
AWS Managed Grafana

Welcome

API Version 2020-08-18



AWS Managed Grafana: Welcome

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Table of Contents

Welcome	1
Actions	2
AssociateLicense	3
Request Syntax	3
URI Request Parameters	3
Request Body	3
Response Syntax	3
Response Elements	4
Errors	4
See Also	4
CreateWorkspace	6
Request Syntax	6
URI Request Parameters	6
Request Body	6
Response Syntax	9
Response Elements	9
Errors	10
See Also	10
CreateWorkspaceApiKey	11
Request Syntax	11
URI Request Parameters	11
Request Body	11
Response Syntax	12
Response Elements	12
Errors	12
See Also	13
DeleteWorkspace	14
Request Syntax	14
URI Request Parameters	14
Request Body	14
Response Syntax	14
Response Elements	15
Errors	15
See Also	15
DeleteWorkspaceApiKey	17
Request Syntax	17
URI Request Parameters	17
Request Body	17
Response Syntax	17
Response Elements	17
Errors	18
See Also	18
DescribeWorkspace	20
Request Syntax	20
URI Request Parameters	20
Request Body	20
Response Syntax	20
Response Elements	21
Errors	21
See Also	21
DescribeWorkspaceAuthentication	23
Request Syntax	23
URI Request Parameters	23
Request Body	23

Response Syntax	23
Response Elements	24
Errors	24
See Also	24
DisassociateLicense	26
Request Syntax	26
URI Request Parameters	26
Request Body	26
Response Syntax	26
Response Elements	27
Errors	27
See Also	27
ListPermissions	29
Request Syntax	29
URI Request Parameters	29
Request Body	29
Response Syntax	30
Response Elements	30
Errors	30
See Also	31
ListTagsForResource	32
Request Syntax	32
URI Request Parameters	32
Request Body	32
Response Syntax	32
Response Elements	32
Errors	33
See Also	33
ListWorkspaces	34
Request Syntax	34
URI Request Parameters	34
Request Body	34
Response Syntax	34
Response Elements	35
Errors	35
See Also	35
TagResource	36
Request Syntax	36
URI Request Parameters	36
Request Body	36
Response Syntax	36
Response Elements	37
Errors	37
See Also	37
UntagResource	38
Request Syntax	38
URI Request Parameters	38
Request Body	38
Response Syntax	38
Response Elements	38
Errors	38
See Also	39
UpdatePermissions	40
Request Syntax	40
URI Request Parameters	40
Request Body	40
Response Syntax	40

Response Elements	41
Errors	41
See Also	42
UpdateWorkspace	43
Request Syntax	43
URI Request Parameters	43
Request Body	43
Response Syntax	45
Response Elements	46
Errors	46
See Also	47
UpdateWorkspaceAuthentication	48
Request Syntax	48
URI Request Parameters	48
Request Body	48
Response Syntax	49
Response Elements	49
Errors	50
See Also	50
Data Types	51
AssertionAttributes	52
Contents	52
See Also	53
AuthenticationDescription	54
Contents	54
See Also	54
AuthenticationSummary	55
Contents	55
See Also	55
AwsSsoAuthentication	56
Contents	56
See Also	56
IdpMetadata	57
Contents	57
See Also	57
PermissionEntry	58
Contents	58
See Also	58
RoleValues	59
Contents	59
See Also	59
SamlAuthentication	60
Contents	60
See Also	60
SamlConfiguration	61
Contents	61
See Also	61
UpdateError	63
Contents	63
See Also	63
UpdateInstruction	64
Contents	64
See Also	64
User	65
Contents	65
See Also	65
ValidationExceptionField	66

- Contents 66
- See Also 66
- WorkspaceDescription 67
- Contents 67
- See Also 70
- WorkspaceSummary 71
- Contents 71
- See Also 72
- Common Parameters 73
- Common Errors 75

Welcome

Amazon Managed Grafana is a fully managed and secure data visualization service that you can use to instantly query, correlate, and visualize operational metrics, logs, and traces from multiple sources. Amazon Managed Grafana makes it easy to deploy, operate, and scale Grafana, a widely deployed data visualization tool that is popular for its extensible data support.

With Amazon Managed Grafana, you create logically isolated Grafana servers called *workspaces*. In a workspace, you can create Grafana dashboards and visualizations to analyze your metrics, logs, and traces without having to build, package, or deploy any hardware to run Grafana servers.

This document was last published on May 17, 2022.

Actions

The following actions are supported:

- [AssociateLicense](#) (p. 3)
- [CreateWorkspace](#) (p. 6)
- [CreateWorkspaceApiKey](#) (p. 11)
- [DeleteWorkspace](#) (p. 14)
- [DeleteWorkspaceApiKey](#) (p. 17)
- [DescribeWorkspace](#) (p. 20)
- [DescribeWorkspaceAuthentication](#) (p. 23)
- [DisassociateLicense](#) (p. 26)
- [ListPermissions](#) (p. 29)
- [ListTagsForResource](#) (p. 32)
- [ListWorkspaces](#) (p. 34)
- [TagResource](#) (p. 36)
- [UntagResource](#) (p. 38)
- [UpdatePermissions](#) (p. 40)
- [UpdateWorkspace](#) (p. 43)
- [UpdateWorkspaceAuthentication](#) (p. 48)

AssociateLicense

Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana Enterprise incurs additional fees. For more information, see [Upgrade a workspace to Grafana Enterprise](#).

Request Syntax

```
POST /workspaces/workspaceId/licenses/licenseType HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

licenseType (p. 3)

The type of license to associate with the workspace.

Valid Values: ENTERPRISE | ENTERPRISE_FREE_TRIAL

Required: Yes

workspaceId (p. 3)

The ID of the workspace to associate the license with.

Pattern: ^g-[0-9a-f]{10}\$

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 202
Content-type: application/json

{
  "workspace": {
    "accountAccessType": "string",
    "authentication": {
      "providers": [ "string" ],
      "samlConfigurationStatus": "string"
    },
    "created": number,
    "dataSources": [ "string" ],
    "description": "string",
    "endpoint": "string",
    "freeTrialConsumed": boolean,
    "freeTrialExpiration": number,
    "grafanaVersion": "string",
    "id": "string",
    "licenseExpiration": number,
    "licenseType": "string",
    "modified": number,
    "name": "string",
```

```
    "notificationDestinations": [ "string" ],
    "organizationalUnits": [ "string" ],
    "organizationRoleName": "string",
    "permissionType": "string",
    "stackSetName": "string",
    "status": "string",
    "tags": {
      "string" : "string"
    },
    "workspaceRoleArn": "string"
  }
}
```

Response Elements

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

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

workspace (p. 3)

A structure containing data about the workspace.

Type: [WorkspaceDescription \(p. 67\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 75\)](#).

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

InternalServerErrorException

Unexpected error while processing the request. Retry the request.

HTTP Status Code: 500

ResourceNotFoundException

The request references a resource that does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied because of request throttling. Retry the request.

