException

The exception was interrupted by throttling.

message

A message describing the problem.

HTTP Status Code: 429

ValidationException

A resource could not be validated.

message

A message describing the problem.

reason

The reason that the resource could not be validated.

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

ListQueries

Lists active openCypher queries.

Request Syntax

```
GET /queries?maxResults=maxResults&state=state HTTP/1.1  
graphIdentifier: graphIdentifier
```

URI Request Parameters

The request uses the following URI parameters.

graphIdentifier

The unique identifier of the Neptune Analytics graph.

Pattern: g-[a-z0-9]{10}

Required: Yes

maxResults

The maximum number of results to be fetched by the API.

Required: Yes

state

Filtered list of queries based on state.

Valid Values: ALL | RUNNING | WAITING | CANCELLING

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Content-type: application/json

```
{
  "queries": [
    {
      "elapsed": number,
      "id": "string",
      "queryString": "string",
      "state": "string",
      "waited": number
    }
  ]
}
```

Response Elements

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

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

queries

A list of current openCypher queries.

Type: Array of [QuerySummary](#) objects

Errors

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

AccessDeniedException

Raised in case of an authentication or authorization failure.

message

A message describing the problem.

HTTP Status Code: 403

InternalServerError

A failure occurred on the server.

message

A message describing the problem.

HTTP Status Code: 500

ThrottlingException

The exception was interrupted by throttling.

message

A message describing the problem.

HTTP Status Code: 429

ValidationException

A resource could not be validated.

message

A message describing the problem.

reason

The reason that the resource could not be validated.

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](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)

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

ListTagsForResource

Lists tags associated with a specified resource.

Request Syntax

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

URI Request Parameters

The request uses the following URI parameters.

resourceArn

The ARN of the resource.

Length Constraints: Minimum length of 1. Maximum length of 1011.

Pattern: arn: . +

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

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

Response Elements

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

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

tags

The list of metadata tags associated with the resource.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

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

Key Pattern: (?!aws:)[a-zA-Z+ -=._:/]+

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

Errors

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

InternalServerError

A failure occurred on the server.

message

A message describing the problem.

HTTP Status Code: 500

ResourceNotFoundException

A specified resource could not be located.

message

A message describing the problem.

HTTP Status Code: 404

ThrottlingException

The exception was interrupted by throttling.

message

A message describing the problem.

HTTP Status Code: 429

ValidationException

A resource could not be validated.

message

A message describing the problem.

reason

The reason that the resource could not be validated.

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

ResetGraph

Empties the data from a specified Neptune Analytics graph.

Request Syntax

```
PUT /graphs/graphIdentifier HTTP/1.1
Content-type: application/json

{
  "skipSnapshot": boolean
}
```

URI Request Parameters

The request uses the following URI parameters.

graphIdentifier

ID of the graph to reset.

Pattern: g-[a-z0-9]{10}

Required: Yes

Request Body

The request accepts the following data in JSON format.

skipSnapshot

Determines whether a final graph snapshot is created before the graph data is deleted. If set to `true`, no graph snapshot is created. If set to `false`, a graph snapshot is created before the data is deleted.

Type: Boolean

Required: Yes

Response Syntax

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

{
  "arn": "string",
  "buildNumber": "string",
  "createTime": number,
  "deletionProtection": boolean,
  "endpoint": "string",
  "id": "string",
  "kmsKeyIdentifier": "string",
  "name": "string",
  "provisionedMemory": number,
  "publicConnectivity": boolean,
  "replicaCount": number,
  "sourceSnapshotId": "string",
  "status": "string",
  "statusReason": "string",
  "vectorSearchConfiguration": {
    "dimension": number
  }
}
```

Response Elements

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

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

arn

The ARN associated with the graph.

Type: String

buildNumber

The build number of the graph.

Type: String

createTime

The time at which the graph was created.

Type: Timestamp

deletionProtection

If `true`, deletion protection is enabled for the graph.

Type: Boolean

endpoint

The graph endpoint.

Type: String

id

The unique identifier of the graph.

Type: String

Pattern: `g-[a-z0-9]{10}`

kmsKeyIdentifier

The ID of the KMS key used to encrypt and decrypt graph data.

Type: String

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

Pattern: `arn:aws(|-cn|-us-gov):kms:[a-zA-Z0-9-]*:[0-9]{12}:key/[a-zA-Z0-9-]{36}`

name

The name of the graph.

Type: String

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

Pattern: `(?!g-)[a-z][a-z0-9]*(-[a-z0-9]+)*`

provisionedMemory

The number of memory-optimized Neptune Capacity Units (m-NCUs) allocated to the graph.

Type: Integer

Valid Range: Minimum value of 16. Maximum value of 24576.

publicConnectivity

If `true`, the graph has a public endpoint, otherwise not.

Type: Boolean

replicaCount

The number of replicas for the graph.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 2.

sourceSnapshotId

The ID of the snapshot from which the graph was created, if any.

Type: String

Pattern: `gs-[a-z0-9]{10}`

status

The status of the graph.

Type: String

Valid Values: CREATING | AVAILABLE | DELETING | RESETTING | UPDATING |
SNAPSHOTTING | FAILED | IMPORTING | STARTING | STOPPING | STOPPED

statusReason

The reason that the graph has this status.

Type: String

vectorSearchConfiguration

Specifies the number of dimensions for vector embeddings loaded into the graph. Max = 65535

Type: [VectorSearchConfiguration](#) object

Errors

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

ConflictException

Raised when a conflict is encountered.

message

A message describing the problem.

reason

The reason for the conflict exception.

HTTP Status Code: 409

InternalServerError

A failure occurred on the server.

message

A message describing the problem.

HTTP Status Code: 500

ResourceNotFoundException

A specified resource could not be located.

message

A message describing the problem.

HTTP Status Code: 404

ThrottlingException

The exception was interrupted by throttling.

message

A message describing the problem.

HTTP Status Code: 429

ValidationException

A resource could not be validated.

message

A message describing the problem.

reason

The reason that the resource could not be validated.

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

RestoreGraphFromSnapshot

Restores a graph from a snapshot.

Request Syntax

