



Capstone Project

You work as a Cloud Engineer in XYZ corporation. The company has recently set up a new cloud team, and wants them to work on the company's Google Cloud Console. The company's resources are deployed in a project called "sample company".

There are three roles in the team:

- Admins - owner access
- Workers - edit access for VMs
- QA - viewer access for VMs

Create three users for the same.

There is a separate project QA where a storage server is running.

In the current architecture, the company is running a single server which is high in config for their application needs. You have been hired to make the architecture more resilient and cost effective. For implementing the same, following are the changes that you suggested:

1. Deploy the application on app service which can be scaled up and down from 2 instances to 10 instances. Use apache tools for this for creating traffic for the server.
2. A storage server was deployed in a different project. You have to ensure the app service is able to talk to that server. To ensure this, deploy a server in the same VPC as of app service, and check if you are able to ping storage VM in another project.
3. The app service will be interacting with a database. For now, the database exists in a local system. Here is the [exported database](#). Use this and import in Cloud SQL.
4. The company wants to review different versions of the code on the app service. Explain the mechanism using screenshots.
5. Configure Stackdriver monitoring to monitor the storage server. An email should be triggered to the owner of the project in case this server goes down.

The above architecture and requirements have to be shown to the stakeholders using a proof of concept. Please implement the project and submit screenshots to the support team.

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Google Cloud GCP-Assessments service account Search

IAM & Admin

IAM Identity & Organization Policy Troubleshooter Policy Analyzer Organization Policies Service Accounts **Workload Identity Federat...** Workforce Identity Federa... Labels Tags Settings Privacy & Security Manage Resources Release Notes

Create service account

1 Service account details

Service account name: Admins ✓
Display name for this service account

Service account ID *: adminss
Email address: adminss@gcp-assignments-402508.iam.gserviceaccount.com

Service account description
Describe what this service account will do

CREATE AND CONTINUE

2 Grant this service account access to project (optional)

3 Grant users access to this service account (optional)

DONE **CANCEL**

Type here to search

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Google Cloud GCP-Assignments service account Search

IAM & Admin 2

Service account details

Grant this service account access to project (optional)

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

Role: Owner + ADD IAM CONDITION

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

+ ADD ANOTHER ROLE

CONTINUE

Grant users access to this service account (optional)

DONE CANCEL

Service account created

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IAM & Admin Service accounts + CREATE SERVICE ACCOUNT DELETE MANAGE ACCESS REFRESH LEARN

Service accounts for project "GCP-Assignments"

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.](#)

Organization 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 organization policies.](#)

Filter Enter property name or value

Email	Status	Name	Description	Key ID	Key creation date	OAuth 2 Client IDs	Actions
admins@gcp-assignments-402508.iam.gserviceaccount.com	Enabled	Admins		8ebd41b6a51c02efdb81a39cd9063e0cc9d8ba3	Oct 30, 2023	1107339	⋮
gcp-assignments-402508@appspot.gserviceaccount.com	Enabled	App Engine default service account	No keys			1093635	⋮
651891184407-compute@developer.gserviceaccount.com	Enabled	Compute Engine default service account	No keys			1058837	⋮
qa-908@gcp-assignments-402508.iam.gserviceaccount.com	Enabled	QA		4b66fe40201a99534eab37b931b5eba6b7be96ee	Oct 30, 2023	1111276	⋮
workers@gcp-assignments-402508.iam.gserviceaccount.com	Enabled	Workers		c67e634328f663a976beaff72e5833d89988203c	Oct 30, 2023	1149968	⋮

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console.cloud.google.com/networking/networks/list?referrer=search&project=sample-company-403503

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Google Cloud Sample Company vpc networks Search

VPC network

VPC networks

IP addresses

Bring your own IP

Firewall

Routes

VPC network peering

Shared VPC

Serverless VPC access

Packet mirroring

Select a project

NEW PROJECT

Search projects and folders

RECENT STARRED ALL

	Name	ID
<input checked="" type="checkbox"/>	Sample Company ?	sample-company-403503 ✓
<input type="checkbox"/>	GCP-Assessments ?	gcp-assessments-402508
<input type="checkbox"/>	My First Project ?	watchful-ripple-398606

CANCEL

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Earnings upcoming

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Google Cloud Sample Company vpc networks Search

VPC network

VPC networks + CREATE VPC NETWORK REFRESH

NETWORKS IN CURRENT PROJECT SUBNETS IN CURRENT PROJECT

Get real-time analytics with Network Intelligence Center

Use Network Intelligence Center for comprehensive monitoring and troubleshooting. [Learn more](#)

- ✓ Visualize your network resources
- ✓ Diagnose and prevent connectivity issues
- ✓ View packet loss and latency metrics
- ✓ Keep your firewall rules strict and efficient

GO TO NETWORK INTELLIGENCE CENTER REMIND ME LATER

SMTP port 25 disallowed in this project. [Learn more](#)

VPC networks

Filter Enter property name or value

Name ↑	Subnets	MTU ?	Mode	Internal IP ranges	Gateways	Firewall rules	Global dynamic routing
default	41	1460	Auto			8	Off

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console.cloud.google.com/networking/networks/add?project=sample-company-403503

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VPC network x Create a VPC network

VPC networks IP addresses Bring your own IP Firewall Routes VPC network peering Shared VPC Serverless VPC access Packet mirroring

Name * vpc2 ✓ Lowercase letters, numbers, hyphens allowed

Description

Maximum transmission unit (MTU) 1460

VPC network ULA internal IPv6 range ? Enabling this feature will assign a /48 from Google defined ULA prefix fd20::/20. Enabled Disabled

Subnets Subnets let you create your own private cloud topology within Google Cloud. Click Automatic to create a subnet in each region, or click Custom to manually define the subnets. [Learn more](#)

Subnet creation mode ? Custom ✓ Automatic

subnet2 ✓

ADD SUBNET

Type here to search

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VPC network VPC networks + CREATE VPC NETWORK REFRESH

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VPC networks

Filter Enter property name or value

Name	Subnets	MTU	Mode	Internal IP ranges	Gateways	Firewall rules	Global dynamic routing
default	41	1460	Auto			8	Off
vpc2	1	1460	Custom			4	Off

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Compute Engine VM instances CREATE INSTANCE IMPORT VM REFRESH

Virtual machines VM instances ✓

Instance templates Sole-tenant nodes Machine images TPUs Committed use discounts Reservations Migrate to Virtual Machin...

Storage Disks Snapshots Marketplace Release Notes

VM instances

Filter Enter property name or value

Status	Name ▲	Zone	Recommendations	In use by	Internal IP	External IP	Connect
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VM Instances

Compute Engine lets you use virtual machines that run on Google's infrastructure. Create micro-VMs or larger instances running Debian, Windows, or other standard images. Create your first VM instance, import it using a migration service, or try the quickstart to build a sample app.

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Create an instance EQUIVALENT CODE

To create a VM instance, select one of the options:

- + New VM instance Create a single VM instance from scratch
- + New VM instance from template Create a single VM instance from an existing template
- New VM instance from machine image Create a single VM instance from an existing machine image
- Marketplace Deploy a ready-to-go solution onto a VM instance

Name * instance-2

Manage TAGS AND LABELS

Region * asia-east1 (Taiwan) Zone * asia-east1-b

Machine configuration

General purpose Compute optimized Memory optimized GPUs

Machine types for common workloads, optimized for cost and flexibility

Series	Description	vCPUs	Memory	Platform
C3	Consistently high performance	4 - 176	8 - 1,408 GB	Intel Sapphire Rapids
C3D	Consistently high performance	4 - 360	8 - 2,880 GB	AMD Genoa
E2	Low cost, day-to-day computing	0.25 - 32	1 - 128 GB	Based on availability
N2	Balanced price & performance	2 - 128	2 - 864 GB	Intel Cascade and Ice Lake
N2D	Balanced price & performance	2 - 224	2 - 896 GB	AMD EPYC
T2A	Scale-out workloads	1 - 48	4 - 192 GB	Ampere Altra Arm
T2D	Scale-out workloads	1 - 60	4 - 240 GB	AMD EPYC Milan

CREATE CANCEL EQUIVALENT CODE

Monthly estimate \$5.60 That's about \$0.01 hourly Pay for what you use: no upfront costs and per second billing

Item	Monthly estimate
1 vCPU + 0.599609375 GB memory	\$6.57
10 GB balanced persistent disk	\$1.00
Use discount	-\$1.97
Total	\$5.60

Compute Engine pricing ▾ ▲ LESS

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Create an instance EQUIVALENT CODE <|

To create a VM instance, select one of the options:

- New VM instance**
Create a single VM instance from scratch
- New VM instance from template**
Create a single VM instance from an existing template
- New VM instance from machine image**
Create a single VM instance from an existing machine image
- Marketplace**
Deploy a ready-to-go solution onto a VM instance

Enable per VM Tier_1 networking performance
Maximum outbound network bandwidth: 1Gbps
VM to Public IP: 1Gbps

Network interfaces ?

Network interface is permanent

Edit network interface

Network * vpc2 ✓

Subnetwork * subnet2 IPv4 (192.168.7.0/24) ✓

To use IPv6, you need an IPv6 subnet range. [LEARN MORE](#)

IP stack type
 IPv4 (single-stack)
 IPv4 and IPv6 (dual-stack)

Primary internal IPv4 address
Ephemeral (Automatic)

Monthly estimate
\$5.60
That's about \$0.01 hourly
Pay for what you use: no upfront costs and per second billing

Item	Monthly estimate
1 vCPU + 0.599609375 GB memory	\$6.57
10 GB balanced persistent disk	\$1.00
Use discount	-\$1.97
Total	\$5.60

[Compute Engine pricing](#) ?

