



API Reference

Amazon Athena



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Amazon Athena: API Reference

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Table of Contents

Welcome	1
Actions	2
BatchGetNamedQuery	5
Request Syntax	5
Request Parameters	5
Response Syntax	5
Response Elements	6
Errors	6
See Also	7
BatchGetPreparedStatement	8
Request Syntax	8
Request Parameters	8
Response Syntax	9
Response Elements	9
Errors	9
See Also	10
BatchGetQueryExecution	11
Request Syntax	11
Request Parameters	11
Response Syntax	11
Response Elements	13
Errors	14
See Also	14
CancelCapacityReservation	16
Request Syntax	16
Request Parameters	16
Response Elements	16
Errors	16
See Also	17
CreateCapacityReservation	18
Request Syntax	18
Request Parameters	18
Response Elements	19
Errors	19

See Also	19
CreateDataCatalog	21
Request Syntax	21
Request Parameters	21
Response Syntax	24
Response Elements	25
Errors	25
See Also	26
CreateNamedQuery	27
Request Syntax	27
Request Parameters	27
Response Syntax	29
Response Elements	29
Errors	29
See Also	30
CreateNotebook	31
Request Syntax	31
Request Parameters	31
Response Syntax	32
Response Elements	32
Errors	33
See Also	33
CreatePreparedStatement	35
Request Syntax	35
Request Parameters	35
Response Elements	36
Errors	36
See Also	37
CreatePresignedNotebookUrl	38
Request Syntax	38
Request Parameters	38
Response Syntax	38
Response Elements	38
Errors	39
See Also	40
CreateWorkGroup	41

Request Syntax	41
Request Parameters	43
Response Elements	44
Errors	44
See Also	45
DeleteCapacityReservation	46
Request Syntax	46
Request Parameters	46
Response Elements	46
Errors	46
See Also	47
DeleteDataCatalog	48
Request Syntax	48
Request Parameters	48
Response Syntax	48
Response Elements	49
Errors	49
See Also	50
DeleteNamedQuery	51
Request Syntax	51
Request Parameters	51
Response Elements	51
Errors	51
See Also	52
DeleteNotebook	53
Request Syntax	53
Request Parameters	53
Response Elements	53
Errors	53
See Also	54
DeletePreparedStatement	55
Request Syntax	55
Request Parameters	55
Response Elements	55
Errors	56
See Also	56

DeleteWorkGroup	58
Request Syntax	58
Request Parameters	58
Response Elements	58
Errors	58
See Also	59
ExportNotebook	60
Request Syntax	60
Request Parameters	60
Response Syntax	60
Response Elements	61
Errors	61
See Also	62
GetCalculationExecution	63
Request Syntax	63
Request Parameters	63
Response Syntax	63
Response Elements	64
Errors	65
See Also	66
GetCalculationExecutionCode	67
Request Syntax	67
Request Parameters	67
Response Syntax	67
Response Elements	67
Errors	68
See Also	68
GetCalculationExecutionStatus	70
Request Syntax	70
Request Parameters	70
Response Syntax	70
Response Elements	71
Errors	71
See Also	72
GetCapacityAssignmentConfiguration	73
Request Syntax	73

Request Parameters	73
Response Syntax	73
Response Elements	74
Errors	74
See Also	74
GetCapacityReservation	76
Request Syntax	76
Request Parameters	76
Response Syntax	76
Response Elements	77
Errors	77
See Also	77
GetDatabase	79
Request Syntax	79
Request Parameters	79
Response Syntax	80
Response Elements	80
Errors	80
See Also	81
GetDataCatalog	82
Request Syntax	82
Request Parameters	82
Response Syntax	82
Response Elements	83
Errors	83
See Also	84
GetNamedQuery	85
Request Syntax	85
Request Parameters	85
Response Syntax	85
Response Elements	86
Errors	86
See Also	86
GetNotebookMetadata	88
Request Syntax	88
Request Parameters	88

Response Syntax	88
Response Elements	89
Errors	89
See Also	90
GetPreparedStatement	91
Request Syntax	91
Request Parameters	91
Response Syntax	91
Response Elements	92
Errors	92
See Also	93
GetQueryExecution	94
Request Syntax	94
Request Parameters	94
Response Syntax	94
Response Elements	96
Errors	96
See Also	97
GetQueryResults	98
Request Syntax	98
Request Parameters	98
Response Syntax	99
Response Elements	100
Errors	101
See Also	102
GetQueryRuntimeStatistics	103
Request Syntax	103
Request Parameters	103
Response Syntax	103
Response Elements	104
Errors	105
See Also	105
GetResourceDashboard	107
Request Syntax	107
Request Parameters	107
Response Syntax	107

Response Elements	107
Errors	108
See Also	108
GetSession	110
Request Syntax	110
Request Parameters	110
Response Syntax	110
Response Elements	112
Errors	113
See Also	114
GetSessionEndpoint	116
Request Syntax	116
Request Parameters	116
Response Syntax	116
Response Elements	116
Errors	117
See Also	118
GetSessionStatus	119
Request Syntax	119
Request Parameters	119
Response Syntax	119
Response Elements	120
Errors	120
See Also	121
GetTableMetadata	122
Request Syntax	122
Request Parameters	122
Response Syntax	123
Response Elements	124
Errors	124
See Also	125
GetWorkGroup	126
Request Syntax	126
Request Parameters	126
Response Syntax	126
Response Elements	128

Errors	129
See Also	129
ImportNotebook	130
Request Syntax	130
Request Parameters	130
Response Syntax	132
Response Elements	132
Errors	132
See Also	133
ListApplicationDPUSizes	134
Request Syntax	134
Request Parameters	134
Response Syntax	134
Response Elements	135
Errors	135
See Also	136
ListCalculationExecutions	137
Request Syntax	137
Request Parameters	137
Response Syntax	138
Response Elements	139
Errors	139
See Also	140
ListCapacityReservations	141
Request Syntax	141
Request Parameters	141
Response Syntax	141
Response Elements	142
Errors	142
See Also	143
ListDatabases	144
Request Syntax	144
Request Parameters	144
Response Syntax	145
Response Elements	145
Errors	146

See Also	147
ListDataCatalogs	148
Request Syntax	148
Request Parameters	148
Response Syntax	149
Response Elements	149
Errors	150
See Also	150
ListEngineVersions	152
Request Syntax	152
Request Parameters	152
Response Syntax	152
Response Elements	153
Errors	153
See Also	154
ListExecutors	155
Request Syntax	155
Request Parameters	155
Response Syntax	156
Response Elements	157
Errors	157
See Also	158
ListNamedQueries	159
Request Syntax	159
Request Parameters	159
Response Syntax	160
Response Elements	160
Errors	161
See Also	161
ListNotebookMetadata	163
Request Syntax	163
Request Parameters	163
Response Syntax	164
Response Elements	164
Errors	165
See Also	165

ListNotebookSessions	167
Request Syntax	167
Request Parameters	167
Response Syntax	168
Response Elements	168
Errors	169
See Also	169
ListPreparedStatements	171
Request Syntax	171
Request Parameters	171
Response Syntax	172
Response Elements	172
Errors	173
See Also	173
ListQueryExecutions	174
Request Syntax	174
Request Parameters	174
Response Syntax	175
Response Elements	175
Errors	176
See Also	176
ListSessions	178
Request Syntax	178
Request Parameters	178
Response Syntax	179
Response Elements	180
Errors	181
See Also	181
ListTableMetadata	183
Request Syntax	183
Request Parameters	183
Response Syntax	185
Response Elements	185
Errors	186
See Also	187
ListTagsForResource	188

Request Syntax	188
Request Parameters	188
Response Syntax	189
Response Elements	189
Errors	189
See Also	190
ListWorkGroups	192
Request Syntax	192
Request Parameters	192
Response Syntax	192
Response Elements	193
Errors	193
See Also	194
PutCapacityAssignmentConfiguration	195
Request Syntax	195
Request Parameters	195
Response Elements	196
Errors	196
See Also	196
StartCalculationExecution	198
Request Syntax	198
Request Parameters	198
Response Syntax	200
Response Elements	200
Errors	201
See Also	201
StartQueryExecution	203
Request Syntax	203
Request Parameters	204
Response Syntax	206
Response Elements	207
Errors	207
See Also	208
StartSession	209
Request Syntax	209
Request Parameters	210

Response Syntax	213
Response Elements	213
Errors	214
See Also	215
StopCalculationExecution	216
Request Syntax	216
Request Parameters	216
Response Syntax	216
Response Elements	217
Errors	217
See Also	218
StopQueryExecution	219
Request Syntax	219
Request Parameters	219
Response Elements	219
Errors	219
See Also	220
TagResource	221
Request Syntax	221
Request Parameters	221
Response Elements	222
Errors	222
See Also	223
TerminateSession	224
Request Syntax	224
Request Parameters	224
Response Syntax	224
Response Elements	224
Errors	225
See Also	226
UntagResource	227
Request Syntax	227
Request Parameters	227
Response Elements	227
Errors	228
See Also	228

UpdateCapacityReservation	230
Request Syntax	230
Request Parameters	230
Response Elements	230
Errors	231
See Also	231
UpdateDataCatalog	232
Request Syntax	232
Request Parameters	232
Response Elements	234
Errors	234
See Also	234
UpdateNamedQuery	236
Request Syntax	236
Request Parameters	236
Response Elements	237
Errors	237
See Also	238
UpdateNotebook	239
Request Syntax	239
Request Parameters	239
Response Elements	240
Errors	241
See Also	241
UpdateNotebookMetadata	243
Request Syntax	243
Request Parameters	243
Response Elements	244
Errors	244
See Also	245
UpdatePreparedStatement	246
Request Syntax	246
Request Parameters	246
Response Elements	247
Errors	247
See Also	248

UpdateWorkGroup	249
Request Syntax	249
Request Parameters	251
Response Elements	252
Errors	252
See Also	252
Data Types	254
AclConfiguration	257
Contents	257
See Also	257
ApplicationDPUSizes	258
Contents	258
See Also	258
AthenaError	259
Contents	259
See Also	260
BatchGetNamedQueryInput	261
Contents	261
See Also	261
BatchGetQueryExecutionInput	262
Contents	262
See Also	262
CalculationConfiguration	263
Contents	263
See Also	263
CalculationResult	264
Contents	264
See Also	265
CalculationStatistics	266
Contents	266
See Also	266
CalculationStatus	267
Contents	267
See Also	268
CalculationSummary	269
Contents	269

See Also	269
CapacityAllocation	271
Contents	271
See Also	271
CapacityAssignment	273
Contents	273
See Also	273
CapacityAssignmentConfiguration	274
Contents	274
See Also	274
CapacityReservation	275
Contents	275
See Also	276
Classification	277
Contents	277
See Also	277
CloudWatchLoggingConfiguration	278
Contents	278
See Also	279
Column	280
Contents	280
See Also	280
ColumnInfo	282
Contents	282
See Also	284
CustomerContentEncryptionConfiguration	285
Contents	285
See Also	285
Database	286
Contents	286
See Also	286
DataCatalog	288
Contents	288
See Also	291
DataCatalogSummary	293
Contents	293

See Also	295
Datum	296
Contents	296
See Also	296
EncryptionConfiguration	297
Contents	297
See Also	297
EngineConfiguration	298
Contents	298
See Also	299
EngineVersion	301
Contents	301
See Also	301
ExecutorsSummary	302
Contents	302
See Also	303
FilterDefinition	304
Contents	304
See Also	304
IdentityCenterConfiguration	305
Contents	305
See Also	305
ListNamedQueriesInput	306
Contents	306
See Also	306
ListQueryExecutionsInput	308
Contents	308
See Also	308
ManagedLoggingConfiguration	310
Contents	310
See Also	310
ManagedQueryResultsConfiguration	311
Contents	311
See Also	311
ManagedQueryResultsConfigurationUpdates	312
Contents	312

See Also	312
ManagedQueryResultsEncryptionConfiguration	314
Contents	314
See Also	314
MonitoringConfiguration	315
Contents	315
See Also	315
NamedQuery	316
Contents	316
See Also	317
NotebookMetadata	318
Contents	318
See Also	319
NotebookSessionSummary	320
Contents	320
See Also	320
PreparedStatement	321
Contents	321
See Also	322
PreparedStatementSummary	323
Contents	323
See Also	323
QueryExecution	324
Contents	324
See Also	327
QueryExecutionContext	328
Contents	328
See Also	328
QueryExecutionStatistics	329
Contents	329
See Also	331
QueryExecutionStatus	332
Contents	332
See Also	333
QueryResultsS3AccessGrantsConfiguration	334
Contents	334

See Also	334
QueryRuntimeStatistics	336
Contents	336
See Also	336
QueryRuntimeStatisticsRows	338
Contents	338
See Also	338
QueryRuntimeStatisticsTimeline	340
Contents	340
See Also	341
QueryStage	342
Contents	342
See Also	343
QueryStagePlanNode	344
Contents	344
See Also	344
ResultConfiguration	346
Contents	346
See Also	347
ResultConfigurationUpdates	348
Contents	348
See Also	350
ResultReuseByAgeConfiguration	351
Contents	351
See Also	351
ResultReuseConfiguration	352
Contents	352
See Also	352
ResultReuseInformation	353
Contents	353
See Also	353
ResultSet	354
Contents	354
See Also	354
ResultSetMetadata	355
Contents	355

See Also	355
Row	356
Contents	356
See Also	356
S3LoggingConfiguration	357
Contents	357
See Also	358
SessionConfiguration	359
Contents	359
See Also	360
SessionStatistics	361
Contents	361
See Also	361
SessionStatus	362
Contents	362
See Also	363
SessionSummary	364
Contents	364
See Also	365
TableMetadata	366
Contents	366
See Also	367
Tag	368
Contents	368
See Also	369
UnprocessedNamedQueryId	370
Contents	370
See Also	370
UnprocessedPreparedStatementName	372
Contents	372
See Also	373
UnprocessedQueryExecutionId	374
Contents	374
See Also	374
WorkGroup	376
Contents	376

See Also	377
WorkGroupConfiguration	379
Contents	379
See Also	383
WorkGroupConfigurationUpdates	384
Contents	384
See Also	388
WorkGroupSummary	389
Contents	389
See Also	390
Common Parameters	391
Common Error Types	394

Welcome

Amazon Athena is an interactive query service that lets you use standard SQL to analyze data directly in Amazon S3. You can point Athena at your data in Amazon S3 and run ad-hoc queries and get results in seconds. Athena is serverless, so there is no infrastructure to set up or manage. You pay only for the queries you run. Athena scales automatically—executing queries in parallel—so results are fast, even with large datasets and complex queries. For more information, see [What is Amazon Athena](#) in the *Amazon Athena User Guide*.

If you connect to Athena using the JDBC driver, use version 1.1.0 of the driver or later with the Amazon Athena API. Earlier version drivers do not support the API. For more information and to download the driver, see [Accessing Amazon Athena with JDBC](#).

This document was last published on September 21, 2026.

Actions

The following actions are supported:

- [BatchGetNamedQuery](#)
- [BatchGetPreparedStatement](#)
- [BatchGetQueryExecution](#)
- [CancelCapacityReservation](#)
- [CreateCapacityReservation](#)
- [CreateDataCatalog](#)
- [CreateNamedQuery](#)
- [CreateNotebook](#)
- [CreatePreparedStatement](#)
- [CreatePresignedNotebookUrl](#)
- [CreateWorkGroup](#)
- [DeleteCapacityReservation](#)
- [DeleteDataCatalog](#)
- [DeleteNamedQuery](#)
- [DeleteNotebook](#)
- [DeletePreparedStatement](#)
- [DeleteWorkGroup](#)
- [ExportNotebook](#)
- [GetCalculationExecution](#)
- [GetCalculationExecutionCode](#)
- [GetCalculationExecutionStatus](#)
- [GetCapacityAssignmentConfiguration](#)
- [GetCapacityReservation](#)
- [GetDatabase](#)
- [GetDataCatalog](#)
- [GetNamedQuery](#)
- [GetNotebookMetadata](#)

- [GetPreparedStatement](#)
- [GetQueryExecution](#)
- [GetQueryResults](#)
- [GetQueryRuntimeStatistics](#)
- [GetResourceDashboard](#)
- [GetSession](#)
- [GetSessionEndpoint](#)
- [GetSessionStatus](#)
- [GetTableMetadata](#)
- [GetWorkGroup](#)
- [ImportNotebook](#)
- [ListApplicationDPUSizes](#)
- [ListCalculationExecutions](#)
- [ListCapacityReservations](#)
- [ListDatabases](#)
- [ListDataCatalogs](#)
- [ListEngineVersions](#)
- [ListExecutors](#)
- [ListNamedQueries](#)
- [ListNotebookMetadata](#)
- [ListNotebookSessions](#)
- [ListPreparedStatement](#)
- [ListQueryExecutions](#)
- [ListSessions](#)
- [ListTableMetadata](#)
- [ListTagsForResource](#)
- [ListWorkGroups](#)
- [PutCapacityAssignmentConfiguration](#)
- [StartCalculationExecution](#)
- [StartQueryExecution](#)

- [StartSession](#)
- [StopCalculationExecution](#)
- [StopQueryExecution](#)
- [TagResource](#)
- [TerminateSession](#)
- [UntagResource](#)
- [UpdateCapacityReservation](#)
- [UpdateDataCatalog](#)
- [UpdateNamedQuery](#)
- [UpdateNotebook](#)
- [UpdateNotebookMetadata](#)
- [UpdatePreparedStatement](#)
- [UpdateWorkGroup](#)

BatchGetNamedQuery

Returns the details of a single named query or a list of up to 50 queries, which you provide as an array of query ID strings. Requires you to have access to the workgroup in which the queries were saved. Use [ListNamedQueriesInput](#) to get the list of named query IDs in the specified workgroup. If information could not be retrieved for a submitted query ID, information about the query ID submitted is listed under [UnprocessedNamedQueryId](#). Named queries differ from executed queries. Use [BatchGetQueryExecutionInput](#) to get details about each unique query execution, and [ListQueryExecutionsInput](#) to get a list of query execution IDs.

Request Syntax

```
{  
  "NamedQueryIds": [ "string" ]  
}
```

Request Parameters

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

The request accepts the following data in JSON format.

[NamedQueryIds](#)

An array of query IDs.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 50 items.

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

Pattern: \S+

Required: Yes

Response Syntax

```
{  
  "NamedQueries": [  
    {  
      "NamedQueryId": "string",  
      "Query": "string",  
      "Workgroup": "string",  
      "CreationTime": "timestamp",  
      "LastModifiedTime": "timestamp",  
      "Status": "string",  
      "ErrorMessage": "string",  
      "QueryText": "string",  
      "QueryType": "string",  
      "QueryExecutionContext": "string",  
      "NamedQueryType": "string",  
      "Tags": {  
        "TagKey": "string",  
        "TagValue": "string"  
      }  
    }  
  ]  
}
```

```
{
  "Database": "string",
  "Description": "string",
  "Name": "string",
  "NamedQueryId": "string",
  "QueryString": "string",
  "WorkGroup": "string"
},
"UnprocessedNamedQueryIds": [
  {
    "ErrorCode": "string",
    "ErrorMessage": "string",
    "NamedQueryId": "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.

NamedQueries

Information about the named query IDs submitted.

Type: Array of [NamedQuery](#) objects

UnprocessedNamedQueryIds

Information about provided query IDs.

Type: Array of [UnprocessedNamedQueryId](#) objects

Errors

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

InternalServerError

Indicates a platform issue, which may be due to a transient condition or outage.

HTTP Status Code: 500

InvalidRequestException

Indicates that something is wrong with the input to the request. For example, a required parameter may be missing or out of range.

AthenaErrorCode

The error code returned when the query execution failed to process, or when the processing request for the named query failed.

HTTP Status Code: 400

See Also

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

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

BatchGetPreparedStatement

Returns the details of a single prepared statement or a list of up to 256 prepared statements for the array of prepared statement names that you provide. Requires you to have access to the workgroup to which the prepared statements belong. If a prepared statement cannot be retrieved for the name specified, the statement is listed in `UnprocessedPreparedStatementNames`.

Request Syntax

```
{  
  "PreparedStatementNames": [ "string" ],  
  "WorkGroup": "string"  
}
```

Request Parameters

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

The request accepts the following data in JSON format.

PreparedStatementNames

A list of prepared statement names to return.

Type: Array of strings

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

Pattern: `[a-zA-Z_][a-zA-Z0-9_@:]{1,256}`

Required: Yes

WorkGroup

The name of the workgroup to which the prepared statements belong.

Type: String

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

Required: Yes

Response Syntax

```
{
  "PreparedStatements": [
    {
      "Description": "string",
      "LastModifiedTime": number,
      "QueryStatement": "string",
      "StatementName": "string",
      "WorkGroupName": "string"
    }
  ],
  "UnprocessedPreparedStatementNames": [
    {
      "ErrorCode": "string",
      "ErrorMessage": "string",
      "StatementName": "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.

PreparedStatements

The list of prepared statements returned.

Type: Array of [PreparedStatement](#) objects

UnprocessedPreparedStatementNames

A list of one or more prepared statements that were requested but could not be returned.

Type: Array of [UnprocessedPreparedStatementName](#) objects

Errors

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

InternalServerError

Indicates a platform issue, which may be due to a transient condition or outage.

HTTP Status Code: 500

InvalidRequestException

Indicates that something is wrong with the input to the request. For example, a required parameter may be missing or out of range.

AthenaErrorCode

The error code returned when the query execution failed to process, or when the processing request for the named query failed.

HTTP Status Code: 400

See Also

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

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

BatchGetQueryExecution

Returns the details of a single query execution or a list of up to 50 query executions, which you provide as an array of query execution ID strings. Requires you to have access to the workgroup in which the queries ran. To get a list of query execution IDs, use [ListQueryExecutions:WorkGroup](#). Query executions differ from named (saved) queries. Use [BatchGetNamedQueryInput](#) to get details about named queries.

Request Syntax

```
{  
  "QueryExecutionIds": [ "string" ]  
}
```

Request Parameters

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

The request accepts the following data in JSON format.

[QueryExecutionIds](#)

An array of query execution IDs.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 50 items.

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

Pattern: \S+

Required: Yes

Response Syntax

```
{  
  "QueryExecutions": [  
    {  
      "EngineVersion": {  
        "EffectiveEngineVersion": "string",  

```

```

    "SelectedEngineVersion": "string"
  },
  "ExecutionParameters": [ "string" ],
  "ManagedQueryResultsConfiguration": {
    "Enabled": boolean,
    "EncryptionConfiguration": {
      "KmsKey": "string"
    }
  },
  "Query": "string",
  "QueryExecutionContext": {
    "Catalog": "string",
    "Database": "string"
  },
  "QueryExecutionId": "string",
  "QueryResultsS3AccessGrantsConfiguration": {
    "AuthenticationType": "string",
    "CreateUserLevelPrefix": boolean,
    "EnableS3AccessGrants": boolean
  },
  "ResultConfiguration": {
    "AclConfiguration": {
      "S3AclOption": "string"
    },
    "EncryptionConfiguration": {
      "EncryptionOption": "string",
      "KmsKey": "string"
    },
    "ExpectedBucketOwner": "string",
    "OutputLocation": "string"
  },
  "ResultReuseConfiguration": {
    "ResultReuseByAgeConfiguration": {
      "Enabled": boolean,
      "MaxAgeInMinutes": number
    }
  },
  "StatementType": "string",
  "Statistics": {
    "DataManifestLocation": "string",
    "DataScannedInBytes": number,
    "DpuCount": number,
    "EngineExecutionTimeInMillis": number,
    "QueryPlanningTimeInMillis": number,

```

```

    "QueryQueueTimeInMillis": number,
    "ResultReuseInformation": {
      "ReusedPreviousResult": boolean
    },
    "ServicePreProcessingTimeInMillis": number,
    "ServiceProcessingTimeInMillis": number,
    "TotalExecutionTimeInMillis": number
  },
  "Status": {
    "AthenaError": {
      "ErrorCategory": number,
      "ErrorMessage": "string",
      "ErrorType": number,
      "Retryable": boolean
    },
    "CompletionDateTime": number,
    "State": "string",
    "StateChangeReason": "string",
    "SubmissionDateTime": number
  },
  "SubstatementType": "string",
  "WorkGroup": "string"
}
],
"UnprocessedQueryExecutionIds": [
  {
    "ErrorCode": "string",
    "ErrorMessage": "string",
    "QueryExecutionId": "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.

QueryExecutions

Information about a query execution.

Type: Array of [QueryExecution](#) objects

[UnprocessedQueryExecutionIds](#)

Information about the query executions that failed to run.

Type: Array of [UnprocessedQueryExecutionId](#) objects

Errors

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

InternalServerError

Indicates a platform issue, which may be due to a transient condition or outage.

HTTP Status Code: 500

InvalidRequestException

Indicates that something is wrong with the input to the request. For example, a required parameter may be missing or out of range.

AthenaErrorCode

The error code returned when the query execution failed to process, or when the processing request for the named query failed.

HTTP Status Code: 400

See Also

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

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

- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

CancelCapacityReservation

Cancels the capacity reservation with the specified name. Cancelled reservations remain in your account and will be deleted 45 days after cancellation. During the 45 days, you cannot re-purpose or reuse a reservation that has been cancelled, but you can refer to its tags and view it for historical reference.

Request Syntax

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

Request Parameters

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

The request accepts the following data in JSON format.

Name

The name of the capacity reservation to cancel.

Type: String

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

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

Required: Yes

Response Elements

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

Errors

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

InternalServerError

Indicates a platform issue, which may be due to a transient condition or outage.

HTTP Status Code: 500

InvalidRequestException

Indicates that something is wrong with the input to the request. For example, a required parameter may be missing or out of range.

AthenaErrorCode

The error code returned when the query execution failed to process, or when the processing request for the named query failed.

HTTP Status Code: 400

See Also

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

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

CreateCapacityReservation

Creates a capacity reservation with the specified name and number of requested data processing units.

Request Syntax

```
{
  "Name": "string",
  "Tags": [
    {
      "Key": "string",
      "Value": "string"
    }
  ],
  "TargetDpus": number
}
```

Request Parameters

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

The request accepts the following data in JSON format.

Name

The name of the capacity reservation to create.

Type: String

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

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

Required: Yes

Tags

The tags for the capacity reservation.

Type: Array of [Tag](#) objects

Required: No

TargetDpus

The number of requested data processing units.

Type: Integer

Valid Range: Minimum value of 4.

Required: Yes

Response Elements

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

Errors

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

InternalServerError

Indicates a platform issue, which may be due to a transient condition or outage.

HTTP Status Code: 500

InvalidRequestException

Indicates that something is wrong with the input to the request. For example, a required parameter may be missing or out of range.

AthenaErrorCode

The error code returned when the query execution failed to process, or when the processing request for the named query failed.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface V2](#)

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

CreateDataCatalog

Creates (registers) a data catalog with the specified name and properties. Catalogs created are visible to all users of the same AWS account.

For a FEDERATED catalog, this API operation creates the following resources.

- CFN Stack Name with a maximum length of 128 characters and prefix `athenafederatedcatalog-CATALOG_NAME_SANITIZED` with length 23 characters.
- Lambda Function Name with a maximum length of 64 characters and prefix `athenafederatedcatalog-CATALOG_NAME_SANITIZED` with length 23 characters.
- Glue Connection Name with a maximum length of 255 characters and a prefix `athenafederatedcatalog-CATALOG_NAME_SANITIZED` with length 23 characters.

Request Syntax

```
{
  "Description": "string",
  "Name": "string",
  "Parameters": {
    "string" : "string"
  },
  "Tags": [
    {
      "Key": "string",
      "Value": "string"
    }
  ],
  "Type": "string"
}
```

Request Parameters

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

The request accepts the following data in JSON format.

Description

A description of the data catalog to be created.

Type: String

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

Required: No

Name

The name of the data catalog to create. The catalog name must be unique for the AWS account and can use a maximum of 127 alphanumeric, underscore, at sign, or hyphen characters. The remainder of the length constraint of 256 is reserved for use by Athena.

For FEDERATED type the catalog name has following considerations and limits:

- The catalog name allows special characters such as `_` , `@` , `\` , `-` . These characters are replaced with a hyphen (-) when creating the CFN Stack Name and with an underscore (`_`) when creating the Lambda Function and Glue Connection Name.
- The catalog name has a theoretical limit of 128 characters. However, since we use it to create other resources that allow less characters and we prepend a prefix to it, the actual catalog name limit for FEDERATED catalog is $64 - 23 = 41$ characters.

Type: String

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

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

Required: Yes

Parameters

Specifies the Lambda function or functions to use for creating the data catalog. This is a mapping whose values depend on the catalog type.

- For the HIVE data catalog type, use the following syntax. The `metadata-function` parameter is required. The `sdk-version` parameter is optional and defaults to the currently supported version.

`metadata-function=`*lambda_arn*`, sdk-version=`*version_number*

- For the LAMBDA data catalog type, use one of the following sets of required parameters, but not both.
 - If you have one Lambda function that processes metadata and another for reading the actual data, use the following syntax. Both parameters are required.

`metadata-function=lambda_arn, record-function=lambda_arn`

- If you have a composite Lambda function that processes both metadata and data, use the following syntax to specify your Lambda function.

`function=lambda_arn`

- The GLUE type takes a catalog ID parameter and is required. The *catalog_id* is the account ID of the AWS account to which the AWS Glue Data Catalog belongs.

`catalog-id=catalog_id`

- The GLUE data catalog type also applies to the default `AwsDataCatalog` that already exists in your account, of which you can have only one and cannot modify.
- The FEDERATED data catalog type uses one of the following parameters, but not both. Use `connection-arn` for an existing AWS Glue connection. Use `connection-type` and `connection-properties` to specify the configuration setting for a new connection.
 - `connection-arn`: *<glue_connection_arn_to_reuse>*
 - `lambda-role-arn` (optional): The execution role to use for the Lambda function. If not provided, one is created.
 - `connection-type`: `MYSQL|REDSHIFT|....`, `connection-properties`: *<json_string>*

For *<json_string>*, use escaped JSON text, as in the following example.