HTTP Status Code: 429

ValidationException

The value of a parameter in the request caused an error.

HTTP Status Code: 400

See Also

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

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

CreateWorkspace

Creates a *workspace*. In a workspace, you can create Grafana dashboards and visualizations to analyze your metrics, logs, and traces. You don't have to build, package, or deploy any hardware to run the Grafana server.

Don't use `CreateWorkspace` to modify an existing workspace. Instead, use [UpdateWorkspace](#).

Request Syntax

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

{
  "accountAccessType": "string",
  "authenticationProviders": [ "string" ],
  "clientToken": "string",
  "organizationRoleName": "string",
  "permissionType": "string",
  "stackSetName": "string",
  "tags": {
    "string" : "string"
  },
  "workspaceDataSources": [ "string" ],
  "workspaceDescription": "string",
  "workspaceName": "string",
  "workspaceNotificationDestinations": [ "string" ],
  "workspaceOrganizationalUnits": [ "string" ],
  "workspaceRoleArn": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

[accountAccessType \(p. 6\)](#)

Specifies whether the workspace can access AWS resources in this AWS account only, or whether it can also access AWS resources in other accounts in the same organization. If you specify `ORGANIZATION`, you must specify which organizational units the workspace can access in the `workspaceOrganizationalUnits` parameter.

Type: String

Valid Values: `CURRENT_ACCOUNT` | `ORGANIZATION`

Required: Yes

[authenticationProviders \(p. 6\)](#)

Specifies whether this workspace uses SAML 2.0, AWS Single Sign-On, or both to authenticate users for using the Grafana console within a workspace. For more information, see [User authentication in Amazon Managed Grafana](#).

Type: Array of strings

Valid Values: `AWS_SSO` | `SAML`

Required: Yes

clientToken (p. 6)

A unique, case-sensitive, user-provided identifier to ensure the idempotency of the request.

Type: String

Pattern: `^[!-~]{1,64}$`

Required: No

organizationRoleName (p. 6)

The name of an IAM role that already exists to use with Organizations to access AWS data sources and notification channels in other accounts in an organization.

Type: String

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

Required: No

permissionType (p. 6)

If you specify `SERVICE_MANAGED` on AWS Grafana console, Amazon Managed Grafana automatically creates the IAM roles and provisions the permissions that the workspace needs to use AWS data sources and notification channels. In the CLI mode, the permissionType `SERVICE_MANAGED` will not create the IAM role for you. The ability for the Amazon Managed Grafana to create the IAM role on behalf of the user is supported only in the Amazon Managed Grafana AWS console. Use only the `CUSTOMER_MANAGED` permission type when creating a workspace in the CLI.

If you specify `CUSTOMER_MANAGED`, you will manage those roles and permissions yourself. If you are creating this workspace in a member account of an organization that is not a delegated administrator account, and you want the workspace to access data sources in other AWS accounts in the organization, you must choose `CUSTOMER_MANAGED`.

For more information, see [Amazon Managed Grafana permissions and policies for AWS data sources and notification channels](#).

Type: String

Valid Values: `CUSTOMER_MANAGED` | `SERVICE_MANAGED`

Required: Yes

stackSetName (p. 6)

The name of the AWS CloudFormation stack set to use to generate IAM roles to be used for this workspace.

Type: String

Required: No

tags (p. 6)

The list of tags associated with the workspace.

Type: String to string map

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

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

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

Required: No

workspaceDataSources (p. 6)

Specify the AWS data sources that you want to be queried in this workspace. Specifying these data sources here enables Amazon Managed Grafana to create IAM roles and permissions that allow Amazon Managed Grafana to read data from these sources. You must still add them as data sources in the Grafana console in the workspace.

If you don't specify a data source here, you can still add it as a data source in the workspace console later. However, you will then have to manually configure permissions for it.

Type: Array of strings

Valid Values: AMAZON_OPENSEARCH_SERVICE | CLOUDWATCH | PROMETHEUS | XRAY |
TIMESTREAM | SITEWISE | ATHENA | REDSHIFT

Required: No

workspaceDescription (p. 6)

A description for the workspace. This is used only to help you identify this workspace.

Pattern: `^[\\p{L}\\p{Z}\\p{N}\\p{P}]{0,2048}$`

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Required: No

workspaceName (p. 6)

The name for the workspace. It does not have to be unique.

Type: String

Pattern: `^[a-zA-Z0-9-._~]{1,255}$`

Required: No

workspaceNotificationDestinations (p. 6)

Specify the AWS notification channels that you plan to use in this workspace. Specifying these data sources here enables Amazon Managed Grafana to create IAM roles and permissions that allow Amazon Managed Grafana to use these channels.

Type: Array of strings

Valid Values: SNS

Required: No

workspaceOrganizationalUnits (p. 6)

Specifies the organizational units that this workspace is allowed to use data sources from, if this workspace is in an account that is part of an organization.

Type: Array of strings

Required: No

[workspaceRoleArn \(p. 6\)](#)

The workspace needs an IAM role that grants permissions to the AWS resources that the workspace will view data from. If you already have a role that you want to use, specify it here. The permission type should be set to `CUSTOMER_MANAGED`.

Type: String

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

Required: No

Response Syntax

```
HTTP/1.1 202
Content-type: application/json

{
  "workspace": {
    "accountAccessType": "string",
    "authentication": {
      "providers": [ "string" ],
      "samlConfigurationStatus": "string"
    },
    "created": number,
    "dataSources": [ "string" ],
    "description": "string",
    "endpoint": "string",
    "freeTrialConsumed": boolean,
    "freeTrialExpiration": number,
    "grafanaVersion": "string",
    "id": "string",
    "licenseExpiration": number,
    "licenseType": "string",
    "modified": number,
    "name": "string",
    "notificationDestinations": [ "string" ],
    "organizationalUnits": [ "string" ],
    "organizationRoleName": "string",
    "permissionType": "string",
    "stackSetName": "string",
    "status": "string",
    "tags": {
      "string" : "string"
    },
    "workspaceRoleArn": "string"
  }
}
```

Response Elements

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

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

[workspace \(p. 9\)](#)

A structure containing data about the workspace that was created.

Type: [WorkspaceDescription \(p. 67\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 75\)](#).

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

ConflictException

A resource was in an inconsistent state during an update or a deletion.

HTTP Status Code: 409

InternalServerErrorException

Unexpected error while processing the request. Retry the request.

HTTP Status Code: 500

ServiceQuotaExceededException

The request would cause a service quota to be exceeded.

HTTP Status Code: 402

ThrottlingException

The request was denied because of request throttling. Retry the request.

HTTP Status Code: 429

ValidationException

The value of a parameter in the request caused an error.

HTTP Status Code: 400

See Also

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

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

CreateWorkspaceApiKey

Creates a Grafana API key for the workspace. This key can be used to authenticate requests sent to the workspace's HTTP API. See <https://docs.aws.amazon.com/grafana/latest/userguide/Using-Grafana-APIs.html> for available APIs and example requests.