^ LESS

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VM instances OBSERVABILITY INSTANCE SCHEDULES

VM instances

Filter Enter property name or value

Status	Name ↑	Zone	Recommendations	In use by	Internal IP	External IP	Connect
<input type="checkbox"/>	<input checked="" type="checkbox"/> instance-2	asia-east1-b			192.168.7.2 (nic0)	35.206.226.213 (nic0)	SSH <input type="button" value="..."/>

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, analyze, 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 Set up Load Balancing for your applications as your traffic and users grow

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Windows Taskbar icons: File Explorer, Mail, Google Chrome, Settings, Task View

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shell.cloud.google.com/?hl=en_US&fromcloudshell=true&show=terminal

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Cloud Shell Editor Preview Use the Legacy Editor

(sample-company-403503) x +

Welcome to Cloud Shell! Type "help" to get started.
Your Cloud Platform project in this session is set to **sample-company-403503**.
Use "gcloud config set project [PROJECT_ID]" to change to a different project.
dyaswanthkumar21@cloudshell:~ (sample-company-403503)\$ cloudshell_open --repo_url "https://github.com/GoogleCloudPlatform/nodejs-docs-samples" --page "editor" --force_new_clone ✓
2023/11/06 12:53:23 Cloning https://github.com/GoogleCloudPlatform/nodejs-docs-samples into /home/dyaswanthkumar21/cloudshell_open/nodejs-docs-samples-6
Cloning into '/home/dyaswanthkumar21/cloudshell_open/nodejs-docs-samples-6'...
remote: Enumerating objects: 54070, done.
remote: Counting objects: 100% (2247/2247), done.
remote: Compressing objects: 100% (1085/1085), done.
remote: Total 54070 (delta 1433), reused 1814 (delta 1106), pack-reused 51823
Receiving objects: 100% (54070/54070), 77.43 MiB | 16.06 MiB/s, done.
Resolving deltas: 100% (36922/36922), done.
dyaswanthkumar21@cloudshell:~/cloudshell_open/nodejs-docs-samples-6 (sample-company-403503)\$ cd appengine/hello-world/standard ✓
dyaswanthkumar21@cloudshell:~/cloudshell_open/nodejs-docs-samples-6/appengine/hello-world/standard (sample-company-403503)\$ ls ✓
app.js app.yaml package.json README.md test ✓
dyaswanthkumar21@cloudshell:~/cloudshell_open/nodejs-docs-samples-6/appengine/hello-world/standard (sample-company-403503)\$ npm install ✓
added 185 packages, and audited 186 packages in 9s

33 packages are looking for funding
run `npm fund` for details

found 0 vulnerabilities
dyaswanthkumar21@cloudshell:~/cloudshell_open/nodejs-docs-samples-6/appengine/hello-world/standard (sample-company-403503)\$

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Cloud Shell Editor Preview Use the Legacy Editor

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Search

```
33 packages are looking for funding
run `npm fund` for details

found 0 vulnerabilities
dyaswanthkumar21@cloudshell:~/cloudshell_open/nodejs-docs-samples-6/appengine/hello-world/standard (sample-company-403503)$ npm start ✓

> appengine-hello-world@0.0.2 start
> node app.js

App listening on port 8080
Press Ctrl+C to quit.
^C
dyaswanthkumar21@cloudshell:~/cloudshell_open/nodejs-docs-samples-6/appengine/hello-world/standard (sample-company-403503)$ gcloud app deploy -v ver1 ✓
Services to deploy:

descriptor: [/home/dyaswanthkumar21/cloudshell_open/nodejs-docs-samples-6/appengine/hello-world/standard/app.yaml]
source: [/home/dyaswanthkumar21/cloudshell_open/nodejs-docs-samples-6/appengine/hello-world/standard]
target project: [sample-company-403503]
target service: [default]
target version: [ver1]
target url: [https://sample-company-403503.de.r.appspot.com]
target service account: [sample-company-403503@appspot.gserviceaccount.com]

Do you want to continue (Y/n)? y

Beginning deployment of service [default]...
Created .gcloudignore file. See `gcloud topic gcloudignore` for details.
Uploading 1 file to Google Cloud Storage
100%
100%
File upload done.
WARNING: Node.js 16 is no longer supported by the Node.js community as of 11 September, 2023. Node.js 16 will be end of support on 2024-01-30. As of 2024-01-30 you will no longer be able to de
ploy your App Engine Standard using nodejs16. We recommend you to upgrade to the latest version of Node.js as soon as possible.

Updating service [default]...working..[] ✓
```

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Cloud Shell Editor Preview Use the Legacy Editor

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```
^C
dyaswanthkumar21@cloudshell:~/cloudshell_open/nodejs-docs-samples-6/appengine/hello-world/standard (sample-company-403503)$ gcloud app deploy -v ver1
Services to deploy:
descriptor: [/home/dyaswanthkumar21/cloudshell_open/nodejs-docs-samples-6/appengine/hello-world/standard/app.yaml]
source: [/home/dyaswanthkumar21/cloudshell_open/nodejs-docs-samples-6/appengine/hello-world/standard]
target project: [sample-company-403503]
target service: [default]
target version: [ver1]
target url: [https://sample-company-403503.de.r.appspot.com]
target service account: [sample-company-403503@appspot.gserviceaccount.com]

Do you want to continue (Y/n)? y

Beginning deployment of service [default]...
Created .gcloudignore file. See `gcloud topic gcloudignore` for details.
Uploading 1 file to Google Cloud Storage
100%
100%
File upload done.
WARNING: Node.js 16 is no longer supported by the Node.js community as of 11 September, 2023. Node.js 16 will be end of support on 2024-01-30. As of 2024-01-30 you will no longer be able to deploy your App Engine Standard using nodejs16. We recommend you to upgrade to the latest version of Node.js as soon as possible.

Updating service [default]...done.
Setting traffic split for service [default]...done.
Deployed service [default] to [https://sample-company-403503.de.r.appspot.com]

You can stream logs from the command line by running:
$ gcloud app logs tail -s default

To view your application in the web browser run:
$ gcloud app browse
dyaswanthkumar21@cloudshell:~/cloudshell_open/nodejs-docs-samples-6/appengine/hello-world/standard (sample-company-403503)$ gcloud app browse ✓
Did not detect your browser. Go to this link to view your app:
https://sample-company-403503.de.r.appspot.com ✓
dyaswanthkumar21@cloudshell:~/cloudshell_open/nodejs-docs-samples-6/appengine/hello-world/standard (sample-company-403503)$ 
```

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Hello, world! ✓



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console.cloud.google.com/appengine?serviceld=default&versionId=ver1&project=sample-company-403503

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App Engine Dashboard

Version ver1 (100%)

Chart settings Summary

1 hour 6 hours 12 hours 1 day 2 days 4 days 7 days 14 days 30 days

sample-company-403503.de.r.appspot.com Region: asia-east1

Summary ▾ No data is available for the selected time frame.

UTC+5:30 5:45 PM 5:50 PM 5:55 PM 6:00 PM 6:05 PM 6:10 PM 6:15 PM 6:20 PM 6:25 PM 6:30 PM 6:35 PM

Instance summary

Billing status

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- ✓ Keep your firewall rules strict and efficient

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SMTP port 25 disallowed in this project. [Learn more](#)

VPC networks

Filter Enter property name or value

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default	41	1460	Auto			4	Off

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VPC network VPC networks + CREATE VPC NETWORK REFRESH

VPC networks IP addresses Bring your own IP Firewall Routes VPC network peering Shared VPC Serverless VPC access Packet mirroring

NETWORKS IN CURRENT PROJECT SUBNETS IN CURRENT PROJECT

Get real-time analytics with Network Intelligence Center

Use Network Intelligence Center for comprehensive monitoring and troubleshooting. [Learn more](#)

- ✓ Visualize your network resources
- ✓ Diagnose and prevent connectivity issues
- ✓ View packet loss and latency metrics
- ✓ Keep your firewall rules strict and efficient

GO TO NETWORK INTELLIGENCE CENTER REMIND ME LATER

SMTP port 25 disallowed in this project. [Learn more](#)

VPC networks

Filter Enter property name or value

Name	Subnets	MTU	Mode	Internal IP ranges	Gateways	Firewall rules	Global dynamic routing
default	41	1460	Auto			4	Off
vpc1	1	1460	Custom			4	Off

Type here to search

Earnings upcoming

18:42 06-11-2023

Inbox (5,388) - dyaswanthk | Start Course | Intellipaat | Dashboard – App Engine | Cloud Shell | Compute Engine – GCP-A... | sample-company-403503... | + | - | X

console.cloud.google.com/compute/instancesAdd?project=gcp-assignments-402508

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Create an instance

To create a VM instance, select one of the options:

- New VM instance**
Create a single VM instance from scratch
- New VM instance from template**
Create a single VM instance from an existing template
- New VM instance from machine image**
Create a single VM instance from an existing machine image
- Marketplace**
Deploy a ready-to-go solution onto a VM instance

Network bandwidth ?

Enable per VM Tier_1 networking performance
Maximum outbound network bandwidth: 1Gbps
VM to Public IP: 1Gbps

Network interfaces ?

Network interface is permanent

Edit network interface

Network * vpc1 ✓
Subnetwork * subnet1 IPv4 (10.21.0.0/24) ✓

To use IPv6, you need an IPv6 subnet range. [LEARN MORE](#)

IP stack type
 IPv4 (single-stack)
 IPv4 and IPv6 (dual-stack)

Monthly estimate \$5.60
That's about \$0.01 hourly
Pay for what you use: no upfront costs and per second billing

Item	Monthly estimate
1 vCPU + 0.599609375 GB memory	\$6.57
10 GB balanced persistent disk	\$1.00
Use discount	-\$1.97
Total	\$5.60

[Compute Engine pricing](#) [LESS](#)

CREATE CANCEL EQUIVALENT CODE

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console.cloud.google.com/compute/instances?onCreate=true&project=gcp-assignments-402508

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Compute Engine VM instances CREATE INSTANCE IMPORT VM REFRESH

Virtual machines VM instances Instance templates Sole-tenant nodes Machine images TPUs Committed use discounts Reservations Migrate to Virtual Machin...

VM instances OBSERVABILITY INSTANCE SCHEDULES

VM instances Filter Enter property name or value Status Name ↑ Zone Recommendations In use by Internal IP External IP Connect

	instance-1	asia-east1-a	10.21.0.2 (nic0)	35.221.202.248 (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, analyze, 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 Set up Load Balancing for your applications as your traffic and users grow

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console.cloud.google.com/compute/instances?project=sample-company-403503

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Compute Engine LEARN

Virtual machines

- VM instances
- Instance templates
- Sole-tenant nodes
- Machine images
- TPUs
- Committed use discounts
- Reservations
- Migrate to Virtual Machin...

Storage

- Disks
- Snapshots
- Marketplace
- Release Notes

VM instances CREATE INSTANCE IMPORT VM REFRESH

INSTANCES OBSERVABILITY INSTANCE SCHEDULES

VM instances

Filter Enter property name or value

Status	Name ↑	Zone	Recommendations	In use by	Internal IP	External IP	Connect
<input type="checkbox"/>	instance-2	asia-east1-b			192.168.7.3 (nic0)	104.199.237.215 (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, analyze, 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 Set up Load Balancing for your applications as your traffic and users grow

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ssh.cloud.google.com/v2/ssh/projects/sample-company-403503/zones/asia-east1-b/instances/instance-2?authuser=0&hl=en_US&project... -

SSH-in-browser

Linux instance-2 5.10.0-26-cloud-amd64 #1 SMP Debian 5.10.197-1 (2023-09-29) x86_64

The programs included with the Debian GNU/Linux system are free software; the exact distribution terms for each program are described in the individual files in /usr/share/doc/*copyright.

Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent permitted by applicable law.

dyaswanthkumar21@instance-2:~\$ sudo apt-get update ✓

x sample-company-403503.de.rap +

start: stream... Handling Avro files... python - Adding a... » All Bookmarks

Search

LEARN

External IP Connect

c0) 104.199.237.215 (nic0) SSH :

▲ HIDE

Monitor VMs

outlier VMs across metrics like CPU network

Explore VM logs

View, search, analyze, and download VM instance logs

Load balance between VMs

Setup Load Balancing for your applications as your traffic and users grow

Release Notes

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ssh.cloud.google.com/v2/ssh/projects/sample-company-403503/zones/asia-east1-b/instances/instance-2?authuser=0&hl=en_US&project... -

SSH-in-browser