```
"{"spill_bucket\":"my_spill\","spill_prefix\":"athena-spill\","host\":"abc12345.snowflakecomputing.com\","port\":"1234\","warehouse\":"DEV_WH\","database\":"TEST\","schema\":"PUBLIC\","SecretArn\":"arn:aws:secretsmanager:ap-south-1:111122223333:secret:snowflake-XHb67j\"}"
```

Type: String to string map

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

Key Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Value Length Constraints: Maximum length of 51200.

Required: No

Tags

A list of comma separated tags to add to the data catalog that is created. All the resources that are created by the CreateDataCatalog API operation with FEDERATED type will have the tag `federated_athena_datacatalog="true"`. This includes the CFN Stack, Glue Connection, Athena DataCatalog, and all the resources created as part of the CFN Stack (Lambda Function, IAM policies/roles).

Type: Array of [Tag](#) objects

Required: No

Type

The type of data catalog to create: LAMBDA for a federated catalog, GLUE for an AWS Glue Data Catalog, and HIVE for an external Apache Hive metastore. FEDERATED is a federated catalog for which Athena creates the connection and the Lambda function for you based on the parameters that you pass.

For FEDERATED type, we do not support IAM identity center.

Type: String

Valid Values: LAMBDA | GLUE | HIVE | FEDERATED

Required: Yes

Response Syntax

```
{
  "DataCatalog": {
    "ConnectionType": "string",
    "Description": "string",
    "Error": "string",
    "Name": "string",
    "Parameters": {
      "string" : "string"
    },
    "Status": "string",
    "Type": "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.

[DataCatalog](#)

Contains information about a data catalog in an AWS account.

Note

In the Athena console, data catalogs are listed as "data sources" on the **Data sources** page under the **Data source name** column.

Type: [DataCatalog](#) object

Errors

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

InternalServerError

Indicates a platform issue, which may be due to a transient condition or outage.

HTTP Status Code: 500

InvalidRequestException

Indicates that something is wrong with the input to the request. For example, a required parameter may be missing or out of range.

AthenaErrorCode

The error code returned when the query execution failed to process, or when the processing request for the named query failed.

HTTP Status Code: 400

See Also

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

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

CreateNamedQuery

Creates a named query in the specified workgroup. Requires that you have access to the workgroup.

Request Syntax

```
{  
  "ClientRequestToken": "string",  
  "Database": "string",  
  "Description": "string",  
  "Name": "string",  
  "QueryString": "string",  
  "WorkGroup": "string"  
}
```

Request Parameters

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

The request accepts the following data in JSON format.

ClientRequestToken

A unique case-sensitive string used to ensure the request to create the query is idempotent (executes only once). If another CreateNamedQuery request is received, the same response is returned and another query is not created. If a parameter has changed, for example, the QueryString, an error is returned.

Important

This token is listed as not required because AWS SDKs (for example the AWS SDK for Java) auto-generate the token for users. If you are not using the AWS SDK or the AWS CLI, you must provide this token or the action will fail.

Type: String

Length Constraints: Minimum length of 32. Maximum length of 128.

Required: No

Database

The database to which the query belongs.

Type: String

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

Required: Yes

Description

The query description.

Type: String

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

Required: No

Name

The query name.

Type: String

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

Required: Yes

QueryString

The contents of the query with all query statements.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 262144.

Required: Yes

WorkGroup

The name of the workgroup in which the named query is being created.

Type: String

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

Required: No

Response Syntax

```
{  
  "NamedQueryId": "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.

[NamedQueryId](#)

The unique ID of the query.

Type: String

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

Pattern: \S+

Errors

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

InternalServerErrorException

Indicates a platform issue, which may be due to a transient condition or outage.

HTTP Status Code: 500

InvalidRequestException

Indicates that something is wrong with the input to the request. For example, a required parameter may be missing or out of range.

AthenaErrorCode

The error code returned when the query execution failed to process, or when the processing request for the named query failed.

HTTP Status Code: 400

See Also

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

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

CreateNotebook

Creates an empty `ipynb` file in the specified Apache Spark enabled workgroup. Throws an error if a file in the workgroup with the same name already exists.

Request Syntax

```
{  
  "ClientRequestToken": "string",  
  "Name": "string",  
  "WorkGroup": "string"  
}
```

Request Parameters

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

The request accepts the following data in JSON format.

ClientRequestToken

A unique case-sensitive string used to ensure the request to create the notebook is idempotent (executes only once).

Important

This token is listed as not required because AWS SDKs (for example the AWS SDK for Java) auto-generate the token for you. If you are not using the AWS SDK or the AWS CLI, you must provide this token or the action will fail.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

Pattern: `[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}`

Required: No

Name

The name of the `ipynb` file to be created in the Spark workgroup, without the `.ipynb` extension.

Type: String

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

Pattern: `(?!.*[/:\])[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]+`

Required: Yes

WorkGroup

The name of the Spark enabled workgroup in which the notebook will be created.

Type: String

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

Required: Yes

Response Syntax

```
{
  "NotebookId": "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.

NotebookId

A unique identifier for the notebook.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

Pattern: `[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}`

Errors

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

InternalServerError

Indicates a platform issue, which may be due to a transient condition or outage.

HTTP Status Code: 500

InvalidRequestException

Indicates that something is wrong with the input to the request. For example, a required parameter may be missing or out of range.

AthenaErrorCode

The error code returned when the query execution failed to process, or when the processing request for the named query failed.

HTTP Status Code: 400

TooManyRequestsException

Indicates that the request was throttled.

Reason

The reason for the query throttling, for example, when it exceeds the concurrent query limit.

HTTP Status Code: 400

See Also

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

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

- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

CreatePreparedStatement

Creates a prepared statement for use with SQL queries in Athena.

Request Syntax

```
{  
  "Description": "string",  
  "QueryStatement": "string",  
  "StatementName": "string",  
  "WorkGroup": "string"  
}
```

Request Parameters

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

The request accepts the following data in JSON format.

Description

The description of the prepared statement.

Type: String

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

Required: No

QueryStatement

The query string for the prepared statement.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 262144.

Required: Yes

StatementName

The name of the prepared statement.

Type: String

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

Pattern: `[a-zA-Z_][a-zA-Z0-9_@:]{1,256}`

Required: Yes

WorkGroup

The name of the workgroup to which the prepared statement belongs.

Type: String

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

Required: Yes

Response Elements

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

Errors

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

InternalServerError

Indicates a platform issue, which may be due to a transient condition or outage.

HTTP Status Code: 500

InvalidRequestException

Indicates that something is wrong with the input to the request. For example, a required parameter may be missing or out of range.

AthenaErrorCode

The error code returned when the query execution failed to process, or when the processing request for the named query failed.

HTTP Status Code: 400

See Also

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

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

CreatePresignedNotebookUrl

Gets an authentication token and the URL at which the notebook can be accessed. During programmatic access, `CreatePresignedNotebookUrl` must be called every 10 minutes to refresh the authentication token. For information about granting programmatic access, see [Grant programmatic access](#).

Request Syntax

```
{  
  "SessionId": "string"  
}
```

Request Parameters

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

The request accepts the following data in JSON format.

[SessionId](#)

The session ID.

Type: String

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

Required: Yes

Response Syntax

```
{  
  "AuthToken": "string",  
  "AuthTokenExpirationTime": number,  
  "NotebookUrl": "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.

AuthToken

The authentication token for the notebook.

Type: String

Length Constraints: Maximum length of 2048.

AuthTokenExpirationTime

The UTC epoch time when the authentication token expires.

Type: Long

NotebookUrl

The URL of the notebook. The URL includes the authentication token and notebook file name and points directly to the opened notebook.

Type: String

Errors

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

InternalServerError

Indicates a platform issue, which may be due to a transient condition or outage.

HTTP Status Code: 500

InvalidRequestException

Indicates that something is wrong with the input to the request. For example, a required parameter may be missing or out of range.

AthenaErrorCode

The error code returned when the query execution failed to process, or when the processing request for the named query failed.

HTTP Status Code: 400

ResourceNotFoundException

A resource, such as a workgroup, was not found.

ResourceName

The name of the Amazon resource.

HTTP Status Code: 400

See Also

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

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

CreateWorkGroup

Creates a workgroup with the specified name. A workgroup can be an Apache Spark enabled workgroup or an Athena SQL workgroup.

Request Syntax

```
{
  "Configuration": {
    "AdditionalConfiguration": "string",
    "BytesScannedCutoffPerQuery": number,
    "CustomerContentEncryptionConfiguration": {
      "KmsKey": "string"
    },
    "EnableMinimumEncryptionConfiguration": boolean,
    "EnforceWorkGroupConfiguration": boolean,
    "EngineConfiguration": {
      "AdditionalConfigs": {
        "string" : "string"
      },
      "Classifications": [
        {
          "Name": "string",
          "Properties": {
            "string" : "string"
          }
        }
      ],
      "CoordinatorDpuSize": number,
      "DefaultExecutorDpuSize": number,
      "MaxConcurrentDpus": number,
      "SparkProperties": {
        "string" : "string"
      }
    },
    "EngineVersion": {
      "EffectiveEngineVersion": "string",
      "SelectedEngineVersion": "string"
    },
    "ExecutionRole": "string",
    "IdentityCenterConfiguration": {
      "EnableIdentityCenter": boolean,
      "IdentityCenterInstanceArn": "string"
    }
  }
}
```

```

},
"ManagedQueryResultsConfiguration": {
  "Enabled": boolean,
  "EncryptionConfiguration": {
    "KmsKey": "string"
  }
},
"MonitoringConfiguration": {
  "CloudWatchLoggingConfiguration": {
    "Enabled": boolean,
    "LogGroup": "string",
    "LogStreamNamePrefix": "string",
    "LogTypes": {
      "string" : [ "string" ]
    }
  },
  "ManagedLoggingConfiguration": {
    "Enabled": boolean,
    "KmsKey": "string"
  },
  "S3LoggingConfiguration": {
    "Enabled": boolean,
    "KmsKey": "string",
    "LogLocation": "string"
  }
},
"PublishCloudWatchMetricsEnabled": boolean,
"QueryResultsS3AccessGrantsConfiguration": {
  "AuthenticationType": "string",
  "CreateUserLevelPrefix": boolean,
  "EnableS3AccessGrants": boolean
},
"RequesterPaysEnabled": boolean,
"ResultConfiguration": {
  "AclConfiguration": {
    "S3AclOption": "string"
  },
  "EncryptionConfiguration": {
    "EncryptionOption": "string",
    "KmsKey": "string"
  },
  "ExpectedBucketOwner": "string",
  "OutputLocation": "string"
}

```

```
{,
  "Description": "string",
  "Name": "string",
  "Tags": [
    {
      "Key": "string",
      "Value": "string"
    }
  ]
}
```

Request Parameters

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

The request accepts the following data in JSON format.

[Configuration](#)

Contains configuration information for creating an Athena SQL workgroup or Spark enabled Athena workgroup. Athena SQL workgroup configuration includes the location in Amazon S3 where query and calculation results are stored, the encryption configuration, if any, used for encrypting query results, whether the Amazon CloudWatch Metrics are enabled for the workgroup, the limit for the amount of bytes scanned (cutoff) per query, if it is specified, and whether workgroup's settings (specified with `EnforceWorkGroupConfiguration`) in the `WorkGroupConfiguration` override client-side settings. See [WorkGroupConfiguration:EnforceWorkGroupConfiguration](#).

Type: [WorkGroupConfiguration](#) object

Required: No

[Description](#)

The workgroup description.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Required: No

Name

The workgroup name.

Type: String

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

Required: Yes

Tags

A list of comma separated tags to add to the workgroup that is created.

Type: Array of [Tag](#) objects

Required: No

Response Elements

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

Errors

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

InternalServerError

Indicates a platform issue, which may be due to a transient condition or outage.

HTTP Status Code: 500

InvalidRequestException

Indicates that something is wrong with the input to the request. For example, a required parameter may be missing or out of range.

AthenaErrorCode

The error code returned when the query execution failed to process, or when the processing request for the named query failed.

HTTP Status Code: 400

See Also

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

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

DeleteCapacityReservation

Deletes a cancelled capacity reservation. A reservation must be cancelled before it can be deleted. A deleted reservation is immediately removed from your account and can no longer be referenced, including by its ARN. A deleted reservation cannot be called by `GetCapacityReservation`, and deleted reservations do not appear in the output of `ListCapacityReservations`.

Request Syntax

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

Request Parameters

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

The request accepts the following data in JSON format.

Name

The name of the capacity reservation to delete.

Type: String

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

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

Required: Yes

Response Elements

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

Errors

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

InternalServerError

Indicates a platform issue, which may be due to a transient condition or outage.

HTTP Status Code: 500

InvalidRequestException

Indicates that something is wrong with the input to the request. For example, a required parameter may be missing or out of range.

AthenaErrorCode

The error code returned when the query execution failed to process, or when the processing request for the named query failed.

HTTP Status Code: 400

See Also

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

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

DeleteDataCatalog

Deletes a data catalog.

Request Syntax

```
{  
  "DeleteCatalogOnly": boolean,  
  "Name": "string"  
}
```

Request Parameters

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

The request accepts the following data in JSON format.

[DeleteCatalogOnly](#)

Deletes the Athena Data Catalog. You can only use this with the FEDERATED catalogs. You usually perform this before registering the connector with Glue Data Catalog. After deletion, you will have to manage the Glue Connection and Lambda function.

Type: Boolean

Required: No

[Name](#)

The name of the data catalog to delete.

Type: String

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

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

Required: Yes

Response Syntax

```
{
```

```
"DataCatalog": {
  "ConnectionType": "string",
  "Description": "string",
  "Error": "string",
  "Name": "string",
  "Parameters": {
    "string" : "string"
  },
  "Status": "string",
  "Type": "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.

[DataCatalog](#)

Contains information about a data catalog in an AWS account.

Note

In the Athena console, data catalogs are listed as "data sources" on the **Data sources** page under the **Data source name** column.

Type: [DataCatalog](#) object

Errors

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

InternalServerException

Indicates a platform issue, which may be due to a transient condition or outage.

HTTP Status Code: 500

InvalidRequestException

Indicates that something is wrong with the input to the request. For example, a required parameter may be missing or out of range.

AthenaErrorCode

The error code returned when the query execution failed to process, or when the processing request for the named query failed.

HTTP Status Code: 400

See Also

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

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

DeleteNamedQuery

Deletes the named query if you have access to the workgroup in which the query was saved.

Request Syntax

```
{  
  "NamedQueryId": "string"  
}
```

Request Parameters

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

The request accepts the following data in JSON format.

NamedQueryId

The unique ID of the query to delete.

Type: String

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

Pattern: \S+

Required: Yes

Response Elements

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

Errors

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

InternalServerError

Indicates a platform issue, which may be due to a transient condition or outage.

HTTP Status Code: 500

InvalidRequestException

Indicates that something is wrong with the input to the request. For example, a required parameter may be missing or out of range.

AthenaErrorCode

The error code returned when the query execution failed to process, or when the processing request for the named query failed.

HTTP Status Code: 400

See Also

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

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

DeleteNotebook

Deletes the specified notebook.

Request Syntax

```
{  
  "NotebookId": "string"  
}
```

Request Parameters

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

The request accepts the following data in JSON format.

[NotebookId](#)

The ID of the notebook to delete.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

Pattern: [a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}

Required: Yes

Response Elements

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

Errors

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

InternalServerErrorException

Indicates a platform issue, which may be due to a transient condition or outage.

HTTP Status Code: 500

InvalidRequestException

Indicates that something is wrong with the input to the request. For example, a required parameter may be missing or out of range.

AthenaErrorCode

The error code returned when the query execution failed to process, or when the processing request for the named query failed.

HTTP Status Code: 400

TooManyRequestsException

Indicates that the request was throttled.

Reason

The reason for the query throttling, for example, when it exceeds the concurrent query limit.

HTTP Status Code: 400

See Also

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

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

DeletePreparedStatement

Deletes the prepared statement with the specified name from the specified workgroup.

Request Syntax

```
{  
  "StatementName": "string",  
  "WorkGroup": "string"  
}
```

Request Parameters

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

The request accepts the following data in JSON format.

[StatementName](#)

The name of the prepared statement to delete.

Type: String

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

Pattern: [a-zA-Z_][a-zA-Z0-9_@:]{1,256}

Required: Yes

[WorkGroup](#)

The workgroup to which the statement to be deleted belongs.

Type: String

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

Required: Yes

Response Elements

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

Errors

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

InternalServerError

Indicates a platform issue, which may be due to a transient condition or outage.

HTTP Status Code: 500

InvalidRequestException

Indicates that something is wrong with the input to the request. For example, a required parameter may be missing or out of range.

AthenaErrorCode

The error code returned when the query execution failed to process, or when the processing request for the named query failed.

HTTP Status Code: 400

ResourceNotFoundException

A resource, such as a workgroup, was not found.

ResourceName

The name of the Amazon resource.

HTTP Status Code: 400

See Also

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

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

- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

DeleteWorkGroup

Deletes the workgroup with the specified name. The primary workgroup cannot be deleted.

Request Syntax

```
{  
  "RecursiveDeleteOption": boolean,  
  "WorkGroup": "string"  
}
```

Request Parameters

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

The request accepts the following data in JSON format.

[RecursiveDeleteOption](#)

The option to delete the workgroup and its contents even if the workgroup contains any named queries, query executions, or notebooks.

Type: Boolean

Required: No

[WorkGroup](#)

The unique name of the workgroup to delete.

Type: String

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

Required: Yes

Response Elements

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

Errors

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

InternalServerError

Indicates a platform issue, which may be due to a transient condition or outage.

HTTP Status Code: 500

InvalidRequestException

Indicates that something is wrong with the input to the request. For example, a required parameter may be missing or out of range.

AthenaErrorCode

The error code returned when the query execution failed to process, or when the processing request for the named query failed.

HTTP Status Code: 400

See Also

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

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

ExportNotebook

Exports the specified notebook and its metadata.

Request Syntax

```
{  
  "NotebookId": "string"  
}
```

Request Parameters

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

The request accepts the following data in JSON format.

NotebookId

The ID of the notebook to export.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

Pattern: [a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}

Required: Yes

Response Syntax

```
{  
  "NotebookMetadata": {  
    "CreationTime": number,  
    "LastModifiedTime": number,  
    "Name": "string",  
    "NotebookId": "string",  
    "Type": "string",  
    "WorkGroup": "string"  
  },  
  "Payload": "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.

NotebookMetadata

The notebook metadata, including notebook ID, notebook name, and workgroup name.

Type: [NotebookMetadata](#) object

Payload

The content of the exported notebook.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10485760.

Errors

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

InternalServerException

Indicates a platform issue, which may be due to a transient condition or outage.

HTTP Status Code: 500

InvalidRequestException

Indicates that something is wrong with the input to the request. For example, a required parameter may be missing or out of range.

AthenaErrorCode

The error code returned when the query execution failed to process, or when the processing request for the named query failed.

HTTP Status Code: 400

TooManyRequestsException

Indicates that the request was throttled.

Reason

The reason for the query throttling, for example, when it exceeds the concurrent query limit.

HTTP Status Code: 400

See Also

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

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

GetCalculationExecution

Describes a previously submitted calculation execution.

Request Syntax

```
{  
  "CalculationExecutionId": "string"  
}
```

Request Parameters

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

The request accepts the following data in JSON format.

[CalculationExecutionId](#)

The calculation execution UUID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

Required: Yes

Response Syntax

```
{  
  "CalculationExecutionId": "string",  
  "Description": "string",  
  "Result": {  
    "ResultS3Uri": "string",  
    "ResultType": "string",  
    "StdErrorS3Uri": "string",  
    "StdOutS3Uri": "string"  
  },  
  "SessionId": "string",  
  "Statistics": {  
    "DpuExecutionInMillis": number,  
    "Progress": "string"  
  }  
}
```

```
},  
  "Status": {  
    "CompletionDateTime": number,  
    "State": "string",  
    "StateChangeReason": "string",  
    "SubmissionDateTime": number  
  },  
  "WorkingDirectory": "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.

CalculationExecutionId

The calculation execution UUID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

Description

The description of the calculation execution.

Type: String

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

Result

Contains result information. This field is populated only if the calculation is completed.

Type: [CalculationResult](#) object

SessionId

The session ID that the calculation ran in.

Type: String

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

Statistics

Contains information about the data processing unit (DPU) execution time and progress. This field is populated only when statistics are available.

Type: [CalculationStatistics](#) object

Status

Contains information about the status of the calculation.

Type: [CalculationStatus](#) object

WorkingDirectory

The Amazon S3 location in which calculation results are stored.

Type: String

Length Constraints: Maximum length of 1024.

Pattern: `^(https|s3|S3):\/\/([^\/]*)\/?(.*)$`

Errors

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

InternalServerError

Indicates a platform issue, which may be due to a transient condition or outage.

HTTP Status Code: 500

InvalidRequestException

Indicates that something is wrong with the input to the request. For example, a required parameter may be missing or out of range.

AthenaErrorCode

The error code returned when the query execution failed to process, or when the processing request for the named query failed.

HTTP Status Code: 400

ResourceNotFoundException

A resource, such as a workgroup, was not found.

ResourceName

The name of the Amazon resource.

HTTP Status Code: 400

See Also

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

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

GetCalculationExecutionCode

Retrieves the unencrypted code that was executed for the calculation.

Request Syntax

```
{  
  "CalculationExecutionId": "string"  
}
```

Request Parameters

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

The request accepts the following data in JSON format.

[CalculationExecutionId](#)

The calculation execution UUID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

Required: Yes

Response Syntax

```
{  
  "CodeBlock": "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.

[CodeBlock](#)

The unencrypted code that was executed for the calculation.

Type: String

Length Constraints: Maximum length of 68000.

Errors

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

InternalServerError

Indicates a platform issue, which may be due to a transient condition or outage.

HTTP Status Code: 500

InvalidRequestException

Indicates that something is wrong with the input to the request. For example, a required parameter may be missing or out of range.

AthenaErrorCode

The error code returned when the query execution failed to process, or when the processing request for the named query failed.

HTTP Status Code: 400

ResourceNotFoundException

A resource, such as a workgroup, was not found.

ResourceName

The name of the Amazon resource.

HTTP Status Code: 400

See Also

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

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

- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

GetCalculationExecutionStatus

Gets the status of a current calculation.

Request Syntax

```
{  
  "CalculationExecutionId": "string"  
}
```

Request Parameters

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

The request accepts the following data in JSON format.

[CalculationExecutionId](#)

The calculation execution UUID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

Required: Yes

Response Syntax

```
{  
  "Statistics": {  
    "DpuExecutionInMillis": number,  
    "Progress": "string"  
  },  
  "Status": {  
    "CompletionDateTime": number,  
    "State": "string",  
    "StateChangeReason": "string",  
    "SubmissionDateTime": 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.

Statistics

Contains information about the DPU execution time and progress.

Type: [CalculationStatistics](#) object

Status

Contains information about the calculation execution status.

Type: [CalculationStatus](#) object

Errors

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

InternalServerErrorException

Indicates a platform issue, which may be due to a transient condition or outage.

HTTP Status Code: 500

InvalidRequestException

Indicates that something is wrong with the input to the request. For example, a required parameter may be missing or out of range.

AthenaErrorCode

The error code returned when the query execution failed to process, or when the processing request for the named query failed.

HTTP Status Code: 400

ResourceNotFoundException

A resource, such as a workgroup, was not found.

ResourceName

The name of the Amazon resource.

HTTP Status Code: 400

See Also

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

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

GetCapacityAssignmentConfiguration

Gets the capacity assignment configuration for a capacity reservation, if one exists.

Request Syntax

```
{  
  "CapacityReservationName": "string"  
}
```

Request Parameters

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

The request accepts the following data in JSON format.

[CapacityReservationName](#)

The name of the capacity reservation to retrieve the capacity assignment configuration for.

Type: String

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

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

Required: Yes

Response Syntax

```
{  
  "CapacityAssignmentConfiguration": {  
    "CapacityAssignments": [  
      {  
        "WorkGroupNames": [ "string" ]  
      }  
    ],  
    "CapacityReservationName": "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.

CapacityAssignmentConfiguration

The requested capacity assignment configuration for the specified capacity reservation.

Type: [CapacityAssignmentConfiguration](#) object

Errors

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

InternalServerError

Indicates a platform issue, which may be due to a transient condition or outage.

HTTP Status Code: 500

InvalidRequestException

Indicates that something is wrong with the input to the request. For example, a required parameter may be missing or out of range.

AthenaErrorCode

The error code returned when the query execution failed to process, or when the processing request for the named query failed.

HTTP Status Code: 400

See Also

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

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

- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

GetCapacityReservation

Returns information about the capacity reservation with the specified name.

Request Syntax

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

Request Parameters

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

The request accepts the following data in JSON format.

Name

The name of the capacity reservation.

Type: String

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

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

Required: Yes

Response Syntax

```
{  
  "CapacityReservation": {  
    "AllocatedDpus": number,  
    "CreationTime": number,  
    "LastAllocation": {  
      "RequestCompletionTime": number,  
      "RequestTime": number,  
      "Status": "string",  
      "StatusMessage": "string"  
    },  
    "LastSuccessfulAllocationTime": number,  
    "Name": "string",
```

```
    "Status": "string",  
    "TargetDpus": 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.

[CapacityReservation](#)

The requested capacity reservation structure.

Type: [CapacityReservation](#) object

Errors

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

InternalServerError

Indicates a platform issue, which may be due to a transient condition or outage.

HTTP Status Code: 500

InvalidRequestException

Indicates that something is wrong with the input to the request. For example, a required parameter may be missing or out of range.

AthenaErrorCode

The error code returned when the query execution failed to process, or when the processing request for the named query failed.

HTTP Status Code: 400

See Also

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

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

GetDatabase

Returns a database object for the specified database and data catalog.

Request Syntax

```
{  
  "CatalogName": "string",  
  "DatabaseName": "string",  
  "WorkGroup": "string"  
}
```

Request Parameters

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

The request accepts the following data in JSON format.

CatalogName

The name of the data catalog that contains the database to return.

Type: String

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

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

Required: Yes

DatabaseName

The name of the database to return.

Type: String

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

Required: Yes

WorkGroup

The name of the workgroup for which the metadata is being fetched. Required if requesting an IAM Identity Center enabled AWS Glue Data Catalog.