Request Syntax

```
POST /workspaces/workspaceId/apikeys HTTP/1.1  
Content-type: application/json
```

```
{  
  "keyName": "string",  
  "keyRole": "string",  
  "secondsToLive": number  
}
```

URI Request Parameters

The request uses the following URI parameters.

workspaceId (p. 11)

The ID of the workspace to create an API key.

Pattern: `^g-[0-9a-f]{10}$`

Required: Yes

Request Body

The request accepts the following data in JSON format.

keyName (p. 11)

Specifies the name of the key. Keynames must be unique to the workspace.

Type: String

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

Required: Yes

keyRole (p. 11)

Specifies the permission level of the key.

Valid values: VIEWER|EDITOR|ADMIN

Type: String

Required: Yes

secondsToLive (p. 11)

Specifies the time in seconds until the key expires. Keys can be valid for up to 30 days.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 2592000.

Required: Yes

Response Syntax

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

{
  "key": "string",
  "keyName": "string",
  "workspaceId": "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.

key (p. 12)

The key token. Use this value as a bearer token to authenticate HTTP requests to the workspace.

Type: String

keyName (p. 12)

The name of the key that was created.

Type: String

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

workspaceId (p. 12)

The ID of the workspace that the key is valid for.

Type: String

Pattern: `^g-[0-9a-f]{10}$`

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 75\)](#).

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

ConflictException

A resource was in an inconsistent state during an update or a deletion.

HTTP Status Code: 409

InternalServerErrorException

Unexpected error while processing the request. Retry the request.

HTTP Status Code: 500

ResourceNotFoundException

The request references a resource that does not exist.

HTTP Status Code: 404

ServiceQuotaExceededException

The request would cause a service quota to be exceeded.

HTTP Status Code: 402

ThrottlingException

The request was denied because of request throttling. Retry the request.

HTTP Status Code: 429

ValidationException

The value of a parameter in the request caused an error.

HTTP Status Code: 400

See Also

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

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

DeleteWorkspace

Deletes an Amazon Managed Grafana workspace.

Request Syntax

```
DELETE /workspaces/workspaceId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[workspaceId \(p. 14\)](#)

The ID of the workspace to delete.

Pattern: `^g-[0-9a-f]{10}$`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 202
Content-type: application/json

{
  "workspace": {
    "accountAccessType": "string",
    "authentication": {
      "providers": [ "string" ],
      "samlConfigurationStatus": "string"
    },
    "created": number,
    "dataSources": [ "string" ],
    "description": "string",
    "endpoint": "string",
    "freeTrialConsumed": boolean,
    "freeTrialExpiration": number,
    "grafanaVersion": "string",
    "id": "string",
    "licenseExpiration": number,
    "licenseType": "string",
    "modified": number,
    "name": "string",
    "notificationDestinations": [ "string" ],
    "organizationalUnits": [ "string" ],
    "organizationRoleName": "string",
    "permissionType": "string",
    "stackSetName": "string",
    "status": "string",
    "tags": {
      "string" : "string"
    }
  }
}
```

```
    },  
    "workspaceRoleArn": "string"  
  }  
}
```

Response Elements

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

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

[workspace \(p. 14\)](#)

A structure containing information about the workspace that was deleted.

Type: [WorkspaceDescription \(p. 67\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 75\)](#).

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

ConflictException

A resource was in an inconsistent state during an update or a deletion.

HTTP Status Code: 409

InternalServerErrorException

Unexpected error while processing the request. Retry the request.

HTTP Status Code: 500

ResourceNotFoundException

The request references a resource that does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied because of request throttling. Retry the request.

HTTP Status Code: 429

ValidationException

The value of a parameter in the request caused an error.

HTTP Status Code: 400

See Also

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

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

DeleteWorkspaceApiKey

Deletes a Grafana API key for the workspace.

Request Syntax

```
DELETE /workspaces/workspaceId/apikeys/keyName HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[keyName \(p. 17\)](#)

The name of the API key to delete.

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

Required: Yes

[workspaceId \(p. 17\)](#)

The ID of the workspace to delete.

Pattern: `^g-[0-9a-f]{10}$`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
  "keyName": "string",
  "workspaceId": "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.

[keyName \(p. 17\)](#)

The name of the key that was deleted.

Type: String

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

[workspaceId](#) (p. 17)

The ID of the workspace where the key was deleted.

Type: String

Pattern: `^g-[0-9a-f]{10}$`

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 75).

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

ConflictException

A resource was in an inconsistent state during an update or a deletion.

HTTP Status Code: 409

InternalServerErrorException

Unexpected error while processing the request. Retry the request.

HTTP Status Code: 500

ResourceNotFoundException

The request references a resource that does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied because of request throttling. Retry the request.

HTTP Status Code: 429

ValidationException

The value of a parameter in the request caused an error.

HTTP Status Code: 400

See Also

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

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

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

DescribeWorkspace

Displays information about one Amazon Managed Grafana workspace.

Request Syntax

```
GET /workspaces/workspaceId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[workspaceId \(p. 20\)](#)

The ID of the workspace to display information about.

Pattern: `^g-[0-9a-f]{10}$`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
  "workspace": {
    "accountAccessType": "string",
    "authentication": {
      "providers": [ "string" ],
      "samlConfigurationStatus": "string"
    },
    "created": number,
    "dataSources": [ "string" ],
    "description": "string",
    "endpoint": "string",
    "freeTrialConsumed": boolean,
    "freeTrialExpiration": number,
    "grafanaVersion": "string",
    "id": "string",
    "licenseExpiration": number,
    "licenseType": "string",
    "modified": number,
    "name": "string",
    "notificationDestinations": [ "string" ],
    "organizationalUnits": [ "string" ],
    "organizationRoleName": "string",
    "permissionType": "string",
    "stackSetName": "string",
    "status": "string",
    "tags": {
      "string" : "string"
    }
  }
}
```

```
    },  
    "workspaceRoleArn": "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.

[workspace \(p. 20\)](#)

A structure containing information about the workspace.

Type: [WorkspaceDescription \(p. 67\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 75\)](#).

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

InternalServerError

Unexpected error while processing the request. Retry the request.

HTTP Status Code: 500

ResourceNotFoundException

The request references a resource that does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied because of request throttling. Retry the request.

HTTP Status Code: 429

ValidationException

The value of a parameter in the request caused an error.

HTTP Status Code: 400

See Also

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

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

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

DescribeWorkspaceAuthentication

Displays information about the authentication methods used in one Amazon Managed Grafana workspace.

