aws

API Reference

Amazon Managed Grafana

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Amazon Managed Grafana: API Reference

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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 November 11, 2026.

Actions

The following actions are supported:

- AssociateLicense
- CreateWorkspace
- CreateWorkspaceApiKey
- CreateWorkspaceServiceAccount
- CreateWorkspaceServiceAccountToken
- DeleteWorkspace
- DeleteWorkspaceApiKey
- DeleteWorkspaceServiceAccount
- DeleteWorkspaceServiceAccountToken
- DescribeWorkspace
- DescribeWorkspaceAuthentication
- DescribeWorkspaceConfiguration
- DisassociateLicense
- ListPermissions
- ListTagsForResource
- ListVersions
- ListWorkspaces
- ListWorkspaceServiceAccounts
- ListWorkspaceServiceAccountTokens
- TagResource
- UntagResource
- UpdatePermissions
- UpdateWorkspace
- UpdateWorkspaceAuthentication
- UpdateWorkspaceConfiguration

AssociateLicense

Assigns a Grafana Enterprise license to a workspace. To upgrade, you must use `ENTERPRISE` for the `licenseType`, and pass in a valid Grafana Labs token for the `grafanaToken`. 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
Grafana-Token: grafanaToken
```

URI Request Parameters

The request uses the following URI parameters.

grafanaToken

A token from Grafana Labs that ties your AWS account with a Grafana Labs account. For more information, see Link your account with Grafana Labs.

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

licenseType

The type of license to associate with the workspace.

> **Note**
>
> Amazon Managed Grafana workspaces no longer support Grafana Enterprise free trials.

Valid Values: `ENTERPRISE | ENTERPRISE_FREE_TRIAL`

Required: Yes

workspaceId

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" ],
      "degradedWorkspaceReason": "string",
      "description": "string",
      "endpoint": "string",
      "freeTrialConsumed": boolean,
      "freeTrialExpiration": number,
      "grafanaToken": "string",
      "grafanaVersion": "string",
      "id": "string",
      "ipAddressType": "string",
      "kmsKeyId": "string",
      "licenseExpiration": number,
      "licenseType": "string",
      "modified": number,
      "name": "string",
      "networkAccessControl": {
         "prefixListIds": [ "string" ],
         "vpceIds": [ "string" ]
      },
      "notificationDestinations": [ "string" ],
      "organizationalUnits": [ "string" ],
      "organizationRoleName": "string",
      "permissionType": "string",
      "stackSetName": "string",
      "status": "string",
      "tags": {
```

```
         "string" : "string"
      },
      "vpcConfiguration": {
         "securityGroupIds": [ "string" ],
         "subnetIds": [ "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

A structure containing data about the workspace.

Type: WorkspaceDescription object

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

InternalServerException

Unexpected error while processing the request. Retry the request.

message

A description of the error.

retryAfterSeconds

How long to wait before you retry this operation.

HTTP Status Code: 500

ResourceNotFoundException

The request references a resource that does not exist.

message

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

resourceId

The ID of the resource that is associated with the error.

resourceType

The type of the resource that is associated with the error.

HTTP Status Code: 404

ThrottlingException

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

message

A description of the error.

quotaCode

The ID of the service quota that was exceeded.

retryAfterSeconds

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

serviceCode

The ID of the service that is associated with the error.

HTTP Status Code: 429

ValidationException

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

fieldList

A list of fields that might be associated with the error.

message

A description of the error.

reason

The reason that the operation 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

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",
   "configuration": "string",
   "grafanaVersion": "string",
   "ipAddressType": "string",
   "kmsKeyId": "string",
   "networkAccessControl": {
      "prefixListIds": [ "string" ],
      "vpceIds": [ "string" ]
   },
   "organizationRoleName": "string",
   "permissionType": "string",
   "stackSetName": "string",
   "tags": {
      "string" : "string"
   },
   "vpcConfiguration": {
      "securityGroupIds": [ "string" ],
      "subnetIds": [ "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

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

Specifies whether this workspace uses SAML 2.0, AWS IAM Identity Center, 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

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

Type: String

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

Required: No

configuration

The configuration string for the workspace that you create. For more information about the format and configuration options available, see Working in your Grafana workspace.

Type: String

Length Constraints: Minimum length of 2. Maximum length of 65536.

Required: No

grafanaVersion

Specifies the version of Grafana to support in the new workspace. If not specified, defaults to the latest version (for example, 10.4).

To get a list of supported versions, use the `ListVersions` operation.

Type: String

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

Required: No

ipAddressType

Specifies whether the workspace supports IPv4 only, or IPv4 and IPv6. Valid values are `IPv4` and `DualStack`. For more information about IP address types, see Network access control.

Type: String

Valid Values: `IPv4 | DualStack`

Required: No

kmsKeyId

The ID or ARN of the AWS Key Management Service key to use for encrypting workspace data.

Type: String

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

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

Required: No

networkAccessControl

Configuration for network access to your workspace.

When this is configured, only listed IP addresses and VPC endpoints will be able to access your workspace. Standard Grafana authentication and authorization will still be required.

If this is not configured, or is removed, then all IP addresses and VPC endpoints will be allowed. Standard Grafana authentication and authorization will still be required.

Type: NetworkAccessConfiguration object

Required: No

organizationRoleName

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

When creating a workspace through the AWS API, CLI or AWS CloudFormation, you must manage IAM roles and provision the permissions that the workspace needs to use AWS data sources and notification channels.

You must also specify a `workspaceRoleArn` for a role that you will manage for the workspace to use when accessing those datasources and notification channels.

The ability for Amazon Managed Grafana to create and update IAM roles on behalf of the user is supported only in the Amazon Managed Grafana console, where this value may be set to `SERVICE_MANAGED`.

> **Note**
>
> Use only the `CUSTOMER_MANAGED` permission type when creating a workspace with the API, CLI or AWS CloudFormation.

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

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

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

vpcConfiguration

The configuration settings for an Amazon VPC that contains data sources for your Grafana workspace to connect to.

> **Note**
>
> Connecting to a private VPC is not yet available in the Asia Pacific (Seoul) Region (ap-northeast-2).

Type: VpcConfiguration object

Required: No

workspaceDataSources

This parameter is for internal use only, and should not be used.

Type: Array of strings

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

Required: No

workspaceDescription

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

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

Type: String

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

Required: No

workspaceNotificationDestinations

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

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

Specified the IAM role that grants permissions to the AWS resources that the workspace will view data from, including both data sources and notification channels. You are responsible for managing the permissions for this role as new data sources or notification channels are added.

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" ],
      "degradedWorkspaceReason": "string",
      "description": "string",
      "endpoint": "string",
      "freeTrialConsumed": boolean,
      "freeTrialExpiration": number,
      "grafanaToken": "string",
      "grafanaVersion": "string",
      "id": "string",
```

```
      "ipAddressType": "string",
      "kmsKeyId": "string",
      "licenseExpiration": number,
      "licenseType": "string",
      "modified": number,
      "name": "string",
      "networkAccessControl": {
         "prefixListIds": [ "string" ],
         "vpceIds": [ "string" ]
      },
      "notificationDestinations": [ "string" ],
      "organizationalUnits": [ "string" ],
      "organizationRoleName": "string",
      "permissionType": "string",
      "stackSetName": "string",
      "status": "string",
      "tags": {
         "string" : "string"
      },
