

# IAM Overview

Manage who can access what in  
Google Cloud.

## Identity & Access Management



Identity and Access  
Management  
(IAM)

TechTrapture

# IAM Dashboard

Central place to manage identities & roles.

# Key Components

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- Identity
- Roles
- Permissions



# Identity

**In Google Cloud IAM, an identity or principal refers to the entity that requires access to resources.**

- Google Accounts
- Service accounts
- Google groups
- Google Workspace accounts
- Cloud Identity domains

# Roles

A role in Google IAM defines a set of permissions associated with an identity.

- Basic Roles
- Predefined Roles
- Custom Roles

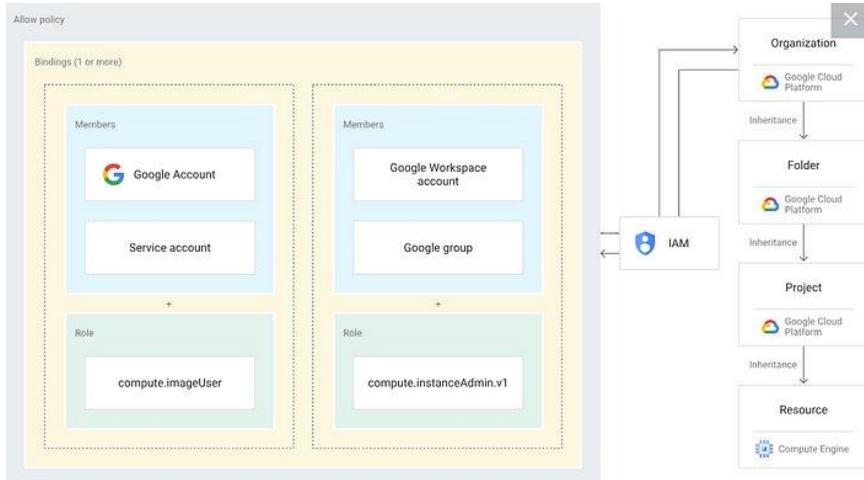
# Permissions

Permissions define specific actions that can be performed on resources.

- **storage.objects.create** allows the creation of objects in Cloud Storage.
- **compute.instances.start** allows starting a virtual machine.

# How IAM Works

- IAM checks allow policy before access.



# Least Privilege

Give only required permissions.

# Access Boundaries

Limit identities to specific resources.

# PAM

Temporary elevated access for critical tasks.

# Best Practices

Use predefined roles, review access, enable MFA.