Request Syntax

```
GET /workspaces/workspaceId/authentication HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[workspaceId \(p. 23\)](#)

The ID of the workspace to return authentication information about.

Pattern: `^g-[0-9a-f]{10}$`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
  "authentication": {
    "awsSso": {
      "ssoClientId": "string"
    },
    "providers": [ "string" ],
    "saml": {
      "configuration": {
        "allowedOrganizations": [ "string" ],
        "assertionAttributes": {
          "email": "string",
          "groups": "string",
          "login": "string",
          "name": "string",
          "org": "string",
          "role": "string"
        },
        "idpMetadata": {
          "url": "string",
          "xml": "string"
        },
        "loginValidityDuration": number,
        "roleValues": {
          "admin": [ "string" ],
          "editor": [ "string" ]
        }
      }
    }
  }
}
```

```
    },  
    "status": "string"  
  }  
}
```

Response Elements

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

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

authentication (p. 23)

A structure containing information about the authentication methods used in the workspace.

Type: [AuthenticationDescription \(p. 54\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 75\)](#).

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

InternalServerError

Unexpected error while processing the request. Retry the request.

HTTP Status Code: 500

ResourceNotFoundException

The request references a resource that does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied because of request throttling. Retry the request.

HTTP Status Code: 429

ValidationException

The value of a parameter in the request caused an error.

HTTP Status Code: 400

See Also

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

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

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

DisassociateLicense

Removes the Grafana Enterprise license from a workspace.

Request Syntax

```
DELETE /workspaces/workspaceId/licenses/licenseType HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

licenseType (p. 26)

The type of license to remove from the workspace.

Valid Values: ENTERPRISE | ENTERPRISE_FREE_TRIAL

Required: Yes

workspaceId (p. 26)

The ID of the workspace to remove the Grafana Enterprise license from.

Pattern: ^g-[0-9a-f]{10}\$

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 202
Content-type: application/json

{
  "workspace": {
    "accountAccessType": "string",
    "authentication": {
      "providers": [ "string" ],
      "samlConfigurationStatus": "string"
    },
    "created": number,
    "dataSources": [ "string" ],
    "description": "string",
    "endpoint": "string",
    "freeTrialConsumed": boolean,
    "freeTrialExpiration": number,
    "grafanaVersion": "string",
    "id": "string",
    "licenseExpiration": number,
    "licenseType": "string",
    "modified": number,
    "name": "string",
    "notificationDestinations": [ "string" ],
```



```
    "organizationalUnits": [ "string" ],
    "organizationRoleName": "string",
    "permissionType": "string",
    "stackSetName": "string",
    "status": "string",
    "tags": {
      "string" : "string"
    },
    "workspaceRoleArn": "string"
  }
}
```

Response Elements

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

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

[workspace \(p. 26\)](#)

A structure containing information about the workspace.

Type: [WorkspaceDescription \(p. 67\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 75\)](#).

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

InternalServerErrorException

Unexpected error while processing the request. Retry the request.

HTTP Status Code: 500

ResourceNotFoundException

The request references a resource that does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied because of request throttling. Retry the request.

HTTP Status Code: 429

ValidationException

The value of a parameter in the request caused an error.

HTTP Status Code: 400

See Also

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

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

ListPermissions

Lists the users and groups who have the Grafana Admin and Editor roles in this workspace. If you use this operation without specifying `userId` or `groupId`, the operation returns the roles of all users and groups. If you specify a `userId` or a `groupId`, only the roles for that user or group are returned. If you do this, you can specify only one `userId` or one `groupId`.

Request Syntax

```
GET /workspaces/workspaceId/permissions?  
groupId=groupId&maxResults=maxResults&nextToken=nextToken&userId=userId&userType=userType  
HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

groupId (p. 29)

(Optional) Limits the results to only the group that matches this ID.

Length Constraints: Minimum length of 1. Maximum length of 47.

maxResults (p. 29)

The maximum number of results to include in the response.

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

nextToken (p. 29)

The token to use when requesting the next set of results. You received this token from a previous `ListPermissions` operation.

userId (p. 29)

(Optional) Limits the results to only the user that matches this ID.

Length Constraints: Minimum length of 1. Maximum length of 47.

userType (p. 29)

(Optional) If you specify `SSO_USER`, then only the permissions of AWS SSO users are returned. If you specify `SSO_GROUP`, only the permissions of AWS SSO groups are returned.

Valid Values: `SSO_USER` | `SSO_GROUP`

workspaceId (p. 29)

The ID of the workspace to list permissions for. This parameter is required.

Pattern: `^g-[0-9a-f]{10}$`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
  "nextToken": "string",
  "permissions": [
    {
      "role": "string",
      "user": {
        "id": "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.

nextToken (p. 30)

The token to use in a subsequent `ListPermissions` operation to return the next set of results.

Type: String

permissions (p. 30)

The permissions returned by the operation.

Type: Array of [PermissionEntry](#) (p. 58) objects

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 75).

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

InternalServerErrorException

Unexpected error while processing the request. Retry the request.

HTTP Status Code: 500

ResourceNotFoundException

The request references a resource that does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied because of request throttling. Retry the request.

HTTP Status Code: 429

ValidationException

The value of a parameter in the request caused an error.

HTTP Status Code: 400

See Also

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

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

ListTagsForResource

The `ListTagsForResource` operation returns the tags that are associated with the Amazon Managed Service for Grafana resource specified by the `resourceArn`. Currently, the only resource that can be tagged is a workspace.

Request Syntax

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

URI Request Parameters

The request uses the following URI parameters.

[resourceArn \(p. 32\)](#)

The ARN of the resource the list of tags are associated with.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

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

Response Elements

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

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

[tags \(p. 32\)](#)

The list of tags that are associated with the resource.

Type: String to string map

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

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

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

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 75\)](#).

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

InternalServerErrorException

Unexpected error while processing the request. Retry the request.

HTTP Status Code: 500

ResourceNotFoundException

The request references a resource that does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied because of request throttling. Retry the request.

HTTP Status Code: 429

ValidationException

The value of a parameter in the request caused an error.

HTTP Status Code: 400

See Also

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

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

ListWorkspaces

Returns a list of Amazon Managed Grafana workspaces in the account, with some information about each workspace. For more complete information about one workspace, use [DescribeWorkspace](#).

Request Syntax

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

URI Request Parameters

The request uses the following URI parameters.

maxResults (p. 34)

The maximum number of workspaces to include in the results.

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

nextToken (p. 34)

The token for the next set of workspaces to return. (You receive this token from a previous ListWorkspaces operation.)

Request Body

The request does not have a request body.

Response Syntax

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

{
  "nextToken": "string",
  "workspaces": [
    {
      "authentication": {
        "providers": [ "string" ],
        "samlConfigurationStatus": "string"
      },
      "created": number,
      "description": "string",
      "endpoint": "string",
      "grafanaVersion": "string",
      "id": "string",
      "modified": number,
      "name": "string",
      "notificationDestinations": [ "string" ],
      "status": "string",
      "tags": {
        "string" : "string"
      }
    }
  ]
}
```


Response Elements

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

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

nextToken (p. 34)

The token to use when requesting the next set of workspaces.

Type: String

workspaces (p. 34)

An array of structures that contain some information about the workspaces in the account.

Type: Array of [WorkspaceSummary](#) (p. 71) objects

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 75).