      "vpcConfiguration": {
         "securityGroupIds": [ "string" ],
         "subnetIds": [ "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

A structure containing data about the workspace that was created.

Type: WorkspaceDescription object

Errors

For information about the errors that are common to all actions, see Common Error Types.

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.

message

A description of the error.

resourceId

The ID of the resource that is associated with the error.

resourceType

The type of the resource that is associated with the error.

HTTP Status Code: 409

InternalServerException

Unexpected error while processing the request. Retry the request.

message

A description of the error.

retryAfterSeconds

How long to wait before you retry this operation.

HTTP Status Code: 500

ServiceQuotaExceededException

The request would cause a service quota to be exceeded.

message

A description of the error.

quotaCode

The ID of the service quota that was exceeded.

resourceId

The ID of the resource that is associated with the error.

resourceType

The type of the resource that is associated with the error.

serviceCode

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

HTTP Status Code: 402

ThrottlingException

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

message

A description of the error.

quotaCode

The ID of the service quota that was exceeded.

retryAfterSeconds

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

serviceCode

The ID of the service that is associated with the error.

HTTP Status Code: 429

ValidationException

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

fieldList

A list of fields that might be associated with the error.

message

A description of the error.

reason

The reason that the operation 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

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.

> **Note**
>
> In workspaces compatible with Grafana version 9 or above, use workspace service accounts instead of API keys. API keys will be removed in a future release.

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

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

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

Specifies the permission level of the key.

Valid values: `ADMIN|EDITOR|VIEWER`

Type: String

Required: Yes

secondsToLive

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

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

Type: String

keyName

The name of the key that was created.

Type: String

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

workspaceId

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 Error Types.

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.

message

A description of the error.

resourceId

The ID of the resource that is associated with the error.

resourceType

The type of the resource that is associated with the error.

HTTP Status Code: 409

InternalServerException

Unexpected error while processing the request. Retry the request.

message

A description of the error.

retryAfterSeconds

How long to wait before you retry this operation.

HTTP Status Code: 500

ResourceNotFoundException

The request references a resource that does not exist.

message

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

resourceId

The ID of the resource that is associated with the error.

resourceType

The type of the resource that is associated with the error.

HTTP Status Code: 404

ServiceQuotaExceededException

The request would cause a service quota to be exceeded.

message

A description of the error.

quotaCode

The ID of the service quota that was exceeded.

resourceId

The ID of the resource that is associated with the error.

resourceType

The type of the resource that is associated with the error.

serviceCode

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

HTTP Status Code: 402

ThrottlingException

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

message

A description of the error.

quotaCode

The ID of the service quota that was exceeded.

retryAfterSeconds

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

serviceCode

The ID of the service that is associated with the error.

HTTP Status Code: 429

ValidationException

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

fieldList

A list of fields that might be associated with the error.

message

A description of the error.

reason

The reason that the operation 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

CreateWorkspaceServiceAccount

Creates a service account for the workspace. A service account can be used to call Grafana HTTP APIs, and run automated workloads. After creating the service account with the correct `GrafanaRole` for your use case, use `CreateWorkspaceServiceAccountToken` to create a token that can be used to authenticate and authorize Grafana HTTP API calls.

You can only create service accounts for workspaces that are compatible with Grafana version 9 and above.

> **Note**
>
> For more information about service accounts, see Service accounts in the *Amazon Managed Grafana User Guide*.
> For more information about the Grafana HTTP APIs, see Using Grafana HTTP APIs in the *Amazon Managed Grafana User Guide*.

Request Syntax

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

{
   "grafanaRole": "string",
   "name": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

workspaceId

The ID of the workspace within which to create the service account.

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

Required: Yes

Request Body

The request accepts the following data in JSON format.

grafanaRole

The permission level to use for this service account.

> **Note**
>
> For more information about the roles and the permissions each has, see User roles in the *Amazon Managed Grafana User Guide*.

Type: String

Valid Values: `ADMIN | EDITOR | VIEWER`

Required: Yes

name

A name for the service account. The name must be unique within the workspace, as it determines the ID associated with the service account.

Type: String

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

Required: Yes

Response Syntax

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

{
   "grafanaRole": "string",
   "id": "string",
   "name": "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.

grafanaRole

The permission level given to the service account.

Type: String

Valid Values: `ADMIN | EDITOR | VIEWER`

id

The ID of the service account.

Type: String

name

The name of the service account.

Type: String

workspaceId

The workspace with which the service account is associated.

Type: String

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

Errors

For information about the errors that are common to all actions, see Common Error Types.

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.

message

A description of the error.

resourceId

The ID of the resource that is associated with the error.

resourceType

The type of the resource that is associated with the error.

HTTP Status Code: 409

InternalServerException

Unexpected error while processing the request. Retry the request.

message

A description of the error.

retryAfterSeconds

How long to wait before you retry this operation.

HTTP Status Code: 500

ResourceNotFoundException

The request references a resource that does not exist.

message

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

resourceId

The ID of the resource that is associated with the error.

resourceType

The type of the resource that is associated with the error.

HTTP Status Code: 404

ServiceQuotaExceededException

The request would cause a service quota to be exceeded.

message

A description of the error.

quotaCode

The ID of the service quota that was exceeded.

resourceId

The ID of the resource that is associated with the error.

resourceType

The type of the resource that is associated with the error.

serviceCode

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

HTTP Status Code: 402

ThrottlingException

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

message

A description of the error.

quotaCode

The ID of the service quota that was exceeded.

retryAfterSeconds

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

serviceCode

The ID of the service that is associated with the error.

HTTP Status Code: 429

ValidationException

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

fieldList

A list of fields that might be associated with the error.

message

A description of the error.

reason

The reason that the operation 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

CreateWorkspaceServiceAccountToken

Creates a token that can be used to authenticate and authorize Grafana HTTP API operations for the given workspace service account. The service account acts as a user for the API operations, and defines the permissions that are used by the API.

> **Important**
>
> When you create the service account token, you will receive a key that is used when calling Grafana APIs. Do not lose this key, as it will not be retrievable again.
> If you do lose the key, you can delete the token and recreate it to receive a new key. This will disable the initial key.

Service accounts are only available for workspaces that are compatible with Grafana version 9 and above.

Request Syntax

```
POST /workspaces/workspaceId/serviceaccounts/serviceAccountId/tokens HTTP/1.1
Content-type: application/json