```
dyaswanthkumar21@instance-2:~$ sudo apt-get install apache2-utils ✓
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  libapr1 libaprutil1
The following NEW packages will be installed:
  apache2-utils libapr1 libaprutil1
0 upgraded, 3 newly installed, 0 to remove and 6 not upgraded.
Need to get 463 kB of archives.
After this operation, 1095 kB of additional disk space will be used.
Do you want to continue? [y/n] y
```

UPLOAD FILE DOWNLOAD FILE

x sample-company-403503.de.rap x +

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LEARN

External IP Connect

c0) 104.199.237.215 (nic0) SSH :

▲ HIDE

Monitor VMs

Explore VM logs

Load balance between VMs

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https://sample-company-403503.de.r.appspot.com

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All Bookmarks

Hello, world!

ssh.cloud.google.com/v2/ssh/projects/sample-company-403503/zones/asia-east1-b/instances/instance-2?authuser=0&hl=en_US&project...

SSH-in-browser

SSH-in-browser

UPLOAD FILE DOWNLOAD FILE

dyaswanthkumar21@instance-2:~\$ sudo apt-get install apache2-utils
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
libapr1 libaprutil1
The following NEW packages will be installed:
apache2-utils libapr1 libaprutil1
0 upgraded, 3 newly installed, 0 to remove and 6 not upgraded.
Need to get 463 kB of archives.
After this operation, 1095 kB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 https://deb.debian.org/debian bullseye/main amd64 libapr1 amd64 1.7.0-6+deb11u2 [106 kB]
Get:2 https://deb.debian.org/debian bullseye/main amd64 libaprutil1 amd64 1.6.1-5+deb11u1 [92.3 kB]
Get:3 https://deb.debian.org/debian bullseye/main amd64 apache2-utils amd64 2.4.56-1~deb11u2 [265 kB]
Fetched 463 kB in 0s (2979 kB/s)
Selecting previously unselected package libapr1:amd64.
(Reading database ... 58563 files and directories currently installed.)
Preparing to unpack .../libapr1_1.7.0-6+deb11u2_amd64.deb ...
Unpacking libapr1:amd64 (1.7.0-6+deb11u2) ...
Selecting previously unselected package libaprutil1:amd64.
Preparing to unpack .../libaprutil1_1.6.1-5+deb11u1_amd64.deb ...
Unpacking libaprutil1:amd64 (1.6.1-5+deb11u1) ...
Selecting previously unselected package apache2-utils.
Preparing to unpack .../apache2-utils_2.4.56-1~deb11u2_amd64.deb ...
Unpacking apache2-utils (2.4.56-1~deb11u2) ...
Setting up libapr1:amd64 (1.7.0-6+deb11u2) ...
Setting up libaprutil1:amd64 (1.6.1-5+deb11u1) ...
Setting up apache2-utils (2.4.56-1~deb11u2) ...
Processing triggers for man-db (2.9.4-2) ...
Processing triggers for libc-bin (2.31-13+deb11u7) ...
dyaswanthkumar21@instance-2:~\$ ab -n 5000 -c 1000 https://sample-company-403503.de.r.appspot.com/

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← → ⌂ ⌂ https://sample-company-403503.de.r.appspot.com

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Hello, world!

SSH-in-browser

UPLOAD FILE DOWNLOAD FILE ! ☰ ⚙

```
Get:1 https://deb.debian.org/debian bullseye/main amd64 libapr1 amd64 1.7.0-6+deb11u2 [106 kB]
Get:2 https://deb.debian.org/debian bullseye/main amd64 libaprutil1 amd64 1.6.1-5+deb11u1 [92.3 kB]
Get:3 https://deb.debian.org/debian bullseye/main amd64 apache2-utils amd64 2.4.56-1~deb11u2 [265 kB]
Fetched 463 kB in 0s (2979 kB/s)
Selecting previously unselected package libapr1:amd64.
(Reading database ... 58563 files and directories currently installed.)
Preparing to unpack .../libapr1_1.7.0-6+deb11u2_amd64.deb ...
Unpacking libapr1:amd64 (1.7.0-6+deb11u2) ...
Selecting previously unselected package libaprutil1:amd64.
Preparing to unpack .../libaprutil1_1.6.1-5+deb11u1_amd64.deb ...
Unpacking libaprutil1:amd64 (1.6.1-5+deb11u1) ...
Selecting previously unselected package apache2-utils.
Preparing to unpack .../apache2-utils_2.4.56-1~deb11u2_amd64.deb ...
Unpacking apache2-utils (2.4.56-1~deb11u2) ...
Setting up libapr1:amd64 (1.7.0-6+deb11u2) ...
Setting up libaprutil1:amd64 (1.6.1-5+deb11u1) ...
Setting up apache2-utils (2.4.56-1~deb11u2) ...
Processing triggers for man-db (2.9.4-2) ...
Processing triggers for libc-bin (2.31-13+deb11u7) ...
dyaswanthkumar21@instance-2:~$ ab -n 5000 -c 1000 https://sample-company-403503.de.r.appspot.com/
This is ApacheBench, Version 2.3 <$Revision: 1903618 $>
Copyright 1996 Adam Twiss, Zeus Technology Ltd, http://www.zeustech.net/
Licensed to The Apache Software Foundation, http://www.apache.org/

Benchmarking sample-company-403503.de.r.appspot.com (be patient)
Completed 500 requests
Completed 1000 requests
Completed 1500 requests
Completed 2000 requests
Completed 2500 requests
Completed 3000 requests
Completed 3500 requests
Completed 4000 requests
Completed 4500 requests
apr_pollset_poll: The timeout specified has expired (70007)
Total of 4995 requests completed
dyaswanthkumar21@instance-2:~$ ✓
```

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shell.cloud.google.com/?hl=en_US&fromcloudshell=true&show=terminal

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Cloud Shell Editor Preview Use the Legacy Editor

(sample-company-403503) +

```
dyaswanthkumar21@cloudshell:~/cloudshell_open/nodejs-docs-samples-6/appengine/hello-world/standard (sample-company-403503)$ dyaswanthkumar21@cloudshell:~/cloudshell_open/nodejs-docs-samples-6/appengine/hello-world/standard (sample-company-403503)$ gcloud app instances list
```

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shell.cloud.google.com/?hl=en_US&fromcloudshell=true&show=terminal

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Cloud Shell Editor Preview Use the Legacy Editor

(sample-company-403503) + X

```
VM_LIVENESS:  
DEBUG_MODE:  
  
SERVICE: default  
VERSION: ver1  
ID: 0037d6d5d3835c50d542a4afc013c258d61791fa99b1462943665d762b75276bb58b9446940f1052a069d86f510e1b30c2589b35feebe528d0c594ed2d7fa7  
VM_STATUS: N/A  
VM_LIVENESS: ✓  
DEBUG_MODE:  
  
SERVICE: default  
VERSION: ver1  
ID: 0037d6d5d38959c6379f5c45aa2358912b866bd5882685631daf93b60aa2a105a0f456b31effe0ca878a5b0b47d097b2fb0b79f2e3abb4b410c29f6e902e62  
VM_STATUS: N/A  
VM_LIVENESS: ✓  
DEBUG_MODE:  
  
SERVICE: default  
VERSION: ver1  
ID: 0037d6d5d3d099ca79c5cc5dcc4cb37b45e1eea058f40e72664cca60a63a1a7722bfe8d6033375a09138c1478ab5e453eeb64b9ac3f9495d9959e6b63ca5cc  
VM_STATUS: N/A  
VM_LIVENESS: ✓  
DEBUG_MODE:  
  
SERVICE: default  
VERSION: ver1  
ID: 0037d6d5d3e9d150d1ed9499bf244532ef738e7f435ecfd78a2ff8db5a2fd5f5a63193bbdb8647505d9a837ec85117ac8697966f4f4a5549999661c60f5b61  
VM_STATUS: N/A  
VM_LIVENESS: ✓  
DEBUG_MODE:  
  