```
POST /snapshots/snapshotIdentifier/restore HTTP/1.1
Content-type: application/json
```

```
{
  "deletionProtection": boolean,
  "graphName": "string",
  "provisionedMemory": number,
  "publicConnectivity": boolean,
  "replicaCount": number,
  "tags": {
    "string" : "string"
  }
}
```

URI Request Parameters

The request uses the following URI parameters.

snapshotIdentifier

The ID of the snapshot in question.

Pattern: gs-[a-z0-9]{10}

Required: Yes

Request Body

The request accepts the following data in JSON format.

deletionProtection

A value that indicates whether the graph has deletion protection enabled. The graph can't be deleted when deletion protection is enabled.

Type: Boolean

Required: No

graphName

A name for the new Neptune Analytics graph to be created from the snapshot.

The name must contain from 1 to 63 letters, numbers, or hyphens, and its first character must be a letter. It cannot end with a hyphen or contain two consecutive hyphens. Only lowercase letters are allowed.

Type: String

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

Pattern: `(?!g-)[a-z][a-z0-9]*(-[a-z0-9]+)*`

Required: Yes

provisionedMemory

The provisioned memory-optimized Neptune Capacity Units (m-NCUs) to use for the graph.

Min = 16

Type: Integer

Valid Range: Minimum value of 16. Maximum value of 24576.

Required: No

publicConnectivity

Specifies whether or not the graph can be reachable over the internet. All access to graphs is IAM authenticated. (`true` to enable, or `false` to disable).

Type: Boolean

Required: No

replicaCount

The number of replicas in other AZs. Min =0, Max = 2, Default =1

⚠ Important

Additional charges equivalent to the m-NCUs selected for the graph apply for each replica.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 2.

Required: No

tags

Adds metadata tags to the snapshot. These tags can also be used with cost allocation reporting, or used in a Condition statement in an IAM policy.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

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

Key Pattern: `(?!aws:)[a-zA-Z+-._: /]+`

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

Required: No

Response Syntax

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

{
  "arn": "string",
  "buildNumber": "string",
  "createTime": number,
  "deletionProtection": boolean,
  "endpoint": "string",
  "id": "string",
  "kmsKeyIdentifier": "string",
```

```
"name": "string",
"provisionedMemory": number,
"publicConnectivity": boolean,
"replicaCount": number,
"sourceSnapshotId": "string",
"status": "string",
"statusReason": "string",
"vectorSearchConfiguration": {
  "dimension": number
}
```

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 associated with the graph.

Type: String

buildNumber

The build number of the graph.

Type: String

createTime

The time at which the graph was created.

Type: Timestamp

deletionProtection

If `true`, deletion protection is enabled for the graph.

Type: Boolean

endpoint

The graph endpoint.

Type: String

id

The unique identifier of the graph.

Type: String

Pattern: g-[a-z0-9]{10}

kmsKeyIdIdentifier

The ID of the KMS key used to encrypt and decrypt graph data.

Type: String

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

Pattern: arn:aws(|-cn|-us-gov):kms:[a-zA-Z0-9-]*:[0-9]{12}:key/[a-zA-Z0-9-]{36}

name

The name of the graph.

Type: String

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

Pattern: (?!g-)[a-z][a-z0-9]*(-[a-z0-9]+)*

provisionedMemory

The number of memory-optimized Neptune Capacity Units (m-NCUs) allocated to the graph.

Type: Integer

Valid Range: Minimum value of 16. Maximum value of 24576.

publicConnectivity

If true, the graph has a public endpoint, otherwise not.

Type: Boolean

replicaCount

The number of replicas for the graph.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 2.

sourceSnapshotId

The ID of the snapshot from which the graph was created, if any.

Type: String

Pattern: gs-[a-z0-9]{10}

status

The status of the graph.

Type: String

Valid Values: CREATING | AVAILABLE | DELETING | RESETTING | UPDATING |
SNAPSHOTTING | FAILED | IMPORTING | STARTING | STOPPING | STOPPED

statusReason

The reason that the graph has this status.

Type: String

vectorSearchConfiguration

Specifies the number of dimensions for vector embeddings loaded into the graph. Max = 65535

Type: [VectorSearchConfiguration](#) object

Errors

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

ConflictException

Raised when a conflict is encountered.

message

A message describing the problem.

reason

The reason for the conflict exception.

HTTP Status Code: 409

InternalServerError

A failure occurred on the server.

message

A message describing the problem.

HTTP Status Code: 500

ResourceNotFoundException

A specified resource could not be located.

message

A message describing the problem.

HTTP Status Code: 404

ServiceQuotaExceededException

A service quota was exceeded.

quotaCode

Service quota code of the resource for which quota was exceeded.

resourceId

The identifier of the resource that exceeded quota.

resourceType

The type of the resource that exceeded quota. Ex: Graph, Snapshot

serviceCode

The service code that exceeded quota.

HTTP Status Code: 402

ThrottlingException

The exception was interrupted by throttling.

message

A message describing the problem.

HTTP Status Code: 429

ValidationException

A resource could not be validated.

message

A message describing the problem.

reason

The reason that the resource could not be validated.

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

StartExportTask

Export data from an existing Neptune Analytics graph to Amazon S3. The graph state should be AVAILABLE.