{
   "name": "string",
   "secondsToLive": number
}
```

URI Request Parameters

The request uses the following URI parameters.

serviceAccountId

The ID of the service account for which to create a token.

Required: Yes

workspaceId

The ID of the workspace the service account resides within.

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

Required: Yes

Request Body

The request accepts the following data in JSON format.

name

A name for the token to create.

Type: String

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

Required: Yes

secondsToLive

Sets how long the token will be valid, in seconds. You can set the time up to 30 days in the future.

Type: Integer

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

Required: Yes

Response Syntax

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

{
   "serviceAccountId": "string",
   "serviceAccountToken": {
      "id": "string",
      "key": "string",
      "name": "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.

serviceAccountId

The ID of the service account where the token was created.

Type: String

serviceAccountToken

Information about the created token, including the key. Be sure to store the key securely.

Type: ServiceAccountTokenSummaryWithKey object

workspaceId

The ID of the workspace where the token was created.

Type: String

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

Errors

For information about the errors that are common to all actions, see Common Error Types.

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.

message

A description of the error.

resourceId

The ID of the resource that is associated with the error.

resourceType

The type of the resource that is associated with the error.

HTTP Status Code: 409

InternalServerException

Unexpected error while processing the request. Retry the request.

message

A description of the error.

retryAfterSeconds

How long to wait before you retry this operation.

HTTP Status Code: 500

ResourceNotFoundException

The request references a resource that does not exist.

message

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

resourceId

The ID of the resource that is associated with the error.

resourceType

The type of the resource that is associated with the error.

HTTP Status Code: 404

ServiceQuotaExceededException

The request would cause a service quota to be exceeded.

message

A description of the error.

quotaCode

The ID of the service quota that was exceeded.

resourceId

The ID of the resource that is associated with the error.

resourceType

The type of the resource that is associated with the error.

serviceCode

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

HTTP Status Code: 402

ThrottlingException

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

message

A description of the error.

quotaCode

The ID of the service quota that was exceeded.

retryAfterSeconds

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

serviceCode

The ID of the service that is associated with the error.

HTTP Status Code: 429

ValidationException

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

fieldList

A list of fields that might be associated with the error.

message

A description of the error.

reason

The reason that the operation 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

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

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" ],
      "degradedWorkspaceReason": "string",
      "description": "string",
      "endpoint": "string",
```

```
      "freeTrialConsumed": boolean,
      "freeTrialExpiration": number,
      "grafanaToken": "string",
      "grafanaVersion": "string",
      "id": "string",
      "ipAddressType": "string",
      "kmsKeyId": "string",
      "licenseExpiration": number,
      "licenseType": "string",
      "modified": number,
      "name": "string",
      "networkAccessControl": {
         "prefixListIds": [ "string" ],
         "vpceIds": [ "string" ]
      },
      "notificationDestinations": [ "string" ],
      "organizationalUnits": [ "string" ],
      "organizationRoleName": "string",
      "permissionType": "string",
      "stackSetName": "string",
      "status": "string",
      "tags": {
         "string" : "string"
      },
      "vpcConfiguration": {
         "securityGroupIds": [ "string" ],
         "subnetIds": [ "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

A structure containing information about the workspace that was deleted.

Type: WorkspaceDescription object

Errors

For information about the errors that are common to all actions, see Common Error Types.

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.

message

A description of the error.

resourceId

The ID of the resource that is associated with the error.

resourceType

The type of the resource that is associated with the error.

HTTP Status Code: 409

InternalServerException

Unexpected error while processing the request. Retry the request.

message

A description of the error.

retryAfterSeconds

How long to wait before you retry this operation.

HTTP Status Code: 500

ResourceNotFoundException

The request references a resource that does not exist.

message

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

resourceId

The ID of the resource that is associated with the error.

resourceType

The type of the resource that is associated with the error.

HTTP Status Code: 404

ThrottlingException

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

message

A description of the error.

quotaCode

The ID of the service quota that was exceeded.

retryAfterSeconds

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

serviceCode

The ID of the service that is associated with the error.

HTTP Status Code: 429

ValidationException

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

fieldList

A list of fields that might be associated with the error.

message

A description of the error.

reason

The reason that the operation 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

DeleteWorkspaceApiKey

Deletes a Grafana API key for the workspace.

> **Note**
>
> In workspaces compatible with Grafana version 9 or above, use workspace service accounts instead of API keys. API keys will be removed in a future release.

Request Syntax

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

URI Request Parameters

The request uses the following URI parameters.

keyName

The name of the API key to delete.

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

Required: Yes

workspaceId

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

The name of the key that was deleted.

Type: String

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

workspaceId

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 Error Types.

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.

message

A description of the error.

resourceId

The ID of the resource that is associated with the error.

resourceType

The type of the resource that is associated with the error.

HTTP Status Code: 409

InternalServerException

Unexpected error while processing the request. Retry the request.

message

A description of the error.

retryAfterSeconds

How long to wait before you retry this operation.

HTTP Status Code: 500

ResourceNotFoundException

The request references a resource that does not exist.

message

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

resourceId

The ID of the resource that is associated with the error.

resourceType

The type of the resource that is associated with the error.

HTTP Status Code: 404

ThrottlingException

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

message

A description of the error.

quotaCode

The ID of the service quota that was exceeded.

retryAfterSeconds

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

serviceCode

The ID of the service that is associated with the error.

HTTP Status Code: 429

ValidationException

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

fieldList

A list of fields that might be associated with the error.

message

A description of the error.

reason

The reason that the operation 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

DeleteWorkspaceServiceAccount

Deletes a workspace service account from the workspace.

This will delete any tokens created for the service account, as well. If the tokens are currently in use, the will fail to authenticate / authorize after they are deleted.

Service accounts are only available for workspaces that are compatible with Grafana version 9 and above.

Request Syntax

```
DELETE /workspaces/workspaceId/serviceaccounts/serviceAccountId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

serviceAccountId

The ID of the service account to delete.

Required: Yes

workspaceId

The ID of the workspace where the service account resides.

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
```

```
{
   "serviceAccountId": "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.

serviceAccountId

The ID of the service account deleted.

Type: String

workspaceId

The ID of the workspace where the service account was deleted.

Type: String

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

Errors

For information about the errors that are common to all actions, see Common Error Types.

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.

message

A description of the error.

resourceId

The ID of the resource that is associated with the error.

resourceType

The type of the resource that is associated with the error.

HTTP Status Code: 409

InternalServerException

Unexpected error while processing the request. Retry the request.

message

A description of the error.

retryAfterSeconds

How long to wait before you retry this operation.

HTTP Status Code: 500

ResourceNotFoundException

The request references a resource that does not exist.

message

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

resourceId

The ID of the resource that is associated with the error.

resourceType

The type of the resource that is associated with the error.

HTTP Status Code: 404

ThrottlingException

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

message

A description of the error.

quotaCode

The ID of the service quota that was exceeded.

retryAfterSeconds

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

serviceCode

The ID of the service that is associated with the error.

HTTP Status Code: 429

ValidationException

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

fieldList

A list of fields that might be associated with the error.

message

A description of the error.

reason

The reason that the operation 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

DeleteWorkspaceServiceAccountToken

Deletes a token for the workspace service account.

This will disable the key associated with the token. If any automation is currently using the key, it will no longer be authenticated or authorized to perform actions with the Grafana HTTP APIs.

Service accounts are only available for workspaces that are compatible with Grafana version 9 and above.

