

Stackdriver Monitoring in the Cloud Console is now Generally Available (GA) and the default option. For a limited period, you also have the option to use the classic Stackdriver Monitoring console. Choose the set of instructions that applies to your choice of console:

[Using the Google Cloud Console \(GA\)](#) (#gcp_console)

[Using the Stackdriver Monitoring console \(classic, GA\)](#) (#monitoring_console)

For more information, see [Monitoring in the Cloud Console](#) (/monitoring/docs/monitoring_in_console).

For information on creating and managing a Workspace using the Stackdriver Monitoring console, see [Managing Workspaces](#) (/monitoring/workspaces/guide).

This page explains how to create and manage [Workspaces](#) (/monitoring/workspaces/). Your Google Cloud projects and Amazon Web Service (AWS) accounts must be members of a Workspace before they can be monitored.

To determine if you have sufficient privileges to create a Workspace for an existing Google Cloud project or an AWS account, see [Required permissions](#) (/monitoring/workspaces/#workspace-permissions).

To create a Workspace for an existing Google Cloud project, do the following:

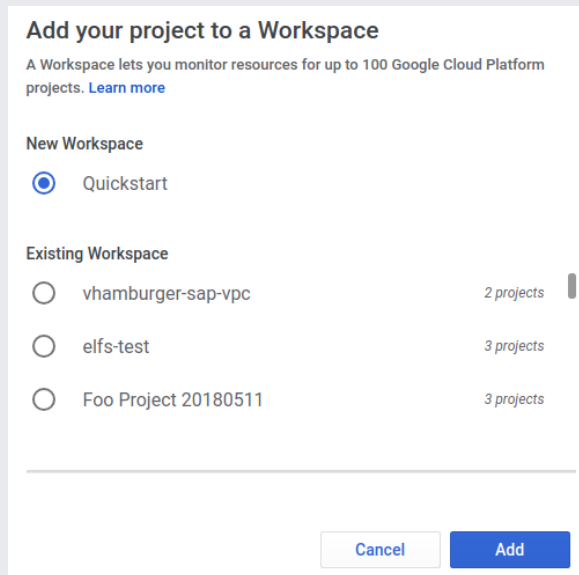
1. Go to the Cloud Console:

[Go to Cloud Console](https://console.cloud.google.com/) (https://console.cloud.google.com/)

2. In the menu bar, select your Google Cloud project from the project menu ▾.
3. In the navigation menu, click **Monitoring**. After you click **Monitoring**, one of the following occurs:

- If your Google Cloud project is already associated with a Workspace, then the Stackdriver Monitoring home page is displayed.
- If you've never created a Workspace or if all of your Workspaces are single-project, then Stackdriver Monitoring automatically creates a Workspace and associates it with your Google Cloud project.
- If you have at least one multi-project Workspace, then the **Add your project to a Workspace** dialog is displayed. To create a new Workspace, select your Google Cloud project under **New Workspace** and then click **Add**.

In the following image, the Google Cloud project name is Quickstart:



When a Workspace is created, the Google Cloud project becomes the Workspace host project. The Workspace and Google Cloud project also have the same name. After Workspace creation, which takes a few moments to complete, the **Monitoring Overview** pane is displayed:

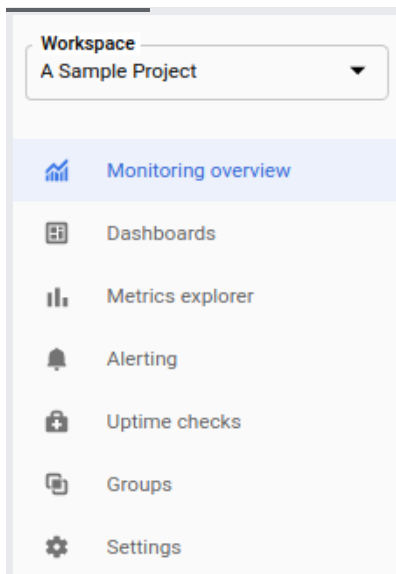
Welcome to Stackdriver Monitoring!

Complete the Stackdriver getting started checklist to gain deeper insights into your system.

[+ Add GCP Projects](#) [✉ Email Reports](#) [🔍 Tutorials](#)

After you create a Workspace, the navigation panel lists your current Workspace and includes a menu that you can use to select a different Workspace.

In the following screenshot, the Workspace "A Sample Project" is selected:



A single Workspace can monitor any number of Google Cloud projects or AWS accounts. If you want to create a multi-project Workspace, the best practice recommendation is to use the following procedure:

1. Create a new Google Cloud project:
 - a. In the menu bar of the Cloud Console, click **Menu** ▼ and then click **New Project**.
 - b. Enter a descriptive project name, and then click **Create**.
2. Create a new Workspace for that project by following the steps in [Creating a single-project Workspace](#) (#single-project-ws). The Google Cloud project you created in the first step is the hosting project for your Workspace.
3. Add Google Cloud projects or AWS accounts to the Workspace by following the steps in [Adding monitored projects](#) (#add-monitored-project).