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

InternalServerErrorException

Unexpected error while processing the request. Retry the request.

HTTP Status Code: 500

ThrottlingException

The request was denied because of request throttling. Retry the request.

HTTP Status Code: 429

See Also

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

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

TagResource

The `TagResource` operation associates tags with an Amazon Managed Grafana resource. Currently, the only resource that can be tagged is workspaces.

If you specify a new tag key for the resource, this tag is appended to the list of tags associated with the resource. If you specify a tag key that is already associated with the resource, the new tag value that you specify replaces the previous value for that tag.

Request Syntax

```
POST /tags/resourceArn HTTP/1.1
Content-type: application/json

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

URI Request Parameters

The request uses the following URI parameters.

resourceArn (p. 36)

The ARN of the resource the tag is associated with.

Required: Yes

Request Body

The request accepts the following data in JSON format.

tags (p. 36)

The list of tag keys and values to associate with the resource. You can associate tag keys only, tags (key and values) only or a combination of tag keys and tags.

Type: String to string map

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

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

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

Required: Yes

Response Syntax

```
HTTP/1.1 200
```

Response Elements

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

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 75\)](#).

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

InternalServerErrorException

Unexpected error while processing the request. Retry the request.

HTTP Status Code: 500

ResourceNotFoundException

The request references a resource that does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied because of request throttling. Retry the request.

HTTP Status Code: 429

ValidationException

The value of a parameter in the request caused an error.

HTTP Status Code: 400

See Also

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

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

UntagResource

The `UntagResource` operation removes the association of the tag with the Amazon Managed Grafana resource.

Request Syntax

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

URI Request Parameters

The request uses the following URI parameters.

`resourceArn` (p. 38)

The ARN of the resource the tag association is removed from.

Required: Yes

`tagKeys` (p. 38)

The key values of the tag to be removed from the resource.

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

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

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

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 75\)](#).

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

InternalServerErrorException

Unexpected error while processing the request. Retry the request.

HTTP Status Code: 500

ResourceNotFoundException

The request references a resource that does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied because of request throttling. Retry the request.

HTTP Status Code: 429

ValidationException

The value of a parameter in the request caused an error.

HTTP Status Code: 400

See Also

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

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

UpdatePermissions

Updates which users in a workspace have the Grafana Admin or Editor roles.

Request Syntax

```
PATCH /workspaces/workspaceId/permissions HTTP/1.1
Content-type: application/json

{
  "updateInstructionBatch": [
    {
      "action": "string",
      "role": "string",
      "users": [
        {
          "id": "string",
          "type": "string"
        }
      ]
    }
  ]
}
```

URI Request Parameters

The request uses the following URI parameters.

workspaceId (p. 40)

The ID of the workspace to update.

Pattern: `^g-[0-9a-f]{10}$`

Required: Yes

Request Body

The request accepts the following data in JSON format.

updateInstructionBatch (p. 40)

An array of structures that contain the permission updates to make.

Type: Array of [UpdateInstruction](#) (p. 64) objects

Array Members: Minimum number of 0 items. Maximum number of 20 items.

Required: Yes

Response Syntax

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

```
{
  "errors": [
    {
      "causedBy": {
        "action": "string",
        "role": "string",
        "users": [
          {
            "id": "string",
            "type": "string"
          }
        ]
      },
      "code": number,
      "message": "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.

errors (p. 40)

An array of structures that contain the errors from the operation, if any.

Type: Array of [UpdateError](#) (p. 63) objects

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 75).

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

InternalServerErrorException

Unexpected error while processing the request. Retry the request.

HTTP Status Code: 500

ResourceNotFoundException

The request references a resource that does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied because of request throttling. Retry the request.

HTTP Status Code: 429

ValidationException

The value of a parameter in the request caused an error.

HTTP Status Code: 400

See Also

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

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

UpdateWorkspace

Modifies an existing Amazon Managed Grafana workspace. If you use this operation and omit any optional parameters, the existing values of those parameters are not changed.

To modify the user authentication methods that the workspace uses, such as SAML or AWS SSO, use [UpdateWorkspaceAuthentication](#).

To modify which users in the workspace have the Admin and Editor Grafana roles, use [UpdatePermissions](#).

Request Syntax

```
PUT /workspaces/workspaceId HTTP/1.1
Content-type: application/json

{
  "accountAccessType": "string",
  "organizationRoleName": "string",
  "permissionType": "string",
  "stackSetName": "string",
  "workspaceDataSources": [ "string" ],
  "workspaceDescription": "string",
  "workspaceName": "string",
  "workspaceNotificationDestinations": [ "string" ],
  "workspaceOrganizationalUnits": [ "string" ],
  "workspaceRoleArn": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

[workspaceId \(p. 43\)](#)

The ID of the workspace to update.

Pattern: `^g-[0-9a-f]{10}$`

Required: Yes

Request Body

The request accepts the following data in JSON format.

[accountAccessType \(p. 43\)](#)

Specifies whether the workspace can access AWS resources in this AWS account only, or whether it can also access AWS resources in other accounts in the same organization. If you specify ORGANIZATION, you must specify which organizational units the workspace can access in the workspaceOrganizationalUnits parameter.

Type: String

Valid Values: CURRENT_ACCOUNT | ORGANIZATION

Required: No

organizationRoleName (p. 43)

The name of an IAM role that already exists to use to access resources through Organizations.

Type: String

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

Required: No

permissionType (p. 43)

If you specify `Service Managed`, Amazon Managed Grafana automatically creates the IAM roles and provisions the permissions that the workspace needs to use AWS data sources and notification channels.

If you specify `CUSTOMER_MANAGED`, you will manage those roles and permissions yourself. If you are creating this workspace in a member account of an organization and that account is not a delegated administrator account, and you want the workspace to access data sources in other AWS accounts in the organization, you must choose `CUSTOMER_MANAGED`.

For more information, see [Amazon Managed Grafana permissions and policies for AWS data sources and notification channels](#)

Type: String

Valid Values: `CUSTOMER_MANAGED` | `SERVICE_MANAGED`

Required: No

stackSetName (p. 43)

The name of the AWS CloudFormation stack set to use to generate IAM roles to be used for this workspace.

Type: String

Required: No

workspaceDataSources (p. 43)

Specify the AWS data sources that you want to be queried in this workspace. Specifying these data sources here enables Amazon Managed Grafana to create IAM roles and permissions that allow Amazon Managed Grafana to read data from these sources. You must still add them as data sources in the Grafana console in the workspace.

If you don't specify a data source here, you can still add it as a data source later in the workspace console. However, you will then have to manually configure permissions for it.

Type: Array of strings

Valid Values: `AMAZON_OPENSEARCH_SERVICE` | `CLOUDWATCH` | `PROMETHEUS` | `XRAY` | `TIMESTREAM` | `SITewise` | `ATHENA` | `REDSHIFT`

Required: No

workspaceDescription (p. 43)

A description for the workspace. This is used only to help you identify this workspace.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Required: No

[workspaceName \(p. 43\)](#)

A new name for the workspace to update.

Type: String

Pattern: `^[a-zA-Z0-9-._~]{1,255}$`

Required: No

[workspaceNotificationDestinations \(p. 43\)](#)

Specify the AWS notification channels that you plan to use in this workspace. Specifying these data sources here enables Amazon Managed Grafana to create IAM roles and permissions that allow Amazon Managed Grafana to use these channels.

Type: Array of strings

Valid Values: SNS

Required: No

[workspaceOrganizationalUnits \(p. 43\)](#)

Specifies the organizational units that this workspace is allowed to use data sources from, if this workspace is in an account that is part of an organization.

Type: Array of strings

Required: No

[workspaceRoleArn \(p. 43\)](#)

The workspace needs an IAM role that grants permissions to the AWS resources that the workspace will view data from. If you already have a role that you want to use, specify it here. If you omit this field and you specify some AWS resources in `workspaceDataSources` or `workspaceNotificationDestinations`, a new IAM role with the necessary permissions is automatically created.

Type: String

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

Required: No

Response Syntax