Request Syntax

```
DELETE /workspaces/workspaceId/serviceaccounts/serviceAccountId/tokens/tokenId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

serviceAccountId

The ID of the service account from which to delete the token.

Required: Yes

tokenId

The ID of the token to delete.

Required: Yes

workspaceId

The ID of the workspace from which to delete the token.

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

{
   "serviceAccountId": "string",
   "tokenId": "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.

serviceAccountId

The ID of the service account where the token was deleted.

Type: String

tokenId

The ID of the token that was deleted.

Type: String

workspaceId

The ID of the workspace where the token was deleted.

Type: String

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

Errors

For information about the errors that are common to all actions, see Common Error Types.

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.

message

A description of the error.

resourceId

The ID of the resource that is associated with the error.

resourceType

The type of the resource that is associated with the error.

HTTP Status Code: 409

InternalServerException

Unexpected error while processing the request. Retry the request.

message

A description of the error.

retryAfterSeconds

How long to wait before you retry this operation.

HTTP Status Code: 500

ResourceNotFoundException

The request references a resource that does not exist.

message

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

resourceId

The ID of the resource that is associated with the error.

resourceType

The type of the resource that is associated with the error.

HTTP Status Code: 404

ThrottlingException

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

message

A description of the error.

quotaCode

The ID of the service quota that was exceeded.

retryAfterSeconds

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

serviceCode

The ID of the service that is associated with the error.

HTTP Status Code: 429

ValidationException

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

fieldList

A list of fields that might be associated with the error.

message

A description of the error.

reason

The reason that the operation 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

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

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" ],
      "degradedWorkspaceReason": "string",
      "description": "string",
      "endpoint": "string",
```

```
      "freeTrialConsumed": boolean,
      "freeTrialExpiration": number,
      "grafanaToken": "string",
      "grafanaVersion": "string",
      "id": "string",
      "ipAddressType": "string",
      "kmsKeyId": "string",
      "licenseExpiration": number,
      "licenseType": "string",
      "modified": number,
      "name": "string",
      "networkAccessControl": {
         "prefixListIds": [ "string" ],
         "vpceIds": [ "string" ]
      },
      "notificationDestinations": [ "string" ],
      "organizationalUnits": [ "string" ],
      "organizationRoleName": "string",
      "permissionType": "string",
      "stackSetName": "string",
      "status": "string",
      "tags": {
         "string" : "string"
      },
      "vpcConfiguration": {
         "securityGroupIds": [ "string" ],
         "subnetIds": [ "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

A structure containing information about the workspace.

Type: WorkspaceDescription object

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

InternalServerException

Unexpected error while processing the request. Retry the request.

message

A description of the error.

retryAfterSeconds

How long to wait before you retry this operation.

HTTP Status Code: 500

ResourceNotFoundException

The request references a resource that does not exist.

message

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

resourceId

The ID of the resource that is associated with the error.

resourceType

The type of the resource that is associated with the error.

HTTP Status Code: 404

ThrottlingException

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

message

A description of the error.

quotaCode

The ID of the service quota that was exceeded.

retryAfterSeconds

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

serviceCode

The ID of the service that is associated with the error.

HTTP Status Code: 429

ValidationException

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

fieldList

A list of fields that might be associated with the error.

message

A description of the error.

reason

The reason that the operation 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

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

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": { ... },
             "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

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

Type: AuthenticationDescription object

Errors

For information about the errors that are common to all actions, see Common Error Types.

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.

message

A description of the error.

resourceId

The ID of the resource that is associated with the error.

resourceType

The type of the resource that is associated with the error.

HTTP Status Code: 409

InternalServerException

Unexpected error while processing the request. Retry the request.

message

A description of the error.

retryAfterSeconds

How long to wait before you retry this operation.

HTTP Status Code: 500

ResourceNotFoundException

The request references a resource that does not exist.

message

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

resourceId

The ID of the resource that is associated with the error.

resourceType

The type of the resource that is associated with the error.

HTTP Status Code: 404

ThrottlingException

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

message

A description of the error.

quotaCode

The ID of the service quota that was exceeded.

retryAfterSeconds

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

serviceCode

The ID of the service that is associated with the error.

HTTP Status Code: 429

ValidationException

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

fieldList

A list of fields that might be associated with the error.

message

A description of the error.

reason

The reason that the operation 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

DescribeWorkspaceConfiguration

Gets the current configuration string for the given workspace.

Request Syntax

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

URI Request Parameters

The request uses the following URI parameters.

workspaceId

The ID of the workspace to get configuration information for.

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

{
   "configuration": "string",
   "grafanaVersion": "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.

configuration

The configuration string for the workspace that you requested. For more information about the format and configuration options available, see Working in your Grafana workspace.

Type: String

Length Constraints: Minimum length of 2. Maximum length of 65536.

grafanaVersion

The supported Grafana version for the workspace.

Type: String

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

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

InternalServerException

Unexpected error while processing the request. Retry the request.

message

A description of the error.

retryAfterSeconds

How long to wait before you retry this operation.

HTTP Status Code: 500

ResourceNotFoundException

The request references a resource that does not exist.

message

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

resourceId

The ID of the resource that is associated with the error.

resourceType

The type of the resource that is associated with the error.

HTTP Status Code: 404

ThrottlingException

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

message

A description of the error.

quotaCode

The ID of the service quota that was exceeded.

retryAfterSeconds

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

serviceCode

The ID of the service that is associated with the error.

HTTP Status Code: 429

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET 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

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

The type of license to remove from the workspace.

Valid Values: `ENTERPRISE | ENTERPRISE_FREE_TRIAL`

Required: Yes

workspaceId

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" ],
         "degradedWorkspaceReason": "string",
         "description": "string",
         "endpoint": "string",
         "freeTrialConsumed": boolean,
         "freeTrialExpiration": number,
         "grafanaToken": "string",
         "grafanaVersion": "string",
         "id": "string",
         "ipAddressType": "string",
         "kmsKeyId": "string",
         "licenseExpiration": number,
         "licenseType": "string",
         "modified": number,
         "name": "string",
         "networkAccessControl": {
            "prefixListIds": [ "string" ],
            "vpceIds": [ "string" ]
         },
         "notificationDestinations": [ "string" ],
         "organizationalUnits": [ "string" ],
         "organizationRoleName": "string",
         "permissionType": "string",
         "stackSetName": "string",
         "status": "string",
         "tags": {
            "string" : "string"
         },
         "vpcConfiguration": {
            "securityGroupIds": [ "string" ],
            "subnetIds": [ "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

A structure containing information about the workspace.

Type: WorkspaceDescription object

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

InternalServerException

Unexpected error while processing the request. Retry the request.

message

A description of the error.

retryAfterSeconds

How long to wait before you retry this operation.

HTTP Status Code: 500

ResourceNotFoundException

The request references a resource that does not exist.

message

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

resourceId

The ID of the resource that is associated with the error.

resourceType

The type of the resource that is associated with the error.

HTTP Status Code: 404

ThrottlingException

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

message

A description of the error.

quotaCode

The ID of the service quota that was exceeded.

retryAfterSeconds

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

serviceCode

The ID of the service that is associated with the error.

HTTP Status Code: 429

ValidationException

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

fieldList

A list of fields that might be associated with the error.

message

A description of the error.

reason

The reason that the operation 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

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

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

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

maxResults

The maximum number of results to include in the response.

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

nextToken

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

userId

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

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

userType

(Optional) If you specify SSO_USER, then only the permissions of IAM Identity Center users are returned. If you specify SSO_GROUP, only the permissions of IAM Identity Center groups are returned.

Valid Values: SSO_USER | SSO_GROUP

workspaceId

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

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

Type: String

permissions

The permissions returned by the operation.

Type: Array of PermissionEntry objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

InternalServerException

Unexpected error while processing the request. Retry the request.

message

A description of the error.

retryAfterSeconds

How long to wait before you retry this operation.

HTTP Status Code: 500

ResourceNotFoundException

The request references a resource that does not exist.

message

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

resourceId

The ID of the resource that is associated with the error.

resourceType

The type of the resource that is associated with the error.

HTTP Status Code: 404

ThrottlingException

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

message

A description of the error.

quotaCode

The ID of the service quota that was exceeded.

retryAfterSeconds

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

serviceCode

The ID of the service that is associated with the error.

HTTP Status Code: 429

ValidationException

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

fieldList

A list of fields that might be associated with the error.

message

A description of the error.

reason

The reason that the operation 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

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

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

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 Error Types.

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

InternalServerException

Unexpected error while processing the request. Retry the request.

message

A description of the error.

retryAfterSeconds

How long to wait before you retry this operation.

HTTP Status Code: 500

ResourceNotFoundException

The request references a resource that does not exist.

message

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

resourceId

The ID of the resource that is associated with the error.

resourceType

The type of the resource that is associated with the error.

HTTP Status Code: 404

ThrottlingException

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

message

A description of the error.

quotaCode

The ID of the service quota that was exceeded.

retryAfterSeconds

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

serviceCode

The ID of the service that is associated with the error.

HTTP Status Code: 429

ValidationException

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

fieldList

A list of fields that might be associated with the error.

message

A description of the error.

reason

The reason that the operation 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

ListVersions

Lists available versions of Grafana. These are available when calling `CreateWorkspace`. Optionally, include a workspace to list the versions to which it can be upgraded.

Request Syntax