Type: String

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

Required: No

Response Syntax

```
{
  "Database": {
    "Description": "string",
    "Name": "string",
    "Parameters": {
      "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.

Database

The database returned.

Type: [Database](#) object

Errors

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

InternalServerError

Indicates a platform issue, which may be due to a transient condition or outage.

HTTP Status Code: 500

InvalidRequestException

Indicates that something is wrong with the input to the request. For example, a required parameter may be missing or out of range.

AthenaErrorCode

The error code returned when the query execution failed to process, or when the processing request for the named query failed.

HTTP Status Code: 400

MetadataException

An exception that Athena received when it called a custom metastore. Occurs if the error is not caused by user input (`InvalidRequestException`) or from the Athena platform (`InternalServerException`). For example, if a user-created Lambda function is missing permissions, the Lambda 4XX exception is returned in a `MetadataException`.

HTTP Status Code: 400

See Also

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

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

GetDataCatalog

Returns the specified data catalog.

Request Syntax

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

Request Parameters

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

The request accepts the following data in JSON format.

Name

The name of the data catalog to return.

Type: String

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

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

Required: Yes

WorkGroup

The name of the workgroup. Required if making an IAM Identity Center request.

Type: String

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

Required: No

Response Syntax

```
{
```

```
"DataCatalog": {
  "ConnectionType": "string",
  "Description": "string",
  "Error": "string",
  "Name": "string",
  "Parameters": {
    "string" : "string"
  },
  "Status": "string",
  "Type": "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.

[DataCatalog](#)

The data catalog returned.

Type: [DataCatalog](#) object

Errors

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

InternalServerError

Indicates a platform issue, which may be due to a transient condition or outage.

HTTP Status Code: 500

InvalidRequestException

Indicates that something is wrong with the input to the request. For example, a required parameter may be missing or out of range.

AthenaErrorCode

The error code returned when the query execution failed to process, or when the processing request for the named query failed.

HTTP Status Code: 400

See Also

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

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

GetNamedQuery

Returns information about a single query. Requires that you have access to the workgroup in which the query was saved.

Request Syntax

```
{  
  "NamedQueryId": "string"  
}
```

Request Parameters

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

The request accepts the following data in JSON format.

[NamedQueryId](#)

The unique ID of the query. Use [ListNamedQueries](#) to get query IDs.

Type: String

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

Pattern: \S+

Required: Yes

Response Syntax

```
{  
  "NamedQuery": {  
    "Database": "string",  
    "Description": "string",  
    "Name": "string",  
    "NamedQueryId": "string",  
    "QueryString": "string",  
    "WorkGroup": "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.

[NamedQuery](#)

Information about the query.

Type: [NamedQuery](#) object

Errors

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

InternalServerErrorException

Indicates a platform issue, which may be due to a transient condition or outage.

HTTP Status Code: 500

InvalidRequestException

Indicates that something is wrong with the input to the request. For example, a required parameter may be missing or out of range.

AthenaErrorCode

The error code returned when the query execution failed to process, or when the processing request for the named query failed.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface V2](#)

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

GetNotebookMetadata

Retrieves notebook metadata for the specified notebook ID.

Request Syntax

```
{  
  "NotebookId": "string"  
}
```

Request Parameters

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

The request accepts the following data in JSON format.

[NotebookId](#)

The ID of the notebook whose metadata is to be retrieved.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

Pattern: [a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}

Required: Yes

Response Syntax

```
{  
  "NotebookMetadata": {  
    "CreationTime": number,  
    "LastModifiedTime": number,  
    "Name": "string",  
    "NotebookId": "string",  
    "Type": "string",  
    "WorkGroup": "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.

[NotebookMetadata](#)

The metadata that is returned for the specified notebook ID.

Type: [NotebookMetadata](#) object

Errors

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

InternalServerError

Indicates a platform issue, which may be due to a transient condition or outage.

HTTP Status Code: 500

InvalidRequestException

Indicates that something is wrong with the input to the request. For example, a required parameter may be missing or out of range.

AthenaErrorCode

The error code returned when the query execution failed to process, or when the processing request for the named query failed.

HTTP Status Code: 400

TooManyRequestsException

Indicates that the request was throttled.

Reason

The reason for the query throttling, for example, when it exceeds the concurrent query limit.

HTTP Status Code: 400

See Also

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

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

GetPreparedStatement

Retrieves the prepared statement with the specified name from the specified workgroup.

Request Syntax

```
{  
  "StatementName": "string",  
  "WorkGroup": "string"  
}
```

Request Parameters

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

The request accepts the following data in JSON format.

StatementName

The name of the prepared statement to retrieve.

Type: String

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

Pattern: [a-zA-Z_][a-zA-Z0-9_@:]{1,256}

Required: Yes

WorkGroup

The workgroup to which the statement to be retrieved belongs.

Type: String

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

Required: Yes

Response Syntax

```
{
```

```
"PreparedStatement": {  
  "Description": "string",  
  "LastModifiedTime": number,  
  "QueryStatement": "string",  
  "StatementName": "string",  
  "WorkGroupName": "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.

PreparedStatement

The name of the prepared statement that was retrieved.

Type: [PreparedStatement](#) object

Errors

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

InternalServerError

Indicates a platform issue, which may be due to a transient condition or outage.

HTTP Status Code: 500

InvalidRequestException

Indicates that something is wrong with the input to the request. For example, a required parameter may be missing or out of range.

AthenaErrorCode

The error code returned when the query execution failed to process, or when the processing request for the named query failed.

HTTP Status Code: 400

ResourceNotFoundException

A resource, such as a workgroup, was not found.

ResourceName

The name of the Amazon resource.

HTTP Status Code: 400

See Also

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

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

GetQueryExecution

Returns information about a single execution of a query if you have access to the workgroup in which the query ran. Each time a query executes, information about the query execution is saved with a unique ID.

Request Syntax

```
{  
  "QueryExecutionId": "string"  
}
```

Request Parameters

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

The request accepts the following data in JSON format.

QueryExecutionId

The unique ID of the query execution.

Type: String

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

Pattern: \S+

Required: Yes

Response Syntax

```
{  
  "QueryExecution": {  
    "EngineVersion": {  
      "EffectiveEngineVersion": "string",  
      "SelectedEngineVersion": "string"  
    },  
    "ExecutionParameters": [ "string" ],  
    "ManagedQueryResultsConfiguration": {  
      "Enabled": boolean,  
      "EncryptionConfiguration": {
```

```

        "KmsKey": "string"
    },
    "Query": "string",
    "QueryExecutionContext": {
        "Catalog": "string",
        "Database": "string"
    },
    "QueryExecutionId": "string",
    "QueryResultsS3AccessGrantsConfiguration": {
        "AuthenticationType": "string",
        "CreateUserLevelPrefix": boolean,
        "EnableS3AccessGrants": boolean
    },
    "ResultConfiguration": {
        "AclConfiguration": {
            "S3AclOption": "string"
        },
        "EncryptionConfiguration": {
            "EncryptionOption": "string",
            "KmsKey": "string"
        },
        "ExpectedBucketOwner": "string",
        "OutputLocation": "string"
    },
    "ResultReuseConfiguration": {
        "ResultReuseByAgeConfiguration": {
            "Enabled": boolean,
            "MaxAgeInMinutes": number
        }
    },
    "StatementType": "string",
    "Statistics": {
        "DataManifestLocation": "string",
        "DataScannedInBytes": number,
        "DpuCount": number,
        "EngineExecutionTimeInMillis": number,
        "QueryPlanningTimeInMillis": number,
        "QueryQueueTimeInMillis": number,
        "ResultReuseInformation": {
            "ReusedPreviousResult": boolean
        },
        "ServicePreProcessingTimeInMillis": number,
        "ServiceProcessingTimeInMillis": number,
    }

```

```
    "TotalExecutionTimeInMillis": number
  },
  "Status": {
    "AthenaError": {
      "ErrorCategory": number,
      "ErrorMessage": "string",
      "ErrorType": number,
      "Retryable": boolean
    },
    "CompletionDateTime": number,
    "State": "string",
    "StateChangeReason": "string",
    "SubmissionDateTime": number
  },
  "SubstatementType": "string",
  "WorkGroup": "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.

QueryExecution

Information about the query execution.

Type: [QueryExecution](#) object

Errors

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

InternalServerError

Indicates a platform issue, which may be due to a transient condition or outage.

HTTP Status Code: 500

InvalidRequestException

Indicates that something is wrong with the input to the request. For example, a required parameter may be missing or out of range.

AthenaErrorCode

The error code returned when the query execution failed to process, or when the processing request for the named query failed.

HTTP Status Code: 400

See Also

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

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

GetQueryResults

Streams the results of a single query execution specified by `QueryExecutionId` from the Athena query results location in Amazon S3. For more information, see [Working with query results, recent queries, and output files](#) in the *Amazon Athena User Guide*. This request does not execute the query but returns results. Use [StartQueryExecution](#) to run a query.

To stream query results successfully, the IAM principal with permission to call `GetQueryResults` also must have permissions to the Amazon S3 `GetObject` action for the Athena query results location.

Important

IAM principals with permission to the Amazon S3 `GetObject` action for the query results location are able to retrieve query results from Amazon S3 even if permission to the `GetQueryResults` action is denied. To restrict user or role access, ensure that Amazon S3 permissions to the Athena query location are denied.

Request Syntax

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

Request Parameters

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

The request accepts the following data in JSON format.

[MaxResults](#)

The maximum number of results (rows) to return in this request.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 1000.

Required: No

NextToken

A token generated by the Athena service that specifies where to continue pagination if a previous request was truncated. To obtain the next set of pages, pass in the NextToken from the response object of the previous page call.

Type: String

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

Required: No

QueryExecutionId

The unique ID of the query execution.

Type: String

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

Pattern: \S+

Required: Yes

QueryResultType

When you set this to DATA_ROWS or empty, GetQueryResults returns the query results in rows. If set to DATA_MANIFEST, it returns the manifest file in rows. Only the query types CREATE TABLE AS SELECT, UNLOAD, and INSERT can generate a manifest file. If you use DATA_MANIFEST for other query types, the query will fail.

Type: String

Valid Values: DATA_MANIFEST | DATA_ROWS

Required: No

Response Syntax

```
{  
  "NextToken": "string",
```

```
"ResultSet": {
  "ResultSetMetadata": {
    "ColumnInfo": [
      {
        "CaseSensitive": boolean,
        "CatalogName": "string",
        "Label": "string",
        "Name": "string",
        "Nullable": "string",
        "Precision": number,
        "Scale": number,
        "SchemaName": "string",
        "TableName": "string",
        "Type": "string"
      }
    ]
  },
  "Rows": [
    {
      "Data": [
        {
          "VarCharValue": "string"
        }
      ]
    }
  ]
},
"UpdateCount": 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.

NextToken

A token generated by the Athena service that specifies where to continue pagination if a previous request was truncated. To obtain the next set of pages, pass in the NextToken from the response object of the previous page call.

Type: String

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

ResultSet

The results of the query execution.

Type: [ResultSet](#) object

UpdateCount

The number of rows inserted with a CREATE TABLE AS SELECT, INSERT INTO, or UPDATE statement.

Type: Long

Errors

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

InternalServerErrorException

Indicates a platform issue, which may be due to a transient condition or outage.

HTTP Status Code: 500

InvalidRequestException

Indicates that something is wrong with the input to the request. For example, a required parameter may be missing or out of range.

AthenaErrorCode

The error code returned when the query execution failed to process, or when the processing request for the named query failed.

HTTP Status Code: 400

TooManyRequestsException

Indicates that the request was throttled.

Reason

The reason for the query throttling, for example, when it exceeds the concurrent query limit.

HTTP Status Code: 400

See Also

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

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

GetQueryRuntimeStatistics

Returns query execution runtime statistics related to a single execution of a query if you have access to the workgroup in which the query ran. Statistics from the `Timeline` section of the response object are available as soon as [QueryExecutionStatus:State](#) is in a `SUCCEEDED` or `FAILED` state. The remaining non-timeline statistics in the response (like stage-level input and output row count and data size) are updated asynchronously and may not be available immediately after a query completes or, in some cases, may not be returned. The non-timeline statistics are also not included when a query has row-level filters defined in Lake Formation.

Request Syntax

```
{  
  "QueryExecutionId": "string"  
}
```

Request Parameters

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

The request accepts the following data in JSON format.

[QueryExecutionId](#)

The unique ID of the query execution.

Type: String

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

Pattern: `\S+`

Required: Yes

Response Syntax

```
{  
  "QueryRuntimeStatistics": {  
    "OutputStage": {  
      "ExecutionTime": number,  
      "InputBytes": number,  
    }  
  }  
}
```

```

    "InputRows": number,
    "OutputBytes": number,
    "OutputRows": number,
    "QueryStagePlan": {
      "Children": [
        "QueryStagePlanNode"
      ],
      "Identifier": "string",
      "Name": "string",
      "RemoteSources": [ "string" ]
    },
    "StageId": number,
    "State": "string",
    "SubStages": [
      "QueryStage"
    ]
  },
  "Rows": {
    "InputBytes": number,
    "InputRows": number,
    "OutputBytes": number,
    "OutputRows": number
  },
  "Timeline": {
    "EngineExecutionTimeInMillis": number,
    "QueryPlanningTimeInMillis": number,
    "QueryQueueTimeInMillis": number,
    "ServicePreProcessingTimeInMillis": number,
    "ServiceProcessingTimeInMillis": number,
    "TotalExecutionTimeInMillis": 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.

QueryRuntimeStatistics

Runtime statistics about the query execution.

Type: [QueryRuntimeStatistics](#) object

Errors

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

InternalServerError

Indicates a platform issue, which may be due to a transient condition or outage.

HTTP Status Code: 500

InvalidRequestException

Indicates that something is wrong with the input to the request. For example, a required parameter may be missing or out of range.

AthenaErrorCode

The error code returned when the query execution failed to process, or when the processing request for the named query failed.

HTTP Status Code: 400

See Also

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

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

- [AWS SDK for Ruby V3](#)

GetResourceDashboard

Gets the Live UI/Persistence UI for a session.

Request Syntax

```
{  
  "ResourceARN": "string"  
}
```

Request Parameters

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

The request accepts the following data in JSON format.

ResourceARN

The The Amazon Resource Name (ARN) for a session.

Type: String

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

Required: Yes

Response Syntax

```
{  
  "Url": "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.

Url

The Live UI/Persistence UI url for a session.

Type: String

Errors

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

InternalServerError

Indicates a platform issue, which may be due to a transient condition or outage.

HTTP Status Code: 500

InvalidRequestException

Indicates that something is wrong with the input to the request. For example, a required parameter may be missing or out of range.

AthenaErrorCode

The error code returned when the query execution failed to process, or when the processing request for the named query failed.

HTTP Status Code: 400

ResourceNotFoundException

A resource, such as a workgroup, was not found.

ResourceName

The name of the Amazon resource.

HTTP Status Code: 400

See Also

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

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

- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

GetSession

Gets the full details of a previously created session, including the session status and configuration.

Request Syntax

```
{  
  "SessionId": "string"  
}
```

Request Parameters

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

The request accepts the following data in JSON format.

SessionId

The session ID.

Type: String

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

Required: Yes

Response Syntax

```
{  
  "Description": "string",  
  "EngineConfiguration": {  
    "AdditionalConfigs": {  
      "string" : "string"  
    },  
    "Classifications": [  
      {  
        "Name": "string",  
        "Properties": {  
          "string" : "string"  
        }  
      }  
    ],  
  },  
}
```

```

    "CoordinatorDpuSize": number,
    "DefaultExecutorDpuSize": number,
    "MaxConcurrentDpus": number,
    "SparkProperties": {
        "string" : "string"
    }
},
"EngineVersion": "string",
"MonitoringConfiguration": {
    "CloudWatchLoggingConfiguration": {
        "Enabled": boolean,
        "LogGroup": "string",
        "LogStreamNamePrefix": "string",
        "LogTypes": {
            "string" : [ "string" ]
        }
    },
    "ManagedLoggingConfiguration": {
        "Enabled": boolean,
        "KmsKey": "string"
    },
    "S3LoggingConfiguration": {
        "Enabled": boolean,
        "KmsKey": "string",
        "LogLocation": "string"
    }
},
"NotebookVersion": "string",
"SessionConfiguration": {
    "EncryptionConfiguration": {
        "EncryptionOption": "string",
        "KmsKey": "string"
    },
    "ExecutionRole": "string",
    "IdleTimeoutSeconds": number,
    "SessionIdleTimeoutInMinutes": number,
    "WorkingDirectory": "string"
},
"SessionId": "string",
"Statistics": {
    "DpuExecutionInMillis": number
},
"Status": {
    "EndDateTime": number,

```

```
    "IdleSinceDateTime": number,  
    "LastModifiedDateTime": number,  
    "StartDateTime": number,  
    "State": "string",  
    "StateChangeReason": "string"  
  },  
  "WorkGroup": "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.

Description

The session description.

Type: String

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

EngineConfiguration

Contains engine configuration information like DPU usage.

Type: [EngineConfiguration](#) object

EngineVersion

The engine version used by the session (for example, PySpark engine version 3). You can get a list of engine versions by calling [ListEngineVersions](#).

Type: String

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

MonitoringConfiguration

Contains the configuration settings for managed log persistence, delivering logs to Amazon S3 buckets, Amazon CloudWatch log groups etc.

Type: [MonitoringConfiguration](#) object

NotebookVersion

The notebook version.

Type: String

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

SessionConfiguration

Contains the workgroup configuration information used by the session.

Type: [SessionConfiguration](#) object

SessionId

The session ID.

Type: String

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

Statistics

Contains the DPU execution time.

Type: [SessionStatistics](#) object

Status

Contains information about the status of the session.

Type: [SessionStatus](#) object

WorkGroup

The workgroup to which the session belongs.

Type: String

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

Errors

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

InternalServerError

Indicates a platform issue, which may be due to a transient condition or outage.

HTTP Status Code: 500

InvalidRequestException

Indicates that something is wrong with the input to the request. For example, a required parameter may be missing or out of range.

AthenaErrorCode

The error code returned when the query execution failed to process, or when the processing request for the named query failed.

HTTP Status Code: 400

ResourceNotFoundException

A resource, such as a workgroup, was not found.

ResourceName

The name of the Amazon resource.

HTTP Status Code: 400

See Also

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

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

- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

GetSessionEndpoint

Gets a connection endpoint and authentication token for a given session Id.

Request Syntax

```
{  
  "SessionId": "string"  
}
```

Request Parameters

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

The request accepts the following data in JSON format.

SessionId

The session ID.

Type: String

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

Required: Yes

Response Syntax

```
{  
  "AuthToken": "string",  
  "AuthTokenExpirationTime": number,  
  "EndpointUrl": "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.

AuthToken

Authentication token for the connection

Type: String

AuthTokenExpirationTime

Expiration time of the auth token.

Type: Timestamp

EndpointUrl

The endpoint for connecting to the session.

Type: String

Errors

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

InternalServerErrorException

Indicates a platform issue, which may be due to a transient condition or outage.

HTTP Status Code: 500

InvalidRequestException

Indicates that something is wrong with the input to the request. For example, a required parameter may be missing or out of range.

AthenaErrorCode

The error code returned when the query execution failed to process, or when the processing request for the named query failed.

HTTP Status Code: 400

ResourceNotFoundException

A resource, such as a workgroup, was not found.

ResourceName

The name of the Amazon resource.

HTTP Status Code: 400

See Also

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

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

GetSessionStatus

Gets the current status of a session.

Request Syntax

```
{  
  "SessionId": "string"  
}
```

Request Parameters

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

The request accepts the following data in JSON format.

SessionId

The session ID.

Type: String

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

Required: Yes

Response Syntax

```
{  
  "SessionId": "string",  
  "Status": {  
    "EndDateTime": number,  
    "IdleSinceDateTime": number,  
    "LastModifiedDateTime": number,  
    "StartDateTime": number,  
    "State": "string",  
    "StateChangeReason": "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.

SessionId

The session ID.

Type: String

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

Status

Contains information about the status of the session.

Type: [SessionStatus](#) object

Errors

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

InternalServerErrorException

Indicates a platform issue, which may be due to a transient condition or outage.

HTTP Status Code: 500

InvalidRequestException

Indicates that something is wrong with the input to the request. For example, a required parameter may be missing or out of range.

AthenaErrorCode

The error code returned when the query execution failed to process, or when the processing request for the named query failed.

HTTP Status Code: 400

ResourceNotFoundException

A resource, such as a workgroup, was not found.

ResourceName

The name of the Amazon resource.

HTTP Status Code: 400

See Also

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

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

GetTableMetadata

Returns table metadata for the specified catalog, database, and table.

Request Syntax

```
{  
  "CatalogName": "string",  
  "DatabaseName": "string",  
  "TableName": "string",  
  "WorkGroup": "string"  
}
```

Request Parameters

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

The request accepts the following data in JSON format.

CatalogName

The name of the data catalog that contains the database and table metadata to return.

Type: String

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

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

Required: Yes

DatabaseName

The name of the database that contains the table metadata to return.

Type: String

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

Required: Yes

TableName

The name of the table for which metadata is returned.

Type: String

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

Required: Yes

WorkGroup

The name of the workgroup for which the metadata is being fetched. Required if requesting an IAM Identity Center enabled AWS Glue Data Catalog.

Type: String

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

Required: No

Response Syntax

```
{
  "TableMetadata": {
    "Columns": [
      {
        "Comment": "string",
        "Name": "string",
        "Type": "string"
      }
    ],
    "CreateTime": number,
    "LastAccessTime": number,
    "Name": "string",
    "Parameters": {
      "string": "string"
    },
    "PartitionKeys": [
      {
        "Comment": "string",
        "Name": "string",
        "Type": "string"
      }
    ],
    "TableType": "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.

[TableMetadata](#)

An object that contains table metadata.

Type: [TableMetadata](#) object

Errors

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

InternalServerError

Indicates a platform issue, which may be due to a transient condition or outage.

HTTP Status Code: 500

InvalidRequestException

Indicates that something is wrong with the input to the request. For example, a required parameter may be missing or out of range.

AthenaErrorCode

The error code returned when the query execution failed to process, or when the processing request for the named query failed.

HTTP Status Code: 400

MetadataException

An exception that Athena received when it called a custom metastore. Occurs if the error is not caused by user input (`InvalidRequestException`) or from the Athena platform (`InternalServerError`). For example, if a user-created Lambda function is missing permissions, the Lambda 4XX exception is returned in a `MetadataException`.

HTTP Status Code: 400

See Also

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

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

GetWorkGroup

Returns information about the workgroup with the specified name.

Request Syntax

```
{  
  "WorkGroup": "string"  
}
```

Request Parameters

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

The request accepts the following data in JSON format.

WorkGroup

The name of the workgroup.

Type: String

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

Required: Yes

Response Syntax

```
{  
  "WorkGroup": {  
    "Configuration": {  
      "AdditionalConfiguration": "string",  
      "BytesScannedCutoffPerQuery": number,  
      "CustomerContentEncryptionConfiguration": {  
        "KmsKey": "string"  
      },  
      "EnableMinimumEncryptionConfiguration": boolean,  
      "EnforceWorkGroupConfiguration": boolean,  
      "EngineConfiguration": {  
        "AdditionalConfigs": {  
          "string": "string"  
        },  
      },  
    },  
  },  
}
```

```

    "Classifications": [
      {
        "Name": "string",
        "Properties": {
          "string" : "string"
        }
      }
    ],
    "CoordinatorDpuSize": number,
    "DefaultExecutorDpuSize": number,
    "MaxConcurrentDpus": number,
    "SparkProperties": {
      "string" : "string"
    }
  },
  "EngineVersion": {
    "EffectiveEngineVersion": "string",
    "SelectedEngineVersion": "string"
  },
  "ExecutionRole": "string",
  "IdentityCenterConfiguration": {
    "EnableIdentityCenter": boolean,
    "IdentityCenterInstanceArn": "string"
  },
  "ManagedQueryResultsConfiguration": {
    "Enabled": boolean,
    "EncryptionConfiguration": {
      "KmsKey": "string"
    }
  },
  "MonitoringConfiguration": {
    "CloudWatchLoggingConfiguration": {
      "Enabled": boolean,
      "LogGroup": "string",
      "LogStreamNamePrefix": "string",
      "LogTypes": {
        "string" : [ "string" ]
      }
    }
  },
  "ManagedLoggingConfiguration": {
    "Enabled": boolean,
    "KmsKey": "string"
  },
  "S3LoggingConfiguration": {

```

```

        "Enabled": boolean,
        "KmsKey": "string",
        "LogLocation": "string"
    },
    },
    "PublishCloudWatchMetricsEnabled": boolean,
    "QueryResultsS3AccessGrantsConfiguration": {
        "AuthenticationType": "string",
        "CreateUserLevelPrefix": boolean,
        "EnableS3AccessGrants": boolean
    },
    "RequesterPaysEnabled": boolean,
    "ResultConfiguration": {
        "AclConfiguration": {
            "S3AclOption": "string"
        },
        "EncryptionConfiguration": {
            "EncryptionOption": "string",
            "KmsKey": "string"
        },
        "ExpectedBucketOwner": "string",
        "OutputLocation": "string"
    }
},
"CreationTime": number,
"Description": "string",
"IdentityCenterApplicationArn": "string",
"Name": "string",
"State": "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.

WorkGroup

Information about the workgroup.

Type: WorkGroup object

Errors

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

InternalServerError

Indicates a platform issue, which may be due to a transient condition or outage.

HTTP Status Code: 500

InvalidRequestException

Indicates that something is wrong with the input to the request. For example, a required parameter may be missing or out of range.

AthenaErrorCode

The error code returned when the query execution failed to process, or when the processing request for the named query failed.

HTTP Status Code: 400

See Also

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

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

ImportNotebook

Imports a single ipynb file to a Spark enabled workgroup. To import the notebook, the request must specify a value for either `Payload` or `NoteBookS3LocationUri`. If neither is specified or both are specified, an `InvalidRequestException` occurs. The maximum file size that can be imported is 10 megabytes. If an ipynb file with the same name already exists in the workgroup, throws an error.

Request Syntax

```
{
  "ClientRequestToken": "string",
  "Name": "string",
  "NotebookS3LocationUri": "string",
  "Payload": "string",
  "Type": "string",
  "WorkGroup": "string"
}
```

Request Parameters

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

The request accepts the following data in JSON format.

ClientRequestToken

A unique case-sensitive string used to ensure the request to import the notebook is idempotent (executes only once).

Important

This token is listed as not required because AWS SDKs (for example the AWS SDK for Java) auto-generate the token for you. If you are not using the AWS SDK or the AWS CLI, you must provide this token or the action will fail.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

Pattern: `[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}`

Required: No

Name

The name of the notebook to import.

Type: String

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

Pattern: `(?!.*[/:\])[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]+`

Required: Yes

NotebookS3LocationUri

A URI that specifies the Amazon S3 location of a notebook file in `ipynb` format.

Type: String

Length Constraints: Maximum length of 1024.

Pattern: `^(https|s3|S3):\/\/([^\/]+)/?(.*)$`

Required: No

Payload

The notebook content to be imported. The payload must be in `ipynb` format.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10485760.

Required: No

Type

The notebook content type. Currently, the only valid type is `IPYNB`.

Type: String

Valid Values: `IPYNB`

Required: Yes

WorkGroup

The name of the Spark enabled workgroup to import the notebook to.

Type: String

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

Required: Yes

Response Syntax

```
{
  "NotebookId": "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.

NotebookId

The ID assigned to the imported notebook.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

Pattern: `[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}`

Errors

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

InternalServerException

Indicates a platform issue, which may be due to a transient condition or outage.

HTTP Status Code: 500

InvalidRequestException

Indicates that something is wrong with the input to the request. For example, a required parameter may be missing or out of range.

AthenaErrorCode

The error code returned when the query execution failed to process, or when the processing request for the named query failed.

HTTP Status Code: 400

TooManyRequestsException

Indicates that the request was throttled.

Reason

The reason for the query throttling, for example, when it exceeds the concurrent query limit.

HTTP Status Code: 400

See Also

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

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

ListApplicationDPUSizes

Returns the supported DPU sizes for the supported application runtimes (for example, Athena notebook version 1).

Request Syntax

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

Request Parameters

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

The request accepts the following data in JSON format.

MaxResults

Specifies the maximum number of results to return.

Type: Integer

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

Required: No

NextToken

A token generated by the Athena service that specifies where to continue pagination if a previous request was truncated.

Type: String

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

Required: No

Response Syntax

```
{  
  "ApplicationDPUSizes": [  
    ...  
  ]  
}
```

```
{
  "ApplicationRuntimeId": "string",
  "SupportedDPUSizes": [ number ]
},
"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.

[ApplicationDPUSizes](#)

A list of the supported DPU sizes that the application runtime supports.

