

GCP Architect Training

support@intellipaat.com - +91-7022374614 - US: 1-800-216-8930 (Toll Free)

GCP-Module-5-Assignment-1-GCP IAM COMPLETED by Nagesha KS

Please check the following screenshots for each question.

Tasks To Be Performed:

Use **IAM** to do the following tasks:

1. **Create an owner role** and try to **launch an instance**.
2. **Change this owner role to editor**, and try to **delete the instance** created earlier.
3. **Using predefined roles**, try to **create a user** who can create or delete compute instances.
(Do not use owner, editor or viewer)
4. **Create a custom role** which can create and edit compute and storage instances.

Welcome – Nagesha-GCP-Proje x +


console.cloud.google.com/welcome/new?project=nagesha-gcp-project-1

Free trial status: ₹24,853.69 credit and 85 days remaining. Activate your full account to get unlimited access to all of Google Cloud – use any remaining credits, then pay only for what you use. Dismiss **Activate**

Google Cloud Nagesha-GCP-Project 1 Search (/) for resources, docs, products and more Search

Welcome, Nagesha K S

You're in free trial



₹239 out of ₹25,093 credits used
Expires 4 January 2025
[What happens when trial ends?](#)

ACTIVATE FULL ACCOUNT

You're working on project **Nagesha-GCP-Project 1**

Number: 872634317172 ID: nagesha-gcp-project-1

[Add people to your project](#)
[Set up budget alerts](#)
[Review product spend](#)

Try our most advanced model: Gemini 1.5 Pro

Try Gemini →

Recommended based on your interest in Web, mobile, game, storage

Pre-built solution templates

Activate Windows
Go to Settings to activate Windows.



Service accounts – IAM and admin

console.cloud.google.com/iam-admin/serviceaccounts?project=nagesha-gcp-project-1

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N

IAM and admin

IAM

PAM

Principal access boundary

Identity and organisation

Policy troubleshooter

Policy analyser NEW

Organisation policies

Service accounts

Manage resources

Release notes

Service accounts

+ CREATE SERVICE ACCOUNT

DELETE

+ MANAGE ACCESS

:

?

Service accounts for project 'Nagesha-GCP-Project 1'

A service account represents a Google Cloud service identity, such as code running on Compute Engine VMs, App Engine apps or systems running outside Google. [Learn more about service accounts.](#)

Organisation policies can be used to secure service accounts and block risky service account features, such as automatic IAM Grants, key creation/upload or the creation of service accounts entirely. [Learn more about service account organisation policies.](#)

Filter Enter property name or value

	Email	Status	Name ↑	Description	Key	Actions
<input type="checkbox"/>	nagesha-gcp-project-1@appspot.gserviceaccount.com	Enabled	App Engine default service account		No key	⋮
<input type="checkbox"/>	872694317172-compute@developer.gserviceaccount.com	Enabled	Compute Engine default service account		No key	⋮

Activate Windows

Go to Settings to activate Windows.

10:38

11-10-2024

Create service account – IAM

console.cloud.google.com/iam-admin/serviceaccounts/create?project=nagesha-gcp-project-1

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Identity and organisation

Policy troubleshooter

Policy analyser

Organisation policies

Service accounts

What's new at Google Cloud

Manage resources

Release notes

Create service account

owner-service-account

Display name for this service account

Service account ID *

owner-service-account

x

↺

Email address: owner-service-account@nagesha-gcp-project-1.iam.gserviceaccount.com

Service account description

Service account for owner role

Describe what this service account will do

CREATE AND CONTINUE

2

Grant this service account access to the project (optional)

3

Grant users access to this service account (optional)

DONE

CANCEL

Activate Windows

Go to Settings to activate Windows.

Windows taskbar with icons for File Explorer, Edge, Chrome, etc.

System tray showing time 10:44 and date 11-10-2024.

Create service account – IAM admin

console.cloud.google.com/iam-admin/serviceaccounts/create?project=nagesha-gcp-project-1

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Organisation policies

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Release notes

Create service account

1Service account details

2Grant this service account access to the project (optional)

3Grant users access to

Grant this service account access to Nagesha-GCP-Project 1 so that it has permission to complete specific actions on the resources in your project. [Learn more](#)

Select a role

IAM condition (optional) ?
+ ADD IAM CONDITION

+ ADD ANOTHER ROLE

CONTINUE

Service account created

DONE

CANCEL

Activate Windows

Go to Settings to activate Windows.