```
HTTP/1.1 202
Content-type: application/json

{
  "workspace": {
    "accountAccessType": "string",
    "authentication": {
      "providers": [ "string" ],
      "samlConfigurationStatus": "string"
    },
    "created": number,
    "dataSources": [ "string" ],
    "description": "string",
    "endpoint": "string",
    "freeTrialConsumed": boolean,
```

```
"freeTrialExpiration": number,  
"grafanaVersion": "string",  
"id": "string",  
"licenseExpiration": number,  
"licenseType": "string",  
"modified": number,  
"name": "string",  
"notificationDestinations": [ "string" ],  
"organizationalUnits": [ "string" ],  
"organizationRoleName": "string",  
"permissionType": "string",  
"stackSetName": "string",  
"status": "string",  
"tags": {  
  "string" : "string"  
},  
"workspaceRoleArn": "string"  
}
```

Response Elements

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

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

[workspace \(p. 45\)](#)

A structure containing data about the workspace that was created.

Type: [WorkspaceDescription \(p. 67\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 75\)](#).

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

ConflictException

A resource was in an inconsistent state during an update or a deletion.

HTTP Status Code: 409

InternalServerErrorException

Unexpected error while processing the request. Retry the request.

HTTP Status Code: 500

ResourceNotFoundException

The request references a resource that does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied because of request throttling. Retry the request.

HTTP Status Code: 429

ValidationException

The value of a parameter in the request caused an error.

HTTP Status Code: 400

See Also

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

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

UpdateWorkspaceAuthentication

Use this operation to define the identity provider (IdP) that this workspace authenticates users from, using SAML. You can also map SAML assertion attributes to workspace user information and define which groups in the assertion attribute are to have the `Admin` and `Editor` roles in the workspace.

Request Syntax

```
POST /workspaces/workspaceId/authentication HTTP/1.1  
Content-type: application/json
```

```
{  
  "authenticationProviders": [ "string" ],  
  "samlConfiguration": {  
    "allowedOrganizations": [ "string" ],  
    "assertionAttributes": {  
      "email": "string",  
      "groups": "string",  
      "login": "string",  
      "name": "string",  
      "org": "string",  
      "role": "string"  
    },  
    "idpMetadata": {  
      "url": "string",  
      "xml": "string"  
    },  
    "loginValidityDuration": number,  
    "roleValues": {  
      "admin": [ "string" ],  
      "editor": [ "string" ]  
    }  
  }  
}
```

URI Request Parameters

The request uses the following URI parameters.

workspaceId (p. 48)

The ID of the workspace to update the authentication for.

Pattern: `^g-[0-9a-f]{10}$`

Required: Yes

Request Body

The request accepts the following data in JSON format.

authenticationProviders (p. 48)

Specifies whether this workspace uses SAML 2.0, AWS Single Sign-On, or both to authenticate users for using the Grafana console within a workspace. For more information, see [User authentication in Amazon Managed Grafana](#).

Type: Array of strings

Valid Values: `AWS_SSO` | `SAML`

Required: Yes

[samlConfiguration \(p. 48\)](#)

If the workspace uses SAML, use this structure to map SAML assertion attributes to workspace user information and define which groups in the assertion attribute are to have the `Admin` and `Editor` roles in the workspace.

Type: [SamlConfiguration \(p. 61\)](#) object

Required: No

Response Syntax

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

{
  "authentication": {
    "awsSso": {
      "ssoClientId": "string"
    },
    "providers": [ "string" ],
    "saml": {
      "configuration": {
        "allowedOrganizations": [ "string" ],
        "assertionAttributes": {
          "email": "string",
          "groups": "string",
          "login": "string",
          "name": "string",
          "org": "string",
          "role": "string"
        },
        "idpMetadata": {
          "url": "string",
          "xml": "string"
        },
        "loginValidityDuration": number,
        "roleValues": {
          "admin": [ "string" ],
          "editor": [ "string" ]
        }
      },
      "status": "string"
    }
  }
}
```

Response Elements

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

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

[authentication \(p. 49\)](#)

A structure that describes the user authentication for this workspace after the update is made.

Type: [AuthenticationDescription \(p. 54\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 75\)](#).

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

ConflictException

A resource was in an inconsistent state during an update or a deletion.

HTTP Status Code: 409

InternalServerErrorException

Unexpected error while processing the request. Retry the request.

HTTP Status Code: 500

ResourceNotFoundException

The request references a resource that does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied because of request throttling. Retry the request.

HTTP Status Code: 429

ValidationException

The value of a parameter in the request caused an error.

HTTP Status Code: 400

See Also

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

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

Data Types

The Amazon Managed Grafana 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:

- [AssertionAttributes](#) (p. 52)
- [AuthenticationDescription](#) (p. 54)
- [AuthenticationSummary](#) (p. 55)
- [AwsSsoAuthentication](#) (p. 56)
- [IdpMetadata](#) (p. 57)
- [PermissionEntry](#) (p. 58)
- [RoleValues](#) (p. 59)
- [SamlAuthentication](#) (p. 60)
- [SamlConfiguration](#) (p. 61)
- [UpdateError](#) (p. 63)
- [UpdateInstruction](#) (p. 64)
- [User](#) (p. 65)
- [ValidationExceptionField](#) (p. 66)
- [WorkspaceDescription](#) (p. 67)
- [WorkspaceSummary](#) (p. 71)

AssertionAttributes

A structure that defines which attributes in the IdP assertion are to be used to define information about the users authenticated by the IdP to use the workspace.

Contents

email

The name of the attribute within the SAML assertion to use as the email names for SAML users.

Type: String

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

Required: No

groups

The name of the attribute within the SAML assertion to use as the user full "friendly" names for user groups.

Type: String

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

Required: No

login

The name of the attribute within the SAML assertion to use as the login names for SAML users.

Type: String

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

Required: No

name

The name of the attribute within the SAML assertion to use as the user full "friendly" names for SAML users.

