

[Security & Identity Products](https://cloud.google.com/products/security/) (<https://cloud.google.com/products/security/>)

[Cloud IAM](https://cloud.google.com/iam/) (<https://cloud.google.com/iam/>)

[Documentation](https://cloud.google.com/iam/docs/) (<https://cloud.google.com/iam/docs/>) [Guides](#)

How-to guides

Managing roles and permissions

Granting, changing, and revoking access

Grant, change, and revoke access to your resources using Cloud IAM.

(<https://cloud.google.com/iam/docs/granting-changing-revoking-access>)

Testing permissions

Test a member's permissions for a resource using Cloud IAM.

(<https://cloud.google.com/iam/docs/testing-permissions>)

Viewing grantable roles for a resource

View the roles that you can grant for a particular resource using Cloud IAM.

(<https://cloud.google.com/iam/docs/viewing-grantable-roles>)

Creating and managing custom roles

Create customized roles for use with Cloud IAM.

(<https://cloud.google.com/iam/docs/creating-custom-roles>)

Configuring roles for audit logging

Choose appropriate Cloud IAM roles for auditors in your organization.

(<https://cloud.google.com/iam/docs/roles-audit-logging>)

Maintaining custom roles with Deployment Manager

Configure and maintain custom roles with configuration files.

(<https://cloud.google.com/iam/docs/maintain-custom-roles-deployment-manager>)

Migrating to Cloud Identity

Centrally manage users and groups that can access your resources.

(<https://cloud.google.com/iam/docs/migrating-to-cloud-identity>)

Troubleshooting access

Find out why a user has access to a resource or doesn't have permission to call an API.

(<https://cloud.google.com/iam/docs/troubleshooting-access>)

Using service accounts

Creating and managing service accounts

Create and manage Cloud IAM service accounts.

(<https://cloud.google.com/iam/docs/creating-managing-service-accounts>)

Creating and managing service account keys

Create and manage keys for your Cloud IAM service accounts.

(<https://cloud.google.com/iam/docs/creating-managing-service-account-keys>)

Creating short-lived service account credentials

Temporarily enable a service account to act as a different service account.

(<https://cloud.google.com/iam/docs/creating-short-lived-service-account-credentials>)

Granting roles to service accounts

Enable service accounts to access your resources, and control which members have access to your service accounts.

(<https://cloud.google.com/iam/docs/granting-roles-to-service-accounts>)

Managing recommendations

Managing the Cloud IAM recommender

Identify members that are not using all of the permissions in their Cloud IAM roles.

(<https://cloud.google.com/iam/docs/recommender-managing>)

Controlling recommendations data processing

Control whether Cloud IAM can process your usage data and generate recommendations.

(<https://cloud.google.com/iam/docs/recommendations-data-processing>)

Setting conditional access

Managing conditional policies

Add, update, and remove conditions in your policies.

(<https://cloud.google.com/iam/docs/managing-conditional-policies>)

Configuring temporary access

Set time-based restrictions on access to a resource.

(<https://cloud.google.com/iam/docs/configuring-temporary-access>)

Configuring resource-based access

Set access restrictions for specific Google Cloud services, resource types, or resource names.

(<https://cloud.google.com/iam/docs/configuring-resource-based-access>)

Linting policies

Linting policies

Validate condition expressions in your policies.

(<https://cloud.google.com/iam/docs/linting-policies>)

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