Type: Array of [ApplicationDPUSizes](#) objects

[NextToken](#)

A token generated by the Athena service that specifies where to continue pagination if a previous request was truncated. To obtain the next set of pages, pass in the NextToken from the response object of the previous page call.

Type: String

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

Errors

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

InternalServerErrorException

Indicates a platform issue, which may be due to a transient condition or outage.

HTTP Status Code: 500

InvalidRequestException

Indicates that something is wrong with the input to the request. For example, a required parameter may be missing or out of range.

AthenaErrorCode

The error code returned when the query execution failed to process, or when the processing request for the named query failed.

HTTP Status Code: 400

TooManyRequestsException

Indicates that the request was throttled.

Reason

The reason for the query throttling, for example, when it exceeds the concurrent query limit.

HTTP Status Code: 400

See Also

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

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

ListCalculationExecutions

Lists the calculations that have been submitted to a session in descending order. Newer calculations are listed first; older calculations are listed later.

Request Syntax

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

Request Parameters

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

The request accepts the following data in JSON format.

MaxResults

The maximum number of calculation executions to return.

Type: Integer

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

Required: No

NextToken

A token generated by the Athena service that specifies where to continue pagination if a previous request was truncated. To obtain the next set of pages, pass in the NextToken from the response object of the previous page call.

Type: String

Length Constraints: Maximum length of 2048.

Required: No

SessionId

The session ID.

Type: String

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

Required: Yes

StateFilter

A filter for a specific calculation execution state. A description of each state follows.

CREATING - The calculation is in the process of being created.

CREATED - The calculation has been created and is ready to run.

QUEUED - The calculation has been queued for processing.

RUNNING - The calculation is running.

CANCELING - A request to cancel the calculation has been received and the system is working to stop it.

CANCELED - The calculation is no longer running as the result of a cancel request.

COMPLETED - The calculation has completed without error.

FAILED - The calculation failed and is no longer running.

Type: String

Valid Values: CREATING | CREATED | QUEUED | RUNNING | CANCELING | CANCELED | COMPLETED | FAILED

Required: No

Response Syntax

```
{
  "Calculations": [
    {
      "CalculationExecutionId": "string",
```

```
    "Description": "string",
    "Status": {
      "CompletionDateTime": number,
      "State": "string",
      "StateChangeReason": "string",
      "SubmissionDateTime": number
    }
  ],
  "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.

Calculations

A list of [CalculationSummary](#) objects.

Type: Array of [CalculationSummary](#) objects

Array Members: Minimum number of 0 items. Maximum number of 100 items.

NextToken

A token generated by the Athena service that specifies where to continue pagination if a previous request was truncated. To obtain the next set of pages, pass in the NextToken from the response object of the previous page call.

Type: String

Length Constraints: Maximum length of 2048.

Errors

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

InternalServerError

Indicates a platform issue, which may be due to a transient condition or outage.

HTTP Status Code: 500

InvalidRequestException

Indicates that something is wrong with the input to the request. For example, a required parameter may be missing or out of range.

AthenaErrorCode

The error code returned when the query execution failed to process, or when the processing request for the named query failed.

HTTP Status Code: 400

ResourceNotFoundException

A resource, such as a workgroup, was not found.

ResourceName

The name of the Amazon resource.

HTTP Status Code: 400

See Also

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

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


```
{
  "AllocatedDpus": number,
  "CreationTime": number,
  "LastAllocation": {
    "RequestCompletionTime": number,
    "RequestTime": number,
    "Status": "string",
    "StatusMessage": "string"
  },
  "LastSuccessfulAllocationTime": number,
  "Name": "string",
  "Status": "string",
  "TargetDpus": number
},
"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.

[CapacityReservations](#)

The capacity reservations for the current account.

Type: Array of [CapacityReservation](#) objects

[NextToken](#)

A token generated by the Athena service that specifies where to continue pagination if a previous request was truncated. To obtain the next set of pages, pass in the NextToken from the response object of the previous page call.

Type: String

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

Errors

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

InternalServerError

Indicates a platform issue, which may be due to a transient condition or outage.

HTTP Status Code: 500

InvalidRequestException

Indicates that something is wrong with the input to the request. For example, a required parameter may be missing or out of range.

AthenaErrorCode

The error code returned when the query execution failed to process, or when the processing request for the named query failed.

HTTP Status Code: 400

See Also

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

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

ListDatabases

Lists the databases in the specified data catalog.

Request Syntax

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

Request Parameters

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

The request accepts the following data in JSON format.

CatalogName

The name of the data catalog that contains the databases to return.

Type: String

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

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

Required: Yes

MaxResults

Specifies the maximum number of results to return.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 50.

Required: No

NextToken

A token generated by the Athena service that specifies where to continue pagination if a previous request was truncated. To obtain the next set of pages, pass in the NextToken from the response object of the previous page call.

Type: String

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

Required: No

WorkGroup

The name of the workgroup for which the metadata is being fetched. Required if requesting an IAM Identity Center enabled AWS Glue Data Catalog.

Type: String

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

Required: No

Response Syntax

```
{
  "DatabaseList": [
    {
      "Description": "string",
      "Name": "string",
      "Parameters": {
        "string" : "string"
      }
    }
  ],
  "NextToken": "string"
}
```

Response Elements

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

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

DatabaseList

A list of databases from a data catalog.

Type: Array of [Database](#) objects

NextToken

A token generated by the Athena service that specifies where to continue pagination if a previous request was truncated. To obtain the next set of pages, pass in the NextToken from the response object of the previous page call.

Type: String

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

Errors

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

InternalServerErrorException

Indicates a platform issue, which may be due to a transient condition or outage.

HTTP Status Code: 500

InvalidRequestException

Indicates that something is wrong with the input to the request. For example, a required parameter may be missing or out of range.

AthenaErrorCode

The error code returned when the query execution failed to process, or when the processing request for the named query failed.

HTTP Status Code: 400

MetadataException

An exception that Athena received when it called a custom metastore. Occurs if the error is not caused by user input (`InvalidRequestException`) or from the Athena platform

(`InternalServerErrorException`). For example, if a user-created Lambda function is missing permissions, the Lambda 4XX exception is returned in a `MetadataException`.

HTTP Status Code: 400

See Also

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

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

ListDataCatalogs

Lists the data catalogs in the current AWS account.

Note

In the Athena console, data catalogs are listed as "data sources" on the **Data sources** page under the **Data source name** column.

Request Syntax

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

Request Parameters

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

The request accepts the following data in JSON format.

MaxResults

Specifies the maximum number of data catalogs to return.

Type: Integer

Valid Range: Minimum value of 2. Maximum value of 50.

Required: No

NextToken

A token generated by the Athena service that specifies where to continue pagination if a previous request was truncated. To obtain the next set of pages, pass in the NextToken from the response object of the previous page call.

Type: String

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

Required: No

WorkGroup

The name of the workgroup. Required if making an IAM Identity Center request.

Type: String

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

Required: No

Response Syntax

```
{
  "DataCatalogsSummary": [
    {
      "CatalogName": "string",
      "ConnectionType": "string",
      "Error": "string",
      "Status": "string",
      "Type": "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.

DataCatalogsSummary

A summary list of data catalogs.

Type: Array of [DataCatalogSummary](#) objects

NextToken

A token generated by the Athena service that specifies where to continue pagination if a previous request was truncated. To obtain the next set of pages, pass in the NextToken from the response object of the previous page call.

Type: String

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

Errors

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

InternalServerError

Indicates a platform issue, which may be due to a transient condition or outage.

HTTP Status Code: 500

InvalidRequestException

Indicates that something is wrong with the input to the request. For example, a required parameter may be missing or out of range.

AthenaErrorCode

The error code returned when the query execution failed to process, or when the processing request for the named query failed.

HTTP Status Code: 400

See Also

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

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

- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

ListEngineVersions

Returns a list of engine versions that are available to choose from, including the Auto option.

Request Syntax

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

Request Parameters

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

The request accepts the following data in JSON format.

[MaxResults](#)

The maximum number of engine versions to return in this request.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 10.

Required: No

[NextToken](#)

A token generated by the Athena service that specifies where to continue pagination if a previous request was truncated. To obtain the next set of pages, pass in the NextToken from the response object of the previous page call.

Type: String

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

Required: No

Response Syntax

```
{
```

```
"EngineVersions": [  
  {  
    "EffectiveEngineVersion": "string",  
    "SelectedEngineVersion": "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.

EngineVersions

A list of engine versions that are available to choose from.

Type: Array of [EngineVersion](#) objects

Array Members: Minimum number of 0 items. Maximum number of 10 items.

NextToken

A token generated by the Athena service that specifies where to continue pagination if a previous request was truncated. To obtain the next set of pages, pass in the NextToken from the response object of the previous page call.

Type: String

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

Errors

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

InternalServerError

Indicates a platform issue, which may be due to a transient condition or outage.

HTTP Status Code: 500

InvalidRequestException

Indicates that something is wrong with the input to the request. For example, a required parameter may be missing or out of range.

AthenaErrorCode

The error code returned when the query execution failed to process, or when the processing request for the named query failed.

HTTP Status Code: 400

See Also

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

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

ListExecutors

Lists, in descending order, the executors that joined a session. Newer executors are listed first; older executors are listed later. The result can be optionally filtered by state.

Request Syntax

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

Request Parameters

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

The request accepts the following data in JSON format.

[ExecutorStateFilter](#)

A filter for a specific executor state. A description of each state follows.

CREATING - The executor is being started, including acquiring resources.

CREATED - The executor has been started.

REGISTERED - The executor has been registered.

TERMINATING - The executor is in the process of shutting down.

TERMINATED - The executor is no longer running.

FAILED - Due to a failure, the executor is no longer running.

Type: String

Valid Values: CREATING | CREATED | REGISTERED | TERMINATING | TERMINATED | FAILED

Required: No

MaxResults

The maximum number of executors to return.

Type: Integer

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

Required: No

NextToken

A token generated by the Athena service that specifies where to continue pagination if a previous request was truncated. To obtain the next set of pages, pass in the NextToken from the response object of the previous page call.

Type: String

Length Constraints: Maximum length of 2048.

Required: No

SessionId

The session ID.

Type: String

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

Required: Yes

Response Syntax

```
{
  "ExecutorsSummary": [
    {
      "ExecutorId": "string",
      "ExecutorSize": number,
      "ExecutorState": "string",
      "ExecutorType": "string",
      "StartDateTime": number,
      "TerminationDateTime": number
    }
  ]
}
```

```
    }  
  ],  
  "NextToken": "string",  
  "SessionId": "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.

ExecutorsSummary

Contains summary information about the executor.

Type: Array of [ExecutorsSummary](#) objects

NextToken

A token generated by the Athena service that specifies where to continue pagination if a previous request was truncated. To obtain the next set of pages, pass in the NextToken from the response object of the previous page call.

Type: String

Length Constraints: Maximum length of 2048.

SessionId

The session ID.

Type: String

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

Errors

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

InternalServerError

Indicates a platform issue, which may be due to a transient condition or outage.

HTTP Status Code: 500

InvalidRequestException

Indicates that something is wrong with the input to the request. For example, a required parameter may be missing or out of range.

AthenaErrorCode

The error code returned when the query execution failed to process, or when the processing request for the named query failed.

HTTP Status Code: 400

ResourceNotFoundException

A resource, such as a workgroup, was not found.

ResourceName

The name of the Amazon resource.

HTTP Status Code: 400

See Also

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

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

ListNamedQueries

Provides a list of available query IDs only for queries saved in the specified workgroup. Requires that you have access to the specified workgroup. If a workgroup is not specified, lists the saved queries for the primary workgroup.

Request Syntax

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

Request Parameters

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

The request accepts the following data in JSON format.

MaxResults

The maximum number of queries to return in this request.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 50.

Required: No

NextToken

A token generated by the Athena service that specifies where to continue pagination if a previous request was truncated. To obtain the next set of pages, pass in the NextToken from the response object of the previous page call.

Type: String

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

Required: No

WorkGroup

The name of the workgroup from which the named queries are being returned. If a workgroup is not specified, the saved queries for the primary workgroup are returned.

Type: String

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

Required: No

Response Syntax

```
{
  "NamedQueryIds": [ "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.

NamedQueryIds

The list of unique query IDs.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 50 items.

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

Pattern: \S+

NextToken

A token generated by the Athena service that specifies where to continue pagination if a previous request was truncated. To obtain the next set of pages, pass in the NextToken from the response object of the previous page call.

Type: String

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

Errors

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

InternalServerError

Indicates a platform issue, which may be due to a transient condition or outage.

HTTP Status Code: 500

InvalidRequestException

Indicates that something is wrong with the input to the request. For example, a required parameter may be missing or out of range.

AthenaErrorCode

The error code returned when the query execution failed to process, or when the processing request for the named query failed.

HTTP Status Code: 400

See Also

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

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

- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

ListNotebookMetadata

Displays the notebook files for the specified workgroup in paginated format.

Request Syntax

```
{  
  "Filters": {  
    "Name": "string"  
  },  
  "MaxResults": number,  
  "NextToken": "string",  
  "WorkGroup": "string"  
}
```

Request Parameters

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

The request accepts the following data in JSON format.

Filters

Search filter string.

Type: [FilterDefinition](#) object

Required: No

MaxResults

Specifies the maximum number of results to return.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 50.

Required: No

NextToken

A token generated by the Athena service that specifies where to continue pagination if a previous request was truncated.

Type: String

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

Required: No

[WorkGroup](#)

The name of the Spark enabled workgroup to retrieve notebook metadata for.

Type: String

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

Required: Yes

Response Syntax

```
{
  "NextToken": "string",
  "NotebookMetadataList": [
    {
      "CreationTime": number,
      "LastModifiedTime": number,
      "Name": "string",
      "NotebookId": "string",
      "Type": "string",
      "WorkGroup": "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](#)

A token generated by the Athena service that specifies where to continue pagination if a previous request was truncated. To obtain the next set of pages, pass in the NextToken from the response object of the previous page call.

Type: String

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

NotebookMetadataList

The list of notebook metadata for the specified workgroup.

Type: Array of [NotebookMetadata](#) objects

Errors

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

InternalServerException

Indicates a platform issue, which may be due to a transient condition or outage.

HTTP Status Code: 500

InvalidRequestException

Indicates that something is wrong with the input to the request. For example, a required parameter may be missing or out of range.

AthenaErrorCode

The error code returned when the query execution failed to process, or when the processing request for the named query failed.

HTTP Status Code: 400

TooManyRequestsException

Indicates that the request was throttled.

Reason

The reason for the query throttling, for example, when it exceeds the concurrent query limit.

HTTP Status Code: 400

See Also

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

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

ListNotebookSessions

Lists, in descending order, the sessions that have been created in a notebook that are in an active state like CREATING, CREATED, IDLE or BUSY. Newer sessions are listed first; older sessions are listed later.

Request Syntax

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

Request Parameters

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

The request accepts the following data in JSON format.

[MaxResults](#)

The maximum number of notebook sessions to return.

Type: Integer

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

Required: No

[NextToken](#)

A token generated by the Athena service that specifies where to continue pagination if a previous request was truncated. To obtain the next set of pages, pass in the NextToken from the response object of the previous page call.

Type: String

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

Required: No

NotebookId

The ID of the notebook to list sessions for.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

Pattern: `[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}`

Required: Yes

Response Syntax

```
{
  "NextToken": "string",
  "NotebookSessionsList": [
    {
      "CreationTime": number,
      "SessionId": "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

A token generated by the Athena service that specifies where to continue pagination if a previous request was truncated. To obtain the next set of pages, pass in the `NextToken` from the response object of the previous page call.

Type: String

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

NotebookSessionsList

A list of the sessions belonging to the notebook.

Type: Array of [NotebookSessionSummary](#) objects

Array Members: Minimum number of 0 items. Maximum number of 10 items.

Errors

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

InternalServerError

Indicates a platform issue, which may be due to a transient condition or outage.

HTTP Status Code: 500

InvalidRequestException

Indicates that something is wrong with the input to the request. For example, a required parameter may be missing or out of range.

AthenaErrorCode

The error code returned when the query execution failed to process, or when the processing request for the named query failed.

HTTP Status Code: 400

ResourceNotFoundException

A resource, such as a workgroup, was not found.

ResourceName

The name of the Amazon resource.

HTTP Status Code: 400

See Also

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

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

- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

ListPreparedStatements

Lists the prepared statements in the specified workgroup.

Request Syntax

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

Request Parameters

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

The request accepts the following data in JSON format.

MaxResults

The maximum number of results to return in this request.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 50.

Required: No

NextToken

A token generated by the Athena service that specifies where to continue pagination if a previous request was truncated. To obtain the next set of pages, pass in the NextToken from the response object of the previous page call.

Type: String

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

Required: No

WorkGroup

The workgroup to list the prepared statements for.

Type: String

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

Required: Yes

Response Syntax

```
{
  "NextToken": "string",
  "PreparedStatements": [
    {
      "LastModifiedTime": number,
      "StatementName": "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

A token generated by the Athena service that specifies where to continue pagination if a previous request was truncated. To obtain the next set of pages, pass in the NextToken from the response object of the previous page call.

Type: String

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

PreparedStatements

The list of prepared statements for the workgroup.

Type: Array of [PreparedStatementSummary](#) objects

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

Errors

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

InternalServerError

Indicates a platform issue, which may be due to a transient condition or outage.

HTTP Status Code: 500

InvalidRequestException

Indicates that something is wrong with the input to the request. For example, a required parameter may be missing or out of range.

AthenaErrorCode

The error code returned when the query execution failed to process, or when the processing request for the named query failed.

HTTP Status Code: 400

See Also

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

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

ListQueryExecutions

Provides a list of available query execution IDs for the queries in the specified workgroup. Athena keeps a query history for 45 days. If a workgroup is not specified, returns a list of query execution IDs for the primary workgroup. Requires you to have access to the workgroup in which the queries ran.

Request Syntax

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

Request Parameters

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

The request accepts the following data in JSON format.

MaxResults

The maximum number of query executions to return in this request.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 50.

Required: No

NextToken

A token generated by the Athena service that specifies where to continue pagination if a previous request was truncated. To obtain the next set of pages, pass in the NextToken from the response object of the previous page call.

Type: String

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

Required: No

WorkGroup

The name of the workgroup from which queries are being returned. If a workgroup is not specified, a list of available query execution IDs for the queries in the primary workgroup is returned.

Type: String

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

Required: No

Response Syntax

```
{
  "NextToken": "string",
  "QueryExecutionIds": [ "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

A token to be used by the next request if this request is truncated.

Type: String

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

QueryExecutionIds

The unique IDs of each query execution as an array of strings.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 50 items.

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

Pattern: \S+

Errors

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

InternalServerError

Indicates a platform issue, which may be due to a transient condition or outage.

HTTP Status Code: 500

InvalidRequestException

Indicates that something is wrong with the input to the request. For example, a required parameter may be missing or out of range.

AthenaErrorCode

The error code returned when the query execution failed to process, or when the processing request for the named query failed.

HTTP Status Code: 400

See Also

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

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

- [AWS SDK for Ruby V3](#)

ListSessions

Lists the sessions in a workgroup that are in an active state like CREATING, CREATED, IDLE, or BUSY. Newer sessions are listed first; older sessions are listed later.

Request Syntax

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

Request Parameters

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

The request accepts the following data in JSON format.

[MaxResults](#)

The maximum number of sessions to return.

Type: Integer

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

Required: No

[NextToken](#)

A token generated by the Athena service that specifies where to continue pagination if a previous request was truncated. To obtain the next set of pages, pass in the NextToken from the response object of the previous page call.

Type: String

Length Constraints: Maximum length of 2048.

Required: No

StateFilter

A filter for a specific session state. A description of each state follows.

CREATING - The session is being started, including acquiring resources.

CREATED - The session has been started.

IDLE - The session is able to accept a calculation.

BUSY - The session is processing another task and is unable to accept a calculation.

TERMINATING - The session is in the process of shutting down.

TERMINATED - The session and its resources are no longer running.

DEGRADED - The session has no healthy coordinators.

FAILED - Due to a failure, the session and its resources are no longer running.

Type: String

Valid Values: CREATING | CREATED | IDLE | BUSY | TERMINATING | TERMINATED |
DEGRADED | FAILED

Required: No

WorkGroup

The workgroup to which the session belongs.

Type: String

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

Required: Yes

Response Syntax

```
{
  "NextToken": "string",
  "Sessions": [
```

```
{
  "Description": "string",
  "EngineVersion": {
    "EffectiveEngineVersion": "string",
    "SelectedEngineVersion": "string"
  },
  "NotebookVersion": "string",
  "SessionId": "string",
  "Status": {
    "EndTime": number,
    "IdleSinceDateTime": number,
    "LastModifiedDateTime": number,
    "StartTime": number,
    "State": "string",
    "StateChangeReason": "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](#)

A token generated by the Athena service that specifies where to continue pagination if a previous request was truncated. To obtain the next set of pages, pass in the NextToken from the response object of the previous page call.

Type: String

Length Constraints: Maximum length of 2048.

[Sessions](#)

A list of sessions.

Type: Array of [SessionSummary](#) objects

Array Members: Minimum number of 0 items. Maximum number of 100 items.

Errors

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

InternalServerError

Indicates a platform issue, which may be due to a transient condition or outage.

HTTP Status Code: 500

InvalidRequestException

Indicates that something is wrong with the input to the request. For example, a required parameter may be missing or out of range.

AthenaErrorCode

The error code returned when the query execution failed to process, or when the processing request for the named query failed.

HTTP Status Code: 400

ResourceNotFoundException

A resource, such as a workgroup, was not found.

ResourceName

The name of the Amazon resource.

HTTP Status Code: 400

See Also

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

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

- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

ListTableMetadata

Lists the metadata for the tables in the specified data catalog database.

Request Syntax