```
GET /versions?maxResults=maxResults&nextToken=nextToken&workspace-id=workspaceId
 HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

maxResults

The maximum number of results to include in the response.

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

nextToken

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

workspaceId

The ID of the workspace to list the available upgrade versions. If not included, lists all versions of Grafana that are supported for `CreateWorkspace`.

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

Request Body

The request does not have a request body.

Response Syntax

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

```
{
   "grafanaVersions": [ "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.

grafanaVersions

The Grafana versions available to create. If a workspace ID is included in the request, the Grafana versions to which this workspace can be upgraded.

Type: Array of strings

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

nextToken

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

Type: String

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

InternalServerException

Unexpected error while processing the request. Retry the request.

message

A description of the error.

retryAfterSeconds

How long to wait before you retry this operation.

HTTP Status Code: 500

ResourceNotFoundException

The request references a resource that does not exist.

message

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

resourceId

The ID of the resource that is associated with the error.

resourceType

The type of the resource that is associated with the error.

HTTP Status Code: 404

ThrottlingException

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

message

A description of the error.

quotaCode

The ID of the service quota that was exceeded.

retryAfterSeconds

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

serviceCode

The ID of the service that is associated with the error.

HTTP Status Code: 429

ValidationException

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

fieldList

A list of fields that might be associated with the error.

message

A description of the error.

reason

The reason that the operation 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

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

The maximum number of workspaces to include in the results.

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

nextToken

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",
         "grafanaToken": "string",
         "grafanaVersion": "string",
         "id": "string",
         "licenseType": "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

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

Type: String

workspaces

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

Type: Array of WorkspaceSummary objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

InternalServerException

Unexpected error while processing the request. Retry the request.

message

A description of the error.

retryAfterSeconds

How long to wait before you retry this operation.

HTTP Status Code: 500

ThrottlingException

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

message

A description of the error.

quotaCode

The ID of the service quota that was exceeded.

retryAfterSeconds

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

serviceCode

The ID of the service that is associated with the error.

HTTP Status Code: 429

See Also

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

- AWS Command Line Interface V2

- AWS SDK for .NET 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

ListWorkspaceServiceAccounts

Returns a list of service accounts for a workspace.

Service accounts are only available for workspaces that are compatible with Grafana version 9 and above.

Request Syntax

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

URI Request Parameters

The request uses the following URI parameters.

maxResults

The maximum number of service accounts to include in the results.

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

nextToken

The token for the next set of service accounts to return. (You receive this token from a previous `ListWorkspaceServiceAccounts` operation.)

workspaceId

The workspace for which to list service accounts.

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",
   "serviceAccounts": [
      {
         "grafanaRole": "string",
         "id": "string",
         "isDisabled": "string",
         "name": "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.

nextToken

The token to use when requesting the next set of service accounts.

Type: String

serviceAccounts

An array of structures containing information about the service accounts.

Type: Array of ServiceAccountSummary objects

workspaceId

The workspace to which the service accounts are associated.

Type: String

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

Errors

For information about the errors that are common to all actions, see Common Error Types.

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.

message

A description of the error.

resourceId

The ID of the resource that is associated with the error.

resourceType

The type of the resource that is associated with the error.

HTTP Status Code: 409

InternalServerException

Unexpected error while processing the request. Retry the request.

message

A description of the error.

retryAfterSeconds

How long to wait before you retry this operation.

HTTP Status Code: 500

ResourceNotFoundException

The request references a resource that does not exist.

message

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

resourceId

The ID of the resource that is associated with the error.

resourceType

The type of the resource that is associated with the error.

HTTP Status Code: 404

ThrottlingException

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

message

A description of the error.

quotaCode

The ID of the service quota that was exceeded.

retryAfterSeconds

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

serviceCode

The ID of the service that is associated with the error.

HTTP Status Code: 429

ValidationException

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

fieldList

A list of fields that might be associated with the error.

message

A description of the error.

reason

The reason that the operation 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

ListWorkspaceServiceAccountTokens

Returns a list of tokens for a workspace service account.

> **Note**
>
> This does not return the key for each token. You cannot access keys after they are created. To create a new key, delete the token and recreate it.

Service accounts are only available for workspaces that are compatible with Grafana version 9 and above.

Request Syntax

```
GET /workspaces/workspaceId/serviceaccounts/serviceAccountId/tokens?
maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

maxResults

The maximum number of tokens to include in the results.

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

nextToken

The token for the next set of service accounts to return. (You receive this token from a previous `ListWorkspaceServiceAccountTokens` operation.)

serviceAccountId

The ID of the service account for which to return tokens.

Required: Yes

workspaceId

The ID of the workspace for which to return tokens.

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",
   "serviceAccountId": "string",
   "serviceAccountTokens": [
      {
         "createdAt": number,
         "expiresAt": number,
         "id": "string",
         "lastUsedAt": number,
         "name": "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.

nextToken

The token to use when requesting the next set of service accounts.

Type: String

serviceAccountId

The ID of the service account where the tokens reside.

Type: String

serviceAccountTokens

An array of structures containing information about the tokens.

Type: Array of ServiceAccountTokenSummary objects

workspaceId

The ID of the workspace where the tokens reside.

Type: String

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

Errors

For information about the errors that are common to all actions, see Common Error Types.

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.

message

A description of the error.

resourceId

The ID of the resource that is associated with the error.

resourceType

The type of the resource that is associated with the error.

HTTP Status Code: 409

InternalServerException

Unexpected error while processing the request. Retry the request.

message

A description of the error.

retryAfterSeconds

How long to wait before you retry this operation.

HTTP Status Code: 500

ResourceNotFoundException

The request references a resource that does not exist.

message

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

resourceId

The ID of the resource that is associated with the error.

resourceType

The type of the resource that is associated with the error.