10:44

11-10-2024

Create service account – IAM ad

console.cloud.google.com/iam-admin/serviceaccounts/create?project=nagesha-gcp-project-1

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Google Cloud

Nagesha-G

Filter Filter by role or permission

and more

Search

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Identity and organisation

Policy troubleshooter

Policy analyser NEW

Organisation policies

Service accounts

Managed Identity Federation

Manage resources

Release notes

Resource Settings

Risk Manager

Roles

Secret Manager

Secure Source Manager

Security Centre

Serverless VPC Access

MANAGE ROLES

Roles

Role Administrator

Role Viewer

Role Viewer

Read access to all custom roles in the project.

+ ADD ANOTHER ROLE

CONTINUE

3 Grant users access to

Service account created

DONE

CANCEL

Activate Windows

Go to Settings to activate Windows.

Windows taskbar with icons for Start, Task View, File Explorer, Edge, Chrome, Word, and others. System tray shows time 10:46 and date 11-10-2024.

Create service account – IAM

console.cloud.google.com/iam-admin/serviceaccounts/create?project=nagesha-gcp-project-1

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Service accounts

Manage resources

Release notes

Create service account

SHOW INFO PANEL

✓ Service account details

✓ Grant this service account access to the project (optional)

3 Grant users access to this service account (optional)

Grant access to users or groups that need to perform actions as this service account. [Learn more](#)

Service account users role

?

Grant users the permissions to deploy jobs and VMs with this service account

Service account admins role

?

Grant users the permission to administer this service account

DONE

CANCEL

Policy updated

×

Activate Windows

Go to Settings to activate Windows.

Windows Taskbar

System Tray

Service accounts – IAM and admin

console.cloud.google.com/iam-admin/serviceaccounts?project=nagesha-gcp-project-1

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Release notes

Service accounts

+ CREATE SERVICE ACCOUNT

DELETE

+ MANAGE ACCESS

⋮

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Filter Enter property name or value

Email

Status

Name ↑

Description

Key

Actions

📧

nagesha-gcp-project-1@appspot.gserviceaccount.com

Enabled

App Engine default service account

No key

⋮

📧 872634317172-compute@developer.gserviceaccount.com

Enabled

Compute Engine default service account

No key

⋮

📧 owner-service-account@nagesha-gcp-project-1.iam.gserviceaccount.com

Enabled

owner-service-account

Service account for owner role

No key

⋮

Activate Windows

Go to Settings to activate Windows.

Windows taskbar icons

System tray: 10:47, 11-10-2024



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Compute Engine



VM instances

CREATE INSTANCE

IMPORT VM

REFRESH

LEARN

Virtual machines



VM instances



Instance templates



Sole-tenant nodes



Machine images



TPUs



Committed-use discounts



Reservations



Marketplace



Release notes

<|

INSTANCES

OBSERVABILITY

INSTANCE SCHEDULES

VM instances

Filter Enter property name or value



Status

Name ↑

Zone

Recommendations

In use by

Internal IP

External IP

Connect



Activate Windows
Go to Settings to activate Windows.



10:49

11-10-2024



Compute Engine – Nagesha-GC

New Tab

console.cloud.google.com/compute/instancesAdd?project=nagesha-gcp-project-1&googleTemplateId=small&initialName=small-20241011-054113&instanceZone=us-centr...

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Create an instance

CREATE VM FROM...

EQUIVALENT CODE

VM basics
module-5, us-central1-a, Spot

Machine configuration
e2-micro

OS and storage
Debian GNU/Linux 12 (bookworm)

Networking
1 firewall rule, 1 network interface

Observability

Security

Advanced

Security

Identity and API access ?

Service accounts ?

Service account
owner-service-account

Requires the Service Account User role (roles/iam.serviceAccountUser) to be set for users who want to access VMs with this service account. [Learn more](#)

Access scopes ?

☒ Allow default access

☐ Allow full access to all Cloud APIs

☐ Set access for each API

Confidential VM service ?