Request Syntax

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

```
{
  "destination": "string",
  "exportFilter": {
    "edgeFilter": {
      "string" : {
        "properties": {
          "string" : {
            "multiValueHandling": "string",
            "outputType": "string",
            "sourcePropertyName": "string"
          }
        }
      }
    },
    "vertexFilter": {
      "string" : {
        "properties": {
          "string" : {
            "multiValueHandling": "string",
            "outputType": "string",
            "sourcePropertyName": "string"
          }
        }
      }
    }
  },
  "format": "string",
  "graphIdentifier": "string",
  "kmsKeyIdIdentifier": "string",
  "parquetType": "string",
  "roleArn": "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.

destination

The Amazon S3 URI where data will be exported to.

Type: String

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

Required: Yes

exportFilter

The export filter of the export task.

Type: [ExportFilter](#) object

Required: No

format

The format of the export task.

Type: String

Valid Values: PARQUET | CSV

Required: Yes

graphIdentifier

The source graph identifier of the export task.

Type: String

Pattern: g-[a-z0-9]{10}

Required: Yes

kmsKeyIdIdentifier

The KMS key identifier of the export task.

Type: String

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

Pattern: arn:aws(|-cn|-us-gov):kms:[a-zA-Z0-9-]*:[0-9]{12}:key/[a-zA-Z0-9-]{36}

Required: Yes

parquetType

The parquet type of the export task.

Type: String

Valid Values: COLUMNAR

Required: No

roleArn

The ARN of the IAM role that will allow data to be exported to the destination.

Type: String

Pattern: arn:aws[^:]*:iam::\d{12}:(role|role/service-role)(/[\w+=,.\@-]+)+

Required: Yes

tags

Tags to be applied to the export task.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

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

Key Pattern: (?!aws:)[a-zA-Z+ -=._:/]+

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

Required: No

Response Syntax

HTTP/1.1 201

Content-type: application/json

```
{
  "destination": "string",
  "exportFilter": {
    "edgeFilter": {
      "string": {
        "properties": {
          "string": {
            "multiValueHandling": "string",
            "outputType": "string",
            "sourcePropertyName": "string"
          }
        }
      }
    },
    "vertexFilter": {
      "string": {
        "properties": {
          "string": {
            "multiValueHandling": "string",
            "outputType": "string",
            "sourcePropertyName": "string"
          }
        }
      }
    }
  },
  "format": "string",
  "graphId": "string",
  "kmsKeyIdentifier": "string",
  "parquetType": "string",
```

```
"roleArn": "string",  
"status": "string",  
"statusReason": "string",  
"taskId": "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.

destination

The Amazon S3 URI of the export task where data will be exported to.

Type: String

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

exportFilter

The export filter of the export task.

Type: [ExportFilter](#) object

format

The format of the export task.

Type: String

Valid Values: PARQUET | CSV

graphId

The source graph identifier of the export task.

Type: String

Pattern: g-[a-z0-9]{10}

kmsKeyIdentifier

The KMS key identifier of the export task.

Type: String

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

Pattern: `arn:aws(|-cn|-us-gov):kms:[a-zA-Z0-9-]*:[0-9]{12}:key/[a-zA-Z0-9-]{36}`

parquetType

The parquet type of the export task.

Type: String

Valid Values: COLUMNAR

roleArn

The ARN of the IAM role that will allow data to be exported to the destination.

Type: String

Pattern: `arn:aws[^:]*:iam::\d{12}:(role|role/service-role)(/[\w+=,.\@-]+)+`

status

The current status of the export task.

Type: String

Valid Values: INITIALIZING | EXPORTING | SUCCEEDED | FAILED | CANCELLING | CANCELLED | DELETED

statusReason

The reason that the export task has this status value.

Type: String

taskId

The unique identifier of the export task.

Type: String

Pattern: `t-[a-z0-9]{10}`

Errors

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

ConflictException

Raised when a conflict is encountered.

message

A message describing the problem.

reason

The reason for the conflict exception.

HTTP Status Code: 409

InternalServerError

A failure occurred on the server.

message

A message describing the problem.

HTTP Status Code: 500

ResourceNotFoundException

A specified resource could not be located.

message

A message describing the problem.

HTTP Status Code: 404

ThrottlingException

The exception was interrupted by throttling.

message

A message describing the problem.

HTTP Status Code: 429

ValidationException

A resource could not be validated.

message

A message describing the problem.

reason

The reason that the resource could not be validated.

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

StartGraph

Starts the specific graph.

Request Syntax

```
POST /graphs/graphIdentifier/start HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

graphIdentifier

The unique identifier of the Neptune Analytics graph.

Pattern: g-[a-z0-9]{10}

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
  "arn": "string",
  "buildNumber": "string",
  "createTime": number,
  "deletionProtection": boolean,
  "endpoint": "string",
  "id": "string",
  "kmsKeyIdentifier": "string",
  "name": "string",
  "provisionedMemory": number,
  "publicConnectivity": boolean,
  "replicaCount": number,
```

```
"sourceSnapshotId": "string",  
"status": "string",  
"statusReason": "string",  
"vectorSearchConfiguration": {  
  "dimension": number  
}  
}
```

Response Elements

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

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

arn

The ARN associated with the graph.

Type: String

buildNumber

The build number of the graph.

Type: String

createTime

The time at which the graph was created.

Type: Timestamp

deletionProtection

If `true`, deletion protection is enabled for the graph.

Type: Boolean

endpoint

The graph endpoint.

Type: String

id

The unique identifier of the graph.

Type: String

Pattern: g-[a-z0-9]{10}

kmsKeyIdIdentifier

The ID of the KMS key used to encrypt and decrypt graph data.

Type: String

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

Pattern: arn:aws(|-cn|-us-gov):kms:[a-zA-Z0-9-]*:[0-9]{12}:key/[a-zA-Z0-9-]{36}

name

The name of the graph.

Type: String

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

Pattern: (?!g-)[a-z][a-z0-9]*(-[a-z0-9]+)*

provisionedMemory

The number of memory-optimized Neptune Capacity Units (m-NCUs) allocated to the graph.

Type: Integer

Valid Range: Minimum value of 16. Maximum value of 24576.

publicConnectivity

If `true`, the graph has a public endpoint, otherwise not.

Type: Boolean

replicaCount

The number of replicas for the graph.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 2.

sourceSnapshotId

The ID of the snapshot from which the graph was created, if it was created from a snapshot.

Type: String

Pattern: gs-[a-z0-9]{10}

status

The status of the graph.

Type: String

Valid Values: CREATING | AVAILABLE | DELETING | RESETTING | UPDATING |
SNAPSHOTTING | FAILED | IMPORTING | STARTING | STOPPING | STOPPED

statusReason

The reason that the graph has this status.

