

Module 3----- Assignment

Create an owner role, and try to launch an instance.

Go to IAM and create a IAM role.

The screenshot shows the Google Cloud Platform IAM & Admin console for project 'Prac-Project'. The left sidebar contains navigation links for IAM & Admin, IAM, Identity & Organization, Policy Troubleshooter, Policy Analyzer, Organization Policies, Service Accounts, Workload Identity Federati..., Labels, Tags, Manage Resources, and Release Notes. The main content area is titled 'Permissions for project "Prac-Project"' and shows a list of permissions. The 'View By' tabs are 'PRINCIPALS' and 'ROLES'. A checkbox for 'Include Google-provided role grants' is present. A filter bar is at the top of the table. The table has columns for Type, Principal, Name, Role, Security insights, and Inheritance. Three entries are listed: a Compute Engine default service account with the role 'Editor', a Google APIs Service Agent with the role 'Editor', and a user 'arpita kesharwani' with the role 'Owner'.

Type	Principal	Name	Role	Security insights	Inheritance
<input type="checkbox"/>	360386619929-compute@developer.gserviceaccount.com	Compute Engine default service account	Editor		
<input type="checkbox"/>	360386619929@cloudservices.gserviceaccount.com	Google APIs Service Agent	Editor		
<input type="checkbox"/>	arpitacs0024@gmail.com	arpita kesharwani	Owner		

Add user as Owner.

Add principals to "Prac-Project"

Add principals, roles to "Prac-Project" project

Enter one or more principals below. Then select a role for these principals to grant them access to your resources. Multiple roles allowed. [Learn more](#)

New principals

arpitakesharwani4@gmail.com ✕



Role *

Owner ▼

Condition

[Add condition](#)



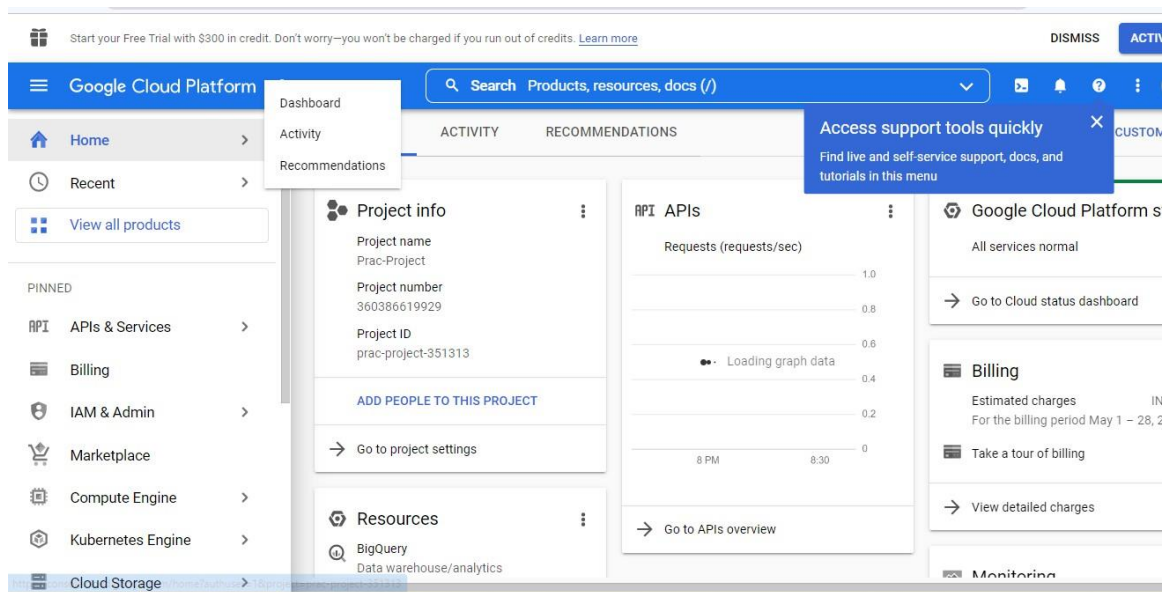
Full access to most Google Cloud resources. See the list of included permissions.

[+ ADD ANOTHER ROLE](#)

SAVE

CANCEL

Now, We need to accept the invitation on the email id provided. We logged in to the owner console.



Launch a instance.

Name *
instance-1-owner

Labels ?
[+ ADD LABELS](#)

Region *
asia-east1 (Taiwan) ▼ ?
Region is permanent

Zone *
asia-east1-b
Zone is permanent

Machine configuration

Machine family

[GENERAL-PURPOSE](#) [COMPUTE-OPTIMIZED](#) [MEMORY-OPTIMIZE](#)

Machine types for common workloads, optimized for cost and flexibility

Series
E2
CPU platform selection based on availability

Machine type
e2-medium (2 vCPU, 4 GB memory)

VM launched.