☐ Confidential Computing is disabled on this VM instance

ENABLE

CREATE

CANCEL

EQUIVALENT CODE

Monthly estimate

US\$3.44

That's about US\$0.00 hourly

Pay for what you use: No upfront costs and per-second billing

Item	Monthly estimate
2 vCPU + 1 GB memory	US\$2.44
10 GB balanced persistent disk	US\$1.00
Total	US\$3.44

[Compute Engine pricing](#)

LESS

Activate Windows

Go to Settings to activate Windows.

Windows taskbar icons

System tray: 11:13, 11-10-2024

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Compute Engine

VM instances

CREATE INSTANCE IMPORT VM REFRESH LEARN

INSTANCES OBSERVABILITY INSTANCE SCHEDULES

1 START/RESUME STOP SUSPEND RESET CREATE A GROUP BASED ON THIS VM DELETE

Filter Enter property name or value

Status	Name	Zone	Recommendations	In use by	Internal IP	External IP	Connect
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> module-5	us-central1-a			10.128.0.9 (nic0)	34.41.86.42 (nic0)	SSH

Related actions

Explore Backup and DR NEW

Back up your VMs and set up disaster recovery

View billing report

View and manage your Compute Engine billing

Monitor VMs

View outlier VMs across metrics like CPU and network

Explore VM logs

View, search, analyse and download VM instance logs

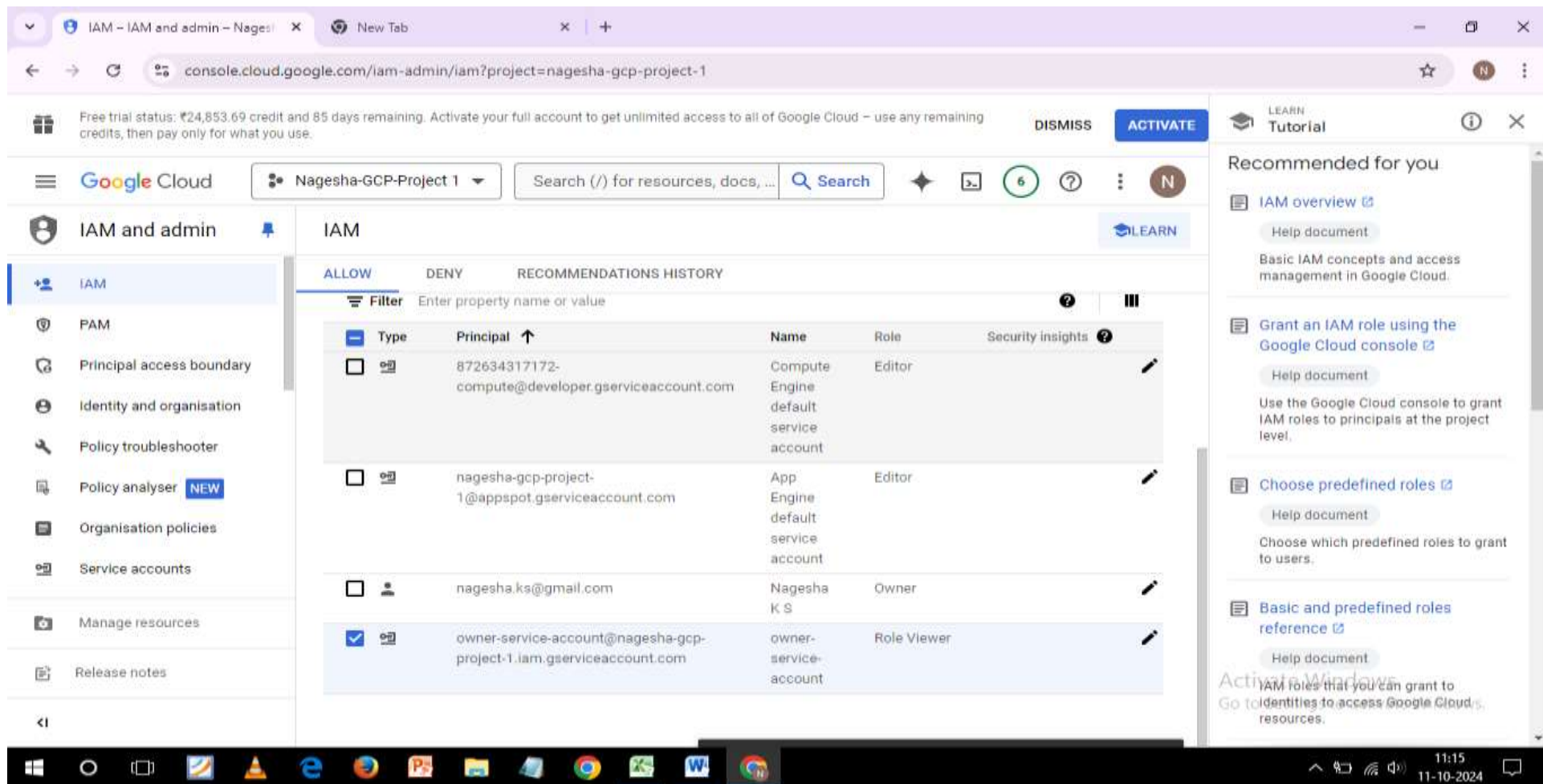
Set up firewall rules

Control traffic to and from a VM instance

Patch management

Schedule patch updates and view patch compliance on VM instances

Load balance between VMs



IAM – IAM and admin – Nagesh

New Tab

console.cloud.google.com/iam-admin/iam?project=nagesha-gcp-project-1

N

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Google Cloud

IAM and admin

IAM

PAM

Principal access boundary

Identity and organisation

Policy troubleshooter

Policy analyser

NEW

Organisation policies

Service accounts

Manage resources

Release notes

Principal

owner-service-account@nagesha-gcp-project-1.iam.gserviceaccount.com

Project

Nagesha-GCP-Project 1

Assign Roles

Roles are composed of sets of permissions and determine what the principal can do with this resource. [Learn more](#)

Role

Editor

IAM condition (optional)

+ ADD IAM CONDITION

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

+ ADD ANOTHER ROLE

SAVE

TEST CHANGES

CANCEL

Summary of changes

Role removed

Role Viewer

Role added

Editor

TEST CHANGES

LEARN

Tutorial

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IAM overview

Help document

Basic IAM concepts and access management in Google Cloud.

Grant an IAM role using the Google Cloud console

Help document