SERVICE: default  
VERSION: ver1  
ID: 0037d6d5d3f0dfc2025520b252ade4bd23ccfef3db919bf68f6de6baf5c23ba5af88893f49a2a869eaec11e1d4f7155ef8c2f877056b0022986ccf904b8fc  
VM_STATUS: N/A  
VM_LIVENESS: ✓  
DEBUG_MODE:  
dyaswanthkumar21@cloudshell:~/cloudshell_open/nodejs-docs-samples-6/appengine/hello-world/standard (sample-company-403503)$
```

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console.cloud.google.com/appengine/versions?serviceId=default&project=sample-company-403503

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App Engine Versions REFRESH DELETE STOP START MIGRATE TRAFFIC SPLIT TRAFFIC LEARN

Dashboard Services Versions Instances Task queues Cron jobs Security scans Firewall rules Quotas Memcache Search Settings Release Notes

Filter versions

Version	Status	Traffic Allocation	Instances	Runtime	Environment	Size	Service Account	Deployed
ver1	Serving	100%	0	nodejs16	Standard	4.4 MB	sample-company-403503@appspot.gserviceaccount.com	Nov 6, 2023 dyaswar

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console.cloud.google.com/appengine/instances?serviceld=default&project=sample-company-403503&versionId=ver1

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App Engine Instances REFRESH DELETE

Dashboard Services Versions Instances Task queues Cron jobs Security scans Firewall rules Quotas Memcache Search Settings Release Notes

Instances

REFRESH DELETE

Client (4XX): 0 Total requests: 83.33/s

50/s

UTC+5:30 6:25 PM 6:30 PM 6:35 PM 6:40 PM 6:45 PM 6:50 PM 6:55 PM 7:00 PM 7:05 PM 7:10 PM 7:15 PM 7:20 PM 0

ID	QPS	Latency	Requests	Errors	Memory	Start Time	Availability
0037d6d5d316a2b77027520153842...	0	0 ms	231	0	60 MB	Nov 6, 2023, 7:17:03 PM	Dynamic
0037d6d5d326f607ba5435eb8cb8fa...	0	0 ms	721	0	61.6 MB	Nov 6, 2023, 7:17:02 PM	Dynamic
0037d6d5d34fe13634e803a5e5328...	0	0 ms	1030	0	61.7 MB	Nov 6, 2023, 7:17:01 PM	Dynamic
0037d6d5d3835c50d542a4afc013c...	0	0 ms	178	0	58.9 MB	Nov 6, 2023, 7:17:02 PM	Dynamic
0037d6d5d3d099ca79c5cc5dcc4cb...	0	0 ms	232	0	58.1 MB	Nov 6, 2023, 7:17:02 PM	Dynamic
0037d6d5d3e9d150d1ed9499bf244...	0	0 ms	211	0	58.7 MB	Nov 6, 2023, 7:17:02 PM	Dynamic
0037d6d5d3f0dfc2025520b252ade4...	0	0 ms	192	0	58.4 MB	Nov 6, 2023, 7:17:02 PM	Dynamic

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19:20 06-11-2023

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console.cloud.google.com/networking/peering/list?project=gcp-assignments-402508

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VPC network peering

VPC networks IP addresses Bring your own IP Firewall Routes VPC network peering ✓ Shared VPC Serverless VPC access Packet mirroring

VPC Network

VPC network peering

Cloud VPC Network Peering lets you privately connect two VPC networks, which can reduce latency, cost, and increase security. To get started click "Create connection". [Learn more](#)

CREATE CONNECTION

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console.cloud.google.com/networking/peering/add?project=gcp-assignments-402508

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VPC network Create peering connection

Your VPC network will be fully connected to the peered VPC network (full mesh topology). Routes to subnets in the peered VPC network will be automatically created.

Name * vpcpeering01 ✓ Lowercase letters, numbers, hyphens allowed

Your VPC network * vpc1 ✓

Peered VPC network

In project gcp-assignments-402508

In another project ✓

Project ID * sample-company-403503 ✓

VPC network name * vpc2 ✓

IPv4 (single-stack) ✓

IPv4 and IPv6 (dual-stack) ?

Exchange IPv4 custom routes ?

You can choose to import or export static and dynamic routes over the VPC peering connection

Import custom routes ?

Export custom routes ?

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console.cloud.google.com/networking/peering/list?project=gcp-assignments-402508

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VPC network VPC network peering + CREATE PEERING CONNECTION C REFRESH ⚡ DELETE

Filter Enter property name or value

	Name ↑	Your VPC network	Peered VPC network	Peered project ID	Status	IP stack type	Custom routes	Subnet routes with public IPv4
<input type="checkbox"/>	vpcpeering01	vpc1	vpc2	sample-company-403503	⚠ Inactive	IPv4	None	Export subnet routes with public IP

Successfully created peering connection "vpcpeering01".

VPC networks IP addresses Bring your own IP Firewall Routes VPC network peering Shared VPC Serverless VPC access Packet mirroring

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console.cloud.google.com/networking/peering/list?project=sample-company-403503

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VPC network peering

VPC networks IP addresses Bring your own IP Firewall Routes VPC network peering ✓ Shared VPC Serverless VPC access Packet mirroring

VPC Network

VPC network peering

Cloud VPC Network Peering lets you privately connect two VPC networks, which can reduce latency, cost, and increase security. To get started click "Create connection". [Learn more](#)

CREATE CONNECTION

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console.cloud.google.com/networking/peering/add?project=sample-company-403503

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Google Cloud Sample Company app engine Search

VPC network

Create peering connection

Your VPC network will be fully connected to the peered VPC network (full mesh topology). Routes to subnets in the peered VPC network will be automatically created.

Name * vpcpeering02 ✓

Lowercase letters, numbers, hyphens allowed

Your VPC network * vpc2 ✓

Peered VPC network

In project sample-company-403503

In another project ✓

Project ID * gcp-assignments-402508 ✓

VPC network name * vpc1 ✓

IPv4 (single-stack) ✓

IPv4 and IPv6 (dual-stack) ?

Exchange IPv4 custom routes ?

You can choose to import or export static and dynamic routes over the VPC peering connection

Import custom routes ?

Export custom routes ?

Type here to search

27°C Mostly cloudy ENG 19:33 06-11-2023

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console.cloud.google.com/networking/peering/list?project=sample-company-403503

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Google Cloud Sample Company app engine Search 12

VPC network peering + CREATE PEERING CONNECTION C REFRESH DELETE

Filter Enter property name or value

Name ↑	Your VPC network	Peered VPC network	Peered project ID	Status	IP stack type	Custom routes	Subnet routes with public IPv4
vpcpeering02	vpc2	vpc1	gcp-assignments-402508	Active	IPv4	None	Export subnet routes with public IP

Successfully created peering connection "vpcpeering02".

VPC networks IP addresses Bring your own IP Firewall Routes VPC network peering Shared VPC Serverless VPC access Packet mirroring

Type here to search 27°C Mostly cloudy 19:34 06-11-2023

Inbox (5,388) - dyaswanthk | Start Course | Intellipaat | VPC network peering - VP | VPC network peering - VP | Cloud Shell | sample-company-403503... | + | - | X

console.cloud.google.com/networking/peering/list?project=gcp-assignments-402508

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Google Cloud GCP-Assignments Search (/) for resources, docs, products, and more Search

VPC network peering + CREATE PEERING CONNECTION C REFRESH D DELETE

Filter Enter property name or value

Name ↑	Your VPC network	Peered VPC network	Peered project ID	Status	IP stack type	Custom routes	Subnet routes with public IPv4
vpcpeering01	vpc1	vpc2	sample-company-403503	Active	IPv4	None	Export subnet routes with public IP

Successfully created peering connection "vpcpeering01".

VPC networks IP addresses Bring your own IP Firewall Routes VPC network peering Shared VPC Serverless VPC access Packet mirroring

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Inbox (5,388) - dyaswanthk | Start Course | Intellipaat | VPC network peering – VP | VM instances – Compute E | Cloud Shell | sample-company-403503... | +

console.cloud.google.com/compute/instances?project=gcp-assignments-402508

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Compute Engine VM instances CREATE INSTANCE IMPORT VM REFRESH

Virtual machines VM instances Instance templates Sole-tenant nodes Machine images TPUs Committed use discounts Reservations Migrate to Virtual Machin...

VM instances OBSERVABILITY INSTANCE SCHEDULES

VM instances

Filter Enter property name or value

Status	Name ↑	Zone	Recommendations	In use by	Internal IP	External IP	Connect
<input type="checkbox"/>	instance-1	asia-east1-a			10.21.0.3 (nic0)	35.221.202.248 (nic0)	SSH

Related actions

Type here to search

27°C Mostly cloudy ENG 06-11-2023 19:36

A screenshot of the Google Cloud Platform (GCP) Compute Engine VM instances page. The URL in the browser is `console.cloud.google.com/compute/instances?project=gcp-assignments-402508`. A red box highlights the project dropdown menu 'GCP-Assignments'. A red circle highlights the 'SSH' button next to the external IP address for the instance 'instance-1'. The instance table shows one row: 'instance-1' in 'asia-east1-a' zone, with internal IP 10.21.0.3 and external IP 35.221.202.248. The 'Connect' column contains a dropdown menu with 'SSH' selected. The left sidebar shows navigation for Compute Engine, Storage, and other services like Gmail and YouTube.

Inbox (5,388) - dyaswanthk | Start Course | Intellipaat | VM instances - Compute Engine | VM instances - Compute Engine | Cloud Shell | sample-company-403503... | + | - | X

ssh.cloud.google.com/v2/ssh/projects/gcp-assignments-402508/zones/asia-east1-a/instances/instance-1?authuser=... | ssh.cloud.google.com/v2/ssh/projects/gcp-assignments-402508/zones/asia-east1-a/instances/instance-1?authuser=... | ssh.cloud.google.com/v2/ssh/projects/sample-company-403503/zones/asia-east1-b/instances/instance-2?authuser=... | ssh.cloud.google.com/v2/ssh/projects/sample-company-403503/zones/asia-east1-b/instances/instance-2?authuser=...

SSH-in-browser **UPLOAD FILE** **DOWNLOAD FILE** **CHAT** **FILE** **SETTINGS**