HTTP Status Code: 404

ThrottlingException

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

message

A description of the error.

quotaCode

The ID of the service quota that was exceeded.

retryAfterSeconds

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

serviceCode

The ID of the service that is associated with the error.

HTTP Status Code: 429

ValidationException

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

fieldList

A list of fields that might be associated with the error.

message

A description of the error.

reason

The reason that the operation 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

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

The ARN of the resource the tag is associated with.

Required: Yes

Request Body

The request accepts the following data in JSON format.

tags

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 Error Types.

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

InternalServerException

Unexpected error while processing the request. Retry the request.

message

A description of the error.

retryAfterSeconds

How long to wait before you retry this operation.

HTTP Status Code: 500

ResourceNotFoundException

The request references a resource that does not exist.

message

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

resourceId

The ID of the resource that is associated with the error.

resourceType

The type of the resource that is associated with the error.

HTTP Status Code: 404

ThrottlingException

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

message

A description of the error.

quotaCode

The ID of the service quota that was exceeded.

retryAfterSeconds

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

serviceCode

The ID of the service that is associated with the error.

HTTP Status Code: 429

ValidationException

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

fieldList

A list of fields that might be associated with the error.

message

A description of the error.

reason

The reason that the operation 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

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

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

Required: Yes

tagKeys

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 Error Types.

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

InternalServerException

Unexpected error while processing the request. Retry the request.

message

A description of the error.

retryAfterSeconds

How long to wait before you retry this operation.

HTTP Status Code: 500

ResourceNotFoundException

The request references a resource that does not exist.

message

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

resourceId

The ID of the resource that is associated with the error.

resourceType

The type of the resource that is associated with the error.

HTTP Status Code: 404

ThrottlingException

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

message

A description of the error.

quotaCode

The ID of the service quota that was exceeded.

retryAfterSeconds

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

serviceCode

The ID of the service that is associated with the error.

HTTP Status Code: 429

ValidationException

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

fieldList

A list of fields that might be associated with the error.

message

A description of the error.

reason

The reason that the operation 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

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

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

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

Type: Array of UpdateInstruction 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

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

Type: Array of UpdateError objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

You do not have sufficient permissions to perform this action.

HTTP Status Code: 403

InternalServerException

Unexpected error while processing the request. Retry the request.

message

A description of the error.

retryAfterSeconds

How long to wait before you retry this operation.

HTTP Status Code: 500

ResourceNotFoundException

The request references a resource that does not exist.

message

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

resourceId

The ID of the resource that is associated with the error.

resourceType

The type of the resource that is associated with the error.

HTTP Status Code: 404

ThrottlingException

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

message

A description of the error.

quotaCode

The ID of the service quota that was exceeded.

retryAfterSeconds

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

serviceCode

The ID of the service that is associated with the error.

HTTP Status Code: 429

ValidationException

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

fieldList

A list of fields that might be associated with the error.

message

A description of the error.

reason

The reason that the operation 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

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 IAM Identity Center, 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",
   "ipAddressType": "string",
   "networkAccessControl": {
      "prefixListIds": [ "string" ],
      "vpceIds": [ "string" ]
   },
   "organizationRoleName": "string",
   "permissionType": "string",
   "removeNetworkAccessConfiguration": boolean,
   "removeVpcConfiguration": boolean,
   "stackSetName": "string",
   "vpcConfiguration": {
      "securityGroupIds": [ "string" ],
      "subnetIds": [ "string" ]
   },
   "workspaceDataSources": [ "string" ],
   "workspaceDescription": "string",
   "workspaceName": "string",
   "workspaceNotificationDestinations": [ "string" ],
   "workspaceOrganizationalUnits": [ "string" ],
   "workspaceRoleArn": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

workspaceId

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

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

ipAddressType

Specifies whether the workspace supports IPv4 only, or IPv4 and IPv6. Valid values are `IPv4` and `DualStack`. For more information about IP address types, see Network access control.

Type: String

Valid Values: `IPv4 | DualStack`

Required: No

networkAccessControl

The configuration settings for network access to your workspace.

When this is configured, only listed IP addresses and VPC endpoints will be able to access your workspace. Standard Grafana authentication and authorization will still be required.

If this is not configured, or is removed, then all IP addresses and VPC endpoints will be allowed. Standard Grafana authentication and authorization will still be required.

Type: NetworkAccessConfiguration object

Required: No

organizationRoleName

The name of an IAM role that already exists to use to access resources through Organizations. This can only be used with a workspace that has the `permissionType` set to `CUSTOMER_MANAGED`.

Type: String

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

Required: No

permissionType

Use this parameter if you want to change a workspace from `SERVICE_MANAGED` to `CUSTOMER_MANAGED`. This allows you to manage the permissions that the workspace uses to access datasources and notification channels. If the workspace is in a member AWS 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`.

If you specify this as `CUSTOMER_MANAGED`, you must also specify a `workspaceRoleArn` that the workspace will use for accessing AWS resources.

For more information on the role and permissions needed, see Amazon Managed Grafana permissions and policies for AWS data sources and notification channels

> **Note**
>
> Do not use this to convert a `CUSTOMER_MANAGED` workspace to `SERVICE_MANAGED`. Do not include this parameter if you want to leave the workspace as `SERVICE_MANAGED`.

You can convert a CUSTOMER_MANAGED workspace to SERVICE_MANAGED using the Amazon Managed Grafana console. For more information, see Managing permissions for data sources and notification channels.

Type: String

Valid Values: CUSTOMER_MANAGED | SERVICE_MANAGED

Required: No

removeNetworkAccessConfiguration

Whether to remove the network access configuration from the workspace.

Setting this to true and providing a networkAccessControl to set will return an error.

If you remove this configuration by setting this to true, then all IP addresses and VPC endpoints will be allowed. Standard Grafana authentication and authorization will still be required.

Type: Boolean

Required: No

removeVpcConfiguration

Whether to remove the VPC configuration from the workspace.

Setting this to true and providing a vpcConfiguration to set will return an error.

Type: Boolean

Required: No

stackSetName

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

Type: String

Required: No

vpcConfiguration

The configuration settings for an Amazon VPC that contains data sources for your Grafana workspace to connect to.

Type: VpcConfiguration object

Required: No

workspaceDataSources

This parameter is for internal use only, and should not be used.

Type: Array of strings

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

Required: No

workspaceDescription

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

A new name for the workspace to update.

Type: String

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

Required: No

workspaceNotificationDestinations

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

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

Specifies an IAM role that grants permissions to AWS resources that the workspace accesses, such as data sources and notification channels. If this workspace has `permissionType` `CUSTOMER_MANAGED`, then this role is required.

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" ],
      "degradedWorkspaceReason": "string",
      "description": "string",
      "endpoint": "string",
```

```
      "freeTrialConsumed": boolean,
      "freeTrialExpiration": number,
      "grafanaToken": "string",
      "grafanaVersion": "string",
      "id": "string",
      "ipAddressType": "string",
      "kmsKeyId": "string",
      "licenseExpiration": number,
      "licenseType": "string",
      "modified": number,
      "name": "string",
      "networkAccessControl": {
         "prefixListIds": [ "string" ],
         "vpceIds": [ "string" ]
      },
      "notificationDestinations": [ "string" ],
      "organizationalUnits": [ "string" ],
      "organizationRoleName": "string",
      "permissionType": "string",
      "stackSetName": "string",
      "status": "string",
      "tags": {
         "string" : "string"
      },
      "vpcConfiguration": {
         "securityGroupIds": [ "string" ],
         "subnetIds": [ "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

A structure containing data about the workspace that was created.