Type: String

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

Required: No

org

The name of the attribute within the SAML assertion to use as the user full "friendly" names for the users' organizations.

Type: String

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

Required: No

role

The name of the attribute within the SAML assertion to use as the user roles.

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

AuthenticationDescription

A structure containing information about the user authentication methods used by the workspace.

Contents

awsSso

A structure containing information about how this workspace works with AWS SSO.

Type: [AwsSsoAuthentication \(p. 56\)](#) object

Required: No

providers

Specifies whether this workspace uses AWS SSO, SAML, or both methods to authenticate users to use the Grafana console in the Amazon Managed Grafana workspace.

Type: Array of strings

Valid Values: `AWS_SSO` | `SAML`

Required: Yes

saml

A structure containing information about how this workspace works with SAML, including what attributes within the assertion are to be mapped to user information in the workspace.

Type: [SamlAuthentication \(p. 60\)](#) 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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

AuthenticationSummary

A structure that describes whether the workspace uses SAML, AWS SSO, or both methods for user authentication, and whether that authentication is fully configured.

Contents

providers

Specifies whether the workspace uses SAML, AWS SSO, or both methods for user authentication.

Type: Array of strings

Valid Values: `AWS_SSO` | `SAML`

Required: Yes

samlConfigurationStatus

Specifies whether the workplace's user authentication method is fully configured.

Type: String

Valid Values: `CONFIGURED` | `NOT_CONFIGURED`

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

AwsSsoAuthentication

A structure containing information about how this workspace works with AWS SSO.

Contents

ssoClientId

The ID of the AWS SSO-managed application that is created by Amazon Managed Grafana.

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

IdpMetadata

A structure containing the identity provider (IdP) metadata used to integrate the identity provider with this workspace. You can specify the metadata either by providing a URL to its location in the `url` parameter, or by specifying the full metadata in XML format in the `xml` parameter.

Contents

url

The URL of the location containing the metadata.

Type: String

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

Required: No

xml

The actual full metadata file, in XML format.

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

PermissionEntry

A structure containing the identity of one user or group and the `Admin` or `Editor` role that they have.

Contents

role

Specifies whether the user or group has the `Admin` or `Editor` role.

Type: String

Valid Values: `ADMIN` | `EDITOR` | `VIEWER`

Required: Yes

user

A structure with the ID of the user or group with this role.

Type: [User \(p. 65\)](#) object

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

RoleValues

This structure defines which groups defined in the SAML assertion attribute are to be mapped to the Grafana `Admin` and `Editor` roles in the workspace.

Contents

admin

A list of groups from the SAML assertion attribute to grant the Grafana `Admin` role to.

Type: Array of strings

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

Required: No

editor

A list of groups from the SAML assertion attribute to grant the Grafana `Editor` role to.

Type: Array of strings

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

SamlAuthentication

A structure containing information about how this workspace works with SAML.

Contents

configuration

A structure containing details about how this workspace works with SAML.

Type: [SamlConfiguration \(p. 61\)](#) object

Required: No

status

Specifies whether the workspace's SAML configuration is complete.

Type: String

Valid Values: CONFIGURED | NOT_CONFIGURED

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

SamlConfiguration

A structure containing information about how this workspace works with SAML.

Contents

allowedOrganizations

Lists which organizations defined in the SAML assertion are allowed to use the Amazon Managed Grafana workspace. If this is empty, all organizations in the assertion attribute have access.

Type: Array of strings

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

Required: No

assertionAttributes

A structure that defines which attributes in the SAML assertion are to be used to define information about the users authenticated by that IdP to use the workspace.

Type: [AssertionAttributes \(p. 52\)](#) object

Required: No

idpMetadata

A structure containing the identity provider (IdP) metadata used to integrate the identity provider with this workspace.

Type: [IdpMetadata \(p. 57\)](#) object

Required: Yes

loginValidityDuration

How long a sign-on session by a SAML user is valid, before the user has to sign on again.

Type: Integer

Required: No

roleValues

A structure containing arrays that map group names in the SAML assertion to the Grafana `Admin` and `Editor` roles in the workspace.

Type: [RoleValues \(p. 59\)](#) 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 Go](#)
- [AWS SDK for Java V2](#)

- [AWS SDK for Ruby V3](#)

UpdateError

A structure containing information about one error encountered while performing an [UpdatePermissions](#) operation.

Contents

causedBy

Specifies which permission update caused the error.

Type: [UpdateInstruction \(p. 64\)](#) object

Required: Yes

code

The error code.

Type: Integer

Valid Range: Minimum value of 100. Maximum value of 999.

Required: Yes

message

The message for this error.

Type: String

Required: Yes

See Also

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

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

UpdateInstruction

Contains the instructions for one Grafana role permission update in a [UpdatePermissions](#) operation.

Contents

action

Specifies whether this update is to add or revoke role permissions.

Type: String

Valid Values: `ADD` | `REVOKE`

Required: Yes

role

The role to add or revoke for the user or the group specified in `users`.

Type: String

Valid Values: `ADMIN` | `EDITOR` | `VIEWER`

Required: Yes

users

A structure that specifies the user or group to add or revoke the role for.

Type: Array of [User \(p. 65\)](#) objects

Required: Yes

See Also

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

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

User

A structure that specifies one user or group in the workspace.

Contents

id

The ID of the user or group.

Pattern: `^[0-9a-fA-F]{10}-|[A-Fa-f0-9]{8}-[A-Fa-f0-9]{4}-[A-Fa-f0-9]{4}-[A-Fa-f0-9]{4}-[A-Fa-f0-9]{12}$`

Type: String

Length Constraints: Minimum length of 1. Maximum length of 47.

Required: Yes

type

Specifies whether this is a single user or a group.

Type: String

Valid Values: `SSO_USER` | `SSO_GROUP`

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

ValidationExceptionField

A structure that contains information about a request parameter that caused an error.

Contents

message

A message describing why this field couldn't be validated.

Type: String

Required: Yes

name

The name of the field that caused the validation error.

Type: String

Required: Yes

See Also

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

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

WorkspaceDescription

A structure containing information about an Amazon Managed Grafana workspace in your account.

Contents

accountAccessType

Specifies whether the workspace can access AWS resources in this AWS account only, or whether it can also access AWS resources in other accounts in the same organization. If this is `ORGANIZATION`, the `workspaceOrganizationalUnits` parameter specifies which organizational units the workspace can access.

Type: String

Valid Values: `CURRENT_ACCOUNT` | `ORGANIZATION`

Required: No

authentication

A structure that describes whether the workspace uses SAML, AWS SSO, or both methods for user authentication.

Type: [AuthenticationSummary \(p. 55\)](#) object

Required: Yes

created

The date that the workspace was created.

Type: Timestamp

Required: Yes

dataSources

Specifies the AWS data sources that have been configured to have IAM roles and permissions created to allow Amazon Managed Grafana to read data from these sources.