```
64 bytes from 192.168.7.3: icmp_seq=37 ttl=64 time=0.380 ms
64 bytes from 192.168.7.3: icmp_seq=38 ttl=64 time=0.349 ms
64 bytes from 192.168.7.3: icmp_seq=39 ttl=64 time=0.461 ms
64 bytes from 192.168.7.3: icmp_seq=40 ttl=64 time=0.497 ms
64 bytes from 192.168.7.3: icmp_seq=41 ttl=64 time=0.438 ms
64 bytes from 192.168.7.3: icmp_seq=42 ttl=64 time=0.421 ms
64 bytes from 192.168.7.3: icmp_seq=43 ttl=64 time=0.394 ms
64 bytes from 192.168.7.3: icmp_seq=44 ttl=64 time=0.320 ms
64 bytes from 192.168.7.3: icmp_seq=45 ttl=64 time=0.343 ms
64 bytes from 192.168.7.3: icmp_seq=46 ttl=64 time=0.349 ms
64 bytes from 192.168.7.3: icmp_seq=47 ttl=64 time=0.301 ms
64 bytes from 192.168.7.3: icmp_seq=48 ttl=64 time=0.387 ms
64 bytes from 192.168.7.3: icmp_seq=49 ttl=64 time=0.325 ms
64 bytes from 192.168.7.3: icmp_seq=50 ttl=64 time=0.362 ms
64 bytes from 192.168.7.3: icmp_seq=51 ttl=64 time=0.378 ms
64 bytes from 192.168.7.3: icmp_seq=52 ttl=64 time=0.319 ms
64 bytes from 192.168.7.3: icmp_seq=53 ttl=64 time=0.378 ms
64 bytes from 192.168.7.3: icmp_seq=54 ttl=64 time=0.384 ms
64 bytes from 192.168.7.3: icmp_seq=55 ttl=64 time=0.368 ms
64 bytes from 192.168.7.3: icmp_seq=56 ttl=64 time=0.354 ms
64 bytes from 192.168.7.3: icmp_seq=57 ttl=64 time=0.348 ms
64 bytes from 192.168.7.3: icmp_seq=58 ttl=64 time=0.339 ms
64 bytes from 192.168.7.3: icmp_seq=59 ttl=64 time=0.501 ms
64 bytes from 192.168.7.3: icmp_seq=60 ttl=64 time=0.433 ms
64 bytes from 192.168.7.3: icmp_seq=61 ttl=64 time=0.384 ms
64 bytes from 192.168.7.3: icmp_seq=62 ttl=64 time=0.368 ms
64 bytes from 192.168.7.3: icmp_seq=63 ttl=64 time=0.323 ms
64 bytes from 192.168.7.3: icmp_seq=64 ttl=64 time=0.502 ms
64 bytes from 192.168.7.3: icmp_seq=65 ttl=64 time=0.341 ms
64 bytes from 192.168.7.3: icmp_seq=66 ttl=64 time=0.341 ms
64 bytes from 192.168.7.3: icmp_seq=67 ttl=64 time=0.304 ms
64 bytes from 192.168.7.3: icmp_seq=68 ttl=64 time=0.407 ms
^C
--- 192.168.7.3 ping statistics ---
68 packets transmitted, 68 received, 0% packet loss, time 68571ms
rtt min/avg/max/mdev = 0.301/0.397/1.463/0.138 ms
dyaswanthkumar21@instance-1:~$ 
```

SSH-in-browser **UPLOAD FILE** **DOWNLOAD FILE** **CHAT** **FILE** **SETTINGS**