```
{  
  "CatalogName": "string",  
  "DatabaseName": "string",  
  "Expression": "string",  
  "MaxResults": number,  
  "NextToken": "string",  
  "WorkGroup": "string"  
}
```

Request Parameters

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

The request accepts the following data in JSON format.

CatalogName

The name of the data catalog for which table metadata should be returned.

Type: String

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

Pattern: `[\u0020-\u007F\u0080-\u00FF\u0100-\u017F\u0180-\u01FF\u0200-\u02FF\u0300-\u037F\u0380-\u03FF\u0400-\u047F\u0480-\u04FF\u0500-\u057F\u0580-\u05FF\u0600-\u06FF\u0700-\u07FF\u0800-\u08FF\u0900-\u097F\u0980-\u09FF\u0A00-\u0A7F\u0A80-\u0AFF\u0B00-\u0B7F\u0B80-\u0BFF\u0C00-\u0C7F\u0C80-\u0CFF\u0D00-\u0D7F\u0D80-\u0DBF\u0DC0-\u0DBF\u0E00-\u0E7F\u0E80-\u0EFF\u0F00-\u0FFF\u1000-\u107F\u1080-\u10FF\u1100-\u117F\u1180-\u11FF\u1200-\u127F\u1280-\u12FF\u1300-\u137F\u1380-\u13FF\u1400-\u147F\u1480-\u14FF\u1500-\u157F\u1580-\u15FF\u1600-\u167F\u1680-\u16FF\u1700-\u177F\u1780-\u17FF\u1800-\u187F\u1880-\u18FF\u1900-\u197F\u1980-\u19FF\u1A00-\u1A7F\u1A80-\u1AFF\u1B00-\u1B7F\u1B80-\u1BFF\u1C00-\u1C7F\u1C80-\u1CFF\u1D00-\u1D7F\u1D80-\u1DBF\u1E00-\u1E7F\u1E80-\u1EFF\u1F00-\u1FFF\u2000-\u207F\u2080-\u20FF\u2100-\u217F\u2180-\u21FF\u2200-\u227F\u2280-\u22FF\u2300-\u237F\u2380-\u23FF\u2400-\u247F\u2480-\u24FF\u2500-\u257F\u2580-\u25FF\u2600-\u267F\u2680-\u26FF\u2700-\u277F\u2780-\u27FF\u2800-\u287F\u2880-\u28FF\u2900-\u297F\u2980-\u29FF\u2A00-\u2A7F\u2A80-\u2AFF\u2B00-\u2B7F\u2B80-\u2BFF\u2C00-\u2C7F\u2C80-\u2CFF\u2D00-\u2D7F\u2D80-\u2DBF\u2E00-\u2E7F\u2E80-\u2EFF\u2F00-\u2FFF\u3000-\u307F\u3080-\u30FF\u3100-\u317F\u3180-\u31FF\u3200-\u327F\u3280-\u32FF\u3300-\u337F\u3380-\u33FF\u3400-\u347F\u3480-\u34FF\u3500-\u357F\u3580-\u35FF\u3600-\u367F\u3680-\u36FF\u3700-\u377F\u3780-\u37FF\u3800-\u387F\u3880-\u38FF\u3900-\u397F\u3980-\u39FF\u3A00-\u3A7F\u3A80-\u3AFF\u3B00-\u3B7F\u3B80-\u3BFF\u3C00-\u3C7F\u3C80-\u3CFF\u3D00-\u3D7F\u3D80-\u3DBF\u3E00-\u3E7F\u3E80-\u3EFF\u3F00-\u3FFF\u4000-\u407F\u4080-\u40FF\u4100-\u417F\u4180-\u41FF\u4200-\u427F\u4280-\u42FF\u4300-\u437F\u4380-\u43FF\u4400-\u447F\u4480-\u44FF\u4500-\u457F\u4580-\u45FF\u4600-\u467F\u4680-\u46FF\u4700-\u477F\u4780-\u47FF\u4800-\u487F\u4880-\u48FF\u4900-\u497F\u4980-\u49FF\u4A00-\u4A7F\u4A80-\u4AFF\u4B00-\u4B7F\u4B80-\u4BFF\u4C00-\u4C7F\u4C80-\u4CFF\u4D00-\u4D7F\u4D80-\u4DBF\u4E00-\u4E7F\u4E80-\u4EFF\u4F00-\u4FFF\u5000-\u507F\u5080-\u50FF\u5100-\u517F\u5180-\u51FF\u5200-\u527F\u5280-\u52FF\u5300-\u537F\u5380-\u53FF\u5400-\u547F\u5480-\u54FF\u5500-\u557F\u5580-\u55FF\u5600-\u567F\u5680-\u56FF\u5700-\u577F\u5780-\u57FF\u5800-\u587F\u5880-\u58FF\u5900-\u597F\u5980-\u59FF\u5A00-\u5A7F\u5A80-\u5AFF\u5B00-\u5B7F\u5B80-\u5BFF\u5C00-\u5C7F\u5C80-\u5CFF\u5D00-\u5D7F\u5D80-\u5DBF\u5E00-\u5E7F\u5E80-\u5EFF\u5F00-\u5FFF\u6000-\u607F\u6080-\u60FF\u6100-\u617F\u6180-\u61FF\u6200-\u627F\u6280-\u62FF\u6300-\u637F\u6380-\u63FF\u6400-\u647F\u6480-\u64FF\u6500-\u657F\u6580-\u65FF\u6600-\u667F\u6680-\u66FF\u6700-\u677F\u6780-\u67FF\u6800-\u687F\u6880-\u68FF\u6900-\u697F\u6980-\u69FF\u6A00-\u6A7F\u6A80-\u6AFF\u6B00-\u6B7F\u6B80-\u6BFF\u6C00-\u6C7F\u6C80-\u6CFF\u6D00-\u6D7F\u6D80-\u6DBF\u6E00-\u6E7F\u6E80-\u6EFF\u6F00-\u6FFF\u7000-\u707F\u7080-\u70FF\u7100-\u717F\u7180-\u71FF\u7200-\u727F\u7280-\u72FF\u7300-\u737F\u7380-\u73FF\u7400-\u747F\u7480-\u74FF\u7500-\u757F\u7580-\u75FF\u7600-\u767F\u7680-\u76FF\u7700-\u777F\u7780-\u77FF\u7800-\u787F\u7880-\u78FF\u7900-\u797F\u7980-\u79FF\u7A00-\u7A7F\u7A80-\u7AFF\u7B00-\u7B7F\u7B80-\u7BFF\u7C00-\u7C7F\u7C80-\u7CFF\u7D00-\u7D7F\u7D80-\u7DBF\u7E00-\u7E7F\u7E80-\u7EFF\u7F00-\u7FFF\u8000-\u807F\u8080-\u80FF\u8100-\u817F\u8180-\u81FF\u8200-\u827F\u8280-\u82FF\u8300-\u837F\u8380-\u83FF\u8400-\u847F\u8480-\u84FF\u8500-\u857F\u8580-\u85FF\u8600-\u867F\u8680-\u86FF\u8700-\u877F\u8780-\u87FF\u8800-\u887F\u8880-\u88FF\u8900-\u897F\u8980-\u89FF\u8A00-\u8A7F\u8A80-\u8AFF\u8B00-\u8B7F\u8B80-\u8BFF\u8C00-\u8C7F\u8C80-\u8CFF\u8D00-\u8D7F\u8D80-\u8DBF\u8E00-\u8E7F\u8E80-\u8EFF\u8F00-\u8FFF\u9000-\u907F\u9080-\u90FF\u9100-\u917F\u9180-\u91FF\u9200-\u927F\u9280-\u92FF\u9300-\u937F\u9380-\u93FF\u9400-\u947F\u9480-\u94FF\u9500-\u957F\u9580-\u95FF\u9600-\u967F\u9680-\u96FF\u9700-\u977F\u9780-\u97FF\u9800-\u987F\u9880-\u98FF\u9900-\u997F\u9980-\u99FF\u9A00-\u9A7F\u9A80-\u9AFF\u9B00-\u9B7F\u9B80-\u9BFF\u9C00-\u9C7F\u9C80-\u9CFF\u9D00-\u9D7F\u9D80-\u9DBF\u9E00-\u9E7F\u9E80-\u9EFF\u9F00-\u9FFF\uA000-\uA07F\uA080-\uA0FF\uA100-\uA17F\uA180-\uA1FF\uA200-\uA27F\uA280-\uA2FF\uA300-\uA37F\uA380-\uA3FF\uA400-\uA47F\uA480-\uA4FF\uA500-\uA57F\uA580-\uA5FF\uA600-\uA67F\uA680-\uA6FF\uA700-\uA77F\uA780-\uA7FF\uA800-\uA87F\uA880-\uA8FF\uA900-\uA97F\uA980-\uA9FF\uAA00-\uAA7F\uAA80-\uAAFF\uAB00-\uAB7F\uAB80-\uABFF\uAC00-\uAC7F\uAC80-\uACFF\uAD00-\uAD7F\uAD80-\uADFF\uAE00-\uAE7F\uAE80-\uAEFF\uAF00-\uAFFF\uB000-\uB07F\uB080-\uB0FF\uB100-\uB17F\uB180-\uB1FF\uB200-\uB27F\uB280-\uB2FF\uB300-\uB37F\uB380-\uB3FF\uB400-\uB47F\uB480-\uB4FF\uB500-\uB57F\uB580-\uB5FF\uB600-\uB67F\uB680-\uB6FF\uB700-\uB77F\uB780-\uB7FF\uB800-\uB87F\uB880-\uB8FF\uB900-\uB97F\uB980-\uB9FF\uBA00-\uBA7F\uBA80-\uBAFF\uBB00-\uBB7F\uBB80-\uBBFF\uBC00-\uBC7F\uBC80-\uBCFF\uBD00-\uBD7F\uBD80-\uBDBF\uBE00-\uBE7F\uBE80-\uBEFF\uBF00-\uBFFF\uC000-\uC07F\uC080-\uC0FF\uC100-\uC17F\uC180-\uC1FF\uC200-\uC27F\uC280-\uC2FF\uC300-\uC37F\uC380-\uC3FF\uC400-\uC47F\uC480-\uC4FF\uC500-\uC57F\uC580-\uC5FF\uC600-\uC67F\uC680-\uC6FF\uC700-\uC77F\uC780-\uC7FF\uC800-\uC87F\uC880-\uC8FF\uC900-\uC97F\uC980-\uC9FF\uCA00-\uCA7F\uCA80-\uCAFF\uCB00-\uCB7F\uCB80-\uCBFF\uCC00-\uCC7F\uCC80-\uCCFF\uCD00-\uCD7F\uCD80-\uCDFF\uCE00-\uCE7F\uCE80-\uCEFF\uCF00-\uCFFF\uD000-\uD07F\uD080-\uD0FF\uD100-\uD17F\uD180-\uD1FF\uD200-\uD27F\uD280-\uD2FF\uD300-\uD37F\uD380-\uD3FF\uD400-\uD47F\uD480-\uD4FF\uD500-\uD57F\uD580-\uD5FF\uD600-\uD67F\uD680-\uD6FF\uD700-\uD77F\uD780-\uD7FF\uD800-\uD87F\uD880-\uD8FF\uD900-\uD97F\uD980-\uD9FF\uDA00-\uDA7F\uDA80-\uDAFF\uDB00-\uDB7F\uDB80-\uDBFF\uDC00-\uDC7F\uDC80-\uDCFF\uDD00-\uDD7F\uDD80-\uDDFF\uDE00-\uDE7F\uDE80-\uDEFF\uDF00-\uDF7F\uDF80-\uDFFF\uE000-\uE07F\uE080-\uE0FF\uE100-\uE17F\uE180-\uE1FF\uE200-\uE27F\uE280-\uE2FF\uE300-\uE37F\uE380-\uE3FF\uE400-\uE47F\uE480-\uE4FF\uE500-\uE57F\uE580-\uE5FF\uE600-\uE67F\uE680-\uE6FF\uE700-\uE77F\uE780-\uE7FF\uE800-\uE87F\uE880-\uE8FF\uE900-\uE97F\uE980-\uE9FF\uEA00-\uEA7F\uEA80-\uEAFF\uEB00-\uEB7F\uEB80-\uEBFF\uEC00-\uEC7F\uEC80-\uECFF\uED00-\uED7F\uED80-\uEDFF\uEE00-\uEE7F\uEE80-\uEEFF\uEF00-\uEFFF\uF000-\uF07F\uF080-\uF0FF\uF100-\uF17F\uF180-\uF1FF\uF200-\uF27F\uF280-\uF2FF\uF300-\uF37F\uF380-\uF3FF\uF400-\uF47F\uF480-\uF4FF\uF500-\uF57F\uF580-\uF5FF\uF600-\uF67F\uF680-\uF6FF\uF700-\uF77F\uF780-\uF7FF\uF800-\uF87F\uF880-\uF8FF\uF900-\uF97F\uF980-\uF9FF\uFA00-\uFA7F\uFA80-\uFAFF\uFB00-\uFB7F\uFB80-\uFBFF\uFC00-\uFC7F\uFC80-\uFCFF\uFD00-\uFD7F\uFD80-\uFDFF\uFE00-\uFE7F\uFE80-\uFEFF\uFF00-\uFF7F\uFF80-\uFFFF]`*

Required: Yes

DatabaseName

The name of the database for which table metadata should be returned.

Type: String

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

Required: Yes

Expression

A regex filter that pattern-matches table names. If no expression is supplied, metadata for all tables are listed.

Type: String

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

Required: No

MaxResults

Specifies the maximum number of results to return.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 50.

Required: No

NextToken

A token generated by the Athena service that specifies where to continue pagination if a previous request was truncated. To obtain the next set of pages, pass in the NextToken from the response object of the previous page call.

Type: String

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

Required: No

WorkGroup

The name of the workgroup for which the metadata is being fetched. Required if requesting an IAM Identity Center enabled AWS Glue Data Catalog.

Type: String

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

Required: No

Response Syntax

```
{
  "NextToken": "string",
  "TableMetadataList": [
    {
      "Columns": [
        {
          "Comment": "string",
          "Name": "string",
          "Type": "string"
        }
      ],
      "CreateTime": number,
      "LastAccessTime": number,
      "Name": "string",
      "Parameters": {
        "string" : "string"
      },
      "PartitionKeys": [
        {
          "Comment": "string",
          "Name": "string",
          "Type": "string"
        }
      ],
      "TableType": "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

A token generated by the Athena service that specifies where to continue pagination if a previous request was truncated. To obtain the next set of pages, pass in the NextToken from the response object of the previous page call.

Type: String

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

[TableMetadataList](#)

A list of table metadata.

Type: Array of [TableMetadata](#) objects

Errors

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

InternalServerError

Indicates a platform issue, which may be due to a transient condition or outage.

HTTP Status Code: 500

InvalidRequestException

Indicates that something is wrong with the input to the request. For example, a required parameter may be missing or out of range.

AthenaErrorCode

The error code returned when the query execution failed to process, or when the processing request for the named query failed.

HTTP Status Code: 400

MetadataException

An exception that Athena received when it called a custom metastore. Occurs if the error is not caused by user input (`InvalidRequestException`) or from the Athena platform (`InternalServerError`). For example, if a user-created Lambda function is missing permissions, the Lambda 4XX exception is returned in a `MetadataException`.

HTTP Status Code: 400

See Also

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

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

ListTagsForResource

Lists the tags associated with an Athena resource.

Request Syntax

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

Request Parameters

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

The request accepts the following data in JSON format.

MaxResults

The maximum number of results to be returned per request that lists the tags for the resource.

Type: Integer

Valid Range: Minimum value of 75.

Required: No

NextToken

The token for the next set of results, or null if there are no additional results for this request, where the request lists the tags for the resource with the specified ARN.

Type: String

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

Required: No

ResourceARN

Lists the tags for the resource with the specified ARN.

Type: String

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

Required: Yes

Response Syntax

```
{
  "NextToken": "string",
  "Tags": [
    {
      "Key": "string",
      "Value": "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

A token to be used by the next request if this request is truncated.

Type: String

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

Tags

The list of tags associated with the specified resource.

Type: Array of [Tag](#) objects

Errors

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

InternalServerError

Indicates a platform issue, which may be due to a transient condition or outage.

HTTP Status Code: 500

InvalidRequestException

Indicates that something is wrong with the input to the request. For example, a required parameter may be missing or out of range.

AthenaErrorCode

The error code returned when the query execution failed to process, or when the processing request for the named query failed.

HTTP Status Code: 400

ResourceNotFoundException

A resource, such as a workgroup, was not found.

ResourceName

The name of the Amazon resource.

HTTP Status Code: 400

See Also

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

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

- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

ListWorkGroups

Lists available workgroups for the account.

Request Syntax

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

Request Parameters

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

The request accepts the following data in JSON format.

[MaxResults](#)

The maximum number of workgroups to return in this request.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 50.

Required: No

[NextToken](#)

A token generated by the Athena service that specifies where to continue pagination if a previous request was truncated. To obtain the next set of pages, pass in the NextToken from the response object of the previous page call.

Type: String

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

Required: No

Response Syntax

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

```
"WorkGroups": [  
  {  
    "CreationTime": number,  
    "Description": "string",  
    "EngineVersion": {  
      "EffectiveEngineVersion": "string",  
      "SelectedEngineVersion": "string"  
    },  
    "IdentityCenterApplicationArn": "string",  
    "Name": "string",  
    "State": "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](#)

A token generated by the Athena service that specifies where to continue pagination if a previous request was truncated. To obtain the next set of pages, pass in the NextToken from the response object of the previous page call.

Type: String

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

[WorkGroups](#)

A list of [WorkGroupSummary](#) objects that include the names, descriptions, creation times, and states for each workgroup.

Type: Array of [WorkGroupSummary](#) objects

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

Errors

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

InternalServerError

Indicates a platform issue, which may be due to a transient condition or outage.

HTTP Status Code: 500

InvalidRequestException

Indicates that something is wrong with the input to the request. For example, a required parameter may be missing or out of range.

AthenaErrorCode

The error code returned when the query execution failed to process, or when the processing request for the named query failed.

HTTP Status Code: 400

See Also

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

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

PutCapacityAssignmentConfiguration

Puts a new capacity assignment configuration for a specified capacity reservation. If a capacity assignment configuration already exists for the capacity reservation, replaces the existing capacity assignment configuration.

Request Syntax

```
{
  "CapacityAssignments": [
    {
      "WorkGroupNames": [ "string" ]
    }
  ],
  "CapacityReservationName": "string"
}
```

Request Parameters

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

The request accepts the following data in JSON format.

[CapacityAssignments](#)

The list of assignments for the capacity assignment configuration.

Type: Array of [CapacityAssignment](#) objects

Required: Yes

[CapacityReservationName](#)

The name of the capacity reservation to put a capacity assignment configuration for.

Type: String

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

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

Required: Yes

Response Elements

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

Errors

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

InternalServerError

Indicates a platform issue, which may be due to a transient condition or outage.

HTTP Status Code: 500

InvalidRequestException

Indicates that something is wrong with the input to the request. For example, a required parameter may be missing or out of range.

AthenaErrorCode

The error code returned when the query execution failed to process, or when the processing request for the named query failed.

HTTP Status Code: 400

See Also

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

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

- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

StartCalculationExecution

Submits calculations for execution within a session. You can supply the code to run as an inline code block within the request.

Note

The request syntax requires the [StartCalculationExecution:CodeBlock](#) parameter or the [CalculationConfiguration:CodeBlock](#) parameter, but not both. Because [CalculationConfiguration:CodeBlock](#) is deprecated, use the [StartCalculationExecution:CodeBlock](#) parameter instead.

Request Syntax

```
{
  "CalculationConfiguration": {
    "CodeBlock": "string"
  },
  "ClientRequestToken": "string",
  "CodeBlock": "string",
  "Description": "string",
  "SessionId": "string"
}
```

Request Parameters

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

The request accepts the following data in JSON format.

[CalculationConfiguration](#)

This parameter has been deprecated.

Contains configuration information for the calculation.

Type: [CalculationConfiguration](#) object

Required: No

ClientRequestToken

A unique case-sensitive string used to ensure the request to create the calculation is idempotent (executes only once). If another `StartCalculationExecutionRequest` is received, the same response is returned and another calculation is not created. If a parameter has changed, an error is returned.

Important

This token is listed as not required because AWS SDKs (for example the AWS SDK for Java) auto-generate the token for users. If you are not using the AWS SDK or the AWS CLI, you must provide this token or the action will fail.

Type: String

Length Constraints: Minimum length of 32. Maximum length of 128.

Required: No

CodeBlock

A string that contains the code of the calculation. Use this parameter instead of [CalculationConfiguration:CodeBlock](#), which is deprecated.

Type: String

Length Constraints: Maximum length of 68000.

Required: No

Description

A description of the calculation.

Type: String

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

Required: No

SessionId

The session ID.

Type: String

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

Required: Yes

Response Syntax

```
{  
  "CalculationExecutionId": "string",  
  "State": "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.

[CalculationExecutionId](#)

The calculation execution UUID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

[State](#)

CREATING - The calculation is in the process of being created.

CREATED - The calculation has been created and is ready to run.

QUEUED - The calculation has been queued for processing.

RUNNING - The calculation is running.

CANCELING - A request to cancel the calculation has been received and the system is working to stop it.

CANCELED - The calculation is no longer running as the result of a cancel request.

COMPLETED - The calculation has completed without error.

FAILED - The calculation failed and is no longer running.

Type: String

Valid Values: CREATING | CREATED | QUEUED | RUNNING | CANCELING | CANCELED | COMPLETED | FAILED

Errors

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

InternalServerError

Indicates a platform issue, which may be due to a transient condition or outage.

HTTP Status Code: 500

InvalidRequestException

Indicates that something is wrong with the input to the request. For example, a required parameter may be missing or out of range.

AthenaErrorCode

The error code returned when the query execution failed to process, or when the processing request for the named query failed.

HTTP Status Code: 400

ResourceNotFoundException

A resource, such as a workgroup, was not found.

ResourceName

The name of the Amazon resource.

HTTP Status Code: 400

See Also

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

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

StartQueryExecution

Runs the SQL query statements contained in the Query. Requires you to have access to the workgroup in which the query ran. Running queries against an external catalog requires [GetDataCatalog](#) permission to the catalog. For code samples using the AWS SDK for Java, see [Examples and Code Samples](#) in the *Amazon Athena User Guide*.

Request Syntax

```
{
  "ClientRequestToken": "string",
  "EngineConfiguration": {
    "AdditionalConfigs": {
      "string" : "string"
    },
    "Classifications": [
      {
        "Name": "string",
        "Properties": {
          "string" : "string"
        }
      }
    ],
    "CoordinatorDpuSize": number,
    "DefaultExecutorDpuSize": number,
    "MaxConcurrentDpus": number,
    "SparkProperties": {
      "string" : "string"
    }
  },
  "ExecutionParameters": [ "string" ],
  "QueryExecutionContext": {
    "Catalog": "string",
    "Database": "string"
  },
  "QueryString": "string",
  "ResultConfiguration": {
    "AclConfiguration": {
      "S3AclOption": "string"
    },
    "EncryptionConfiguration": {
      "EncryptionOption": "string",
```

```
    "KmsKey": "string",
  },
  "ExpectedBucketOwner": "string",
  "OutputLocation": "string",
},
"ResultReuseConfiguration": {
  "ResultReuseByAgeConfiguration": {
    "Enabled": boolean,
    "MaxAgeInMinutes": number
  }
},
"WorkGroup": "string"
}
```

Request Parameters

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

The request accepts the following data in JSON format.

ClientRequestToken

A unique case-sensitive string used to ensure the request to create the query is idempotent (executes only once). If another `StartQueryExecution` request is received, the same response is returned and another query is not created. An error is returned if a parameter, such as `QueryString`, has changed. A call to `StartQueryExecution` that uses a previous client request token returns the same `QueryExecutionId` even if the requester doesn't have permission on the tables specified in `QueryString`.

Important

This token is listed as not required because AWS SDKs (for example the AWS SDK for Java) auto-generate the token for users. If you are not using the AWS SDK or the AWS CLI, you must provide this token or the action will fail.

Type: String

Length Constraints: Minimum length of 32. Maximum length of 128.

Required: No

EngineConfiguration

The engine configuration for the workgroup, which includes the minimum/maximum number of Data Processing Units (DPU) that queries should use when running in provisioned capacity. If not specified, Athena uses default values (Default value for min is 4 and for max is Minimum of 124 and allocated DPUs).

To specify minimum and maximum DPU values for Capacity Reservations queries, the workgroup containing EngineConfiguration should have the following values: The name of the Classifications should be athena-query-engine-properties, with the only allowed properties as max-dpu-count and min-dpu-count.

Note: When using StartQueryExecution, only the Classifications field applies. Do not specify the other fields (AdditionalConfigs, CoordinatorDpuSize, DefaultExecutorDpuSize, MaxConcurrentDpus, and SparkProperties), as these are used only with StartSession to configure Apache Spark-based sessions.

Type: [EngineConfiguration](#) object

Required: No

ExecutionParameters

A list of values for the parameters in a query. The values are applied sequentially to the parameters in the query in the order in which the parameters occur.

Type: Array of strings

Array Members: Minimum number of 1 item.

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

Required: No

QueryExecutionContext

The database within which the query executes.

Type: [QueryExecutionContext](#) object

Required: No

QueryString

The SQL query statements to be executed.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 262144.

Required: Yes

ResultConfiguration

Specifies information about where and how to save the results of the query execution. If the query runs in a workgroup, then workgroup's settings may override query settings. This affects the query results location. The workgroup settings override is specified in `EnforceWorkGroupConfiguration` (true/false) in the `WorkGroupConfiguration`. See [WorkGroupConfiguration:EnforceWorkGroupConfiguration](#).

Type: [ResultConfiguration](#) object

Required: No

ResultReuseConfiguration

Specifies the query result reuse behavior for the query.

Type: [ResultReuseConfiguration](#) object

Required: No

WorkGroup

The name of the workgroup in which the query is being started.

Type: String

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

Required: No

Response Syntax

```
{
  "QueryExecutionId": "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.

QueryExecutionId

The unique ID of the query that ran as a result of this request.

Type: String

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

Pattern: \S+

Errors

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

InternalServerError

Indicates a platform issue, which may be due to a transient condition or outage.

HTTP Status Code: 500

InvalidRequestException

Indicates that something is wrong with the input to the request. For example, a required parameter may be missing or out of range.

AthenaErrorCode

The error code returned when the query execution failed to process, or when the processing request for the named query failed.

HTTP Status Code: 400

TooManyRequestsException

Indicates that the request was throttled.

Reason

The reason for the query throttling, for example, when it exceeds the concurrent query limit.

HTTP Status Code: 400

See Also

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

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

StartSession

Creates a session for running calculations within a workgroup. The session is ready when it reaches an IDLE state.

Request Syntax

```
{
  "ClientRequestToken": "string",
  "CopyWorkGroupTags": boolean,
  "Description": "string",
  "EngineConfiguration": {
    "AdditionalConfigs": {
      "string" : "string"
    },
    "Classifications": [
      {
        "Name": "string",
        "Properties": {
          "string" : "string"
        }
      }
    ],
    "CoordinatorDpuSize": number,
    "DefaultExecutorDpuSize": number,
    "MaxConcurrentDpus": number,
    "SparkProperties": {
      "string" : "string"
    }
  },
  "ExecutionRole": "string",
  "MonitoringConfiguration": {
    "CloudWatchLoggingConfiguration": {
      "Enabled": boolean,
      "LogGroup": "string",
      "LogStreamNamePrefix": "string",
      "LogTypes": {
        "string" : [ "string" ]
      }
    }
  },
  "ManagedLoggingConfiguration": {
    "Enabled": boolean,
    "KmsKey": "string"
  }
}
```

```
{
  },
  "S3LoggingConfiguration": {
    "Enabled": boolean,
    "KmsKey": "string",
    "LogLocation": "string"
  }
},
"NotebookVersion": "string",
"SessionIdleTimeoutInMinutes": number,
"Tags": [
  {
    "Key": "string",
    "Value": "string"
  }
],
"WorkGroup": "string"
}
```

Request Parameters

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

The request accepts the following data in JSON format.

[ClientRequestToken](#)

A unique case-sensitive string used to ensure the request to create the session is idempotent (executes only once). If another `StartSessionRequest` is received, the same response is returned and another session is not created. If a parameter has changed, an error is returned.

Important

This token is listed as not required because AWS SDKs (for example the AWS SDK for Java) auto-generate the token for users. If you are not using the AWS SDK or the AWS CLI, you must provide this token or the action will fail.

Type: String

Length Constraints: Minimum length of 32. Maximum length of 128.

Required: No

CopyWorkGroupTags

Copies the tags from the Workgroup to the Session when.

Type: Boolean

Required: No

Description

The session description.

Type: String

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

Required: No

EngineConfiguration

Contains engine data processing unit (DPU) configuration settings and parameter mappings.

Type: [EngineConfiguration](#) object

Required: Yes

ExecutionRole

The ARN of the execution role used to access user resources for Spark sessions and Identity Center enabled workgroups. This property applies only to Spark enabled workgroups and Identity Center enabled workgroups.

Type: String

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

Pattern: `^arn:aws[a-z\-\]*:iam:~\d{12}:role/?[a-zA-Z_0-9+=,.\@-\_/\]+$`

Required: No

MonitoringConfiguration

Contains the configuration settings for managed log persistence, delivering logs to Amazon S3 buckets, Amazon CloudWatch log groups etc.

Type: [MonitoringConfiguration](#) object

Required: No

[NotebookVersion](#)

The notebook version. This value is supplied automatically for notebook sessions in the Athena console and is not required for programmatic session access. The only valid notebook version is Athena notebook version 1. If you specify a value for NotebookVersion, you must also specify a value for NotebookId. See [EngineConfiguration:AdditionalConfigs](#).

Type: String

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

Required: No

[SessionIdleTimeoutInMinutes](#)

The idle timeout in minutes for the session.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 480.

Required: No

[Tags](#)

A list of comma separated tags to add to the session that is created.

Type: Array of [Tag](#) objects

Required: No

[WorkGroup](#)

The workgroup to which the session belongs.

Type: String

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

Required: Yes

Response Syntax

```
{
  "SessionId": "string",
  "State": "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.

SessionId

The session ID.

Type: String

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

State

The state of the session. A description of each state follows.

CREATING - The session is being started, including acquiring resources.

CREATED - The session has been started.

IDLE - The session is able to accept a calculation.

BUSY - The session is processing another task and is unable to accept a calculation.

TERMINATING - The session is in the process of shutting down.

TERMINATED - The session and its resources are no longer running.

DEGRADED - The session has no healthy coordinators.

FAILED - Due to a failure, the session and its resources are no longer running.

Type: String

Valid Values: CREATING | CREATED | IDLE | BUSY | TERMINATING | TERMINATED | DEGRADED | FAILED

Errors

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

InternalServerError

Indicates a platform issue, which may be due to a transient condition or outage.

HTTP Status Code: 500

InvalidRequestException

Indicates that something is wrong with the input to the request. For example, a required parameter may be missing or out of range.

AthenaErrorCode

The error code returned when the query execution failed to process, or when the processing request for the named query failed.

HTTP Status Code: 400

ResourceNotFoundException

A resource, such as a workgroup, was not found.

ResourceName

The name of the Amazon resource.

HTTP Status Code: 400

SessionAlreadyExistsException

The specified session already exists.

HTTP Status Code: 400

TooManyRequestsException

Indicates that the request was throttled.

Reason

The reason for the query throttling, for example, when it exceeds the concurrent query limit.

HTTP Status Code: 400

See Also

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

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

StopCalculationExecution

Requests the cancellation of a calculation. A `StopCalculationExecution` call on a calculation that is already in a terminal state (for example, `STOPPED`, `FAILED`, or `COMPLETED`) succeeds but has no effect.

Note

Cancelling a calculation is done on a best effort basis. If a calculation cannot be cancelled, you can be charged for its completion. If you are concerned about being charged for a calculation that cannot be cancelled, consider terminating the session in which the calculation is running.

Request Syntax

```
{
  "CalculationExecutionId": "string"
}
```

Request Parameters

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

The request accepts the following data in JSON format.

CalculationExecutionId

The calculation execution UUID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

Required: Yes

Response Syntax

```
{
```

```
"State": "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.

State

CREATING - The calculation is in the process of being created.

CREATED - The calculation has been created and is ready to run.

QUEUED - The calculation has been queued for processing.

RUNNING - The calculation is running.

CANCELING - A request to cancel the calculation has been received and the system is working to stop it.

CANCELED - The calculation is no longer running as the result of a cancel request.

COMPLETED - The calculation has completed without error.

FAILED - The calculation failed and is no longer running.

Type: String

Valid Values: CREATING | CREATED | QUEUED | RUNNING | CANCELING | CANCELED | COMPLETED | FAILED

Errors

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

InternalServerErrorException

Indicates a platform issue, which may be due to a transient condition or outage.

HTTP Status Code: 500

InvalidRequestException

Indicates that something is wrong with the input to the request. For example, a required parameter may be missing or out of range.

AthenaErrorCode

The error code returned when the query execution failed to process, or when the processing request for the named query failed.

HTTP Status Code: 400

ResourceNotFoundException

A resource, such as a workgroup, was not found.

ResourceName

The name of the Amazon resource.

HTTP Status Code: 400

See Also

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

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

StopQueryExecution

Stops a query execution. Requires you to have access to the workgroup in which the query ran.

Request Syntax

```
{  
  "QueryExecutionId": "string"  
}
```

Request Parameters

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

The request accepts the following data in JSON format.

[QueryExecutionId](#)

The unique ID of the query execution to stop.

Type: String

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

Pattern: \S+

Required: Yes

Response Elements

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

Errors

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

InternalServerError

Indicates a platform issue, which may be due to a transient condition or outage.

HTTP Status Code: 500

InvalidRequestException

Indicates that something is wrong with the input to the request. For example, a required parameter may be missing or out of range.

AthenaErrorCode

The error code returned when the query execution failed to process, or when the processing request for the named query failed.

HTTP Status Code: 400

See Also

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

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

TagResource

Adds one or more tags to an Athena resource. A tag is a label that you assign to a resource. Each tag consists of a key and an optional value, both of which you define. For example, you can use tags to categorize Athena workgroups, data catalogs, or capacity reservations by purpose, owner, or environment. Use a consistent set of tag keys to make it easier to search and filter the resources in your account. For best practices, see [Tagging Best Practices](#). Tag keys can be from 1 to 128 UTF-8 Unicode characters, and tag values can be from 0 to 256 UTF-8 Unicode characters. Tags can use letters and numbers representable in UTF-8, and the following characters: + - = . _ : / @. Tag keys and values are case-sensitive. Tag keys must be unique per resource. If you specify more than one tag, separate them by commas.

Request Syntax

```
{
  "ResourceARN": "string",
  "Tags": [
    {
      "Key": "string",
      "Value": "string"
    }
  ]
}
```

Request Parameters

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

The request accepts the following data in JSON format.

[ResourceARN](#)

Specifies the ARN of the Athena resource to which tags are to be added.