Type: WorkspaceDescription object

Errors

For information about the errors that are common to all actions, see Common Error Types.

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.

message

A description of the error.

resourceId

The ID of the resource that is associated with the error.

resourceType

The type of the resource that is associated with the error.

HTTP Status Code: 409

InternalServerException

Unexpected error while processing the request. Retry the request.

message

A description of the error.

retryAfterSeconds

How long to wait before you retry this operation.

HTTP Status Code: 500

ResourceNotFoundException

The request references a resource that does not exist.

message

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

resourceId

The ID of the resource that is associated with the error.

resourceType

The type of the resource that is associated with the error.

HTTP Status Code: 404

ThrottlingException

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

message

A description of the error.

quotaCode

The ID of the service quota that was exceeded.

retryAfterSeconds

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

serviceCode

The ID of the service that is associated with the error.

HTTP Status Code: 429

ValidationException

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

fieldList

A list of fields that might be associated with the error.

message

A description of the error.

reason

The reason that the operation 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

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.

> **Note**
>
> Changes to the authentication method for a workspace may take a few minutes to take effect.

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": { ... },
      "loginValidityDuration": number,
      "roleValues": {
         "admin": [ "string" ],
         "editor": [ "string" ]
      }
   }
}
```

URI Request Parameters

The request uses the following URI parameters.

workspaceId

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

Specifies whether this workspace uses SAML 2.0, AWS IAM Identity Center, 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

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 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": { ... },
            "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

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

Type: AuthenticationDescription object

Errors

For information about the errors that are common to all actions, see Common Error Types.

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.

message

A description of the error.

resourceId

The ID of the resource that is associated with the error.

resourceType

The type of the resource that is associated with the error.

HTTP Status Code: 409

InternalServerException

Unexpected error while processing the request. Retry the request.

message

A description of the error.

retryAfterSeconds

How long to wait before you retry this operation.

HTTP Status Code: 500

ResourceNotFoundException

The request references a resource that does not exist.

message

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

resourceId

The ID of the resource that is associated with the error.

resourceType

The type of the resource that is associated with the error.

HTTP Status Code: 404

ThrottlingException

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

message

A description of the error.

quotaCode

The ID of the service quota that was exceeded.

retryAfterSeconds

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

serviceCode

The ID of the service that is associated with the error.

HTTP Status Code: 429

ValidationException

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

fieldList

A list of fields that might be associated with the error.

message

A description of the error.

reason

The reason that the operation 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

UpdateWorkspaceConfiguration

Updates the configuration string for the given workspace

Request Syntax

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

{
   "configuration": "string",
   "grafanaVersion": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

workspaceId

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.

configuration

The new configuration string for the workspace. For more information about the format and configuration options available, see Working in your Grafana workspace.

Type: String

Length Constraints: Minimum length of 2. Maximum length of 65536.

Required: Yes

grafanaVersion

Specifies the version of Grafana to support in the workspace. If not specified, keeps the current version of the workspace.

Can only be used to upgrade (for example, from 8.4 to 9.4), not downgrade (for example, from 9.4 to 8.4).

To know what versions are available to upgrade to for a specific workspace, see the ListVersions operation.

Type: String

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

Required: No

Response Syntax