Type: Array of strings

Valid Values: `AMAZON_OPENSEARCH_SERVICE` | `CLOUDWATCH` | `PROMETHEUS` | `XRAY` | `TIMESTREAM` | `SITewise` | `ATHENA` | `REDSHIFT`

Required: Yes

description

The user-defined description of the workspace.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Required: No

endpoint

The URL that users can use to access the Grafana console in the workspace.

Type: String

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

Required: Yes

freeTrialConsumed

Specifies whether this workspace has already fully used its free trial for Grafana Enterprise.

Type: Boolean

Required: No

freeTrialExpiration

If this workspace is currently in the free trial period for Grafana Enterprise, this value specifies when that free trial ends.

Type: Timestamp

Required: No

grafanaVersion

The version of Grafana supported in this workspace.

Type: String

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

Required: Yes

id

The unique ID of this workspace.

Type: String

Pattern: `^g-[0-9a-f]{10}$`

Required: Yes

licenseExpiration

If this workspace has a full Grafana Enterprise license, this specifies when the license ends and will need to be renewed.

Type: Timestamp

Required: No

licenseType

Specifies whether this workspace has a full Grafana Enterprise license or a free trial license.

Type: String

Valid Values: `ENTERPRISE` | `ENTERPRISE_FREE_TRIAL`

Required: No

modified

The most recent date that the workspace was modified.

Type: Timestamp

Required: Yes

name

The name of the workspace.

Type: String

Pattern: `^[a-zA-Z0-9-._~]{1,255}$`

Required: No

notificationDestinations

The AWS notification channels that Amazon Managed Grafana can automatically create IAM roles and permissions for, to allow Amazon Managed Grafana to use these channels.

Type: Array of strings

Valid Values: SNS

Required: No

organizationalUnits

Specifies the organizational units that this workspace is allowed to use data sources from, if this workspace is in an account that is part of an organization.

Type: Array of strings

Required: No

organizationRoleName

The name of the IAM role that is used to access resources through Organizations.

Type: String

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

Required: No

permissionType

If this is `Service Managed`, Amazon Managed Grafana automatically creates the IAM roles and provisions the permissions that the workspace needs to use AWS data sources and notification channels.

If this is `CUSTOMER_MANAGED`, you manage those roles and permissions yourself. If you are creating this workspace in a member account of an organization and that account is not a delegated administrator account, and you want the workspace to access data sources in other AWS accounts in the organization, you must choose `CUSTOMER_MANAGED`.

For more information, see [Amazon Managed Grafana permissions and policies for AWS data sources and notification channels](#)

Type: String

Valid Values: `CUSTOMER_MANAGED` | `SERVICE_MANAGED`

Required: No

stackSetName

The name of the AWS CloudFormation stack set that is used to generate IAM roles to be used for this workspace.

Type: String

Required: No

status

The current status of the workspace.

Type: String

Valid Values: ACTIVE | CREATING | DELETING | FAILED | UPDATING | UPGRADING
| DELETION_FAILED | CREATION_FAILED | UPDATE_FAILED | UPGRADE_FAILED |
LICENSE_REMOVAL_FAILED

Required: Yes

tags

The list of tags associated with the workspace.

Type: String to string map

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

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

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

Required: No

workspaceRoleArn

The IAM role that grants permissions to the AWS resources that the workspace will view data from.
This role must already exist.

Type: String

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

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

WorkspaceSummary

A structure that contains some information about one workspace in the account.

Contents

authentication

A structure containing information about the authentication methods used in the workspace.

Type: [AuthenticationSummary \(p. 55\)](#) object

Required: Yes

created

The date that the workspace was created.

Type: Timestamp

Required: Yes

description

The customer-entered description of the workspace.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Required: No

endpoint

The URL endpoint to use to access the Grafana console in the workspace.

Type: String

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

Required: Yes

grafanaVersion

The Grafana version that the workspace is running.

Type: String

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

Required: Yes

id

The unique ID of the workspace.

Type: String

Pattern: `^g-[0-9a-f]{10}$`

Required: Yes

modified

The most recent date that the workspace was modified.

Type: Timestamp

Required: Yes

name

The name of the workspace.

Type: String

Pattern: `^[a-zA-Z0-9-._~]{1,255}$`

Required: No

notificationDestinations

The AWS notification channels that Amazon Managed Grafana can automatically create IAM roles and permissions for, which allows Amazon Managed Grafana to use these channels.

Type: Array of strings

Valid Values: SNS

Required: No

status

The current status of the workspace.

Type: String

Valid Values: ACTIVE | CREATING | DELETING | FAILED | UPDATING | UPGRADING
| DELETION_FAILED | CREATION_FAILED | UPDATE_FAILED | UPGRADE_FAILED |
LICENSE_REMOVAL_FAILED

Required: Yes

tags

The list of tags associated with the workspace.

Type: String to string map

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

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

Value 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 Go](#)
- [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 [Signature Version 4 Signing Process](#) in the *Amazon Web Services General Reference*.

Action

The action to be performed.

Type: string

Required: Yes

Version

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

Type: string

Required: Yes

X-Amz-Algorithm

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

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

Type: string

Valid Values: `AWS4-HMAC-SHA256`

Required: Conditional

X-Amz-Credential

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

For more information, see [Task 2: Create a String to Sign for Signature Version 4](#) in the *Amazon Web Services General Reference*.

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'THHMMSS'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 [Handling Dates in Signature Version 4](#) in the *Amazon Web Services General Reference*.

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 Security Token Service, go to [AWS Services That Work with IAM](#) in the *IAM User Guide*.

Condition: If you're using temporary security credentials from the AWS Security Token Service, 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 [Task 1: Create a Canonical Request For Signature Version 4](#) in the *Amazon Web Services General Reference*.

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

Type: string

Required: Conditional

Common Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 400

IncompleteSignature

The request signature does not conform to AWS standards.

HTTP Status Code: 400

InternalFailure

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

HTTP Status Code: 500

InvalidAction

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

HTTP Status Code: 400

InvalidClientTokenId

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

HTTP Status Code: 403

InvalidParameterCombination

Parameters that must not be used together were used together.

HTTP Status Code: 400

InvalidParameterValue

An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

InvalidQueryParameter

The AWS query string is malformed or does not adhere to AWS standards.

HTTP Status Code: 400

MalformedQueryString

The query string contains a syntax error.

HTTP Status Code: 404

MissingAction

The request is missing an action or a required parameter.

HTTP Status Code: 400

MissingAuthenticationToken

The request must contain either a valid (registered) AWS access key ID or X.509 certificate.

HTTP Status Code: 403

MissingParameter

A required parameter for the specified action is not supplied.

HTTP Status Code: 400

NotAuthorized

You do not have permission to perform this action.

HTTP Status Code: 400

OptInRequired

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

HTTP Status Code: 403

RequestExpired

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

HTTP Status Code: 400

ServiceUnavailable

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

HTTP Status Code: 503

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 400

ValidationError

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

HTTP Status Code: 400