Type: String

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

Required: Yes

Tags

A collection of one or more tags, separated by commas, to be added to an Athena resource.

Type: Array of [Tag](#) objects

Required: Yes

Response Elements

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

Errors

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

InternalServerError

Indicates a platform issue, which may be due to a transient condition or outage.

HTTP Status Code: 500

InvalidRequestException

Indicates that something is wrong with the input to the request. For example, a required parameter may be missing or out of range.

AthenaErrorCode

The error code returned when the query execution failed to process, or when the processing request for the named query failed.

HTTP Status Code: 400

ResourceNotFoundException

A resource, such as a workgroup, was not found.

ResourceName

The name of the Amazon resource.

HTTP Status Code: 400

See Also

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

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

TerminateSession

Terminates an active session. A `TerminateSession` call on a session that is already inactive (for example, in a `FAILED`, `TERMINATED` or `TERMINATING` state) succeeds but has no effect. Calculations running in the session when `TerminateSession` is called are forcefully stopped, but may display as `FAILED` instead of `STOPPED`.

Request Syntax

```
{  
  "SessionId": "string"  
}
```

Request Parameters

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

The request accepts the following data in JSON format.

SessionId

The session ID.

Type: String

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

Required: Yes

Response Syntax

```
{  
  "State": "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.

State

The state of the session. A description of each state follows.

CREATING - The session is being started, including acquiring resources.

CREATED - The session has been started.

IDLE - The session is able to accept a calculation.

BUSY - The session is processing another task and is unable to accept a calculation.

TERMINATING - The session is in the process of shutting down.

TERMINATED - The session and its resources are no longer running.

DEGRADED - The session has no healthy coordinators.

FAILED - Due to a failure, the session and its resources are no longer running.

Type: String

Valid Values: CREATING | CREATED | IDLE | BUSY | TERMINATING | TERMINATED | DEGRADED | FAILED

Errors

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

InternalServerError

Indicates a platform issue, which may be due to a transient condition or outage.

HTTP Status Code: 500

InvalidRequestException

Indicates that something is wrong with the input to the request. For example, a required parameter may be missing or out of range.

AthenaErrorCode

The error code returned when the query execution failed to process, or when the processing request for the named query failed.

HTTP Status Code: 400

ResourceNotFoundException

A resource, such as a workgroup, was not found.

ResourceName

The name of the Amazon resource.

HTTP Status Code: 400

See Also

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

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

UntagResource

Removes one or more tags from an Athena resource.

Request Syntax

```
{  
  "ResourceARN": "string",  
  "TagKeys": [ "string" ]  
}
```

Request Parameters

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

The request accepts the following data in JSON format.

[ResourceARN](#)

Specifies the ARN of the resource from which tags are to be removed.

Type: String

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

Required: Yes

[TagKeys](#)

A comma-separated list of one or more tag keys whose tags are to be removed from the specified resource.

Type: Array of strings

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

Required: Yes

Response Elements

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

Errors

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

InternalServerError

Indicates a platform issue, which may be due to a transient condition or outage.

HTTP Status Code: 500

InvalidRequestException

Indicates that something is wrong with the input to the request. For example, a required parameter may be missing or out of range.

AthenaErrorCode

The error code returned when the query execution failed to process, or when the processing request for the named query failed.

HTTP Status Code: 400

ResourceNotFoundException

A resource, such as a workgroup, was not found.

ResourceName

The name of the Amazon resource.

HTTP Status Code: 400

See Also

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

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

- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

UpdateCapacityReservation

Updates the number of requested data processing units for the capacity reservation with the specified name.

Request Syntax

```
{  
  "Name": "string",  
  "TargetDpus": number  
}
```

Request Parameters

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

The request accepts the following data in JSON format.

Name

The name of the capacity reservation.

Type: String

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

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

Required: Yes

TargetDpus

The new number of requested data processing units.

Type: Integer

Valid Range: Minimum value of 4.

Required: Yes

Response Elements

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

Errors

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

InternalServerError

Indicates a platform issue, which may be due to a transient condition or outage.

HTTP Status Code: 500

InvalidRequestException

Indicates that something is wrong with the input to the request. For example, a required parameter may be missing or out of range.

AthenaErrorCode

The error code returned when the query execution failed to process, or when the processing request for the named query failed.

HTTP Status Code: 400

See Also

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

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

Required: Yes

Parameters

Specifies the Lambda function or functions to use for updating the data catalog. This is a mapping whose values depend on the catalog type.

- For the HIVE data catalog type, use the following syntax. The `metadata-function` parameter is required. The `sdk-version` parameter is optional and defaults to the currently supported version.

```
metadata-function=lambda_arn, sdk-version=version_number
```

- For the LAMBDA data catalog type, use one of the following sets of required parameters, but not both.
 - If you have one Lambda function that processes metadata and another for reading the actual data, use the following syntax. Both parameters are required.

```
metadata-function=lambda_arn, record-function=lambda_arn
```

- If you have a composite Lambda function that processes both metadata and data, use the following syntax to specify your Lambda function.

```
function=lambda_arn
```

Type: String to string map

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

Key Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Value Length Constraints: Maximum length of 51200.

Required: No

Type

Specifies the type of data catalog to update. Specify LAMBDA for a federated catalog, HIVE for an external hive metastore, or GLUE for an AWS Glue Data Catalog.

Type: String

Valid Values: LAMBDA | GLUE | HIVE | FEDERATED

Required: Yes

Response Elements

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

Errors

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

InternalServerError

Indicates a platform issue, which may be due to a transient condition or outage.

HTTP Status Code: 500

InvalidRequestException

Indicates that something is wrong with the input to the request. For example, a required parameter may be missing or out of range.

AthenaErrorCode

The error code returned when the query execution failed to process, or when the processing request for the named query failed.

HTTP Status Code: 400

See Also

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

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

- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

UpdateNamedQuery

Updates a [NamedQuery](#) object. The database or workgroup cannot be updated.

Request Syntax

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

Request Parameters

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

The request accepts the following data in JSON format.

Description

The query description.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Required: No

Name

The name of the query.

Type: String

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

Required: Yes

NamedQueryId

The unique identifier (UUID) of the query.

Type: String

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

Pattern: \S+

Required: Yes

QueryString

The contents of the query with all query statements.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 262144.

Required: Yes

Response Elements

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

Errors

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

InternalServerError

Indicates a platform issue, which may be due to a transient condition or outage.

HTTP Status Code: 500

InvalidRequestException

Indicates that something is wrong with the input to the request. For example, a required parameter may be missing or out of range.

AthenaErrorCode

The error code returned when the query execution failed to process, or when the processing request for the named query failed.

HTTP Status Code: 400

See Also

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

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

UpdateNotebook

Updates the contents of a Spark notebook.

Request Syntax

```
{  
  "ClientRequestToken": "string",  
  "NotebookId": "string",  
  "Payload": "string",  
  "SessionId": "string",  
  "Type": "string"  
}
```

Request Parameters

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

The request accepts the following data in JSON format.

ClientRequestToken

A unique case-sensitive string used to ensure the request to create the notebook is idempotent (executes only once).

Important

This token is listed as not required because AWS SDKs (for example the AWS SDK for Java) auto-generate the token for you. If you are not using the AWS SDK or the AWS CLI, you must provide this token or the action will fail.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

Pattern: [a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}

Required: No

NotebookId

The ID of the notebook to update.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

Pattern: `[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}`

Required: Yes

Payload

The updated content for the notebook.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10485760.

Required: Yes

SessionId

The active notebook session ID. Required if the notebook has an active session.

Type: String

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

Required: No

Type

The notebook content type. Currently, the only valid type is IPYNB.

Type: String

Valid Values: IPYNB

Required: Yes

Response Elements

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

Errors

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

InternalServerError

Indicates a platform issue, which may be due to a transient condition or outage.

HTTP Status Code: 500

InvalidRequestException

Indicates that something is wrong with the input to the request. For example, a required parameter may be missing or out of range.

AthenaErrorCode

The error code returned when the query execution failed to process, or when the processing request for the named query failed.

HTTP Status Code: 400

TooManyRequestsException

Indicates that the request was throttled.

Reason

The reason for the query throttling, for example, when it exceeds the concurrent query limit.

HTTP Status Code: 400

See Also

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

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

- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

UpdateNotebookMetadata

Updates the metadata for a notebook.

Request Syntax

```
{  
  "ClientRequestToken": "string",  
  "Name": "string",  
  "NotebookId": "string"  
}
```

Request Parameters

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

The request accepts the following data in JSON format.

[ClientRequestToken](#)

A unique case-sensitive string used to ensure the request to create the notebook is idempotent (executes only once).

Important

This token is listed as not required because AWS SDKs (for example the AWS SDK for Java) auto-generate the token for you. If you are not using the AWS SDK or the AWS CLI, you must provide this token or the action will fail.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

Pattern: `[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}`

Required: No

[Name](#)

The name to update the notebook to.

Type: String

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

Pattern: (?!.*[/:\]\])[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]+

Required: Yes

NotebookId

The ID of the notebook to update the metadata for.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

Pattern: [a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}

Required: Yes

Response Elements

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

Errors

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

InternalServerException

Indicates a platform issue, which may be due to a transient condition or outage.

HTTP Status Code: 500

InvalidRequestException

Indicates that something is wrong with the input to the request. For example, a required parameter may be missing or out of range.

AthenaErrorCode

The error code returned when the query execution failed to process, or when the processing request for the named query failed.

HTTP Status Code: 400

TooManyRequestsException

Indicates that the request was throttled.

Reason

The reason for the query throttling, for example, when it exceeds the concurrent query limit.

HTTP Status Code: 400

See Also

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

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

UpdatePreparedStatement

Updates a prepared statement.

Request Syntax

```
{  
  "Description": "string",  
  "QueryStatement": "string",  
  "StatementName": "string",  
  "WorkGroup": "string"  
}
```

Request Parameters

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

The request accepts the following data in JSON format.

Description

The description of the prepared statement.

Type: String

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

Required: No

QueryStatement

The query string for the prepared statement.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 262144.

Required: Yes

StatementName

The name of the prepared statement.

Type: String

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

Pattern: `[a-zA-Z_][a-zA-Z0-9_@:]{1,256}`

Required: Yes

WorkGroup

The workgroup for the prepared statement.

Type: String

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

Required: Yes

Response Elements

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

Errors

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

InternalServerError

Indicates a platform issue, which may be due to a transient condition or outage.

HTTP Status Code: 500

InvalidRequestException

Indicates that something is wrong with the input to the request. For example, a required parameter may be missing or out of range.

AthenaErrorCode

The error code returned when the query execution failed to process, or when the processing request for the named query failed.

HTTP Status Code: 400

ResourceNotFoundException

A resource, such as a workgroup, was not found.

ResourceName

The name of the Amazon resource.

HTTP Status Code: 400

See Also

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

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

UpdateWorkGroup

Updates the workgroup with the specified name. The workgroup's name cannot be changed. Only ConfigurationUpdates can be specified.

Request Syntax

```
{
  "ConfigurationUpdates": {
    "AdditionalConfiguration": "string",
    "BytesScannedCutoffPerQuery": number,
    "CustomerContentEncryptionConfiguration": {
      "KmsKey": "string"
    },
    "EnableMinimumEncryptionConfiguration": boolean,
    "EnforceWorkGroupConfiguration": boolean,
    "EngineConfiguration": {
      "AdditionalConfigs": {
        "string" : "string"
      },
      "Classifications": [
        {
          "Name": "string",
          "Properties": {
            "string" : "string"
          }
        }
      ],
      "CoordinatorDpuSize": number,
      "DefaultExecutorDpuSize": number,
      "MaxConcurrentDpus": number,
      "SparkProperties": {
        "string" : "string"
      }
    },
    "EngineVersion": {
      "EffectiveEngineVersion": "string",
      "SelectedEngineVersion": "string"
    },
    "ExecutionRole": "string",
    "ManagedQueryResultsConfigurationUpdates": {
      "Enabled": boolean,
      "EncryptionConfiguration": {
```

```

    "KmsKey": "string"
  },
  "RemoveEncryptionConfiguration": boolean
},
"MonitoringConfiguration": {
  "CloudWatchLoggingConfiguration": {
    "Enabled": boolean,
    "LogGroup": "string",
    "LogStreamNamePrefix": "string",
    "LogTypes": {
      "string" : [ "string" ]
    }
  },
  "ManagedLoggingConfiguration": {
    "Enabled": boolean,
    "KmsKey": "string"
  },
  "S3LoggingConfiguration": {
    "Enabled": boolean,
    "KmsKey": "string",
    "LogLocation": "string"
  }
},
"PublishCloudWatchMetricsEnabled": boolean,
"QueryResultsS3AccessGrantsConfiguration": {
  "AuthenticationType": "string",
  "CreateUserLevelPrefix": boolean,
  "EnableS3AccessGrants": boolean
},
"RemoveBytesScannedCutoffPerQuery": boolean,
"RemoveCustomerContentEncryptionConfiguration": boolean,
"RequesterPaysEnabled": boolean,
"ResultConfigurationUpdates": {
  "AclConfiguration": {
    "S3AclOption": "string"
  },
  "EncryptionConfiguration": {
    "EncryptionOption": "string",
    "KmsKey": "string"
  },
  "ExpectedBucketOwner": "string",
  "OutputLocation": "string",
  "RemoveAclConfiguration": boolean,
  "RemoveEncryptionConfiguration": boolean,

```

```
    "RemoveExpectedBucketOwner": boolean,
    "RemoveOutputLocation": boolean
  },
  "Description": "string",
  "State": "string",
  "WorkGroup": "string"
}
```

Request Parameters

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

The request accepts the following data in JSON format.

[ConfigurationUpdates](#)

Contains configuration updates for an Athena SQL workgroup.

Type: [WorkGroupConfigurationUpdates](#) object

Required: No

[Description](#)

The workgroup description.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Required: No

[State](#)

The workgroup state that will be updated for the given workgroup.

Type: String

Valid Values: ENABLED | DISABLED

Required: No

[WorkGroup](#)

The specified workgroup that will be updated.

Type: String

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

Required: Yes

Response Elements

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

Errors

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

InternalServerError

Indicates a platform issue, which may be due to a transient condition or outage.

HTTP Status Code: 500

InvalidRequestException

Indicates that something is wrong with the input to the request. For example, a required parameter may be missing or out of range.

AthenaErrorCode

The error code returned when the query execution failed to process, or when the processing request for the named query failed.

HTTP Status Code: 400

See Also

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

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

- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

Data Types

The Amazon Athena 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:

- [AclConfiguration](#)
- [ApplicationDPUSizes](#)
- [AthenaError](#)
- [BatchGetNamedQueryInput](#)
- [BatchGetQueryExecutionInput](#)
- [CalculationConfiguration](#)
- [CalculationResult](#)
- [CalculationStatistics](#)
- [CalculationStatus](#)
- [CalculationSummary](#)
- [CapacityAllocation](#)
- [CapacityAssignment](#)
- [CapacityAssignmentConfiguration](#)
- [CapacityReservation](#)
- [Classification](#)
- [CloudWatchLoggingConfiguration](#)
- [Column](#)
- [ColumnInfo](#)
- [CustomerContentEncryptionConfiguration](#)
- [Database](#)

- [DataCatalog](#)
- [DataCatalogSummary](#)
- [Datum](#)
- [EncryptionConfiguration](#)
- [EngineConfiguration](#)
- [EngineVersion](#)
- [ExecutorsSummary](#)
- [FilterDefinition](#)
- [IdentityCenterConfiguration](#)
- [ListNamedQueriesInput](#)
- [ListQueryExecutionsInput](#)
- [ManagedLoggingConfiguration](#)
- [ManagedQueryResultsConfiguration](#)
- [ManagedQueryResultsConfigurationUpdates](#)
- [ManagedQueryResultsEncryptionConfiguration](#)
- [MonitoringConfiguration](#)
- [NamedQuery](#)
- [NotebookMetadata](#)
- [NotebookSessionSummary](#)
- [PreparedStatement](#)
- [PreparedStatementSummary](#)
- [QueryExecution](#)
- [QueryExecutionContext](#)
- [QueryExecutionStatistics](#)
- [QueryExecutionStatus](#)
- [QueryResultsS3AccessGrantsConfiguration](#)
- [QueryRuntimeStatistics](#)
- [QueryRuntimeStatisticsRows](#)
- [QueryRuntimeStatisticsTimeline](#)
- [QueryStage](#)

- [QueryStagePlanNode](#)
- [ResultConfiguration](#)
- [ResultConfigurationUpdates](#)
- [ResultReuseByAgeConfiguration](#)
- [ResultReuseConfiguration](#)
- [ResultReuseInformation](#)
- [ResultSet](#)
- [ResultSetMetadata](#)
- [Row](#)
- [S3LoggingConfiguration](#)
- [SessionConfiguration](#)
- [SessionStatistics](#)
- [SessionStatus](#)
- [SessionSummary](#)
- [TableMetadata](#)
- [Tag](#)
- [UnprocessedNamedQueryId](#)
- [UnprocessedPreparedStatementName](#)
- [UnprocessedQueryExecutionId](#)
- [WorkGroup](#)
- [WorkGroupConfiguration](#)
- [WorkGroupConfigurationUpdates](#)
- [WorkGroupSummary](#)

AclConfiguration

Indicates that an Amazon S3 canned ACL should be set to control ownership of stored query results, including data files inserted by Athena as the result of statements like CTAS or INSERT INTO. When Athena stores query results in Amazon S3, the canned ACL is set with the `x-amz-acl` request header. For more information about S3 Object Ownership, see [Object Ownership settings](#) in the *Amazon S3 User Guide*.

Contents

S3AclOption

The Amazon S3 canned ACL that Athena should specify when storing query results, including data files inserted by Athena as the result of statements like CTAS or INSERT INTO. Currently the only supported canned ACL is `BUCKET_OWNER_FULL_CONTROL`. If a query runs in a workgroup and the workgroup overrides client-side settings, then the Amazon S3 canned ACL specified in the workgroup's settings is used for all queries that run in the workgroup. For more information about Amazon S3 canned ACLs, see [Canned ACL](#) in the *Amazon S3 User Guide*.

Type: String

Valid Values: `BUCKET_OWNER_FULL_CONTROL`

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](#)

ApplicationDPUSizes

Contains the application runtime IDs and their supported DPU sizes.

Contents

ApplicationRuntimeId

The name of the supported application runtime (for example, Athena notebook version 1).

Type: String

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

Required: No

SupportedDPUSizes

A list of the supported DPU sizes that the application runtime supports.

Type: Array of integers

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](#)

AthenaError

Provides information about an Athena query error. The `AthenaError` feature provides standardized error information to help you understand failed queries and take steps after a query failure occurs. `AthenaError` includes an `ErrorCategory` field that specifies whether the cause of the failed query is due to system error, user error, or other error.

Contents

ErrorCategory

An integer value that specifies the category of a query failure error. The following list shows the category for each integer value.

1 - System

2 - User

3 - Other

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 3.

Required: No

ErrorMessage

Contains a short description of the error that occurred.

Type: String

Required: No

ErrorType

An integer value that provides specific information about an Athena query error. For the meaning of specific values, see the [Error Type Reference](#) in the *Amazon Athena User Guide*.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 9999.

Required: No

Retryable

True if the query might succeed if resubmitted.

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](#)

BatchGetNamedQueryInput

Contains an array of named query IDs.

Contents

NamedQueryIds

An array of query IDs.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 50 items.

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

Pattern: \S+

Required: Yes

See Also

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

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

BatchGetQueryExecutionInput

Contains an array of query execution IDs.

Contents

QueryExecutionIds

An array of query execution IDs.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 50 items.

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

Pattern: \S+

Required: Yes

See Also

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

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

CalculationConfiguration

Contains configuration information for the calculation.

Contents

CodeBlock

A string that contains the code for the calculation.

Type: String

Length Constraints: Maximum length of 68000.

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](#)

CalculationResult

Contains information about an application-specific calculation result.

Contents

ResultS3Uri

The Amazon S3 location of the folder for the calculation results.

Type: String

Length Constraints: Maximum length of 1024.

Pattern: `^(https|s3|S3):\/\/([^\/]+)/?(.*)$`

Required: No

ResultType

The data format of the calculation result.

Type: String

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

Pattern: `\w+\[/[-+.\w]+`

Required: No

StdErrorS3Uri

The Amazon S3 location of the `stderr` error messages file for the calculation.

Type: String

Length Constraints: Maximum length of 1024.

Pattern: `^(https|s3|S3):\/\/([^\/]+)/?(.*)$`

Required: No

StdOutS3Uri

The Amazon S3 location of the `stdout` file for the calculation.

Type: String

Length Constraints: Maximum length of 1024.

Pattern: `^(https|s3|S3)://[^(/]+)/?(.*)$`

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](#)

CalculationStatistics

Contains statistics for a notebook calculation.

Contents

DpuExecutionInMillis

The data processing unit execution time in milliseconds for the calculation.

Type: Long

Required: No

Progress

The progress of the calculation.

Type: String

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

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](#)

CalculationStatus

Contains information about the status of a notebook calculation.

Contents

CompletionDateTime

The date and time the calculation completed processing.

Type: Timestamp

Required: No

State

The state of the calculation execution. A description of each state follows.

CREATING - The calculation is in the process of being created.

CREATED - The calculation has been created and is ready to run.

QUEUED - The calculation has been queued for processing.

RUNNING - The calculation is running.

CANCELING - A request to cancel the calculation has been received and the system is working to stop it.

CANCELED - The calculation is no longer running as the result of a cancel request.

COMPLETED - The calculation has completed without error.

FAILED - The calculation failed and is no longer running.

Type: String

Valid Values: CREATING | CREATED | QUEUED | RUNNING | CANCELING | CANCELED | COMPLETED | FAILED

Required: No

StateChangeReason

The reason for the calculation state change (for example, the calculation was canceled because the session was terminated).

Type: String

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

Required: No

SubmissionDateTime

The date and time the calculation was submitted for processing.

Type: Timestamp

Required: No

See Also

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

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

CalculationSummary

Summary information for a notebook calculation.

Contents

CalculationExecutionId

The calculation execution UUID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

Required: No

Description

A description of the calculation.

Type: String

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

Required: No

Status

Contains information about the status of the calculation.

Type: [CalculationStatus](#) 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](#)

CapacityAllocation

Contains the submission time of a single allocation request for a capacity reservation and the most recent status of the attempted allocation.

Contents

RequestTime

The time when the capacity allocation was requested.

Type: Timestamp

Required: Yes

Status

The status of the capacity allocation.

Type: String

Valid Values: PENDING | SUCCEEDED | FAILED

Required: Yes

RequestCompletionTime

The time when the capacity allocation request was completed.

Type: Timestamp

Required: No

StatusMessage

The status message of the capacity allocation.

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](#)

CapacityAssignment

A mapping between one or more workgroups and a capacity reservation.

Contents

WorkGroupNames

The list of workgroup names for the capacity assignment.

Type: Array of strings

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

Required: No

See Also

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

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

CapacityAssignmentConfiguration

Assigns Athena workgroups (and hence their queries) to capacity reservations. A capacity reservation can have only one capacity assignment configuration, but the capacity assignment configuration can be made up of multiple individual assignments. Each assignment specifies how Athena queries can consume capacity from the capacity reservation that their workgroup is mapped to.

Contents

CapacityAssignments

The list of assignments that make up the capacity assignment configuration.

Type: Array of [CapacityAssignment](#) objects

Required: No

CapacityReservationName

The name of the reservation that the capacity assignment configuration is for.

Type: String

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

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](#)

CapacityReservation

A reservation for a specified number of data processing units (DPUs). When a reservation is initially created, it has no DPUs. Athena allocates DPUs until the allocated amount equals the requested amount.

Contents

AllocatedDpus

The number of data processing units currently allocated.

Type: Integer

Valid Range: Minimum value of 0.

Required: Yes

CreationTime

The time in UTC epoch millis when the capacity reservation was created.

Type: Timestamp

Required: Yes

Name

The name of the capacity reservation.

Type: String

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

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

Required: Yes

Status

The status of the capacity reservation.

Type: String

Valid Values: PENDING | ACTIVE | CANCELLING | CANCELLED | FAILED |
UPDATE_PENDING

Required: Yes

TargetDpus

The number of data processing units requested.

Type: Integer

Valid Range: Minimum value of 4.

Required: Yes

LastAllocation

Contains the submission time of a single allocation request for a capacity reservation and the most recent status of the attempted allocation.

Type: [CapacityAllocation](#) object

Required: No

LastSuccessfulAllocationTime

The time of the most recent capacity allocation that succeeded.

Type: Timestamp

Required: No

See Also

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

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

Classification

A classification refers to a set of specific configurations.

Contents

Name

The name of the configuration classification.

Type: String

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

Required: No

Properties

A set of properties specified within a configuration classification.

Type: String to string map

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

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

Value Length Constraints: Maximum length of 51200.

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](#)

CloudWatchLoggingConfiguration

Configuration settings for delivering logs to Amazon CloudWatch log groups.

Contents

Enabled

Enables CloudWatch logging.

Type: Boolean

Required: Yes

LogGroup

The name of the log group in Amazon CloudWatch Logs where you want to publish your logs.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

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

Required: No

LogStreamNamePrefix

Prefix for the CloudWatch log stream name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Pattern: `^[^:]*$`

Required: No

LogTypes

The types of logs that you want to publish to CloudWatch.

Type: String to array of strings map

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](#)

Column

Contains metadata for a column in a table.

Contents

Name

The name of the column.

Type: String

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

Required: Yes

Comment

Optional information about the column.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

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

Required: No

Type

The data type of the column.

Type: String

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

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

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](#)

ColumnInfo

Information about the columns in a query execution result.

Contents

Name

The name of the column.

Type: String

Required: Yes

Type

The data type of the column.

Type: String

Required: Yes

CaseSensitive

Indicates whether values in the column are case-sensitive.

Type: Boolean

Required: No

CatalogName

The catalog to which the query results belong.

Type: String

Required: No

Label

A column label.

Type: String

Required: No

Nullable

Unsupported constraint. This value always shows as UNKNOWN.

Type: String

Valid Values: NOT_NULL | NULLABLE | UNKNOWN

Required: No

Precision

For DECIMAL data types, specifies the total number of digits, up to 38. For performance reasons, we recommend up to 18 digits.

Type: Integer

Required: No

Scale

For DECIMAL data types, specifies the total number of digits in the fractional part of the value. Defaults to 0.

Type: Integer

Required: No

SchemaName

The schema name (database name) to which the query results belong.

Type: String

Required: No

TableName

The table name for the query results.

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](#)

CustomerContentEncryptionConfiguration

Specifies the customer managed KMS key that is used to encrypt the user's data stores in Athena. When an AWS managed key is used, this value is null. This setting does not apply to Athena SQL workgroups.

Contents

KmsKey

The customer managed KMS key that is used to encrypt the user's data stores in Athena.

Type: String

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

Pattern: `^arn:aws[a-z\-]*:kms:([a-z0-9\-]+):\d{12}:key/?[a-zA-Z_0-9+=,.\@\_/_]+$|^arn:aws[a-z\-]*:kms:([a-z0-9\-]+):\d{12}:alias/?[a-zA-Z_0-9+=,.\@\_/_]+$|^alias/[a-zA-Z_0-9/_-]+$|^[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}$`

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](#)

Database

Contains metadata information for a database in a data catalog.

Contents

Name

The name of the database.

Type: String

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

Required: Yes

Description

An optional description of the database.

Type: String

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

Required: No

Parameters

A set of custom key/value pairs.

Type: String to string map

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

Key Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Value Length Constraints: Maximum length of 51200.

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](#)

DataCatalog

Contains information about a data catalog in an AWS account.

Note

In the Athena console, data catalogs are listed as "data sources" on the **Data sources** page under the **Data source name** column.

Contents

Name

The name of the data catalog. The catalog name must be unique for the AWS account and can use a maximum of 127 alphanumeric, underscore, at sign, or hyphen characters. The remainder of the length constraint of 256 is reserved for use by Athena.

Type: String

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

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

Required: Yes

Type

The type of data catalog to create: LAMBDA for a federated catalog, GLUE for an AWS Glue Data Catalog, and HIVE for an external Apache Hive metastore. FEDERATED is a federated catalog for which Athena creates the connection and the Lambda function for you based on the parameters that you pass.

Type: String

Valid Values: LAMBDA | GLUE | HIVE | FEDERATED

Required: Yes

ConnectionType

The type of connection for a FEDERATED data catalog (for example, REDSHIFT, MYSQL, or SQLSERVER). For information about individual connectors, see [Available data source connectors](#).

Type: String

Valid Values: DYNAMODB | MYSQL | POSTGRESQL | REDSHIFT | ORACLE | SYNAPSE | SQLSERVER | DB2 | OPENSEARCH | BIGQUERY | GOOGLECLOUDSTORAGE | HBASE | DOCUMENTDB | CMDB | TPCDS | TIMESTREAM | SAPHANA | SNOWFLAKE | DATA LAKE GEN2 | DB2 AS400

Required: No

Description

An optional description of the data catalog.

Type: String

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

Required: No

Error

Text of the error that occurred during data catalog creation or deletion.

Type: String

Required: No

Parameters

Specifies the Lambda function or functions to use for the data catalog. This is a mapping whose values depend on the catalog type.

- For the HIVE data catalog type, use the following syntax. The `metadata-function` parameter is required. The `sdk-version` parameter is optional and defaults to the currently supported version.

`metadata-function=`*lambda_arn*`, sdk-version=`*version_number*

- For the LAMBDA data catalog type, use one of the following sets of required parameters, but not both.

- If you have one Lambda function that processes metadata and another for reading the actual data, use the following syntax. Both parameters are required.