```
Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.
Last login: Mon Nov  6 14:20:45 2023 from 35.235.244.82
dyaswanthkumar21@instance-2:~$ ping 10.21.0.3
PING 10.21.0.3 (10.21.0.3) 56(84) bytes of data.
64 bytes from 10.21.0.3: icmp_seq=1 ttl=64 time=2.01 ms
64 bytes from 10.21.0.3: icmp_seq=2 ttl=64 time=0.387 ms
64 bytes from 10.21.0.3: icmp_seq=3 ttl=64 time=0.411 ms
64 bytes from 10.21.0.3: icmp_seq=4 ttl=64 time=0.316 ms
64 bytes from 10.21.0.3: icmp_seq=5 ttl=64 time=0.302 ms
64 bytes from 10.21.0.3: icmp_seq=6 ttl=64 time=0.347 ms
64 bytes from 10.21.0.3: icmp_seq=7 ttl=64 time=0.398 ms
64 bytes from 10.21.0.3: icmp_seq=8 ttl=64 time=0.296 ms
64 bytes from 10.21.0.3: icmp_seq=9 ttl=64 time=0.354 ms
64 bytes from 10.21.0.3: icmp_seq=10 ttl=64 time=0.358 ms
64 bytes from 10.21.0.3: icmp_seq=11 ttl=64 time=0.386 ms
64 bytes from 10.21.0.3: icmp_seq=12 ttl=64 time=0.371 ms
64 bytes from 10.21.0.3: icmp_seq=13 ttl=64 time=0.411 ms
64 bytes from 10.21.0.3: icmp_seq=14 ttl=64 time=0.336 ms
64 bytes from 10.21.0.3: icmp_seq=15 ttl=64 time=0.420 ms
64 bytes from 10.21.0.3: icmp_seq=16 ttl=64 time=0.382 ms
64 bytes from 10.21.0.3: icmp_seq=17 ttl=64 time=0.378 ms
64 bytes from 10.21.0.3: icmp_seq=18 ttl=64 time=0.527 ms
64 bytes from 10.21.0.3: icmp_seq=19 ttl=64 time=0.439 ms
64 bytes from 10.21.0.3: icmp_seq=20 ttl=64 time=0.485 ms
64 bytes from 10.21.0.3: icmp_seq=21 ttl=64 time=0.351 ms
64 bytes from 10.21.0.3: icmp_seq=22 ttl=64 time=0.305 ms
64 bytes from 10.21.0.3: icmp_seq=23 ttl=64 time=0.292 ms
64 bytes from 10.21.0.3: icmp_seq=24 ttl=64 time=0.400 ms
64 bytes from 10.21.0.3: icmp_seq=25 ttl=64 time=0.314 ms
64 bytes from 10.21.0.3: icmp_seq=26 ttl=64 time=0.370 ms
^C
--- 10.21.0.3 ping statistics ---
26 packets transmitted, 26 received, 0% packet loss, time 25571ms
rtt min/avg/max/mdev = 0.292/0.436/2.006/0.318 ms
dyaswanthkumar21@instance-2:~$ 
```

Type here to search |      

28°C Mostly cloudy |  ENG | 19:55 | 06-11-2023 | 

Inbox (5,388) - dyasw | Start Course | Intellip... | Instances – App Engi... | VM instances – Com... | Buckets – Cloud Sto... | Cloud Shell | sample-company-40... | +

console.cloud.google.com/storage/browser?referrer=search&project=sample-company-403503&prefix=&forceOnBucketsSortingFiltering=true

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Cloud Storage Buckets + CREATE REFRESH LEARN

Buckets Monitoring Settings

Review your Autoclass buckets

New changes are coming to Autoclass. Review your Autoclass buckets to ensure you're prepared.

LEARN MORE

Transfer New Power near real-time analytics and replication with event-driven transfers

You can now capture changes faster at your Google Cloud Storage and Amazon S3 sources via event-driven transfers, enabling you to act on your data in near real time. To get started, create a transfer job with a Pub/Sub- or AWS SQS-based stream configured to send event notifications when objects are created or updated.

CREATE TRANSFER JOB LEARN MORE

Filter Filter buckets

Name ↑	Created	Location type	Location	Default storage class	Last modified	Public access
asia.artifacts.sample-company-403503....	Oct 29, 2023, 10:45:59 AM	Multi-region	asia	Standard	Oct 29, 2023, 10:45:59 AM	Subject to object AC
sample-company-403503.appspot.com	Oct 29, 2023, 10:44:40 AM	Region	asia-east1	Standard	Oct 29, 2023, 10:44:40 AM	Subject to object AC
staging.sample-company-403503.appspot.com	Oct 29, 2023, 10:44:40 AM	Region	asia-east1	Standard	Oct 29, 2023, 10:44:40 AM	Subject to object AC

Marketplace Release Notes

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console.cloud.google.com/storage/create-bucket?project=sample-company-403503

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Cloud Storage Create a bucket

Buckets Monitoring Settings Marketplace Release Notes

Pick a globally unique, permanent name. [Naming guidelines](#)

buc1db ✓

Tip: Don't include any sensitive information

▼ LABELS (OPTIONAL)

CONTINUE

• Choose where to store your data

Location: us (multiple regions in United States)
Location type: Multi-region

• Choose a storage class for your data

Default storage class: Standard

• Choose how to control access to objects

Public access prevention: On
Access control: Uniform

• Choose how to protect object data

Protection tools: None
Data encryption: Google-managed

CREATE CANCEL

Location pricing

Storage rates vary depending on the storage class of your data and location of your bucket. [Pricing details](#)

Current configuration: Multi-region / Standard

Item	Cost
us (multiple regions in United States)	\$0.026 per GB-month
With default replication	\$0.020 per GB written

ESTIMATE YOUR MONTHLY COST

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console.cloud.google.com/storage/browser/buc1db;tab=objects?project=sample-company-403503&prefix=&forceOnObjectsSortingFiltering=false

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Cloud Storage Bucket details buc1db

Buckets Location Storage class Public access Protection
us (multiple regions in United States) Standard Not public None

OBJECTS CONFIGURATION PERMISSIONS PROTECTION LIFECYCLE OBSERVABILITY INVENTORY REPORTS

Buckets > buc1db

UPLOAD FILES UPLOAD FOLDER CREATE FOLDER TRANSFER DATA MANAGE HOLDS DOWNLOAD DELETE

Filter by name prefix only Filter objects and folders Show deleted data

Name	Size	Type	Created	Storage class	Last modified	Public access	Version history	Encryption	Retention expiration date	Holds
No rows to display										

Marketplace Release Notes

Created bucket buc1db

Type here to search

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console.cloud.google.com/storage/browser/buc1db;tab=objects?project=sample-company-403503&prefix=&forceOnObjectsSortingFiltering=false

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Cloud Storage Buckets buc1db

Location us (multiple regions in United States) Storage class Standard Public access Not public Protection None

OBJECTS CONFIGURATION PERMISSIONS PROTECTION LIFECYCLE OBSERVABILITY INVENTORY REPORTS

Buckets > buc1db

UPLOAD FILES UPLOAD FOLDER CREATE FOLDER TRANSFER DATA MANAGE HOLDS DOWNLOAD DELETE

Filter by name prefix only Filter objects and folders Show deleted data

Name	Size	Type	Created	Storage class	Last modified	Public access	Version history	Encryption
FL_insurance_sample.csv	3.9 MB	text/csv	Nov 6, 2023, 8:04:47 PM	Standard	Nov 6, 2023, 8:04:47 PM	Not public	-	Good

1 file successfully uploaded

Type here to search

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console.cloud.google.com/marketplace/product/google/datamigration.googleapis.com?project=sample-company-403503&returnUrl=%2F

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Google Cloud Sample Company ▾

Product details

Database Migration API

Google Enterprise API

Manage Cloud Database Migration Service resources on Google Cloud Platform.

ENABLE TRY THIS API ↗

OVERVIEW DOCUMENTATION RELATED PRODUCTS

Overview

Google Database Migration Service is a fully managed service for migrating databases to Google Cloud Platform. Database Migration Service allows you to migrate your databases to Google Cloud managed databases with minimal downtime, freeing you from operational considerations such as resource management and performance optimization.

Database Migration Service isn't yet in scope for any Compliance certifications or reports (unlike Cloud SQL, for example). But, we're working on bringing Database Migration Service into scope. For more information on Google Cloud's Compliance programs, see [Services in Scope ↗](#)

Additional details

Type: [SaaS & APIs](#)

Last product update: 4/30/22

Category: [Databases](#), [Storage](#), [Google Enterprise APIs](#)

Service name: datamigration.googleapis.com

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console.cloud.google.com/dbmigration/connection-profiles?project=sample-company-403503

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Database Migration Connection profiles + CREATE PROFILE DELETE PROFILE

Migration jobs

Conversion workspaces

Connection profiles

Private connectivity

Connection profiles represent all the info you need to connect to a data source. [Learn more](#)

Filter Filter connection profiles

<input type="checkbox"/> Display name	Activity ?	Database engine	Hostname/IP:Port	Created ↓
---------------------------------------	----------------------------	-----------------	------------------	---------------------------

No connection profiles

CREATE PROFILE

Type here to search

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console.cloud.google.com/dbmigration/connection-profiles/create?project=sample-company-403503

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Google Cloud Sample Company sql Search

Create a connection profile

Database engine * MySQL ✓

Connection profile name myconnprofile ✓

Must be less than 60 characters. 13/60

Connection profile ID * myconnprofile

Lowercase letters, numbers, or hyphens. It must be unique in this project and cannot be changed later. 13/60

Hostname or IP address * ver1 ✓

Port * 3306

Username * yaswanth ✓

Password * ••••••

Connection profile region

Region * asia-east1 (Taiwan) ✓

Permanent. For performance, keep your data close to services that need it.

Secure your connection

Choose an encryption type, and you'll see the SSL/TLS details needed. [Learn more](#)

Encryption type * None

CREATE CANCEL

Type here to search

Earnings upcoming 20:14 06-11-2023 ENG

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console.cloud.google.com/dbmigration/connection-profiles?project=sample-company-403503

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Google Cloud Sample Company ▾ sql Search

Connection profiles **+ CREATE PROFILE** **DELETE PROFILE**

Connection profiles represent all the info you need to connect to a data source. [Learn more](#)

Filter Filter connection profiles

<input type="checkbox"/> Display name	Activity ?	Database engine	Hostname/IP:Port	Created ↓
<input type="checkbox"/> myconnprofile	Inactive	MySQL	ver1:3306	Nov 6, 2023

Connection profile myconnprofile successfully created

Type here to search

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Inbox (5,388) - dyasw | Start Course | Intellip... | Dashboard – App Eng... | VM instances – Com... | Create a migration jo... | Cloud Shell | sample-company-40... | +

console.cloud.google.com/dbmigration/migrations/create?project=sample-company-403503

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Google Cloud Sample Company sql Search

Create a migration job

1 Get started Not configured

2 Define a source Not configured

3 Create a destination Not configured

4 Define connectivity method Not configured

5 Test and create migration job Not tested

SAVE & EXIT CANCEL

Describe your migration job

Provide some basic info about your migration job and review what you need to do to complete it successfully. Want to know which types of migrations are supported right now? [Learn more](#)

Migration job name * migration1 ✓

Must be less than 60 characters. 10/60

Migration job ID * migration1

Lowercase letters, numbers, or hyphens. It must be unique in this project and cannot be changed later. 10/60

Source database engine * MySQL ✓

Destination database engine Cloud SQL for MySQL

Destination region * asia-east1 (Taiwan) ? Permanent. For performance, keep your data close to services that need it.

Migration job type * Continuous ✓

Before you continue, review the prerequisites

Depending on your migration type, there are some steps you should take to make sure the job is successful. You can always test your migration job before starting it to make sure it's correctly set up.

Type here to search

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Inbox (5,388) - dyasw... | Start Course | Intellip... | Dashboard – App Eng... | VM instances – Compute Engine | Create a migration job | Cloud Shell | sample-company-40...

console.cloud.google.com/dbmigration/migrations/create?project=sample-company-403503

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All Bookmarks

Google Cloud Sample Company Search

Create a migration job

Get started migration1, MySQL to Cloud SQL for MySQL (Continuous)

Define a source Not configured

Create a destination Not configured

Define connectivity method Not configured

Test and create migration job Not tested

SAVE & EXIT CANCEL

Define your source

Your data source's connection profile represents all the info needed to connect. Choose a connection profile that already exists, or create a new one. [Learn more](#)

Source database engine MySQL

Select source connection profile * myconnprofile

Connection profile name myconnprofile
Connection profile ID myconnprofile
Region asia-east1 (Taiwan)
Hostname or IP address ver1
Port 3306
Username yaswanth
Encryption type (SSL/TLS) None

Customize data dump configurations

SHOW DATA DUMP CONFIGURATIONS

SAVE & CONTINUE

Type here to search

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console.cloud.google.com/dbmigration/migrations/create?project=sample-company-403503

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Google Cloud Sample Company ▾ sql Search

Create a migration job

Get started migration1, MySQL to Cloud SQL for MySQL (Continuous)

Define a source myconnprofile

Create a destination Not configured

Define connectivity method Not configured

Test and create migration job Not tested

Create a destination

A new destination instance will be created for your migration job. Provide some basic info for it, and configure as needed. [Learn more](#)

Destination database engine Cloud SQL for MySQL

Destination Instance ID * migration1

Use lowercase letters, numbers, and hyphens. Start with a letter. Note that the ID can't be changed later.

Password * •••••• GENERATE

Set a password for the default admin user "root". [Learn more](#)

Database version * Cloud SQL for MySQL 8.0

Can be at most one version above the source version

Choose a Cloud SQL edition

A Cloud SQL edition determines foundational characteristics of your instance and cannot be changed later. Choose based on your price and performance needs. [Learn more](#)

Enterprise Plus

- 99.99% availability SLA for eligible instances

Enterprise

- 99.95% availability SLA for eligible instances

Type here to search

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console.cloud.google.com/dbmigration/migrations/create?project=sample-company-403503

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Google Cloud Sample Company sql Search

Create a migration job

Get started
migration1, MySQL to Cloud SQL for MySQL (Continuous)

Define a source
myconnprofile

3 Create a destination
Not configured

4 Define connectivity method
Not configured

5 Test and create migration job
Not tested

Private IP
Requires additional APIs and permissions, which may require your system admins.
Can't be disabled once enabled. [Learn more](#)

RETRY

Public IP ✓
Authorize a network or use [Cloud SQL Proxy](#) to connect to this instance. [Learn more](#)

Authorized networks
[ADD A NETWORK](#)

Machine shapes
Choose one of the following shapes of Enterprise Plus machines. Make sure your selection has enough memory to hold your largest table.

2 vCPU, 16 GB
 4 vCPU, 32 GB ✓
 8 vCPU, 64 GB
 16 vCPU, 128 GB

[SHOW ALL](#)

Type here to search

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Inbox (5,388) - dyasw | Start Course | Intellip... | Dashboard – App Eng... | VM instances – Compute Engine | Create a migration job | Cloud Shell | sample-company-40 | +

console.cloud.google.com/dbmigration/migrations/create?project=sample-company-403503

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All Bookmarks

Google Cloud Sample Company sql Search

Create a migration job

Get started migration1, MySQL to Cloud SQL for MySQL (Continuous)

Define a source myconnprofile

Create a destination Not configured

Define connectivity method Not configured

Test and create migration job Not tested

Storage type
Choice is permanent. Storage type affects performance.

SSD (Recommended) ✓
Most popular choice. Lower latency than HDD with higher QPS and data throughput.

HDD
Lower performance than SSD with lower storage rates.

Storage capacity
10 - 65,536 GB. Higher capacity improves performance, up to the limits set by the machine type. Capacity can't be decreased later.

10 GB
 20 GB
 100 GB ✓
 250 GB
 Custom

Enable automatic storage increases
If enabled, whenever you are nearing capacity, storage will be incrementally (and permanently) increased. [Learn more](#)

SHOW OPTIONAL CONFIGURATIONS

CREATE & CONTINUE

Type here to search

27°C Mostly cloudy 20:21 06-11-2023

Inbox (5,388) - dyasw x | Start Course | Intellip... x | Dashboard – App Eng... x | VM instances – Com... x | Create a migration jo... x | Cloud Shell x | sample-company-40... x | +

console.cloud.google.com/dbmigration/migrations/create?project=sample-company-403503

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Google Cloud Sample Company ▾ sql Search

Create a migration job

Get started migration1, MySQL to Cloud SQL for MySQL (Continuous)

Define a source myconnprofile

Create a destination migration1 created

Define connectivity method Not configured

Test and create migration job Not tested

Define connectivity method

Choose the best connectivity method for your migration job based on your security and throughput requirements.

Not sure which connectivity method to choose? [Learn more](#)

Connectivity method * IP allowlist ✓

Configure your source to accept connections

IP allowlisting requires you to open your database and/or firewall to incoming connections from a Cloud SQL instance. Use your destination instance's outgoing IP address to do so. [Learn more](#)

Destination outgoing IP addresses

COPY ALL

34.81.20.190

35.221.175.250

SAVE & CONTINUE

Instance was created. Define the connectivity method, then Configure & Continue. X

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console.cloud.google.com/dbmigration/migrations?draftsTab=false&project=sample-company-403503

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Database Migration Migration jobs + CREATE MIGRATION JOB ▶ START ■ STOP ⚡ RESTART 🗑 DELETE

Migration jobs Conversion workspaces Connection profiles Private connectivity

Introducing integrated conversion and migration from Oracle to AlloyDB for PostgreSQL PREVIEW

Sign up to request access.

SIGN UP

Migration jobs allow you to move data between source and destination databases. You can define your source by creating a new job, or just its connection profile. [Learn more](#)

JOBS (1) DRAFTS (0)

Filter Status:

<input type="checkbox"/>	Migration job name	Status	Duration	Source connection profile	Destination ID	⋮
<input type="checkbox"/>	migration1	Not started	9 sec	myconnprofile	migration1	⋮

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Earnings upcoming

20:30 06-11-2023 ENG

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console.cloud.google.com/appengine/versions?serviceId=default&versionId=ver1&project=sample-company-403503

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Google Cloud Sample Company app engine Search

App Engine Versions REFRESH DELETE STOP START MIGRATE TRAFFIC SPLIT TRAFFIC LEARN

Dashboard Services Versions Instances Task queues Cron jobs Security scans Firewall rules Quotas Memcache Search Settings

Filter versions

Version	Status	Traffic Allocation	Instances	Runtime	Environment	Size	Service Account	Deployed
ver1	Serving	100%	0	nodejs16	Standard	4.4 MB	sample-company-403503@appspot.gserviceaccount.com	Nov 6, 2023 dyaswar

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shell.cloud.google.com/?hl=en_US&fromcloudshell=true&show=terminal

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Cloud Shell Editor Preview Use the Legacy Editor

Cloud Shell Editor

cloudshell X +

Welcome to Cloud Shell! Type "help" to get started.
To set your Cloud Platform project in this session use "gcloud config set project [PROJECT_ID]"
dyaswanthkumar21@cloudshell:~\$ cloudbuild_open --repo_url "https://github.com/GoogleCloudPlatform/nodejs-docs-samples" --page "editor" --force_new_clone
2023/11/06 15:12:06 Cloning https://github.com/GoogleCloudPlatform/nodejs-docs-samples into /home/dyaswanthkumar21/cloudshell_open/nodejs-docs-samples-7
Cloning into '/home/dyaswanthkumar21/cloudshell_open/nodejs-docs-samples-7'...
remote: Enumerating objects: 54070, done.
remote: Counting objects: 100% (2247/2247), done.
remote: Compressing objects: 100% (1085/1085), done.
remote: Total 54070 (delta 1433), reused 1814 (delta 1106), pack-reused 51823
Receiving objects: 100% (54070/54070), 77.43 MiB | 15.73 MiB/s, done.
Resolving deltas: 100% (36922/36922), done.
dyaswanthkumar21@cloudshell:~/cloudshell_open/nodejs-docs-samples-7\$ cd appengine/hello-world/standard
dyaswanthkumar21@cloudshell:~/cloudshell_open/nodejs-docs-samples-7/appengine/hello-world/standard\$ ls
app.js app.yaml package.json README.md test
dyaswanthkumar21@cloudshell:~/cloudshell_open/nodejs-docs-samples-7/appengine/hello-world/standard\$ nano app.js ✓

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shell.cloud.google.com/?hl=en_US&fromcloudshell=true&show=terminal

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Cloud Shell Editor Preview Use the Legacy Editor

Cloud Shell Editor

cloudshell X +