Type: String

vectorSearchConfiguration

Specifies the number of dimensions for vector embeddings loaded into the graph. Max = 65535

Type: [VectorSearchConfiguration](#) object

Errors

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

ConflictException

Raised when a conflict is encountered.

message

A message describing the problem.

reason

The reason for the conflict exception.

HTTP Status Code: 409

InternalServerErrorException

A failure occurred on the server.

message

A message describing the problem.

HTTP Status Code: 500

ResourceNotFoundException

A specified resource could not be located.

message

A message describing the problem.

HTTP Status Code: 404

ThrottlingException

The exception was interrupted by throttling.

message

A message describing the problem.

HTTP Status Code: 429

ValidationException

A resource could not be validated.

message

A message describing the problem.

reason

The reason that the resource could not be validated.

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

StartImportTask

Import data into existing Neptune Analytics graph from Amazon Simple Storage Service (S3). The graph needs to be empty and in the AVAILABLE state.

Request Syntax

```
POST /graphs/graphIdentifier/importtasks HTTP/1.1
Content-type: application/json
```

```
{
  "blankNodeHandling": "string",
  "failOnError": boolean,
  "format": "string",
  "importOptions": { ... },
  "parquetType": "string",
  "roleArn": "string",
  "source": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

[graphIdentifier](#)

The unique identifier of the Neptune Analytics graph.

Pattern: g-[a-z0-9]{10}

Required: Yes

Request Body

The request accepts the following data in JSON format.

[blankNodeHandling](#)

The method to handle blank nodes in the dataset. Currently, only `convertToIri` is supported, meaning blank nodes are converted to unique IRIs at load time. Must be provided when format is `ntriples`. For more information, see [Handling RDF values](#).

Type: String

Valid Values: `convertToIri`

Required: No

failOnError

If set to true, the task halts when an import error is encountered. If set to false, the task skips the data that caused the error and continues if possible.

Type: Boolean

Required: No

format

Specifies the format of Amazon S3 data to be imported. Valid values are CSV, which identifies the Gremlin CSV format or OPENCYPHER, which identifies the openCypher load format.

Type: String

Valid Values: CSV | OPEN_CYPHER | PARQUET | NTRIPLES

Required: No

importOptions

Options for how to perform an import.

Type: [ImportOptions](#) object

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

Required: No

parquetType

The parquet type of the import task.

Type: String

Valid Values: COLUMNAR

Required: No

roleArn

The ARN of the IAM role that will allow access to the data that is to be imported.

Type: String

Pattern: `arn:aws[^:]*:iam::\d{12}:(role|role/service-role)(/[^\w+=,.\@-]+)+`

Required: Yes

[source](#)

A URL identifying the location of the data to be imported. This can be an Amazon S3 path, or can point to a Neptune database endpoint or snapshot.

Type: String

Required: Yes

Response Syntax

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

```
{
  "format": "string",
  "graphId": "string",
  "importOptions": { ... },
  "parquetType": "string",
  "roleArn": "string",
  "source": "string",
  "status": "string",
  "taskId": "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.

[format](#)

Specifies the format of Amazon S3 data to be imported. Valid values are CSV, which identifies the Gremlin CSV format or OPENCYPHER, which identifies the openCypher load format.

Type: String

Valid Values: CSV | OPEN_CYPHER | PARQUET | NTRIPLES

graphId

The unique identifier of the Neptune Analytics graph.

Type: String

Pattern: g-[a-z0-9]{10}

importOptions

Options for how to perform an import.

Type: [ImportOptions](#) object

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

parquetType

The parquet type of the import task.

Type: String

Valid Values: COLUMNAR

roleArn

The ARN of the IAM role that will allow access to the data that is to be imported.

Type: String

Pattern: arn:aws[^:]*:iam::\d{12}:(role|role/service-role)(/[\w+=,.\@-]+)+

source

A URL identifying the location of the data to be imported. This can be an Amazon S3 path, or can point to a Neptune database endpoint or snapshot.

Type: String

status

The status of the import task.

Type: String

Valid Values: INITIALIZING | EXPORTING | ANALYZING_DATA | IMPORTING |
REPROVISIONING | ROLLING_BACK | SUCCEEDED | FAILED | CANCELLING |
CANCELLED | DELETED

taskId

The unique identifier of the import task.

Type: String

Pattern: t-[a-z0-9]{10}

Errors

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

ConflictException

Raised when a conflict is encountered.

message

A message describing the problem.

reason

The reason for the conflict exception.

HTTP Status Code: 409

InternalServerError

A failure occurred on the server.

message

A message describing the problem.

HTTP Status Code: 500

ResourceNotFoundException

A specified resource could not be located.

message

A message describing the problem.

HTTP Status Code: 404

ThrottlingException

The exception was interrupted by throttling.

message

A message describing the problem.

HTTP Status Code: 429

ValidationException

A resource could not be validated.

message

A message describing the problem.

reason

The reason that the resource could not be validated.

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

StopGraph

Stops the specific graph.

Request Syntax

```
POST /graphs/graphIdentifier/stop HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

graphIdentifier

The unique identifier of the Neptune Analytics graph.

Pattern: g-[a-z0-9]{10}

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
  "arn": "string",
  "buildNumber": "string",
  "createTime": number,
  "deletionProtection": boolean,
  "endpoint": "string",
  "id": "string",
  "kmsKeyIdentifier": "string",
  "name": "string",
  "provisionedMemory": number,
  "publicConnectivity": boolean,
  "replicaCount": number,
```

```
"sourceSnapshotId": "string",  
"status": "string",  
"statusReason": "string",  
"vectorSearchConfiguration": {  
  "dimension": number  
}  
}
```

Response Elements

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

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

arn

The ARN associated with the graph.

Type: String

buildNumber

The build number of the graph.

Type: String

createTime

The time at which the graph was created.

Type: Timestamp

deletionProtection

If true, deletion protection is enabled for the graph.