```
metadata-function=lambda_arn, record-function=lambda_arn
```

- If you have a composite Lambda function that processes both metadata and data, use the following syntax to specify your Lambda function.

```
function=lambda_arn
```

- The GLUE type takes a catalog ID parameter and is required. The *catalog_id* is the account ID of the AWS account to which the AWS Glue catalog belongs.

```
catalog-id=catalog_id
```

- The GLUE data catalog type also applies to the default AwsDataCatalog that already exists in your account, of which you can have only one and cannot modify.
- The FEDERATED data catalog type uses one of the following parameters, but not both. Use *connection-arn* for an existing AWS Glue connection. Use *connection-type* and *connection-properties* to specify the configuration setting for a new connection.
 - *connection-arn*:<*glue_connection_arn_to_reuse*>
 - *connection-type*:MYSQL|REDSHIFT|..., *connection-properties*: "<*json_string*>"

For <*json_string*>, use escaped JSON text, as in the following example.

```
"{"spill_bucket\":"my_spill","\spill_prefix\":"athena-spill","\host\":"abc12345.snowflakecomputing.com","\port\":"1234","\warehouse\":"DEV_WH","\database\":"TEST","\schema\":"PUBLIC","\SecretArn\":"arn:aws:secretsmanager:ap-south-1:111122223333:secret:snowflake-XHb67j\"}"
```

Type: String to string map

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

Key Pattern: [0020-D7FFE000-FFFFD800DC00-DBFFDFFFt]*

Value Length Constraints: Maximum length of 51200.

Required: No

Status

The status of the creation or deletion of the data catalog.

- The LAMBDA, GLUE, and HIVE data catalog types are created synchronously. Their status is either `CREATE_COMPLETE` or `CREATE_FAILED`.
- The FEDERATED data catalog type is created asynchronously.

Data catalog creation status:

- `CREATE_IN_PROGRESS`: Federated data catalog creation in progress.
- `CREATE_COMPLETE`: Data catalog creation complete.
- `CREATE_FAILED`: Data catalog could not be created.
- `CREATE_FAILED_CLEANUP_IN_PROGRESS`: Federated data catalog creation failed and is being removed.
- `CREATE_FAILED_CLEANUP_COMPLETE`: Federated data catalog creation failed and was removed.
- `CREATE_FAILED_CLEANUP_FAILED`: Federated data catalog creation failed but could not be removed.

Data catalog deletion status:

- `DELETE_IN_PROGRESS`: Federated data catalog deletion in progress.
- `DELETE_COMPLETE`: Federated data catalog deleted.
- `DELETE_FAILED`: Federated data catalog could not be deleted.

Type: String

Valid Values: `CREATE_IN_PROGRESS` | `CREATE_COMPLETE` | `CREATE_FAILED` | `CREATE_FAILED_CLEANUP_IN_PROGRESS` | `CREATE_FAILED_CLEANUP_COMPLETE` | `CREATE_FAILED_CLEANUP_FAILED` | `DELETE_IN_PROGRESS` | `DELETE_COMPLETE` | `DELETE_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](#)

DataCatalogSummary

The summary information for the data catalog, which includes its name and type.

Contents

CatalogName

The name of the data catalog. The catalog name is unique for the AWS account and can use a maximum of 127 alphanumeric, underscore, at sign, or hyphen characters. The remainder of the length constraint of 256 is reserved for use by Athena.

Type: String

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

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

Required: No

ConnectionType

The type of connection for a FEDERATED data catalog (for example, REDSHIFT, MYSQL, or SQLSERVER). For information about individual connectors, see [Available data source connectors](#).

Type: String

Valid Values: DYNAMODB | MYSQL | POSTGRESQL | REDSHIFT | ORACLE | SYNAPSE | SQLSERVER | DB2 | OPENSEARCH | BIGQUERY | GOOGLECLOUDSTORAGE | HBASE | DOCUMENTDB | CMDB | TPCDS | TIMESTREAM | SAPHANA | SNOWFLAKE | DATA LAKE GEN2 | DB2 AS400

Required: No

Error

Text of the error that occurred during data catalog creation or deletion.

Type: String

Required: No

Status

The status of the creation or deletion of the data catalog.

- The LAMBDA, GLUE, and HIVE data catalog types are created synchronously. Their status is either `CREATE_COMPLETE` or `CREATE_FAILED`.
- The `FEDERATED` data catalog type is created asynchronously.

Data catalog creation status:

- `CREATE_IN_PROGRESS`: Federated data catalog creation in progress.
- `CREATE_COMPLETE`: Data catalog creation complete.
- `CREATE_FAILED`: Data catalog could not be created.
- `CREATE_FAILED_CLEANUP_IN_PROGRESS`: Federated data catalog creation failed and is being removed.
- `CREATE_FAILED_CLEANUP_COMPLETE`: Federated data catalog creation failed and was removed.
- `CREATE_FAILED_CLEANUP_FAILED`: Federated data catalog creation failed but could not be removed.

Data catalog deletion status:

- `DELETE_IN_PROGRESS`: Federated data catalog deletion in progress.
- `DELETE_COMPLETE`: Federated data catalog deleted.
- `DELETE_FAILED`: Federated data catalog could not be deleted.

Type: String

Valid Values: `CREATE_IN_PROGRESS` | `CREATE_COMPLETE` | `CREATE_FAILED` | `CREATE_FAILED_CLEANUP_IN_PROGRESS` | `CREATE_FAILED_CLEANUP_COMPLETE` | `CREATE_FAILED_CLEANUP_FAILED` | `DELETE_IN_PROGRESS` | `DELETE_COMPLETE` | `DELETE_FAILED`

Required: No

Type

The data catalog type.

Type: String

Valid Values: LAMBDA | GLUE | HIVE | FEDERATED

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](#)

Datum

A piece of data (a field in the table).

Contents

VarCharValue

The value of the datum.

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](#)

EncryptionConfiguration

If query and calculation results are encrypted in Amazon S3, indicates the encryption option used (for example, SSE_KMS or CSE_KMS) and key information.

Contents

EncryptionOption

Indicates whether Amazon S3 server-side encryption with Amazon S3-managed keys (SSE_S3), server-side encryption with KMS-managed keys (SSE_KMS), or client-side encryption with KMS-managed keys (CSE_KMS) is used.

If a query runs in a workgroup and the workgroup overrides client-side settings, then the workgroup's setting for encryption is used. It specifies whether query results must be encrypted, for all queries that run in this workgroup.

Type: String

Valid Values: SSE_S3 | SSE_KMS | CSE_KMS

Required: Yes

KmsKey

For SSE_KMS and CSE_KMS, this is the KMS key ARN or ID.

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](#)

EngineConfiguration

The engine configuration for the workgroup, which includes the minimum/maximum number of Data Processing Units (DPU) that queries should use when running in provisioned capacity. If not specified, Athena uses default values (Default value for min is 4 and for max is Minimum of 124 and allocated DPUs).

To specify DPU values for PC queries the WG containing EngineConfiguration should have the following values: The name of the Classifications should be `athena-query-engine-properties`, with the only allowed properties as `max-dpu-count` and `min-dpu-count`.

Contents

AdditionalConfigs

Contains additional notebook engine MAP<string, string> parameter mappings in the form of key-value pairs. To specify an Athena notebook that the Jupyter server will download and serve, specify a value for the [StartSession:NotebookVersion](#) field, and then add a key named `NotebookId` to `AdditionalConfigs` that has the value of the Athena notebook ID.

Type: String to string map

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

Key Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]*`

Value Length Constraints: Maximum length of 51200.

Required: No

Classifications

The configuration classifications that can be specified for the engine.

Type: Array of [Classification](#) objects

Required: No

CoordinatorDpuSize

The number of DPUs to use for the coordinator. A coordinator is a special executor that orchestrates processing work and manages other executors in a notebook session. The default is 1.

Type: Integer

Valid Range: Fixed value of 1.

Required: No

DefaultExecutorDpuSize

The default number of DPUs to use for executors. An executor is the smallest unit of compute that a notebook session can request from Athena. The default is 1.

Type: Integer

Valid Range: Fixed value of 1.

Required: No

MaxConcurrentDpus

The maximum number of DPUs that can run concurrently.

Type: Integer

Valid Range: Minimum value of 2. Maximum value of 5000.

Required: No

SparkProperties

Specifies custom jar files and Spark properties for use cases like cluster encryption, table formats, and general Spark tuning.

Type: String to string map

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

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

Value Length Constraints: Maximum length of 51200.

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](#)

EngineVersion

The Athena engine version for running queries, or the PySpark engine version for running sessions.

Contents

EffectiveEngineVersion

Read only. The engine version on which the query runs. If the user requests a valid engine version other than Auto, the effective engine version is the same as the engine version that the user requested. If the user requests Auto, the effective engine version is chosen by Athena. When a request to update the engine version is made by a `CreateWorkGroup` or `UpdateWorkGroup` operation, the `EffectiveEngineVersion` field is ignored.

Type: String

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

Required: No

SelectedEngineVersion

The engine version requested by the user. Possible values are determined by the output of `ListEngineVersions`, including AUTO. The default is AUTO.

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](#)

ExecutorsSummary

Contains summary information about an executor.

Contents

ExecutorId

The UUID of the executor.

Type: String

Length Constraints: Maximum length of 100000.

Pattern: .*

Required: Yes

ExecutorSize

The smallest unit of compute that a session can request from Athena. Size is measured in data processing unit (DPU) values, a relative measure of processing power.

Type: Long

Required: No

ExecutorState

The processing state of the executor. A description of each state follows.

CREATING - The executor is being started, including acquiring resources.

CREATED - The executor has been started.

REGISTERED - The executor has been registered.

TERMINATING - The executor is in the process of shutting down.

TERMINATED - The executor is no longer running.

FAILED - Due to a failure, the executor is no longer running.

Type: String

Valid Values: CREATING | CREATED | REGISTERED | TERMINATING | TERMINATED | FAILED

Required: No

ExecutorType

The type of executor used for the application (COORDINATOR, GATEWAY, or WORKER).

Type: String

Valid Values: COORDINATOR | GATEWAY | WORKER

Required: No

StartDateTime

The date and time that the executor started.

Type: Long

Required: No

TerminationDateTime

The date and time that the executor was terminated.

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](#)

FilterDefinition

A string for searching notebook names.

Contents

Name

The name of the notebook to search for.

Type: String

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

Pattern: `(?!.*[/:\])[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDC00-\uDBFF\uDFFF\t]+`

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](#)

IdentityCenterConfiguration

Specifies whether the workgroup is IAM Identity Center supported.

Contents

EnableIdentityCenter

Specifies whether the workgroup is IAM Identity Center supported.

Type: Boolean

Required: No

IdentityCenterInstanceArn

The IAM Identity Center instance ARN that the workgroup associates to.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `^arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):sso:::instance/(sso)?ins-[a-zA-Z0-9-.]{16}$`

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](#)

ListNamedQueriesInput

Contents

MaxResults

The maximum number of queries to return in this request.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 50.

Required: No

NextToken

A token generated by the Athena service that specifies where to continue pagination if a previous request was truncated. To obtain the next set of pages, pass in the NextToken from the response object of the previous page call.

Type: String

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

Required: No

WorkGroup

The name of the workgroup from which the named queries are being returned. If a workgroup is not specified, the saved queries for the primary workgroup are returned.

Type: String

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

Required: No

See Also

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

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

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

ListQueryExecutionsInput

Contents

MaxResults

The maximum number of query executions to return in this request.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 50.

Required: No

NextToken

A token generated by the Athena service that specifies where to continue pagination if a previous request was truncated. To obtain the next set of pages, pass in the NextToken from the response object of the previous page call.

Type: String

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

Required: No

WorkGroup

The name of the workgroup from which queries are being returned. If a workgroup is not specified, a list of available query execution IDs for the queries in the primary workgroup is returned.

Type: String

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

Required: No

See Also

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

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

ManagedLoggingConfiguration

Configuration settings for delivering logs to Amazon S3 buckets.

Contents

Enabled

Enables managed log persistence.

Type: Boolean

Required: Yes

KmsKey

The KMS key ARN to encrypt the logs stored in managed log persistence.

Type: String

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

Pattern: `^arn:aws[a-z\-\-]*:kms:([a-z0-9\-\-]):\d{12}:key/?[a-zA-Z_0-9+=,.\@-\_/_]+$|^arn:aws[a-z\-\-]*:kms:([a-z0-9\-\-]):\d{12}:alias/?[a-zA-Z_0-9+=,.\@-\_/_]+$|^alias/[a-zA-Z_0-9/_-\-]+$|^[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}`

Required: No

See Also

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

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

ManagedQueryResultsConfiguration

The configuration for storing results in Athena owned storage, which includes whether this feature is enabled; whether encryption configuration, if any, is used for encrypting query results.

Contents

Enabled

If set to true, allows you to store query results in Athena owned storage. If set to false, workgroup member stores query results in location specified under `ResultConfiguration$OutputLocation`. The default is false. A workgroup cannot have the `ResultConfiguration$OutputLocation` parameter when you set this field to true.

Type: Boolean

Required: Yes

EncryptionConfiguration

If you encrypt query and calculation results in Athena owned storage, this field indicates the encryption option (for example, SSE_KMS or CSE_KMS) and key information.

Type: [ManagedQueryResultsEncryptionConfiguration](#) 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](#)

ManagedQueryResultsConfigurationUpdates

Updates the configuration for managed query results.

Contents

Enabled

If set to true, specifies that Athena manages query results in Athena owned storage.

Type: Boolean

Required: No

EncryptionConfiguration

If you encrypt query and calculation results in Athena owned storage, this field indicates the encryption option (for example, SSE_KMS or CSE_KMS) and key information.

Type: [ManagedQueryResultsEncryptionConfiguration](#) object

Required: No

RemoveEncryptionConfiguration

If set to true, it removes workgroup from Athena owned storage. The existing query results are cleaned up after 24hrs. You must provide query results in location specified under `ResultConfiguration$OutputLocation`.

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](#)

ManagedQueryResultsEncryptionConfiguration

If you encrypt query and calculation results in Athena owned storage, this field indicates the encryption option (for example, SSE_KMS or CSE_KMS) and key information.

Contents

KmsKey

The ARN of an AWS KMS key for encrypting managed query results.

Type: String

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

Pattern: `^arn:aws[a-z\-\-]*:kms:([a-z0-9\-\-]+):\d{12}:key/(?[a-zA-Z_0-9+=,.\@-\_/\-]+)$|^arn:aws[a-z\-\-]*:kms:([a-z0-9\-\-]+):\d{12}:alias/(?[a-zA-Z_0-9+=,.\@-\_/\-]+)$|^alias/[a-zA-Z_0-9/\_-\-]+$|^[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}`

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](#)

MonitoringConfiguration

Contains the configuration settings for managed log persistence, delivering logs to Amazon S3 buckets, Amazon CloudWatch log groups etc.

Contents

CloudWatchLoggingConfiguration

Configuration settings for delivering logs to Amazon CloudWatch log groups.

Type: [CloudWatchLoggingConfiguration](#) object

Required: No

ManagedLoggingConfiguration

Configuration settings for managed log persistence.

Type: [ManagedLoggingConfiguration](#) object

Required: No

S3LoggingConfiguration

Configuration settings for delivering logs to Amazon S3 buckets.

Type: [S3LoggingConfiguration](#) 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](#)

NamedQuery

A query, where `QueryString` contains the SQL statements that make up the query.

Contents

Database

The database to which the query belongs.

Type: String

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

Required: Yes

Name

The query name.

Type: String

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

Required: Yes

QueryString

The SQL statements that make up the query.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 262144.

Required: Yes

Description

The query description.

Type: String

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

Required: No

NamedQueryId

The unique identifier of the query.

Type: String

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

Pattern: \S+

Required: No

WorkGroup

The name of the workgroup that contains the named query.

Type: String

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

Required: No

See Also

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

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

NotebookMetadata

Contains metadata for notebook, including the notebook name, ID, workgroup, and time created.

Contents

CreationTime

The time when the notebook was created.

Type: Timestamp

Required: No

LastModifiedTime

The time when the notebook was last modified.

Type: Timestamp

Required: No

Name

The name of the notebook.

Type: String

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

Pattern: `(?!.*[/:\])[\u0020-\uD7FF\uE000-\uFFFF\uD800\uDC00-\uDBFF\uDFFF\t]+`

Required: No

NotebookId

The notebook ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

Pattern: `[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}`

Required: No

Type

The type of notebook. Currently, the only valid type is IPYNB.

Type: String

Valid Values: IPYNB

Required: No

WorkGroup

The name of the Spark enabled workgroup to which the notebook belongs.

Type: String

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

Required: No

See Also

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

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

NotebookSessionSummary

Contains the notebook session ID and notebook session creation time.

Contents

CreationTime

The time when the notebook session was created.

Type: Timestamp

Required: No

SessionId

The notebook session ID.

Type: String

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

Required: No

See Also

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

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

PreparedStatement

A prepared SQL statement for use with Athena.

Contents

Description

The description of the prepared statement.

Type: String

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

Required: No

LastModifiedTime

The last modified time of the prepared statement.

Type: Timestamp

Required: No

QueryStatement

The query string for the prepared statement.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 262144.

Required: No

StatementName

The name of the prepared statement.

Type: String

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

Pattern: `[a-zA-Z_][a-zA-Z0-9_@:]{1,256}`

Required: No

WorkGroupName

The name of the workgroup to which the prepared statement belongs.

Type: String

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

Required: No

See Also

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

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

PreparedStatementSummary

The name and last modified time of the prepared statement.

Contents

LastModifiedTime

The last modified time of the prepared statement.

Type: Timestamp

Required: No

StatementName

The name of the prepared statement.

Type: String

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

Pattern: `[a-zA-Z_][a-zA-Z0-9_@:]{1,256}`

Required: No

See Also

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

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

QueryExecution

Information about a single instance of a query execution.

Contents

EngineVersion

The engine version that executed the query.

Type: [EngineVersion](#) object

Required: No

ExecutionParameters

A list of values for the parameters in a query. The values are applied sequentially to the parameters in the query in the order in which the parameters occur. The list of parameters is not returned in the response.

Type: Array of strings

Array Members: Minimum number of 1 item.

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

Required: No

ManagedQueryResultsConfiguration

The configuration for storing results in Athena owned storage, which includes whether this feature is enabled; whether encryption configuration, if any, is used for encrypting query results.

Type: [ManagedQueryResultsConfiguration](#) object

Required: No

Query

The SQL query statements which the query execution ran.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 262144.

Required: No

QueryExecutionContext

The database in which the query execution occurred.

Type: [QueryExecutionContext](#) object

Required: No

QueryExecutionId

The unique identifier for each query execution.

Type: String

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

Pattern: \S+

Required: No

QueryResultsS3AccessGrantsConfiguration

Specifies whether Amazon S3 access grants are enabled for query results.

Type: [QueryResultsS3AccessGrantsConfiguration](#) object

Required: No

ResultConfiguration

The location in Amazon S3 where query and calculation results are stored and the encryption option, if any, used for query results. These are known as "client-side settings". If workgroup settings override client-side settings, then the query uses the location for the query results and the encryption configuration that are specified for the workgroup.

Type: [ResultConfiguration](#) object

Required: No

ResultReuseConfiguration

Specifies the query result reuse behavior that was used for the query.

Type: [ResultReuseConfiguration](#) object

Required: No

StatementType

The type of query statement that was run. DDL indicates DDL query statements. DML indicates DML (Data Manipulation Language) query statements, such as `CREATE TABLE AS SELECT`. UTILITY indicates query statements other than DDL and DML, such as `SHOW CREATE TABLE`, `EXPLAIN`, `DESCRIBE`, or `SHOW TABLES`.

Type: String

Valid Values: DDL | DML | UTILITY

Required: No

Statistics

Query execution statistics, such as the amount of data scanned, the amount of time that the query took to process, and the type of statement that was run.

Type: [QueryExecutionStatistics](#) object

Required: No

Status

The completion date, current state, submission time, and state change reason (if applicable) for the query execution.

Type: [QueryExecutionStatus](#) object

Required: No

SubstatementType

The kind of query statement that was run.

Type: String

Required: No

WorkGroup

The name of the workgroup in which the query ran.

Type: String

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

Required: No

See Also

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

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

QueryExecutionContext

The database and data catalog context in which the query execution occurs.

Contents

Catalog

The name of the data catalog used in the query execution.

Type: String

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

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

Required: No

Database

The name of the database used in the query execution. The database must exist in the catalog.

Type: String

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

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](#)

QueryExecutionStatistics

The amount of data scanned during the query execution and the amount of time that it took to execute, and the type of statement that was run.

Contents

DataManifestLocation

The location and file name of a data manifest file. The manifest file is saved to the Athena query results location in Amazon S3. The manifest file tracks files that the query wrote to Amazon S3. If the query fails, the manifest file also tracks files that the query intended to write. The manifest is useful for identifying orphaned files resulting from a failed query. For more information, see [Working with Query Results, Output Files, and Query History](#) in the *Amazon Athena User Guide*.

Type: String

Required: No

DataScannedInBytes

The number of bytes in the data that was queried.

Type: Long

Required: No

DpuCount

The number of Data Processing Units (DPUs) that Athena used to run the query.

Type: Double

Required: No

EngineExecutionTimeInMillis

The number of milliseconds that the query took to execute.

Type: Long

Required: No

QueryPlanningTimeInMillis

The number of milliseconds that Athena took to plan the query processing flow. This includes the time spent retrieving table partitions from the data source. Note that because the query engine performs the query planning, query planning time is a subset of engine processing time.

Type: Long

Required: No

QueryQueueTimeInMillis

The number of milliseconds that the query was in your query queue waiting for resources. Note that if transient errors occur, Athena might automatically add the query back to the queue.

Type: Long

Required: No

ResultReuseInformation

Contains information about whether previous query results were reused for the query.

Type: [ResultReuseInformation](#) object

Required: No

ServicePreProcessingTimeInMillis

The number of milliseconds that Athena took to preprocess the query before submitting the query to the query engine.

Type: Long

Required: No

ServiceProcessingTimeInMillis

The number of milliseconds that Athena took to finalize and publish the query results after the query engine finished running the query.

Type: Long

Required: No

TotalExecutionTimeInMillis

The number of milliseconds that Athena took to run the query.

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](#)

QueryExecutionStatus

The completion date, current state, submission time, and state change reason (if applicable) for the query execution.

Contents

AthenaError

Provides information about an Athena query error.

Type: [AthenaError](#) object

Required: No

CompletionDateTime

The date and time that the query completed.

Type: Timestamp

Required: No

State

The state of query execution. QUEUED indicates that the query has been submitted to the service, and Athena will execute the query as soon as resources are available. RUNNING indicates that the query is in execution phase. SUCCEEDED indicates that the query completed without errors. FAILED indicates that the query experienced an error and did not complete processing. CANCELLED indicates that a user input interrupted query execution.

Note

For queries that experience certain transient errors, the state transitions from RUNNING back to QUEUED. The FAILED state is always terminal with no automatic retry.

Type: String

Valid Values: QUEUED | RUNNING | SUCCEEDED | FAILED | CANCELLED

Required: No

StateChangeReason

Further detail about the status of the query.

Type: String

Required: No

SubmissionDateTime

The date and time that the query was submitted.

Type: Timestamp

Required: No

See Also

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

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

QueryResultsS3AccessGrantsConfiguration

Specifies whether Amazon S3 access grants are enabled for query results.

Contents

AuthenticationType

The authentication type used for Amazon S3 access grants. Currently, only `DIRECTORY_IDENTITY` is supported.

Type: String

Valid Values: `DIRECTORY_IDENTITY`

Required: Yes

EnableS3AccessGrants

Specifies whether Amazon S3 access grants are enabled for query results.

Type: Boolean

Required: Yes

CreateUserLevelPrefix

When enabled, appends the user ID as an Amazon S3 path prefix to the query result output location.

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](#)

QueryRuntimeStatistics

The query execution timeline, statistics on input and output rows and bytes, and the different query stages that form the query execution plan.

Contents

OutputStage

Stage statistics such as input and output rows and bytes, execution time, and stage state. This information also includes substages and the query stage plan.

Type: [QueryStage](#) object

Required: No

Rows

Statistics such as input rows and bytes read by the query, rows and bytes output by the query, and the number of rows written by the query.

Type: [QueryRuntimeStatisticsRows](#) object

Required: No

Timeline

Timeline statistics such as query queue time, planning time, execution time, service processing time, and total execution time.

Type: [QueryRuntimeStatisticsTimeline](#) 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](#)

QueryRuntimeStatisticsRows

Statistics such as input rows and bytes read by the query, rows and bytes output by the query, and the number of rows written by the query.

Contents

InputBytes

The number of bytes read to execute the query.

Type: Long

Required: No

InputRows

The number of rows read to execute the query.

Type: Long

Required: No

OutputBytes

The number of bytes returned by the query.

Type: Long

Required: No

OutputRows

The number of rows returned by the query.

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](#)

QueryRuntimeStatisticsTimeline

Timeline statistics such as query queue time, planning time, execution time, service processing time, and total execution time.

Contents

EngineExecutionTimeInMillis

The number of milliseconds that the query took to execute.

Type: Long

Required: No

QueryPlanningTimeInMillis

The number of milliseconds that Athena took to plan the query processing flow. This includes the time spent retrieving table partitions from the data source. Note that because the query engine performs the query planning, query planning time is a subset of engine processing time.

Type: Long

Required: No

QueryQueueTimeInMillis

The number of milliseconds that the query was in your query queue waiting for resources. Note that if transient errors occur, Athena might automatically add the query back to the queue.

Type: Long

Required: No

ServicePreProcessingTimeInMillis

The number of milliseconds that Athena spends on preprocessing before it submits the query to the engine.

Type: Long

Required: No

ServiceProcessingTimeInMillis

The number of milliseconds that Athena took to finalize and publish the query results after the query engine finished running the query.

Type: Long

Required: No

TotalExecutionTimeInMillis

The number of milliseconds that Athena took to run the query.

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](#)

QueryStage

Stage statistics such as input and output rows and bytes, execution time and stage state. This information also includes substages and the query stage plan.

Contents

ExecutionTime

Time taken to execute this stage.

Type: Long

Required: No

InputBytes

The number of bytes input into the stage for execution.

Type: Long

Required: No

InputRows

The number of rows input into the stage for execution.

Type: Long

Required: No

OutputBytes

The number of bytes output from the stage after execution.

Type: Long

Required: No

OutputRows

The number of rows output from the stage after execution.

Type: Long

Required: No

QueryStagePlan

Stage plan information such as name, identifier, sub plans, and source stages.

Type: [QueryStagePlanNode](#) object

Required: No

StageId

The identifier for a stage.

Type: Long

Required: No

State

State of the stage after query execution.

Type: String

Required: No

SubStages

List of sub query stages that form this stage execution plan.

Type: Array of [QueryStage](#) objects

Required: No

See Also

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

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

QueryStagePlanNode

Stage plan information such as name, identifier, sub plans, and remote sources.

Contents

Children

Stage plan information such as name, identifier, sub plans, and remote sources of child plan nodes/

Type: Array of [QueryStagePlanNode](#) objects

Required: No

Identifier

Information about the operation this query stage plan node is performing.

Type: String

Required: No

Name

Name of the query stage plan that describes the operation this stage is performing as part of query execution.

Type: String

Required: No

RemoteSources

Source plan node IDs.

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](#)

ResultConfiguration

The location in Amazon S3 where query and calculation results are stored and the encryption option, if any, used for query and calculation results. These are known as "client-side settings". If workgroup settings override client-side settings, then the query uses the workgroup settings.

Contents

AclConfiguration

Indicates that an Amazon S3 canned ACL should be set to control ownership of stored query results. Currently the only supported canned ACL is `BUCKET_OWNER_FULL_CONTROL`. This is a client-side setting. If workgroup settings override client-side settings, then the query uses the ACL configuration that is specified for the workgroup, and also uses the location for storing query results specified in the workgroup. For more information, see [WorkGroupConfiguration:EnforceWorkGroupConfiguration](#) and [Workgroup Settings Override Client-Side Settings](#).

Type: [AclConfiguration](#) object

Required: No

EncryptionConfiguration