Use the Google Cloud console to grant IAM roles to principals at the project level.

Choose predefined roles

Help document

Choose which predefined roles to grant to users.

Basic and predefined roles reference

Help document

Activate Windows
Go to Settings to activate Windows.

IAM – IAM and admin – Nagesh

New Tab

←

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console.cloud.google.com/iam-admin/iam?project=nagesha-gcp-project-1

☆

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IAM and admin

+ IAM

PAM

Principal access boundary

Identity and organisation

Policy troubleshooter

Policy analyser NEW

Organisation policies

Service accounts

Manage resources

Release notes

IAM

ALLOW

DENY

RECOMMENDATIONS HISTORY

Filter Enter property name or value

Type	Principal ↑	Name	Role	Security insights ?
<input type="checkbox"/>	872634317172-compute@developer.gserviceaccount.com	Compute Engine default service account	Editor	✎
<input type="checkbox"/>	nagesha-gcp-project-1@appspot.gserviceaccount.com	App Engine default service account	Editor	✎
<input type="checkbox"/>	nagesha.ks@gmail.com	Nagesha K S	Owner	✎
<input checked="" type="checkbox"/>	owner-service-account@nagesha-gcp-project-1.iam.gserviceaccount.com	owner-service-account	Editor	✎

Policy updated ✕

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IAM overview

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Grant an IAM role using the Google Cloud console

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Basic and predefined roles reference

Help document

IAM roles that you can grant to identities to access Google Cloud resources.

Windows Taskbar

11:16 11-10-2024

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Google Cloud

IAM and admin

IAM

PAM

Principal access boundary

Identity and organisation

Policy troubleshooter

Policy analyser NEW

Organisation policies

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Release notes

Grant access to 'Nagesha-GCP-Project 1'

Resource

Nagesha-GCP-Project 1

Add principals

Principals are users, groups, domains or service accounts. [Learn more about principals in IAM](#)

New principals *

nagesha.ks@gmail.com

Assign Roles

Roles are composed of sets of permissions and determine what the principal can do with this resource. [Learn more](#)

Role *

Compute Instance Admin (v1)

IAM condition (optional)

+ ADD IAM CONDITION

Full control of Compute Engine instances, instance groups, disks, snapshots and images. Read access to all Compute Engine networking resources.