Type: Boolean

endpoint

The graph endpoint.

Type: String

id

The unique identifier of the graph.

Type: String

Pattern: g-[a-z0-9]{10}

kmsKeyIdIdentifier

The ID of the KMS key used to encrypt and decrypt graph data.

Type: String

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

Pattern: arn:aws(|-cn|-us-gov):kms:[a-zA-Z0-9-]*:[0-9]{12}:key/[a-zA-Z0-9-]{36}

name

The name of the graph.

Type: String

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

Pattern: (?!g-)[a-z][a-z0-9]*(-[a-z0-9]+)*

provisionedMemory

The number of memory-optimized Neptune Capacity Units (m-NCUs) allocated to the graph.

Type: Integer

Valid Range: Minimum value of 16. Maximum value of 24576.

publicConnectivity

If true, the graph has a public endpoint, otherwise not.

Type: Boolean

replicaCount

The number of replicas for the graph.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 2.

sourceSnapshotId

The ID of the snapshot from which the graph was created, if it was created from a snapshot.

Type: String

Pattern: gs-[a-z0-9]{10}

status

The status of the graph.

Type: String

Valid Values: CREATING | AVAILABLE | DELETING | RESETTING | UPDATING |
SNAPSHOTTING | FAILED | IMPORTING | STARTING | STOPPING | STOPPED

statusReason

The reason that the graph has this status.

Type: String

vectorSearchConfiguration

Specifies the number of dimensions for vector embeddings loaded into the graph. Max = 65535

Type: [VectorSearchConfiguration](#) object

Errors

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

ConflictException

Raised when a conflict is encountered.

message

A message describing the problem.

reason

The reason for the conflict exception.

HTTP Status Code: 409

InternalServerErrorException

A failure occurred on the server.

message

A message describing the problem.

HTTP Status Code: 500

ResourceNotFoundException

A specified resource could not be located.

message

A message describing the problem.

HTTP Status Code: 404

ThrottlingException

The exception was interrupted by throttling.

message

A message describing the problem.

HTTP Status Code: 429

ValidationException

A resource could not be validated.

message

A message describing the problem.

reason

The reason that the resource could not be validated.

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

TagResource

Adds tags to the specified 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

ARN of the resource for which tags need to be added.

Length Constraints: Minimum length of 1. Maximum length of 1011.

Pattern: `arn: .+`

Required: Yes

Request Body

The request accepts the following data in JSON format.

tags

The tags to be assigned to the Neptune Analytics resource.

The tags are metadata that are specified as a list of key-value pairs:

Key (string) – A key is the required name of the tag. The string value can be from 1 to 128 Unicode characters in length. It can't be prefixed with `aws :` and can only contain the set of

Unicode characters specified by this Java regular expression: `"^([\p{L}\p{Z}\p{N}_.:/=+\-]*)$"`).

Value (string) – A value is the optional value of the tag. The string value can be from 1 to 256 Unicode characters in length. It can't be prefixed with `aws:` and can only contain the set of Unicode characters specified by this Java regular expression: `"^([\p{L}\p{Z}\p{N}_.:/=+\-]*)$"`).

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

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

Key Pattern: `(?!aws:)[a-zA-Z+-._: / ]+`

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

Required: Yes

Response Syntax

```
HTTP/1.1 200
```

Response Elements

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

Errors

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

InternalServerError

A failure occurred on the server.

message

A message describing the problem.

HTTP Status Code: 500

ResourceNotFoundException

A specified resource could not be located.

message

A message describing the problem.

HTTP Status Code: 404

ThrottlingException

The exception was interrupted by throttling.

message

A message describing the problem.

HTTP Status Code: 429

ValidationException

A resource could not be validated.

message

A message describing the problem.

reason

The reason that the resource could not be validated.

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](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)

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

UntagResource

Removes the specified tags from the specified resource.

Request Syntax

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

URI Request Parameters

The request uses the following URI parameters.

resourceArn

ARN of the resource whose tag needs to be removed.

Length Constraints: Minimum length of 1. Maximum length of 1011.

Pattern: `arn:.*`

Required: Yes

tagKeys

Tag keys for the tags to be removed.

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

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

Pattern: `(?!aws:)[a-zA-Z+-. _:/]+`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

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

Errors

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

InternalServerErrorException

A failure occurred on the server.

message

A message describing the problem.

HTTP Status Code: 500

ResourceNotFoundException

A specified resource could not be located.

message

A message describing the problem.

HTTP Status Code: 404

ThrottlingException

The exception was interrupted by throttling.

message

A message describing the problem.

HTTP Status Code: 429

ValidationException

A resource could not be validated.

message

A message describing the problem.

reason

The reason that the resource could not be validated.

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

UpdateGraph

Updates the configuration of a specified Neptune Analytics graph

Request Syntax

```
PATCH /graphs/graphIdentifier HTTP/1.1
Content-type: application/json
```

```
{
  "deletionProtection": boolean,
  "provisionedMemory": number,
  "publicConnectivity": boolean
}
```

URI Request Parameters

The request uses the following URI parameters.

graphIdentifier

The unique identifier of the Neptune Analytics graph.

Pattern: g-[a-z0-9]{10}

Required: Yes

Request Body

The request accepts the following data in JSON format.

deletionProtection

A value that indicates whether the graph has deletion protection enabled. The graph can't be deleted when deletion protection is enabled.

Type: Boolean

Required: No

provisionedMemory

The provisioned memory-optimized Neptune Capacity Units (m-NCUs) to use for the graph.

Min = 16

Type: Integer

Valid Range: Minimum value of 16. Maximum value of 24576.

Required: No

publicConnectivity

Specifies whether or not the graph can be reachable over the internet. All access to graphs is IAM authenticated. (true to enable, or false to disable.