```
GNU nano 5.4                                         app.js *
```

```
// Copyright 2017 Google LLC
//
// Licensed under the Apache License, Version 2.0 (the "License");
// you may not use this file except in compliance with the License.
// You may obtain a copy of the License at
//
//     http://www.apache.org/licenses/LICENSE-2.0
//
// Unless required by applicable law or agreed to in writing, software
// distributed under the License is distributed on an "AS IS" BASIS,
// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
// See the License for the specific language governing permissions and
// limitations under the License.

'use strict';

// [START gae_node_request_example]
const express = require('express');

const app = express();

app.get('/', (req, res) => {
  res.status(200).send('Hello, world from intellipaat');
});

// Start the server
const PORT = parseInt(process.env.PORT) || 8080;
app.listen(PORT, () => {
  console.log(`App listening on port ${PORT}`);
  console.log('Press Ctrl+C to quit.');
});

^G Help          ^O Write Out      ^W Where Is      ^K Cut           ^T Execute        ^C Location       M-U Undo
^X Exit          ^R Read File      ^\ Replace       ^U Paste          ^J Justify        ^_ Go To Line    M-E Redo
                                         M-A Set Mark    M-J To Bracket  M-Q Previous   ^B Back
                                         M-G Copy        M-Q Where Was   M-W Next     ^F Forward
```

Type here to search

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shell.cloud.google.com/?hl=en_US&fromcloudshell=true&show=terminal

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Cloud Shell Editor Preview Use the Legacy Editor

(sample-company-403503) +

```
dyaswanthkumar21@cloudshell:~/cloudshell_open/nodejs-docs-samples-7/appengine/hello-world/standard$ nano app.js
dyaswanthkumar21@cloudshell:~/cloudshell_open/nodejs-docs-samples-7/appengine/hello-world/standard$ gcloud app deploy -v ver2
ERROR: (gcloud.app.deploy) The required property [project] is not currently set.
It can be set on a per-command basis by re-running your command with the [--project] flag.

You may set it for your current workspace by running:

$ gcloud config set project VALUE

or it can be set temporarily by the environment variable [CLOUDSDK_CORE_PROJECT]
dyaswanthkumar21@cloudshell:~/cloudshell_open/nodejs-docs-samples-7/appengine/hello-world/standard$ gcloud config set project sample-company-403503
Updated property [core/project].
dyaswanthkumar21@cloudshell:~/cloudshell_open/nodejs-docs-samples-7/appengine/hello-world/standard (sample-company-403503)$ gcloud app deploy -v ver2 ✓
Services to deploy:

descriptor: [/home/dyaswanthkumar21/cloudshell_open/nodejs-docs-samples-7/appengine/hello-world/standard/app.yaml]
source: [/home/dyaswanthkumar21/cloudshell_open/nodejs-docs-samples-7/appengine/hello-world/standard]
target project: [sample-company-403503]
target service: [default]
target version: [ver2]
target url: [https://sample-company-403503.de.r.appspot.com]
target service account: [sample-company-403503@appspot.gserviceaccount.com]

Do you want to continue (Y/n)? y

Beginning deployment of service [default]...
Created .gcloudignore file. See `gcloud topic gcloudignore` for details.
Uploading 0 files to Google Cloud Storage
100%
File upload done.
WARNING: Node.js 16 is no longer supported by the Node.js community as of 11 September, 2023. Node.js 16 will be end of support on 2024-01-30. As of 2024-01-30 you will no longer be able to deploy your App Engine Standard using nodejs16. We recommend you to upgrade to the latest version of Node.js as soon as possible.

Updating service [default]...working..[] ✓
```

Type here to search

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Inbox (5,388) | Start Course | Int... | Versions – App E... | VM instances – C... | Migration jobs – | Database Migrat... | Cloud Shell | sample-company | +

shell.cloud.google.com/?hl=en_US&fromcloudshell=true&show=terminal

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Cloud Shell Editor Preview Use the Legacy Editor

(sample-company-403503) +

```
descriptor: [/home/dyawanthkumar21/cloudshell_open/nodejs-docs-samples-7/appengine/hello-world/standard/app.yaml]
source: [/home/dyawanthkumar21/cloudshell_open/nodejs-docs-samples-7/appengine/hello-world/standard]
target project: [sample-company-403503]
target service: [default]
target version: [ver2]
target url: [https://sample-company-403503.de.r.appspot.com]
target service account: [sample-company-403503@appspot.gserviceaccount.com]

Do you want to continue (Y/n)? y

Beginning deployment of service [default]...
Created .gcloudignore file. See `gcloud topic gcloudignore` for details.
Uploading 0 files to Google Cloud Storage
100%
File upload done.
WARNING: Node.js 16 is no longer supported by the Node.js community as of 11 September, 2023. Node.js 16 will be end of support on 2024-01-30. As of 2024-01-30 you will no longer be able to deploy your App Engine Standard using nodejs16. We recommend you to upgrade to the latest version of Node.js as soon as possible.

Updating service [default]...working...WARNING: *** Improve build performance by generating and committing package-lock.json.

Updating service [default]...done.
Setting traffic split for service [default]...done.
Deployed service [default] to [https://sample-company-403503.de.r.appspot.com]

You can stream logs from the command line by running:
$ gcloud app logs tail -s default