+ ADD ANOTHER ROLE

SAVE

CANCEL

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IAM overview

Help document

Basic IAM concepts and access management in Google Cloud.

Grant an IAM role using the Google Cloud console

Help document

Use the Google Cloud console to grant IAM roles to principals at the project level.

Choose predefined roles

Help document

Choose which predefined roles to grant to users.

Basic and predefined roles reference

Help document

IAM roles that you can grant to identities to access Google Cloud resources.

Windows taskbar with icons for various applications and the system clock showing 11:35 on 11-10-2024.

Roles – IAM and admin – Nagesha

console.cloud.google.com/iam-admin/roles?project=nagesha-gcp-project-1

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Search

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IAM and admin

Privacy and security

Identity-Aware Proxy

Roles

Audit logs

Essential contacts

Asset inventory

Quotas and system limits

Groups

Manage resources

Release notes

Roles

+ CREATE ROLE

CREATE ROLE FROM SELECTION

HIDE INFO PANEL

Roles for Nagesha-GCP-Project 1 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 type="checkbox"/>		Composer Shared VPC agent	Cloud Composer	Enabled
<input type="checkbox"/>		Composer User	Cloud Composer	Enabled
<input type="checkbox"/>		Composer Worker	Cloud Composer	Enabled
<input type="checkbox"/>		Compute Admin	Compute Engine	Enabled

Compute Storage Admin

ID

roles/compute.storageAdmin

Role launch stage

General Availability

Description

Full control of Compute Engine storage resources.

104 assigned permissions

compute.diskTypes.get
compute.diskTypes.list
compute.disks.addResourcePolicies
compute.disks.create
compute.disks.createSnapshot
compute.disks.createTagBinding
compute.disks.delete
compute.disks.deleteTagBinding
compute.disks.get
compute.disks.getIamPolicy
compute.disks.list
compute.disks.listEffectiveTags
compute.disks.listTagBindings
compute.disks.removeResourcePolicies

Recommended for you

IAM overview

Help document

Basic IAM concepts and access management in Google Cloud.

Roles and permissions

Help document

Learn roles and permissions, which dictate what access a principal has.

Basic and predefined roles reference

Help document

IAM roles that you can grant to identities to access Google Cloud resources.

IAM permissions reference

Help document

This page lists all Identity and Access Management (IAM) permissions and the predefined roles that grant them.

Windows taskbar

System tray: 11:38, 11-10-2024

Create role – IAM and admin – x +

console.cloud.google.com/iam-admin/roles/create?project=nagesha-gcp-project-1

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IAM and admin

Settings

Privacy and security

Identity-Aware Proxy

Roles

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Quotas and system limits

Groups

Manage resources

Release notes

<1

Create role

Custom roles let you group permissions and assign them to principals in your project or organisation. You can manually select permissions or import permissions from another role. [Learn more](#)

Title *

compute-storage-admin

21 / 100 characters

Description

Created on: 2024-10-11

22 / 256 characters

ID *

computeStorageAdmin

Role launch stage

Beta

+ ADD PERMISSIONS

1 assigned permission

Activate Windows

Go to Settings to activate Windows.

Windows taskbar with icons for File Explorer, Edge, Word, and others.

System tray showing time 11:45 and date 11-10-2024.

Create role – IAM and admin – x

console.cloud.google.com/iam-admin/roles/create?project=nagesha-gcp-project-1

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Privacy and security

Identity-Aware Proxy

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Essential contacts

Asset inventory

Quotas and system limits

Groups

Manage resources

Release notes

Create role

Role launch stage

Beta

+ ADD PERMISSIONS

1 assigned permission

Filter

Enter property name or value

Permission

compute.instances.create

Status

Supported

Some permissions might be associated with and checked by third parties. These permissions contain the third party's service and domain name in the permission prefix.