Type: Boolean

Required: No

Response Syntax

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

{
  "arn": "string",
  "buildNumber": "string",
  "createTime": number,
  "deletionProtection": boolean,
  "endpoint": "string",
  "id": "string",
  "kmsKeyId": "string",
  "name": "string",
  "provisionedMemory": number,
  "publicConnectivity": boolean,
  "replicaCount": number,
  "sourceSnapshotId": "string",
  "status": "string",
  "statusReason": "string",
  "vectorSearchConfiguration": {
    "dimension": number
```

```
}  
}
```

Response Elements

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

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

arn

The ARN associated with the graph.

Type: String

buildNumber

The build number of the graph.

Type: String

createTime

The time at which the graph was created.

Type: Timestamp

deletionProtection

If `true`, deletion protection is enabled for the graph.

Type: Boolean

endpoint

The graph endpoint.

Type: String

id

The unique identifier of the graph.

Type: String

Pattern: `g-[a-z0-9]{10}`

kmsKeyId

The ID of the KMS key used to encrypt and decrypt graph data.

Type: String

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

Pattern: `arn:aws(|-cn|-us-gov):kms:[a-zA-Z0-9]*:[0-9]{12}:key/[a-zA-Z0-9-]{36}`

name

The name of the graph.

Type: String

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

Pattern: `(?!g-)[a-z][a-z0-9]*(-[a-z0-9]+)*`

provisionedMemory

The number of memory-optimized Neptune Capacity Units (m-NCUs) allocated to the graph.

Type: Integer

Valid Range: Minimum value of 16. Maximum value of 24576.

publicConnectivity

If `true`, the graph has a public endpoint, otherwise not.

Type: Boolean

replicaCount

The number of replicas for the graph.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 2.

sourceSnapshotId

The ID of the snapshot from which the graph was created, if any.

Type: String

Pattern: gs-[a-z0-9]{10}

status

The status of the graph.

Type: String

Valid Values: CREATING | AVAILABLE | DELETING | RESETTING | UPDATING |
SNAPSHOTTING | FAILED | IMPORTING | STARTING | STOPPING | STOPPED

statusReason

The reason that the graph has this status.

Type: String

vectorSearchConfiguration

Specifies the number of dimensions for vector embeddings loaded into the graph. Max = 65535

Type: [VectorSearchConfiguration](#) object

Errors

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

ConflictException

Raised when a conflict is encountered.

message

A message describing the problem.

reason

The reason for the conflict exception.

HTTP Status Code: 409

InternalServerError

A failure occurred on the server.

message

A message describing the problem.

HTTP Status Code: 500

ResourceNotFoundException

A specified resource could not be located.

message

A message describing the problem.

HTTP Status Code: 404

ThrottlingException

The exception was interrupted by throttling.

message

A message describing the problem.

HTTP Status Code: 429

ValidationException

A resource could not be validated.

message

A message describing the problem.

reason

The reason that the resource could not be validated.

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

Data Types

The Amazon Neptune Graph 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:

- [EdgeStructure](#)
- [ExportFilter](#)
- [ExportFilterElement](#)
- [ExportFilterPropertyAttributes](#)
- [ExportTaskDetails](#)
- [ExportTaskSummary](#)
- [GraphDataSummary](#)
- [GraphSnapshotSummary](#)
- [GraphSummary](#)
- [ImportOptions](#)
- [ImportTaskDetails](#)
- [ImportTaskSummary](#)
- [NeptuneImportOptions](#)
- [NodeStructure](#)
- [PrivateGraphEndpointSummary](#)
- [QuerySummary](#)
- [VectorSearchConfiguration](#)

EdgeStructure

Contains information about an edge in a Neptune Analytics graph.

Contents

count

The number of instances of the edge in the graph.

Type: Long

Required: No

edgeProperties

A list of the properties associated with the edge.

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](#)

ExportFilter

This is the top-level field for specifying vertex or edge filters. If the ExportFilter is not provided, then all properties for all labels will be exported. If the ExportFilter is provided but is an empty object, then no data will be exported.

Contents

edgeFilter

Used to specify filters on a per-label basis for edges. This allows you to control which edge labels and properties are included in the export.

Type: String to [ExportFilterElement](#) object map

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

Required: No

vertexFilter

Used to specify filters on a per-label basis for vertices. This allows you to control which vertex labels and properties are included in the export.

Type: String to [ExportFilterElement](#) object map

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

Required: No

See Also

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

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

ExportFilterElement

Specifies which properties of that label should be included in the export.

Contents

properties

Each property is defined by a key-value pair, where the key is the desired output property name (e.g. "name"), and the value is an object.

Type: String to [ExportFilterPropertyAttributes](#) object map

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

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

Required: No

See Also

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

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

ExportFilterPropertyAttributes

A structure representing a property's attributes. It is a map object of `outputType`, `sourcePropertyName` and `multiValueHandling`.

Contents

multiValueHandling

Specifies how to handle properties that have multiple values. Can be either `T0_LIST` to export all values as a list, or `PICK_FIRST` to export the first value encountered. If not specified, the default value is `PICK_FIRST`.

Type: String

Valid Values: `T0_LIST` | `PICK_FIRST`

Required: No

outputType

Specifies the data type to use for the property in the exported data (e.g. "String", "Int", "Float"). If a type is not provided, the export process will determine the type. If a given property is present as multiple types (e.g. one vertex has "height" stored as a double, and another edge has it stored as a string), the type will be of Any type, otherwise, it will be the type of the property as present in vertices.

Type: String

Pattern: `(Any|Byte|Short|Int|Long|Float|Double|String|Bool|Boolean|Float\\[\\]|Double\\[\\])`

Required: No

sourcePropertyName

The name of the property as it exists in the original graph data. If not provided, it is assumed that the key matches the desired `sourcePropertyName`.

Type: String

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

Required: No

See Also

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

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

ExportTaskDetails

Contains details about the specified export task.

Contents

progressPercentage

The number of progress percentage of the export task.

Type: Integer

Required: Yes

startTime

The start time of the export task.

Type: Timestamp

Required: Yes

timeElapsedSeconds

The time elapsed, in seconds, since the start time of the export task.