```
HTTP/1.1 202
```

Response Elements

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

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

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.

message

A description of the error.

resourceId

The ID of the resource that is associated with the error.

resourceType

The type of the resource that is associated with the error.

HTTP Status Code: 409

InternalServerException

Unexpected error while processing the request. Retry the request.

message

A description of the error.

retryAfterSeconds

How long to wait before you retry this operation.

HTTP Status Code: 500

ResourceNotFoundException

The request references a resource that does not exist.

message

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

resourceId

The ID of the resource that is associated with the error.

resourceType

The type of the resource that is associated with the error.

HTTP Status Code: 404

ThrottlingException

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

message

A description of the error.

quotaCode

The ID of the service quota that was exceeded.

retryAfterSeconds

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

serviceCode

The ID of the service that is associated with the error.

HTTP Status Code: 429

ValidationException

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

fieldList

A list of fields that might be associated with the error.

message

A description of the error.

reason

The reason that the operation 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 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
- AuthenticationDescription
- AuthenticationSummary
- AwsSsoAuthentication
- IdpMetadata
- NetworkAccessConfiguration
- PermissionEntry
- RoleValues
- SamlAuthentication
- SamlConfiguration
- ServiceAccountSummary
- ServiceAccountTokenSummary
- ServiceAccountTokenSummaryWithKey
- UpdateError
- UpdateInstruction
- User
- ValidationExceptionField
- VpcConfiguration
- WorkspaceDescription
- WorkspaceSummary

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 Java V2
- AWS SDK for Ruby V3

AuthenticationDescription

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

Contents

providers

Specifies whether this workspace uses IAM Identity Center, 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

awsSso

A structure containing information about how this workspace works with IAM Identity Center.

Type: AwsSsoAuthentication object

Required: No

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 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

AuthenticationSummary

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

Contents

providers

Specifies whether the workspace uses SAML, IAM Identity Center, 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 Java V2
- AWS SDK for Ruby V3

AwsSsoAuthentication

A structure containing information about how this workspace works with IAM Identity Center.

Contents

ssoClientId

The ID of the IAM Identity Center-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 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. Specifying both will cause an error.

Contents

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

url

The URL of the location containing the IdP metadata.

Type: String

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

Required: No

xml

The full IdP metadata, 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 Java V2

- AWS SDK for Ruby V3

NetworkAccessConfiguration

The configuration settings for in-bound network access to your workspace.

When this is configured, only listed IP addresses and VPC endpoints will be able to access your workspace. Standard Grafana authentication and authorization are still required.

Access is granted to a caller that is in either the IP address list or the VPC endpoint list - they do not need to be in both.

If this is not configured, or is removed, then all IP addresses and VPC endpoints are allowed. Standard Grafana authentication and authorization are still required.

> **Note**
>
> While both `prefixListIds` and `vpceIds` are required, you can pass in an empty array of strings for either parameter if you do not want to allow any of that type.
> If both are passed as empty arrays, no traffic is allowed to the workspace, because only *explicitly* allowed connections are accepted.

Contents

prefixListIds

An array of prefix list IDs. A prefix list is a list of CIDR ranges of IP addresses. The IP addresses specified are allowed to access your workspace. If the list is not included in the configuration (passed an empty array) then no IP addresses are allowed to access the workspace. You create a prefix list using the Amazon VPC console.

Prefix list IDs have the format `pl-*1a2b3c4d*` .

For more information about prefix lists, see Group CIDR blocks using managed prefix listsin the *Amazon Virtual Private Cloud User Guide*.

Type: Array of strings

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

Required: Yes

vpceIds

An array of Amazon VPC endpoint IDs for the workspace. You can create VPC endpoints to your Amazon Managed Grafana workspace for access from within a VPC. If a `NetworkAccessConfiguration` is specified then only VPC endpoints specified here are allowed to access the workspace. If you pass in an empty array of strings, then no VPCs are allowed to access the workspace.

VPC endpoint IDs have the format `vpce-1a2b3c4d` .

For more information about creating an interface VPC endpoint, see Interface VPC endpoints in the *Amazon Managed Grafana User Guide*.

> **Note**
>
> The only VPC endpoints that can be specified here are interface VPC endpoints for Grafana workspaces (using the `com.amazonaws.[region].grafana-workspace` service endpoint). Other VPC endpoints are ignored.

Type: Array of strings

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

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

PermissionEntry

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

Contents

role

Specifies whether the user or group has the `Admin`, `Editor`, or `Viewer` 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 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 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. SAML authenticated users not part of `Admin` or `Editor` role groups have `Viewer` permission over 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 Java V2
- AWS SDK for Ruby V3

SamlAuthentication

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

Contents

status

Specifies whether the workspace's SAML configuration is complete.

Type: String

Valid Values: `CONFIGURED | NOT_CONFIGURED`

Required: Yes

configuration

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

Type: SamlConfiguration 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

SamlConfiguration

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

Contents

idpMetadata

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

Type: IdpMetadata object

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

Required: Yes

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 object

Required: No

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 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

ServiceAccountSummary

A structure that contains the information about one service account.

Contents

grafanaRole

The role of the service account, which sets the permission level used when calling Grafana APIs.

Type: String

Valid Values: `ADMIN | EDITOR | VIEWER`

Required: Yes

id

The unique ID of the service account.

Type: String

Required: Yes

isDisabled

Returns true if the service account is disabled. Service accounts can be disabled and enabled in the Amazon Managed Grafana console.

Type: String

Required: Yes

name

The name of the service account.

Type: String

Required: Yes

See Also

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

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

ServiceAccountTokenSummary

A structure that contains the information about a service account token.

Contents

createdAt

When the service account token was created.

Type: Timestamp

Required: Yes

expiresAt

When the service account token will expire.

Type: Timestamp

Required: Yes

id

The unique ID of the service account token.

Type: String

Required: Yes

name

The name of the service account token.

Type: String

Required: Yes

lastUsedAt

The last time the token was used to authorize a Grafana HTTP API.

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

ServiceAccountTokenSummaryWithKey

A structure that contains the information about a service account token.

This structure is returned when creating the token. It is important to store the `key` that is returned, as it is not retrievable at a later time.

If you lose the key, you can delete and recreate the token, which will create a new key.

Contents

id

The unique ID of the service account token.

Type: String

Required: Yes

key

The key for the service account token. Used when making calls to the Grafana HTTP APIs to authenticate and authorize the requests.

Type: String

Required: Yes

name

The name of the service account token.

Type: String

Required: Yes

See Also

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

- AWS SDK for C++

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

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 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 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 objects

Required: Yes

See Also

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

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

- AWS SDK for Ruby V3

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 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 Java V2
- AWS SDK for Ruby V3

VpcConfiguration

The configuration settings for an Amazon VPC that contains data sources for your Grafana workspace to connect to.

> **Note**
>
> Provided `securityGroupIds` and `subnetIds` must be part of the same VPC. Connecting to a private VPC is not yet available in the Asia Pacific (Seoul) Region (ap-northeast-2).

Contents

securityGroupIds

The list of Amazon EC2 security group IDs attached to the Amazon VPC for your Grafana workspace to connect. Duplicates not allowed.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 5 items.

Length Constraints: Minimum length of 0. Maximum length of 255.

Required: Yes

subnetIds

The list of Amazon EC2 subnet IDs created in the Amazon VPC for your Grafana workspace to connect. Duplicates not allowed.

Type: Array of strings

Array Members: Minimum number of 2 items. Maximum number of 6 items.

Length Constraints: Minimum length of 0. Maximum length of 255.

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

WorkspaceDescription

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

Contents

authentication

A structure that describes whether the workspace uses SAML, IAM Identity Center, or both methods for user authentication.

Type: AuthenticationSummary 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.

This list is only used when the workspace was created through the AWS console, and the `permissionType` is `SERVICE_MANAGED`.

Type: Array of strings

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

Required: Yes

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

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

modified

The most recent date that the workspace was modified.

Type: Timestamp

Required: Yes

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 | VERSION_UPDATING | VERSION_UPDATE_FAILED | DEGRADED`

Required: Yes

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

degradedWorkspaceReason

If the workspace is in the `DEGRADED` status, this field describes the reason the workspace is degraded.

Type: String

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

Required: No

description

The user-defined description of the workspace.

Type: String

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

Required: No

freeTrialConsumed

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

> **Note**
>
> Amazon Managed Grafana workspaces no longer support Grafana Enterprise free trials.

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.

> **Note**
>
> Amazon Managed Grafana workspaces no longer support Grafana Enterprise free trials.

Type: Timestamp

Required: No

grafanaToken

The token that ties this workspace to a Grafana Labs account. For more information, see Link your account with Grafana Labs.

Type: String

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

Required: No

ipAddressType

The type of IP addresses supported for connection to the workspace. Valid values are `IPv4` and `DualStack`.

Type: String

Valid Values: `IPv4 | DualStack`

Required: No

kmsKeyId

The ID or ARN of the AWS Key Management Service key used for encrypting workspace data.

Type: String

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

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

Required: No

licenseExpiration

If this workspace has a full Grafana Enterprise license purchased through AWS Marketplace, this specifies when the license ends and will need to be renewed. Purchasing the Enterprise plugins option through Amazon Managed Grafana does not have an expiration. It is valid until the license is removed.

Type: Timestamp

Required: No

licenseType

Specifies whether this workspace has a full Grafana Enterprise license.

> **Note**
>
> Amazon Managed Grafana workspaces no longer support Grafana Enterprise free trials.

Type: String

Valid Values: `ENTERPRISE | ENTERPRISE_FREE_TRIAL`

Required: No

name

The name of the workspace.

Type: String

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

Required: No

networkAccessControl

The configuration settings for network access to your workspace.

Type: NetworkAccessConfiguration object

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`, and the workplace was created through the Amazon Managed Grafana console, then 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 must manage those roles and permissions yourself.

If you are working with a 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, this parameter must be set to `CUSTOMER_MANAGED`.

For more information about converting between customer and service managed, see Managing permissions for data sources and notification channels. For more information about the roles and permissions that must be managed for customer managed workspaces, 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

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

vpcConfiguration

The configuration for connecting to data sources in a private VPC (Amazon Virtual Private Cloud).

Type: VpcConfiguration object

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 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 object

Required: Yes

created

The date that the workspace was created.

Type: Timestamp

Required: Yes

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

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 | VERSION_UPDATING | VERSION_UPDATE_FAILED | DEGRADED`

Required: Yes

description

The customer-entered description of the workspace.

Type: String

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

Required: No

grafanaToken

The token that ties this workspace to a Grafana Labs account. For more information, see Link your account with Grafana Labs.

Type: String

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

Required: No

licenseType

Specifies whether this workspace has a full Grafana Enterprise license.

> **Note**
>
> Amazon Managed Grafana workspaces no longer support Grafana Enterprise free trials.

Type: String

Valid Values: `ENTERPRISE | ENTERPRISE_FREE_TRIAL`

Required: No

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

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 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