SHOW ADDED AND REMOVED PERMISSIONS

CREATE

CANCEL

Activate Windows

Go to Settings to activate Windows.

11:45

11-10-2024

Roles – IAM and admin – Nagesha

console.cloud.google.com/iam-admin/roles?project=nagesha-gcp-project-1

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IAM and admin

Privacy and security

Identity-Aware Proxy

Roles

Audit logs

Essential contacts

Asset inventory

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Roles

+ CREATE ROLE

CREATE ROLE FROM SELECTION

SHOW INFO PANEL

Roles for Nagesha-GCP-Project 1 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 type="checkbox"/>	compute-storage-admin	Custom	Enabled
<input type="checkbox"/>	Access Approval Approver	Access Approval	Enabled
<input type="checkbox"/>	Access Approval Config Editor	Access Approval	Enabled
<input type="checkbox"/>	Access Approval Invalidator	Access Approval	Enabled
<input type="checkbox"/>	Access Approval Viewer	Access Approval	Enabled
<input type="checkbox"/>	Access Context Manager Admin	Access Context Manager	Enabled
<input type="checkbox"/>	Access Context Manager Editor	Access Context Manager	Enabled
<input type="checkbox"/>	Access Context Manager Viewer	Access Context Manager	Enabled
<input type="checkbox"/>	Access Context Manager Policy	Access Context Manager	Enabled

Role created

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IAM overview

Help document

Basic IAM concepts and access management in Google Cloud.

Roles and permissions

Help document

Learn roles and permissions, which dictate what access a principal has.

Basic and predefined roles reference

Help document

IAM roles that you can grant to identities to access Google Cloud resources.

IAM permissions reference

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Windows taskbar with icons for Edge, File Explorer, and other apps.

System tray showing time 11:47 and date 11-10-2024.


Welcome – Nagesha-GCP-Proj x +

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Welcome, Nagesha K S

You're in free trial



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Expires 4 January 2025
[What happens when trial ends?](#)

[ACTIVATE FULL ACCOUNT](#)

You're working on project [Nagesha-GCP-Project 1](#) ?

Number: 872634317172 ID: nagesha-gcp-project-1

[Add people to your project](#)

[Set up budget alerts](#)

[Review product spend](#)

Try our most advanced model: Gemini 1.5 Pro

Try Gemini →

Recommended based on your interest in Web, mobile, game, storage -

Pre-built solution templates ?

Deploy a three-tier web app

Create a dynamic web app with

Activate Windows
Go to Settings to activate Windows.



Commands

Created an Owner Role and Launched an Instance

Go to **IAM & Admin > Service Accounts > Create Service Account**

Name: owner-service-account

Email address: owner-service-account@nagesha-gcp-project-1.iam.gserviceaccount.com

Description: Service account for owner role.

Assigned the **Owner** role to the service account.

Role: roles/owner

Go to **Compute Engine > VM Instances > Created Instance and named as module-5**

Under **Identity and API Access**, chose the **owner-service-account** and click **Create**

Changed the Role from Owner to Editor and Attempted to Delete the Instance

Modified IAM Role from Owner to Editor

Go to **IAM & Admin > IAM**

Find the service account **owner-service-account** and **Change the role from Owner to Editor**

New Role: roles/editor

Go back to **Compute Engine > VM Instances > tred to delete the instance**

Created a User Who Can Create or Delete Compute Instances (Without Using Owner, Editor, or Viewer)

Go to **IAM & Admin > IAM > Add**

Entered the new user's email address, Nagesha.ks@gmail.com

Role 1: Compute Instance Admin (v1) (roles/compute.instanceAdmin.v1)

Test the Permissions

Go to **Compute Engine > VM Instances**.

Created a Custom Role to Create and Edit Compute and Storage Instances

Go to **IAM & Admin > Roles > Create Role**

Role Name: compute-storage-admin

Role ID: compute_storage_admin

Description: Custom role for creating and editing compute and storage resources.

In the custom role creation page, click **Add Permissions**.

Add the following permissions for **Compute Engine and Save**

Go to **IAM & Admin > IAM > add new / existing user > Assign the custom role compute-storage-admin**

Verified that the user can:

Create and edit VM instances under **Compute Engine**.

Create and manage buckets/objects under **Cloud Storage**.