Type: Long

Required: Yes

numEdgesWritten

The number of exported edges.

Type: Long

Required: No

numVerticesWritten

The number of exported vertices.

Type: Long

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](#)

ExportTaskSummary

Provides details about an export task.

Contents

destination

The Amazon S3 URI of the export task where data will be exported to.

Type: String

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

Required: Yes

format

The format of the export task.

Type: String

Valid Values: PARQUET | CSV

Required: Yes

graphId

The source graph identifier of the export task.

Type: String

Pattern: g-[a-z0-9]{10}

Required: Yes

kmsKeyIdentifier

The KMS key identifier of the export task.

Type: String

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

Pattern: arn:aws(|-cn|-us-gov):kms:[a-zA-Z0-9-]*:[0-9]{12}:key/[a-zA-Z0-9-]{36}

Required: Yes

roleArn

The ARN of the IAM role that will allow the data to be exported to the destination.

Type: String

Pattern: `arn:aws[^:]*:iam::\d{12}:(role|role/service-role)(/[\w+=,.\@-]+)+`

Required: Yes

status

The current status of the export task.

Type: String

Valid Values: `INITIALIZING | EXPORTING | SUCCEEDED | FAILED | CANCELLING | CANCELLED | DELETED`

Required: Yes

taskId

The unique identifier of the export task.

Type: String

Pattern: `t-[a-z0-9]{10}`

Required: Yes

parquetType

The parquet type of the export task.

Type: String

Valid Values: `COLUMNAR`

Required: No

statusReason

The reason that the export task has this status value.

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](#)

GraphDataSummary

Summary information about the graph.

Contents

edgeLabels

A list of the edge labels in the graph.

Type: Array of strings

Required: No

edgeProperties

A list of the distinct edge properties in the graph, along with the count of edges where each property is used.

Type: Array of string to long maps

Required: No

edgeStructures

This field is only present when the requested mode is DETAILED. It contains a list of edge structures.

Type: Array of [EdgeStructure](#) objects

Required: No

nodeLabels

A list of distinct node labels in the graph.

Type: Array of strings

Required: No

nodeProperties

A list of the distinct node properties in the graph, along with the count of nodes where each property is used.

Type: Array of string to long maps

Required: No

nodeStructures

This field is only present when the requested mode is DETAILED. It contains a list of node structures.

Type: Array of [NodeStructure](#) objects

Required: No

numEdgeLabels

The number of unique edge labels in the graph.

Type: Long

Required: No

numEdgeProperties

The number of edge properties in the graph.

Type: Long

Required: No

numEdges

The number of edges in the graph.

Type: Long

Required: No

numNodeLabels

The number of distinct node labels in the graph.

Type: Long

Required: No

numNodeProperties

The number of distinct node properties in the graph.

Type: Long

Required: No

numNodes

The number of nodes in the graph.

Type: Long

Required: No

totalEdgePropertyValues

The total number of usages of all edge properties.

Type: Long

Required: No

totalNodePropertyValues

The total number of usages of all node properties.

Type: Long

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](#)

GraphSnapshotSummary

Details about a graph snapshot.

Contents

arn

The ARN of the graph snapshot.

Type: String

Required: Yes

id

The unique identifier of the graph snapshot.

Type: String

Pattern: gs-[a-z0-9]{10}

Required: Yes

name

The snapshot name. For example: my-snapshot-1.

The name must contain from 1 to 63 letters, numbers, or hyphens, and its first character must be a letter. It cannot end with a hyphen or contain two consecutive hyphens. Only lowercase letters are allowed.

Type: String

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

Pattern: (?!gs-)[a-z][a-z0-9]*(-[a-z0-9]+)*

Required: Yes

kmsKeyIdIdentifier

The ID of the KMS key used to encrypt and decrypt the snapshot.

Type: String

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

Pattern: `arn:aws(|-cn|-us-gov):kms:[a-zA-Z0-9-]*:[0-9]{12}:key/[a-zA-Z0-9-]{36}`

Required: No

snapshotCreateTime

The time when the snapshot was created.

Type: Timestamp

Required: No

sourceGraphId

The graph identifier for the graph for which a snapshot is to be created.

Type: String

Pattern: `g-[a-z0-9]{10}`

Required: No

status

The status of the graph snapshot.

Type: String

Valid Values: CREATING | AVAILABLE | DELETING | FAILED

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](#)

GraphSummary

Summary details about a graph.

Contents

arn

The ARN associated with the graph.

Type: String

Required: Yes

id

The unique identifier of the graph.

Type: String

Pattern: g-[a-z0-9]{10}

Required: Yes

name

The name of the graph.

Type: String

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

Pattern: (?!g-)[a-z][a-z0-9]*(-[a-z0-9]+)*

Required: Yes

deletionProtection

If `true`, deletion protection is enabled for the graph.

Type: Boolean

Required: No

endpoint

The graph endpoint.

Type: String

Required: No

kmsKeyId

The ID of the KMS key used to encrypt and decrypt graph data.

Type: String

Required: No

provisionedMemory

The number of memory-optimized Neptune Capacity Units (m-NCUs) allocated to the graph.

Type: Integer

Valid Range: Minimum value of 16. Maximum value of 24576.

Required: No

publicConnectivity

If `true`, the graph has a public endpoint, otherwise not.

Type: Boolean

Required: No

replicaCount

The number of replicas for the graph.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 2.

Required: No

status

The status of the graph.

Type: String

Valid Values: CREATING | AVAILABLE | DELETING | RESETTING | UPDATING |
SNAPSHOTTING | FAILED | IMPORTING | STARTING | STOPPING | STOPPED

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](#)

ImportOptions

Options for how to perform an import.

Contents

Important

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

neptune

Options for importing data from a Neptune database.

Type: [NeptuneImportOptions](#) 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](#)

ImportTaskDetails

Contains details about an import task.

Contents

dictionaryEntryCount

The number of dictionary entries in the import task.

Type: Long

Required: Yes

errorCount

The number of errors encountered so far.

Type: Integer

Required: Yes

progressPercentage

The percentage progress so far.

Type: Integer

Required: Yes

startTime

Time at which the import task started.

Type: Timestamp

Required: Yes

statementCount

The number of statements in the import task.

Type: Long

Required: Yes

status

Status of the import task.

Type: String

Required: Yes

timeElapsedSeconds

Seconds elapsed since the import task started.

Type: Long

Required: Yes

errorDetails

Details about the errors that have been encountered.

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](#)

ImportTaskSummary

Details about an import task.

Contents

roleArn

The ARN of the IAM role that will allow access to the data that is to be imported.

Type: String

Pattern: `arn:aws[^:]*:iam::\d{12}:(role|role/service-role)(/[\w+=,.\@-]+)+`

Required: Yes

source