This procedure covers adding a Google Cloud project or an AWS account that isn't associated with a Workspace to an existing Workspace:

- To create a Workspace to which you can add projects and accounts, see [Creating a multi-project Workspace](#) (#multi-project-ws).

- To determine if you have sufficient privileges to add a Google Cloud project or an AWS account to a Workspace, see [Required permissions \(/monitoring/workspaces/#workspace-permissions\)](/monitoring/workspaces/#workspace-permissions).
- For information on how to move a project to a different Workspace, see [Moving a project to a different Workspace \(#move-project\)](#).

To add a Google Cloud project or an AWS account that isn't associated with a Workspace to an existing Workspace, do the following:

1. In the Cloud Console, select **Monitoring**:

[Go to Monitoring \(https://console.cloud.google.com/monitoring\)](https://console.cloud.google.com/monitoring)

2. Select **Settings**.
3. Ensure that the proper Workspace is selected.
4. To add a Google Cloud project, click **Add Google Cloud projects**.
 - a. Select the checkboxes for the names of the Google Cloud projects that you want to add to this Workspace. You don't have to select any projects.
 - b. Click **Add projects**.
5. To add an AWS account, click **Add AWS account**:
 - a. Follow the instructions for connecting your AWS account.

←
Add AWS account

Add AWS account to "a-sample-project-256721" Workspace

When you add an AWS account, an AWS connector project is created to store your AWS monitoring and logging data. AWS Data Collection might take a few minutes to start.

Authorize AWS for Stackdriver

1. Log in to your Amazon IAM console and click Roles
2. Click "Create New Role"
3. Select the role type "Another AWS account"
4. Check the box "Require external ID"
5. Enter the following:
 - Account ID: 123456789012
 - External ID: ab12345678
 - Require MFA: unchecked
6. Click "Next: Permissions".
7. Select "ReadOnlyAccess" from the policy template list and click "Next: Review"
8. Enter a "Role Name" such as **Stackdriver** and click "Create Role"
9. Select the "Role Name" you just entered from the role list to see the summary page
10. Copy the "Role ARN" value and paste it in the AWS Role ARN field below

When you add an AWS account, a Google Cloud Platform project will be created to store your AWS monitoring and logging data. AWS Data Collection may take a few minutes to start.

ADD AWS ACCOUNT
CANCEL

★ **Note:** The Stackdriver Monitoring information that you enter into your AWS IAM Role (**Account ID** and **External ID**) are unique to your Workspace.

b. Click **Add AWS account**. Monitoring connects to your AWS account.

During the connection, Stackdriver Monitoring creates an [AWS connector projector project](/monitoring/workspaces/index#connector-project) (/monitoring/workspaces/index#connector-project).

Repeat these steps to add another AWS account.

You can share your Workspace with other users by adding them as members to the Workspaces hosting project. You must have **Project > Owner** permission for the host project to add more users.

To add users to your Workspace, do the following:

1. In the Google Cloud Console, go to the **IAM & admin** page:

[Go to the IAM page](https://console.cloud.google.com/iam-admin/iam/project) (https://console.cloud.google.com/iam-admin/iam/project)

2. From the list of projects, select your Workspace's host project.
3. At the top of the page, click **Add**.
4. In the **New members** box, enter a user, group, service account, or domain.
5. Assign a **Project** role to the new member: **Owner**, **Editor**, **Viewer**, or **Browser**. Click **Save**.

Removing a project, moving a project, and merging Workspaces all might result in loss of some configuration information. For example, if you move a project, group definitions aren't moved. Before taking any of these actions, make sure you take the right action for your situation:

- If you want to stop accruing charges, see [Billing](#) (/monitoring/workspaces/#billing).
- If you want to remove a [host project](#) (/monitoring/workspaces/#host-project) from its Workspace or move a host project to a different Workspace, you must perform a [merge](#) (#merge-account). After the merge operation, your Google Cloud project is no longer a host project and therefore it can be removed from its Workspace or moved to a different Workspace.
- If you want to change the Workspace associated with a Google Cloud project, move the project. For more information, see [Moving a project](#) (#move-project).
- If you want to move an AWS account from one Workspace to another Workspace, you must remove the AWS connector project and delete that project. You cannot use the AWS connector project with another Workspace. You can then add your AWS account to another Workspace, letting Monitoring create a new connector project. For more information, see [Adding a monitored project](#) (#add-monitored-project).

If you use Stackdriver Logging, the logs are stored with the AWS connector account. The impact is that deletion of the AWS connector project also deletes the logs.

To remove a Google Cloud project or an AWS account from a Workspace, do the following:

1. In the Cloud Console, select **Monitoring**:

[Go to Monitoring \(https://console.cloud.google.com/monitoring\)](https://console.cloud.google.com/monitoring)

2. Select **Settings**.
3. Ensure that the proper Workspace is selected.
4. Click **More** ⋮ for the Google Cloud project or an AWS account that you want to remove, click **Remove from workspace**.
5. If you removed an AWS account from a Workspace, you removed the AWS connector project, which represents the AWS account. You cannot use the AWS connector project with another Workspace. Delete the connector project.