If query and calculation results are encrypted in Amazon S3, indicates the encryption option used (for example, `SSE_KMS` or `CSE_KMS`) and key information. This is a client-side setting. If workgroup settings override client-side settings, then the query uses the encryption configuration that is specified for the workgroup, and also uses the location for storing query results specified in the workgroup. See [WorkGroupConfiguration:EnforceWorkGroupConfiguration](#) and [Workgroup Settings Override Client-Side Settings](#).

Type: [EncryptionConfiguration](#) object

Required: No

ExpectedBucketOwner

The AWS account ID that you expect to be the owner of the Amazon S3 bucket specified by [ResultConfiguration:OutputLocation](#). If set, Athena uses the value for `ExpectedBucketOwner` when it makes Amazon S3 calls to your specified output location. If

the ExpectedBucketOwner AWS account ID does not match the actual owner of the Amazon S3 bucket, the call fails with a permissions error.

This is a client-side setting. If workgroup settings override client-side settings, then the query uses the ExpectedBucketOwner setting that is specified for the workgroup, and also uses the location for storing query results specified in the workgroup. See [WorkGroupConfiguration:EnforceWorkGroupConfiguration](#) and [Workgroup Settings Override Client-Side Settings](#).

Type: String

Length Constraints: Fixed length of 12.

Pattern: `^[0-9]+$`

Required: No

OutputLocation

The location in Amazon S3 where your query and calculation results are stored, such as `s3://path/to/query/bucket/`. To run the query, you must specify the query results location using one of the ways: either for individual queries using either this setting (client-side), or in the workgroup, using [WorkGroupConfiguration](#). If none of them is set, Athena issues an error that no output location is provided. If workgroup settings override client-side settings, then the query uses the settings specified for the workgroup. See [WorkGroupConfiguration:EnforceWorkGroupConfiguration](#).

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](#)

ResultConfigurationUpdates

The information about the updates in the query results, such as output location and encryption configuration for the query results.

Contents

AclConfiguration

The ACL configuration for the query results.

Type: [AclConfiguration](#) object

Required: No

EncryptionConfiguration

The encryption configuration for query and calculation results.

Type: [EncryptionConfiguration](#) object

Required: No

ExpectedBucketOwner

The AWS account ID that you expect to be the owner of the Amazon S3 bucket specified by [ResultConfiguration:OutputLocation](#). If set, Athena uses the value for ExpectedBucketOwner when it makes Amazon S3 calls to your specified output location. If the ExpectedBucketOwner AWS account ID does not match the actual owner of the Amazon S3 bucket, the call fails with a permissions error.

If workgroup settings override client-side settings, then the query uses the ExpectedBucketOwner setting that is specified for the workgroup, and also uses the location for storing query results specified in the workgroup. See [WorkGroupConfiguration:EnforceWorkGroupConfiguration](#) and [Workgroup Settings Override Client-Side Settings](#).

Type: String

Length Constraints: Fixed length of 12.

Pattern: `^[0-9]+$`

Required: No

OutputLocation

The location in Amazon S3 where your query and calculation results are stored, such as `s3://path/to/query/bucket/`. If workgroup settings override client-side settings, then the query uses the location for the query results and the encryption configuration that are specified for the workgroup. The "workgroup settings override" is specified in `EnforceWorkGroupConfiguration` (true/false) in the `WorkGroupConfiguration`. See [WorkGroupConfiguration:EnforceWorkGroupConfiguration](#).

Type: String

Required: No

RemoveAclConfiguration

If set to `true`, indicates that the previously-specified ACL configuration for queries in this workgroup should be ignored and set to null. If set to `false` or not set, and a value is present in the `AclConfiguration` of `ResultConfigurationUpdates`, the `AclConfiguration` in the workgroup's `ResultConfiguration` is updated with the new value. For more information, see [Workgroup Settings Override Client-Side Settings](#).

Type: Boolean

Required: No

RemoveEncryptionConfiguration

If set to `"true"`, indicates that the previously-specified encryption configuration (also known as the client-side setting) for queries in this workgroup should be ignored and set to null. If set to `"false"` or not set, and a value is present in the `EncryptionConfiguration` in `ResultConfigurationUpdates` (the client-side setting), the `EncryptionConfiguration` in the workgroup's `ResultConfiguration` will be updated with the new value. For more information, see [Workgroup Settings Override Client-Side Settings](#).

Type: Boolean

Required: No

RemoveExpectedBucketOwner

If set to `"true"`, removes the AWS account ID previously specified for [ResultConfiguration:ExpectedBucketOwner](#). If set to `"false"` or not set, and a value is present in

the `ExpectedBucketOwner` in `ResultConfigurationUpdates` (the client-side setting), the `ExpectedBucketOwner` in the workgroup's `ResultConfiguration` is updated with the new value. For more information, see [Workgroup Settings Override Client-Side Settings](#).

Type: Boolean

Required: No

RemoveOutputLocation

If set to "true", indicates that the previously-specified query results location (also known as a client-side setting) for queries in this workgroup should be ignored and set to null. If set to "false" or not set, and a value is present in the `OutputLocation` in `ResultConfigurationUpdates` (the client-side setting), the `OutputLocation` in the workgroup's `ResultConfiguration` will be updated with the new value. For more information, see [Workgroup Settings Override Client-Side Settings](#).

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](#)

ResultReuseByAgeConfiguration

Specifies whether previous query results are reused, and if so, their maximum age.

Contents

Enabled

True if previous query results can be reused when the query is run; otherwise, false. The default is false.

Type: Boolean

Required: Yes

MaxAgeInMinutes

Specifies, in minutes, the maximum age of a previous query result that Athena should consider for reuse. The default is 60.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 10080.

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](#)

ResultReuseConfiguration

Specifies the query result reuse behavior for the query.

Contents

ResultReuseByAgeConfiguration

Specifies whether previous query results are reused, and if so, their maximum age.

Type: [ResultReuseByAgeConfiguration](#) 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](#)

ResultReuseInformation

Contains information about whether the result of a previous query was reused.

Contents

ReusedPreviousResult

True if a previous query result was reused; false if the result was generated from a new run of the query.

Type: Boolean

Required: Yes

See Also

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

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

ResultSet

The metadata and rows that make up a query result set. The metadata describes the column structure and data types. To return a `ResultSet` object, use [GetQueryResults](#).

Contents

ResultSetMetadata

The metadata that describes the column structure and data types of a table of query results.

Type: [ResultSetMetadata](#) object

Required: No

Rows

The rows in the table.

Type: Array of [Row](#) objects

Required: No

See Also

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

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

ResultSetMetadata

The metadata that describes the column structure and data types of a table of query results. To return a `ResultSetMetadata` object, use [GetQueryResults](#).

Contents

ColumnInfo

Information about the columns returned in a query result metadata.

Type: Array of [ColumnInfo](#) objects

Required: No

See Also

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

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

Row

The rows that make up a query result table.

Contents

Data

The data that populates a row in a query result table.

Type: Array of [Datum](#) objects

Required: No

See Also

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

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

S3LoggingConfiguration

Configuration settings for delivering logs to Amazon S3 buckets.

Contents

Enabled

Enables S3 log delivery.

Type: Boolean

Required: Yes

KmsKey

The KMS key ARN to encrypt the logs published to the given Amazon S3 destination.

Type: String

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

Pattern: `^arn:aws[a-z\-*]:kms:([a-z0-9\-*]):\d{12}:key/?[a-zA-Z_0-9+=,.\@\_/_]+$|^arn:aws[a-z\-*]:kms:([a-z0-9\-*]):\d{12}:alias/?[a-zA-Z_0-9+=,.\@\_/_]+$|^alias/[a-zA-Z0-9/_-]+$|[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}`

Required: No

LogLocation

The Amazon S3 destination URI for log publishing.

Type: String

Length Constraints: Maximum length of 1024.

Pattern: `^s3://[a-z0-9][a-z0-9\-*]*[a-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](#)

SessionConfiguration

Contains session configuration information.

Contents

EncryptionConfiguration

If query and calculation results are encrypted in Amazon S3, indicates the encryption option used (for example, SSE_KMS or CSE_KMS) and key information.

Type: [EncryptionConfiguration](#) object

Required: No

ExecutionRole

The ARN of the execution role used to access user resources for Spark sessions and Identity Center enabled workgroups. This property applies only to Spark enabled workgroups and Identity Center enabled workgroups.

Type: String

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

Pattern: `^arn:aws[a-z\-\]*:iam::\d{12}:role/?[a-zA-Z_0-9+=,.\@\-\_/\]+$`

Required: No

IdleTimeoutSeconds

The idle timeout in seconds for the session.

Type: Long

Required: No

SessionIdleTimeoutInMinutes

The idle timeout in seconds for the session.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 480.

Required: No

WorkingDirectory

The Amazon S3 location that stores information for the notebook.

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](#)

SessionStatistics

Contains statistics for a session.

Contents

DpuExecutionInMillis

The data processing unit execution time for a session in milliseconds.

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](#)

SessionStatus

Contains information about the status of a session.

Contents

EndTime

The date and time that the session ended.

Type: Timestamp

Required: No

IdleSinceDateTime

The date and time starting at which the session became idle. Can be empty if the session is not currently idle.

Type: Timestamp

Required: No

LastModifiedDateTime

The most recent date and time that the session was modified.

Type: Timestamp

Required: No

StartTime

The date and time that the session started.

Type: Timestamp

Required: No

State

The state of the session. A description of each state follows.

CREATING - The session is being started, including acquiring resources.

CREATED - The session has been started.

IDLE - The session is able to accept a calculation.

BUSY - The session is processing another task and is unable to accept a calculation.

TERMINATING - The session is in the process of shutting down.

TERMINATED - The session and its resources are no longer running.

DEGRADED - The session has no healthy coordinators.

FAILED - Due to a failure, the session and its resources are no longer running.

Type: String

Valid Values: CREATING | CREATED | IDLE | BUSY | TERMINATING | TERMINATED | DEGRADED | FAILED

Required: No

StateChangeReason

The reason for the session state change (for example, canceled because the session was terminated).

Type: String

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

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](#)

SessionSummary

Contains summary information about a session.

Contents

Description

The session description.

Type: String

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

Required: No

EngineVersion

The engine version used by the session (for example, PySpark engine version 3).

Type: [EngineVersion](#) object

Required: No

NotebookVersion

The notebook version.

Type: String

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

Required: No

SessionId

The session ID.

Type: String

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

Required: No

Status

Contains information about the session status.

Type: [SessionStatus](#) 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](#)

TableMetadata

Contains metadata for a table.

Contents

Name

The name of the table.

Type: String

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

Required: Yes

Columns

A list of the columns in the table.

Type: Array of [Column](#) objects

Required: No

CreateTime

The time that the table was created.

Type: Timestamp

Required: No

LastAccessTime

The last time the table was accessed.

Type: Timestamp

Required: No

Parameters

A set of custom key/value pairs for table properties.

Type: String to string map

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

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

Value Length Constraints: Maximum length of 51200.

Required: No

PartitionKeys

A list of the partition keys in the table.

Type: Array of [Column](#) objects

Required: No

TableType

The type of table. In Athena, only `EXTERNAL_TABLE` is supported.

Type: String

Length Constraints: Maximum length of 255.

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](#)

Tag

A label that you assign to a resource. Athena resources include workgroups, data catalogs, and capacity reservations. Each tag consists of a key and an optional value, both of which you define. For example, you can use tags to categorize Athena resources by purpose, owner, or environment. Use a consistent set of tag keys to make it easier to search and filter the resources in your account. For best practices, see [Tagging Best Practices](#). Tag keys can be from 1 to 128 UTF-8 Unicode characters, and tag values can be from 0 to 256 UTF-8 Unicode characters. Tags can use letters and numbers representable in UTF-8, and the following characters: + - = . _ : / @. Tag keys and values are case-sensitive. Tag keys must be unique per resource. If you specify more than one tag, separate them by commas.

Contents

Key

A tag key. The tag key length is from 1 to 128 Unicode characters in UTF-8. You can use letters and numbers representable in UTF-8, and the following characters: + - = . _ : / @. Tag keys are case-sensitive and must be unique per resource.

Type: String

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

Required: No

Value

A tag value. The tag value length is from 0 to 256 Unicode characters in UTF-8. You can use letters and numbers representable in UTF-8, and the following characters: + - = . _ : / @. Tag values are case-sensitive.

Type: String

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

Required: No

See Also

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

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

UnprocessedNamedQueryId

Information about a named query ID that could not be processed.

Contents

ErrorCode

The error code returned when the processing request for the named query failed, if applicable.

Type: String

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

Required: No

ErrorMessage

The error message returned when the processing request for the named query failed, if applicable.

Type: String

Required: No

NamedQueryId

The unique identifier of the named query.

Type: String

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

Pattern: \S+

Required: No

See Also

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

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

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

UnprocessedPreparedStatementName

The name of a prepared statement that could not be returned.

Contents

ErrorCode

The error code returned when the request for the prepared statement failed.

Type: String

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

Required: No

ErrorMessage

The error message containing the reason why the prepared statement could not be returned.

The following error messages are possible:

- `INVALID_INPUT` - The name of the prepared statement that was provided is not valid (for example, the name is too long).
- `STATEMENT_NOT_FOUND` - A prepared statement with the name provided could not be found.
- `UNAUTHORIZED` - The requester does not have permission to access the workgroup that contains the prepared statement.

Type: String

Required: No

StatementName

The name of a prepared statement that could not be returned due to an error.

Type: String

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

Pattern: `[a-zA-Z_][a-zA-Z0-9_@:]{1,256}`

Required: No

See Also

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

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

UnprocessedQueryExecutionId

Describes a query execution that failed to process.

Contents

ErrorCode

The error code returned when the query execution failed to process, if applicable.

Type: String

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

Required: No

ErrorMessage

The error message returned when the query execution failed to process, if applicable.

Type: String

Required: No

QueryExecutionId

The unique identifier of the query execution.

Type: String

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

Pattern: \S+

Required: No

See Also

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

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

- [AWS SDK for Ruby V3](#)

WorkGroup

A workgroup, which contains a name, description, creation time, state, and other configuration, listed under [WorkGroup:Configuration](#). Each workgroup enables you to isolate queries for you or your group of users from other queries in the same account, to configure the query results location and the encryption configuration (known as workgroup settings), to enable sending query metrics to Amazon CloudWatch, and to establish per-query data usage control limits for all queries in a workgroup. The workgroup settings override is specified in `EnforceWorkGroupConfiguration` (true/false) in the `WorkGroupConfiguration`. See [WorkGroupConfiguration:EnforceWorkGroupConfiguration](#).

Contents

Name

The workgroup name.

Type: String

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

Required: Yes

Configuration

The configuration of the workgroup, which includes the location in Amazon S3 where query and calculation results are stored, the encryption configuration, if any, used for query and calculation results; whether the Amazon CloudWatch Metrics are enabled for the workgroup; whether workgroup settings override client-side settings; and the data usage limits for the amount of data scanned per query or per workgroup. The workgroup settings override is specified in `EnforceWorkGroupConfiguration` (true/false) in the `WorkGroupConfiguration`. See [WorkGroupConfiguration:EnforceWorkGroupConfiguration](#).

Type: [WorkGroupConfiguration](#) object

Required: No

CreationTime

The date and time the workgroup was created.

Type: Timestamp

Required: No

Description

The workgroup description.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Required: No

IdentityCenterApplicationArn

The ARN of the IAM Identity Center enabled application associated with the workgroup.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `^arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):sso::\d{12}:application/(sso)?ins-[a-zA-Z0-9-]{16}/ap1-[a-zA-Z0-9]{16}$`

Required: No

State

The state of the workgroup: ENABLED or DISABLED.

Type: String

Valid Values: ENABLED | DISABLED

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](#)

WorkGroupConfiguration

The configuration of the workgroup, which includes the location in Amazon S3 where query and calculation results are stored, the encryption option, if any, used for query and calculation results, whether the Amazon CloudWatch Metrics are enabled for the workgroup and whether workgroup settings override query settings, and the data usage limits for the amount of data scanned per query or per workgroup. The workgroup settings override is specified in `EnforceWorkGroupConfiguration` (true/false) in the `WorkGroupConfiguration`. See [WorkGroupConfiguration:EnforceWorkGroupConfiguration](#).

Contents

AdditionalConfiguration

Specifies a user defined JSON string that is passed to the notebook engine.

Type: String

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

Required: No

BytesScannedCutoffPerQuery

The upper data usage limit (cutoff) for the amount of bytes a single query in a workgroup is allowed to scan.

Type: Long

Valid Range: Minimum value of 10000000.

Required: No

CustomerContentEncryptionConfiguration

Specifies the KMS key that is used to encrypt the user's data stores in Athena. This setting does not apply to Athena SQL workgroups.

Type: [CustomerContentEncryptionConfiguration](#) object

Required: No

EnableMinimumEncryptionConfiguration

Enforces a minimal level of encryption for the workgroup for query and calculation results that are written to Amazon S3. When enabled, workgroup users can set encryption only to the minimum level set by the administrator or higher when they submit queries.

The `EnforceWorkGroupConfiguration` setting takes precedence over the `EnableMinimumEncryptionConfiguration` flag. This means that if `EnforceWorkGroupConfiguration` is true, the `EnableMinimumEncryptionConfiguration` flag is ignored, and the workgroup configuration for encryption is used.

Type: Boolean

Required: No

EnforceWorkGroupConfiguration

If set to "true", the settings for the workgroup override client-side settings. If set to "false", client-side settings are used. This property is not required for Apache Spark enabled workgroups. For more information, see [Workgroup Settings Override Client-Side Settings](#).

Type: Boolean

Required: No

EngineConfiguration

The engine configuration for the workgroup, which includes the minimum/maximum number of Data Processing Units (DPU) that queries should use when running in provisioned capacity. If not specified, Athena uses default values (Default value for min is 4 and for max is Minimum of 124 and allocated DPUs).

To specify DPU values for PC queries the WG containing `EngineConfiguration` should have the following values: The name of the Classifications should be `athena-query-engine-properties`, with the only allowed properties as `max-dpu-count` and `min-dpu-count`.

Type: [EngineConfiguration](#) object

Required: No

EngineVersion

The engine version that all queries running on the workgroup use. Queries on the AmazonAthenaPreviewFunctionality workgroup run on the preview engine regardless of this setting.

Type: [EngineVersion](#) object

Required: No

ExecutionRole

The ARN of the execution role used to access user resources for Spark sessions and IAM Identity Center enabled workgroups. This property applies only to Spark enabled workgroups and IAM Identity Center enabled workgroups. The property is required for IAM Identity Center enabled workgroups.

Type: String

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

Pattern: `^arn:aws[a-z\-\]*:iam::\d{12}:role/?[a-zA-Z_0-9+=,.\@\-\_/\]+$`

Required: No

IdentityCenterConfiguration

Specifies whether the workgroup is IAM Identity Center supported.

Type: [IdentityCenterConfiguration](#) object

Required: No

ManagedQueryResultsConfiguration

The configuration for storing results in Athena owned storage, which includes whether this feature is enabled; whether encryption configuration, if any, is used for encrypting query results.

Type: [ManagedQueryResultsConfiguration](#) object

Required: No

MonitoringConfiguration

Contains the configuration settings for managed log persistence, delivering logs to Amazon S3 buckets, Amazon CloudWatch log groups etc.

Type: [MonitoringConfiguration](#) object

Required: No

PublishCloudWatchMetricsEnabled

Indicates that the Amazon CloudWatch metrics are enabled for the workgroup.

Type: Boolean

Required: No

QueryResultsS3AccessGrantsConfiguration

Specifies whether Amazon S3 access grants are enabled for query results.

Type: [QueryResultsS3AccessGrantsConfiguration](#) object

Required: No

RequesterPaysEnabled

If set to `true`, allows members assigned to a workgroup to reference Amazon S3 Requester Pays buckets in queries. If set to `false`, workgroup members cannot query data from Requester Pays buckets, and queries that retrieve data from Requester Pays buckets cause an error. The default is `false`. For more information about Requester Pays buckets, see [Requester Pays Buckets](#) in the *Amazon Simple Storage Service Developer Guide*.

Type: Boolean

Required: No

ResultConfiguration

The configuration for the workgroup, which includes the location in Amazon S3 where query and calculation results are stored and the encryption option, if any, used for query and calculation results. To run the query, you must specify the query results location using one of the ways: either in the workgroup using this setting, or for individual queries (client-side), using [ResultConfiguration:OutputLocation](#). If none of them is set, Athena issues an error that no output location is provided.

Type: [ResultConfiguration](#) 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](#)

WorkGroupConfigurationUpdates

The configuration information that will be updated for this workgroup, which includes the location in Amazon S3 where query and calculation results are stored, the encryption option, if any, used for query results, whether the Amazon CloudWatch Metrics are enabled for the workgroup, whether the workgroup settings override the client-side settings, and the data usage limit for the amount of bytes scanned per query, if it is specified.

Contents

AdditionalConfiguration

Contains a user defined string in JSON format for a Spark-enabled workgroup.

Type: String

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

Required: No

BytesScannedCutoffPerQuery

The upper limit (cutoff) for the amount of bytes a single query in a workgroup is allowed to scan.

Type: Long

Valid Range: Minimum value of 10000000.

Required: No

CustomerContentEncryptionConfiguration

Specifies the customer managed KMS key that is used to encrypt the user's data stores in Athena. When an AWS managed key is used, this value is null. This setting does not apply to Athena SQL workgroups.

Type: [CustomerContentEncryptionConfiguration](#) object

Required: No

EnableMinimumEncryptionConfiguration

Enforces a minimal level of encryption for the workgroup for query and calculation results that are written to Amazon S3. When enabled, workgroup users can set encryption only to the

minimum level set by the administrator or higher when they submit queries. This setting does not apply to Spark-enabled workgroups.

The `EnforceWorkGroupConfiguration` setting takes precedence over the `EnableMinimumEncryptionConfiguration` flag. This means that if `EnforceWorkGroupConfiguration` is true, the `EnableMinimumEncryptionConfiguration` flag is ignored, and the workgroup configuration for encryption is used.

Type: Boolean

Required: No

EnforceWorkGroupConfiguration

If set to "true", the settings for the workgroup override client-side settings. If set to "false" client-side settings are used. For more information, see [Workgroup Settings Override Client-Side Settings](#).

Type: Boolean

Required: No

EngineConfiguration

The engine configuration for the workgroup, which includes the minimum/maximum number of Data Processing Units (DPU) that queries should use when running in provisioned capacity. If not specified, Athena uses default values (Default value for min is 4 and for max is Minimum of 124 and allocated DPUs).

To specify DPU values for PC queries the WG containing `EngineConfiguration` should have the following values: The name of the Classifications should be `athena-query-engine-properties`, with the only allowed properties as `max-dpu-count` and `min-dpu-count`.

Type: [EngineConfiguration](#) object

Required: No

EngineVersion

The engine version requested when a workgroup is updated. After the update, all queries on the workgroup run on the requested engine version. If no value was previously set, the default is

Auto. Queries on the AmazonAthenaPreviewFunctionality workgroup run on the preview engine regardless of this setting.

Type: [EngineVersion](#) object

Required: No

ExecutionRole

The ARN of the execution role used to access user resources for Spark sessions and Identity Center enabled workgroups. This property applies only to Spark enabled workgroups and Identity Center enabled workgroups.

Type: String

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

Pattern: `^arn:aws[a-z\-\]*:iam::\d{12}:role/?[a-zA-Z_0-9+=,.\@-\_/\]+$`

Required: No

ManagedQueryResultsConfigurationUpdates

Updates configuration information for managed query results in the workgroup.

Type: [ManagedQueryResultsConfigurationUpdates](#) object

Required: No

MonitoringConfiguration

Contains the configuration settings for managed log persistence, delivering logs to Amazon S3 buckets, Amazon CloudWatch log groups etc.

Type: [MonitoringConfiguration](#) object

Required: No

PublishCloudWatchMetricsEnabled

Indicates whether this workgroup enables publishing metrics to Amazon CloudWatch.

Type: Boolean

Required: No

QueryResultsS3AccessGrantsConfiguration

Specifies whether Amazon S3 access grants are enabled for query results.

Type: [QueryResultsS3AccessGrantsConfiguration](#) object

Required: No

RemoveBytesScannedCutoffPerQuery

Indicates that the data usage control limit per query is removed.

[WorkGroupConfiguration:BytesScannedCutoffPerQuery](#)

Type: Boolean

Required: No

RemoveCustomerContentEncryptionConfiguration

Removes content encryption configuration from an Apache Spark-enabled Athena workgroup.

Type: Boolean

Required: No

RequesterPaysEnabled

If set to `true`, allows members assigned to a workgroup to specify Amazon S3 Requester Pays buckets in queries. If set to `false`, workgroup members cannot query data from Requester Pays buckets, and queries that retrieve data from Requester Pays buckets cause an error. The default is `false`. For more information about Requester Pays buckets, see [Requester Pays Buckets](#) in the *Amazon Simple Storage Service Developer Guide*.

Type: Boolean

Required: No

ResultConfigurationUpdates

The result configuration information about the queries in this workgroup that will be updated. Includes the updated results location and an updated option for encrypting query results.

Type: [ResultConfigurationUpdates](#) 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](#)

WorkGroupSummary

The summary information for the workgroup, which includes its name, state, description, and the date and time it was created.

Contents

CreationTime

The workgroup creation date and time.

Type: Timestamp

Required: No

Description

The workgroup description.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Required: No

EngineVersion

The engine version setting for all queries on the workgroup. Queries on the AmazonAthenaPreviewFunctionality workgroup run on the preview engine regardless of this setting.

Type: [EngineVersion](#) object

Required: No

IdentityCenterApplicationArn

The ARN of the IAM Identity Center enabled application associated with the workgroup.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `^arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):sso::\d{12}:application/(sso)?ins-[a-zA-Z0-9-]{16}/apl-[a-zA-Z0-9]{16}$`

Required: No

Name

The name of the workgroup.

Type: String

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

Required: No

State

The state of the workgroup.

Type: String

Valid Values: ENABLED | DISABLED

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](#)

Common Parameters

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

X-Amz-Algorithm

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

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

Type: string

Valid Values: AWS4-HMAC-SHA256

Required: Conditional

X-Amz-Credential

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

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

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

Type: string

Required: Conditional

X-Amz-Date

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

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

Type: string

Required: Conditional

X-Amz-Security-Token

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

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

Type: string

Required: Conditional

X-Amz-Signature

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

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

Type: string

Required: Conditional

X-Amz-SignedHeaders

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

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

Type: string

Required: Conditional

Common Error Types

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

AccessDeniedException

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

HTTP Status Code: 403

ExpiredTokenException

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

HTTP Status Code: 403

IncompleteSignature

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

HTTP Status Code: 403

InternalFailure

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

HTTP Status Code: 500

MalformedHttpRequestException

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

HTTP Status Code: 400

NotAuthorized

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

HTTP Status Code: 401

OptInRequired

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

HTTP Status Code: 403

RequestAbortedException

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

HTTP Status Code: 400

RequestEntityTooLargeException

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

HTTP Status Code: 413

RequestTimeoutException

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

HTTP Status Code: 408

ServiceUnavailable

The service is temporarily unavailable. Try again later.

HTTP Status Code: 503

ThrottlingException

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

HTTP Status Code: 400

UnknownOperationException

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

HTTP Status Code: 404

UnrecognizedClientException

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

HTTP Status Code: 403

ValidationError

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

HTTP Status Code: 400