VM instances [+ CREATE INSTANCE](#) [OPERATIONS](#) [HELP ASSISTANT](#) [SHOW INFO PANEL](#) [LEARN](#)

[INSTANCES](#) [INSTANCE SCHEDULES](#)

VM instances are highly configurable virtual machines for running workloads on Google infrastructure. [Learn more](#)

Filter Enter property name or value

Status

instance-1-owner

asia-east1-b

10.140.0.2 (nic0)

34.80.29.125 (nic0)

SSH

Related actions

Change this owner role to editor, and try to delete the instance created earlier.

Edit Role.

Edit permissions

Principal

Project

arpitakesharwani4@gmail.com

Prac-Project

Role

Editor

Condition

[Add condition](#)

View, create, update, and delete most Google Cloud resources. See the list of included permissions.

[+ ADD ANOTHER ROLE](#)

SAVE

TEST CHANGES

CANCEL

Notifications



Delete VM instance "instance-1-owner"

Just now

Prac-Project

[SEE ALL ACTIVITIES](#)

Using pre-defined roles, try to create a user which can create or delete compute instances. (Do not use owner, editor or viewer).

Select role as compute admin for compute instances.

Edit permissions

Principal

arpitakesharwani4@gmail.com

Project

Prac-Project

Role

Compute Admin

Condition

[Add condition](#)



Full control of all Compute Engine resources.

[+ ADD ANOTHER ROLE](#)

SAVE

TEST CHANGES



CANCEL

We cannot add user from predefined compute admin role. We need also provide User access role.

Google Cloud Platform

Prac-Project

Search iam

IAM & Admin

IAM

Identity & Organization

Policy Troubleshooter

Policy Analyzer

Organization Policies

Service Accounts

Workload Identity Federati...

Labels

Tags

Manage Resources

Release Notes

IAM

+ ADD

- REMOVE

PERMISSIONS

RECOMMENDATIONS HISTORY

Permissions for project "Prac-Project"

These permissions affect this project and all of its resources. [Learn more](#)

View By:

PRINCIPALS

ROLES

Filter

Enter property name or value

<input type="checkbox"/>	Type	Principal	↑
<input type="checkbox"/>		360386619929-compute@developer.gserviceaccount.com	
<input type="checkbox"/>		360386619929@cloudservices.gserviceaccount.com	
<input type="checkbox"/>		arpitacs0024@gmail.com	
<input type="checkbox"/>		arpitakesharwani4@gmail.com	

Edit permissions

Principal
arpitakesharwani4@gmail.com

Project
Prac-Project

Role
Compute Admin

Full control of all Compute Engine resources.

Condition
[Add condition](#)

Role
Service Account User

Run operations as the service account.

Condition
[Add condition](#)

[+ ADD ANOTHER ROLE](#)

SAVE

TEST CHANGES

CANCEL

Instance created now.

VM instances

CREATE INSTANCE

OPERATIONS

HELP ASSISTANT

SHOW INFO PANEL

LEARN

INSTANCES

INSTANCE SCHEDULES

VM instances are highly configurable virtual machines for running workloads on Google infrastructure. [Learn more](#)

Filter

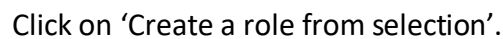
Enter property name or value

<input type="checkbox"/>	Status	Name ↑	Zone	Recommendations	In use by	Internal IP	External IP	Connect
<input type="checkbox"/>	✓	instance-1	asia-south1-c			10.160.0.3 (nic0)	34.93.169.213 (nic0)	SSH ▾ ⋮

Related actions

HIDE

Go to IAM → Roles then from inside compute role we create storage role as below-



Google Cloud Platform

Prac-Project

Search Products, resources, d

IAM & Admin

Tags

Settings

Privacy & Security

Identity-Aware Proxy

Roles

Audit Logs

Asset Inventory

Essential Contacts

Groups

Manage Resources

Release Notes

<|

← Create Role

Custom roles let you group permissions and assign them to principals i organization. You can manually select permissions or import permissio role. [Learn more](#)