A URL identifying to the location of the data to be imported. This can be an Amazon S3 path, or can point to a Neptune database endpoint or snapshot

Type: String

Required: Yes

status

Status of the import task.

Type: String

Valid Values: `INITIALIZING | EXPORTING | ANALYZING_DATA | IMPORTING | REPROVISIONING | ROLLING_BACK | SUCCEEDED | FAILED | CANCELLING | CANCELLED | DELETED`

Required: Yes

taskId

The unique identifier of the import task.

Type: String

Pattern: `t-[a-z0-9]{10}`

Required: Yes

format

Specifies the format of S3 data to be imported. Valid values are CSV, which identifies the [Gremlin CSV format](#) or OPENCYPHER, which identifies the [openCypher load format](#).

Type: String

Valid Values: CSV | OPEN_CYPHER | PARQUET | NTRIPLES

Required: No

graphId

The unique identifier of the Neptune Analytics graph.

Type: String

Pattern: g-[a-z0-9]{10}

Required: No

parquetType

The parquet type of the import task.

Type: String

Valid Values: COLUMNAR

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](#)

NeptuneImportOptions

Options for how to import Neptune data.

Contents

s3ExportKmsKeyId

The KMS key to use to encrypt data in the S3 bucket where the graph data is exported

Type: String

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

Required: Yes

s3ExportPath

The path to an S3 bucket from which to import data.

Type: String

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

Required: Yes

preserveDefaultVertexLabels

Neptune Analytics supports label-less vertices and no labels are assigned unless one is explicitly provided. Neptune assigns default labels when none is explicitly provided. When importing the data into Neptune Analytics, the default vertex labels can be omitted by setting *preserveDefaultVertexLabels* to false. Note that if the vertex only has default labels, and has no other properties or edges, then the vertex will effectively not get imported into Neptune Analytics when *preserveDefaultVertexLabels* is set to false.

Type: Boolean

Required: No

preserveEdgeIds

Neptune Analytics currently does not support user defined edge ids. The edge ids are not imported by default. They are imported if *preserveEdgeIds* is set to true, and ids are stored as properties on the relationships with the property name *neptuneEdgeId*.

Type: Boolean

Required: No

See Also

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

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

NodeStructure

Information about a node.

Contents

count

The number of instances of this node.

Type: Long

Required: No

distinctOutgoingEdgeLabels

The outgoing edge labels associated with this node.

Type: Array of strings

Required: No

nodeProperties

Properties associated with this node.

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](#)

PrivateGraphEndpointSummary

Details about a private graph endpoint.

Contents

status

The status of the private graph endpoint.

Type: String

Valid Values: CREATING | AVAILABLE | DELETING | FAILED

Required: Yes

subnetIds

The subnet IDs associated with the private graph endpoint.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 6 items.

Pattern: subnet-[a-z0-9]+

Required: Yes

vpclId

The ID of the VPC in which the private graph endpoint is located.

Type: String

Pattern: vpc-[a-z0-9]+

Required: Yes

vpcEndpointId

The ID of the VPC endpoint.

Type: String

Pattern: vpce-[0-9a-f]{17}

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](#)

QuerySummary

Details of the query listed.

Contents

elapsed

The running time of the query, in milliseconds.

Type: Integer

Required: No

id

A string representation of the id of the query.

Type: String

Required: No

queryString

The actual query text. The queryString may be truncated if the actual query string is too long.

Type: String

Required: No

state

State of the query.

Type: String

Valid Values: RUNNING | WAITING | CANCELLING

Required: No

waited

The amount of time, in milliseconds, the query has waited in the queue before being picked up by a worker thread.

Type: Integer

Required: No

See Also

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

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

VectorSearchConfiguration

Specifies the number of dimensions for vector embeddings loaded into the graph. Max = 65535

Contents

dimension

The number of dimensions.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 65536.

Required: Yes

See Also

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

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

Common Parameters

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

Action

The action to be performed.

Type: string

Required: Yes

Version

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

Type: string

Required: Yes

X-Amz-Algorithm

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

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

Type: string

Valid Values: AWS4-HMAC-SHA256

Required: Conditional

X-Amz-Credential

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

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

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

Type: string

Required: Conditional

X-Amz-Date

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

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

Type: string

Required: Conditional

X-Amz-Security-Token

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

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

Type: string

Required: Conditional

X-Amz-Signature

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

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

Type: string

Required: Conditional

X-Amz-SignedHeaders

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

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

Type: string

Required: Conditional

Common Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ExpiredTokenException

The security token included in the request is expired

HTTP Status Code: 403

IncompleteSignature

The request signature does not conform to AWS standards.

HTTP Status Code: 403

InternalFailure

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

HTTP Status Code: 500

MalformedHttpRequestException

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

HTTP Status Code: 400

NotAuthorized

You do not have permission to perform this action.

HTTP Status Code: 401

OptInRequired

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

HTTP Status Code: 403

RequestAbortedException

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

HTTP Status Code: 400

RequestEntityTooLargeException

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

HTTP Status Code: 413

RequestExpired

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

HTTP Status Code: 400

RequestTimeoutException

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

HTTP Status Code: 408

ServiceUnavailable

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

HTTP Status Code: 503

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 400

UnrecognizedClientException

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

HTTP Status Code: 403

UnknownOperationException

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

HTTP Status Code: 404

ValidationError

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

HTTP Status Code: 400