When you move a Google Cloud project to a different Workspace, you move the project and its metrics:

- Alerting policies and uptime checks aren't moved.
- Group definitions aren't moved but group membership might decrease in the Workspace losing the project and increase in the Workspace gaining the project.
- Dashboards and charts aren't moved. However, the content of the dashboards and charts might change in both Workspaces due to the movement of metrics.

To move a non-host Google Cloud project to another Workspace, do the following:

1. In the Cloud Console, select **Monitoring**:

[Go to Monitoring \(https://console.cloud.google.com/monitoring\)](https://console.cloud.google.com/monitoring)

2. Select **Settings**.
3. Ensure that the proper Workspace is selected.
4. Click **More** ⋮ for the Google Cloud project that you want to move, click **Move to another workspace**.
5. Select the new Workspace and click **Move**.

To move the host project from a Workspace to another Workspace, follow the instructions in [Merging Workspaces \(#merge\)](#).

To move an AWS account from one Workspace to another Workspace, do the following:

1. Remove the AWS connector project from its Workspace by following the steps in [Removing a project \(#remove-project\)](#).
2. Delete the AWS connector project.
3. Add your AWS account to the desired Workspace by following the steps in [Adding a monitored project \(#add-monitored-project\)](#).

Merging Workspace A into Workspace B moves all the Google Cloud projects except AWS connector projects from Workspace A to Workspace B. Specifically, here is the effect of merging A into B:

- All Google Cloud projects that were [added \(#add-monitored-project\)](#) to Workspace A are moved into Workspace B. Metrics for the projects are also moved into Workspace B. However, dashboards, resource groups, uptime checks, notification channels, and alerting policies aren't moved into Workspace B.
- In Workspace B, existing dashboards and charts might have more data, and groups might have more members. These changes are due to the inclusion of additional metrics and are dependent on your configuration choices. In addition, uptime checks and alerting policies might be impacted.
- The host project for Workspace A is [added \(#add-monitored-project\)](#) to Workspace B.

Merging is the only way to separate a host project from its Workspace.

- After the merge completes, Workspace A isn't accessible.

Merging Workspace A into Workspace B fails when Workspace A is managing one or more AWS accounts. You must delete these accounts prior to merging the workspaces. It's recommended that you delete the AWS connector accounts so they cannot be used to connect an AWS account to a different Workspace.

To merge Workspaces, do the following:

1. In the Cloud Console, select **Monitoring**:

[Go to Monitoring](https://console.cloud.google.com/monitoring) (https://console.cloud.google.com/monitoring)


2. Select **Settings**.
3. Ensure that the Workspace that you want to keep is selected. In this scenario, that is Workspace B.
4. Click **Merge**.
5. Select the Workspace that you want to merge into Workspace B. In this scenario, select Workspace A.
6. Review the information that is lost during the merge. If you agree to that information loss, click **Merge**.


Before deleting a Workspace, check if the project you used to create the Workspace has resources you want to preserve, or if the Workspace is still linked to additional Google Cloud projects or AWS accounts. If so, see [Merging Workspaces](#) (#merge-account) for a way to move resources to another place before deleting the Workspace.

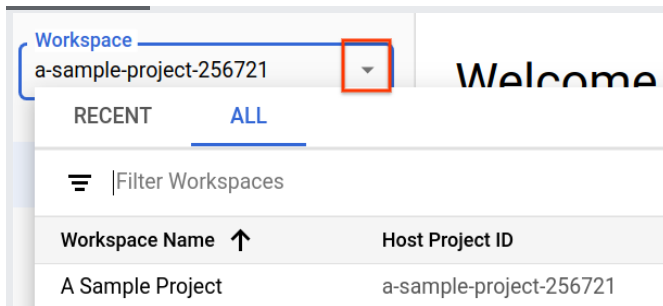
If your Workspace project has no resources you want to preserve, then delete the Workspace by deleting the Workspace's host project:

1. In the Cloud Console, go to the **IAM & admin** console:

[Go to the IAM console](https://console.cloud.google.com/iam-admin/iam/project) (https://console.cloud.google.com/iam-admin/iam/project)

2. Ensure that the host project is selected in the menu bar of the Cloud Console.
3. Click **Settings**.
4. Click **Shut Down**  .

To view all of your Workspaces, click **Menu**  in the navigation panel:



- The **Recent** tab displays your more recently access Workspaces. You can filter and sort the display.
- The **All** tab displays all accessible Workspaces:
 - To page through the Workspaces, use the **Forward** > and **Backward** < buttons.
 - To filter the list, enter a partial name or project identifier.

For information on some common issues when using Workspaces, see [Troubleshooting \(/monitoring/workspaces/guide#troubleshooting\)](/monitoring/workspaces/guide#troubleshooting).