Title *

Custom Compute Storage Admin

Description

Created on: 2022-05-28 Based on: Compute Admin

ID *

CustomComputeAdmin

Role launch stage

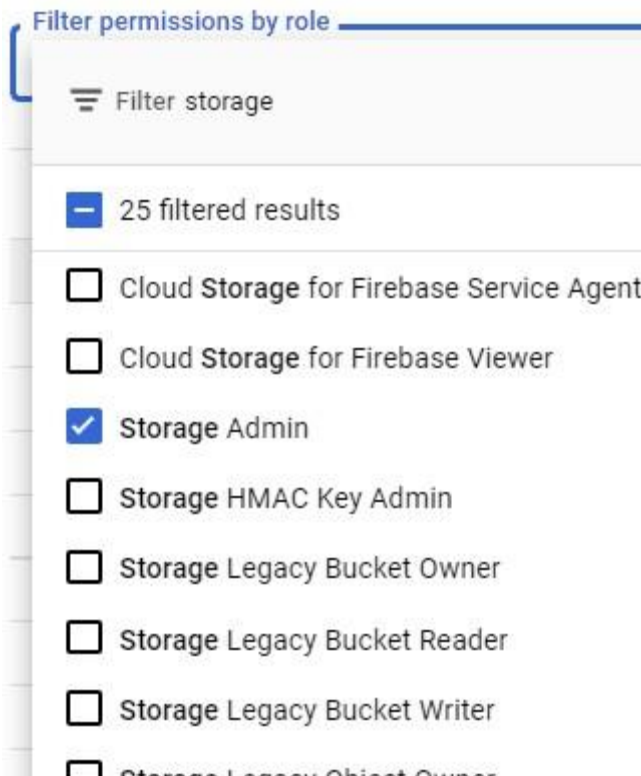
Alpha

+ ADD PERMISSIONS

581 assigned permissions

Select permission 'Storage Admin' and create.

Add permissions



Custom role created.

IAM & Admin

Roles [+ CREATE ROLE](#) [CREATE ROLE FROM SELECTION](#)

Roles for "Prac-Project" project

A role is a group of permissions that you can assign to principals. You can create a role and add permissions to it, or copy an existing role and adjust its permissions. [Learn more](#)

Filter Enter property name or value

Type	Title	Used in	Status
<input checked="" type="checkbox"/>	Custom Compute Storage Admin	Custom	Enabled
<input type="checkbox"/>	AAM Admin	Dialogflow	Enabled
<input type="checkbox"/>	AAM Conversational Architect	Dialogflow	Enabled
<input type="checkbox"/>	AAM Dialog Designer	Dialogflow	Enabled
<input type="checkbox"/>	AAM Lead Dialog Designer	Dialogflow	Enabled
<input type="checkbox"/>	AAM Viewer	Dialogflow	Enabled

Role created

Custom Compute Storage Admin

ID projects/351313/iamAdmin

Role launch stage Alpha

Description
Created on: 2022-05-28 Based on: Compute Admin

605 assigned permissions

- compute.acceleratorTypes.get
- compute.acceleratorTypes.list
- compute.addresses.create
- compute.addresses.createInternal
- compute.addresses.delete
- compute.addresses.deleteInternal
- compute.addresses.get
- compute.addresses.list
- compute.addresses.setLabels
- compute.addresses.use
- compute.addresses.useInternal
- compute.autoscalers.create

Assign this custom role to IAM user.

Edit permissions

Principal

arpitakesharwani4@gmail.com

Project

Prac-Project

Role

Custom Compute Storage Admin ▼

Condition

[Add condition](#)



Created on: 2022-05-28 Based on:
Compute Admin

[+ ADD ANOTHER ROLE](#)

SAVE

TEST CHANGES



CANCEL



arpitakesharwani4@gmail.com

kesharwani

Custom Compute Storage Admin



Edit principal

Able to create bucket and instance.

Bucket created.

The screenshot shows the Google Cloud Platform interface. The top navigation bar includes the Google Cloud Platform logo, the project name 'Prac-Project', and various utility icons. On the left, a navigation menu is visible with options like 'Storage', 'Monitoring', and 'Settings'. The main content area is titled 'Bucket details' and shows the bucket name 'buc11mm'. Below the name, key properties are listed: Location (us (multiple regions in United States)), Storage class (Standard), Public access (Not public), and Protection (None). There are tabs for 'OBJECTS', 'CONFIGURATION', 'PERMISSIONS', 'PROTECTION', and 'LIFECYCLE'. The 'OBJECTS' tab is active, showing a list of objects. The list is currently empty, with a message 'No rows to display'. Above the list, there are filters and a 'Show deleted data' toggle. The bottom of the page shows a navigation bar with 'Marketplace' and 'Release Notes'.

We also need to add service Account user role to enable creation of instances.

Instance also created.

The screenshot shows the Google Cloud Platform 'VM Instances' page. The left navigation menu includes 'VM instances', 'Instance templates', 'Sole-tenant nodes', 'Machine images', 'TPUs', 'Committed use discounts', 'Migrate for Compute Engi...', 'storage', 'Disks', 'Marketplace', and 'Release Notes'. The main content area is titled 'INSTANCES' and 'INSTANCE SCHEDULES'. It provides a brief description of VM instances and a 'Filter' input field. Below the filter is a table with the following columns: Status, Name, Zone, Recommendations, In use by, Internal IP, External IP, and Connect. The table contains one instance: 'instance-1' in the 'asia-south1-c' zone, with internal IP '10.160.0.6 (nic0)' and external IP '34.93.169.213 (nic0)'. The 'Connect' column shows 'SSH'. Below the table, there are 'Related actions' including 'Explore Actifio GO', 'View billing report', 'Monitor VMs', 'Explore VM logs', 'Set up firewall rules', and 'Patch management'.

We don't have permission for other resources.