To view your application in the web browser run:
$ gcloud app browse
dyawanthkumar21@cloudshell:~/cloudshell_open/nodejs-docs-samples-7/appengine/hello-world/standard (sample-company-403503)$ gcloud app browse ✓
Did not detect your browser. Go to this link to view your app:
https://sample-company-403503.de.r.appspot.com ✓
dyawanthkumar21@cloudshell:~/cloudshell_open/nodejs-docs-samples-7/appengine/hello-world/standard (sample-company-403503)$
```



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ENG
06-11-2023 20:47

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sample-company-403503.de.appspot.com

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Hello, world from intellipaat!

✓

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console.cloud.google.com/appengine/versions?serviceld=default&versionId=ver1&project=sample-company-403503

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App Engine Versions REFRESH DELETE STOP START MIGRATE TRAFFIC SPLIT TRAFFIC LEARN

Dashboard Services Versions Instances Task queues Cron jobs Security scans Firewall rules Quotas Memcache Search Settings

Filter versions

Version	Status	Traffic Allocation	Instances	Runtime	Environment	Size	Service Account	Deployed
ver2	Serving	<div style="width: 100%;">100%</div>	0	nodejs16	Standard	4.4 MB	sample-company-403503@appspot.gserviceaccount.com	Nov 6, 2023 dyaswar
ver1	Serving	<div style="width: 0%;">0%</div>	0	nodejs16	Standard	4.4 MB	sample-company-403503@appspot.gserviceaccount.com	Nov 6, 2023 dyaswar

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Inbox (5,388) | Start Course | Overview – Monit Google Cloud Migration jobs – Cloud Shell sample-company sample-company +

console.cloud.google.com/monitoring;duration=PT1H?referrer=search&project=sample-company-403503

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Google Cloud Sample Company stackdriver Search 3 ? :

Monitoring Metrics Scope 1 project Overview Dashboards Integrations Services Metrics explorer Metrics management Alerting Uptime checks Synthetic monitoring Groups Permissions Release Notes

CREATE SYNTHETIC MONITOR VIEW DOCUMENTATION

GET STARTED WITH MONITORING 20% complete

Complete these steps to better understand your system

Integrate with Google Cloud services
Monitor cloud resources with zero configuration

- Install an agent**
Collect additional system and application metrics
- Create a dashboard**
Visually analyze metrics important to you
- Create an uptime check**
Probe endpoints to determine what resources are available
- Create an alert**
Resolve problems quickly with timely notifications

Alerting

Respond to performance problems before they affect your customers by configuring alerting policies to notify you when events occur or particular system or custom metrics violate rules that you define. Use multiple conditions to define complex alerting rules.

Leverage built-in integrations to receive notifications via email, SMS, Slack, PagerDuty, and more.

CREATE ALERT POLICY Explore sample policies Manage using API

RECOMMENDED FOR YOU

Cloud Monitoring overview Help document Get an overview of Google Cloud tools for monitoring your services.

Quickstart: Get notified if your app stops responding Tutorial Get notified if an application doesn't respond to requests.

Quickstart: View and customize VM dashboards Tutorial Create customized dashboards for Compute Engine VM instances.

Quickstart: Collect metrics from an Apache web server with the Ops Agent Tutorial Use the Ops Agent to collect metrics from an Apache web server, and then view those metrics.

Use cases for Monitoring Help document

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Inbox (5,388) | Start Course | Int... | Monitoring - Sa... | VM instances - C... | Migration jobs - | Cloud Shell | sample-company | sample-company | +

console.cloud.google.com/monitoring/alerting/policies/create?project=sample-company-403503

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Google Cloud Sample Company stackdriver Search

Create alerting policy + ADD ALERT CONDITION - DELETE ALERT CONDITION MQL VIEW CODE

ALERT CONDITIONS

- New condition
- Configure trigger

ALERT DETAILS

- Notifications and name
- Review alert

Select a metric ?

SELECT A METRIC

Select a metric

Filter by resource or metric name

✓ Active

POPULAR RESOURCES

GAE Application 17 metrics >

VM Instance 36 metrics > ✓

ACTIVE RESOURCES

Audited Resource 2 metrics >

Cloud Build 2 metrics >

Cloud SQL Database 44 metrics >

ACTIVE METRIC CATEGORIES

Firewall 2 metrics >

Instance 23 metrics > ✓

Logs-based metrics 2 metrics >

Mirroring 3 metrics >

Vm_flow 6 metrics >

ACTIVE METRICS

PROVISIONED DISK SIZE compute.googleapis.com/instance/disk/provisioned_size

Received bytes compute.googleapis.com/instance/network/received_bytes

Received packets compute.googleapis.com/instance/network/received_packets

Reserved vCPUs compute.googleapis.com/instance/cpu/reserved_vcpus

Sent bytes compute.googleapis.com/instance/network/sent_bytes

Sent packets compute.googleapis.com/instance/network/sent_packets

Uptime 7 metrics > ✓

Uptime Total compute.googleapis.com/instance/uptime_total

Selection preview VM Instance > instance > Uptime

Cancel Apply

Type here to search

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Inbox (5,388) | Start Course | Overview - M | Notification c | VM instances | Migration job | Cloud Shell | sample-comp | sample-comp | + | console.cloud.google.com/monitoring/alerting/notifications?referrer=search&project=sample-company-403503

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Google Cloud Sample Company notification channels Search

Monitoring Metrics Scope 1 project > No Google Chat channels configured

Overview PagerDuty Services ADD NEW

Dashboards PagerDuty Sync BETA ADD NEW

Integrations No PagerDuty Sync channels configured

Services Slack ? ADD NEW

Metrics explorer No Slack channels configured

Metrics management Webhooks ADD NEW

Alerting No webhook channels configured

Uptime checks Email ADD NEW

Synthetic monitoring SMS ADD NEW

Groups No SMS channels configured

Permissions Pub/Sub ADD NEW

Release Notes No Pub/Sub channels configured

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Inbox (5,388) | Start Course | Monitoring - | Notification c | VM instances | Migration job | Cloud Shell | sample-comp | sample-comp | + | - | X

console.cloud.google.com/monitoring/alerting/policies/create?project=sample-company-403503

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Google Cloud Sample Company stackdriver Search

Create alerting policy + ADD ALERT CONDITION - DELETE ALERT CONDITION MQL VIEW CODE

ALERT CONDITIONS

- VM Instance - Uptime
- Configure trigger

ALERT DETAILS

- Notifications and name
- Review alert

Select a metric

VM INSTANCE - UPTIME

Add filters Optional

Selections made on the chart do not affect the alert policy [Learn more](#)

ADD A FILTER

Transform data

Within each time series

Rolling window *

Adjust the length of time a signal is calculated for. Example: Mean of CPU utilization for 5 minutes is above 80%

Rolling window function *

Function applied to the rolling window

Across time series

✓ 1 hour 6 hours 1 day 7 days 30 days Custom

VM Instance - Uptime

UTC+5:30 8:10 PM 8:20 PM 8:30 PM 8:40 PM 8:50 PM

Filter Enter property name or value

Metric Value

uptime

CREATE POLICY PROVIDE FEEDBACK CANCEL

Type here to search

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Inbox (5,388) | Start Course | Overview - M | Notification c | VM instances | Migration job | Cloud Shell | sample-comp | sample-comp | + | console.cloud.google.com/monitoring/alerting/notifications?referrer=search&project=sample-company-403503

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Google Cloud Sample Company notification channels Search

Monitoring Metrics Scope 1 project > No Google Chat channels configured

Overview PagerDuty Services ADD NEW

Dashboards No PagerDuty services configured

Integrations PagerDuty Sync BETA ADD NEW

Services No PagerDuty Sync channels configured

Metrics explorer Slack ? ADD NEW

Metrics management No Slack channels configured

Alerting Webhooks ADD NEW

Uptime checks No webhook channels configured

Synthetic monitoring Email ADD NEW

Groups Filter Filter email addresses ?

Email	Display Name
dyaswanthkumar21@gmail.com	Yaswanth Kumar

Permissions Release Notes ADD NEW

SMS 27°C Mostly cloudy ENG 20:55 06-11-2023

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Create alerting policy + ADD ALERT CONDITION - DELETE ALERT CONDITION

ALERT CONDITIONS

VM Instance - Uptime Configure trigger

ALERT DETAILS

Notifications and name Review alert

Configure notifications and finalize alert

Configure notifications Recommended

Use notification channel

Notification Channels Yaswanth Kumar

We recommend that you create multiple notification channels for redundancy purposes. Google has no control of many of the delivery systems after we have passed the notification to that system. Additionally, a single Google service supports Cloud Console Mobile App, PagerDuty, Webhooks, and Slack. If you use one of these notification channels, then use email, SMS, or Pub/Sub as the redundant channel.

[LEARN MORE](#)

Notify on incident closure

Incident autoclose duration * If data is absent, select a duration after which Incident will automatically close.

Policy user labels Recommended

[CREATE POLICY](#) [PROVIDE FEEDBACK](#) [CANCEL](#)

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Inbox (5,388) | Start Course | Monitoring - | Notification c | VM instances | Migration job | Cloud Shell | sample-comp | sample-comp | +

console.cloud.google.com/monitoring/alerting/policies/create?project=sample-company-403503

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Create alerting policy + ADD ALERT CONDITION - DELETE ALERT CONDITION

ALERT CONDITIONS

VM Instance - Uptime Configure trigger

ALERT DETAILS

Notifications and name Review alert

VM Instance - Uptime

Condition type: Threshold Triggers when: Any time series cross threshold Threshold position: Above threshold Threshold value: 1 Retest window: No retest

Filter Enter property name or value

Metric	Value
uptime	0.2

Alert Policy Name
alert5

Notification channels
Notify on incident open only.
Incidents with absent data will auto close after 7 days.

Channel type	Channel name
Email	Yaswanth Kumar

Documentation

CREATE POLICY PROVIDE FEEDBACK CANCEL



Inbox (5,388) | Start Course | Policy details | Notification c | VM instances | Migration job | Cloud Shell | sample-comp | sample-comp | +

console.cloud.google.com/monitoring/alerting/policies/15928477419258779378?project=sample-company-403503

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Monitoring Policy details ENABLED EDIT COPY DELETE JSON 1 hour 6 hours 1 day 1 week 1 month 6 weeks

Metrics Scope 1 project >

alert5

Conditions

Policy violates when ANY condition is met

VM Instance - Uptime

Condition type	Triggers when	Threshold position	Threshold value	Retest window
Threshold	Any time series cross threshold	Above threshold	1	No retest

Alert policy alert5 saved

Type here to search

Live 21:00 06-11-2023

Inbox (5,391) - dyasw | Start Course | IntelliJ | Uptime checks – Monit | VM instances – Com | Policy details – Monit | Cloud Shell | Apache2 Debian Def | +

console.cloud.google.com/monitoring/uptime?project=sample-company-403503

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Monitoring Uptime checks CREATE UPTIME CHECK + 1 RECOMMENDED ALERT LEARN

Metrics Scope 1 project Overview Dashboards Integrations Services Metrics explorer Metrics management Alerting Uptime checks Synthetic monitoring Groups Permissions Release Notes

Try the new Synthetic monitoring capability! NEW

Proactively monitor your application's critical user journeys by simulating user behavior. Detect and alert on failures, and receive detailed reports for debugging. [Learn more.](#)

CREATE SYNTHETIC MONITOR VIEW DOCUMENTATION

Display Name ↑	Asia Pacific	Europe	North America	South America	Policies
alert5	✓	✓	✓	✓	1

Type here to search 27°C Mostly cloudy ENG 21:55 06-11-2023

Recommended for you

Synthetic monitoring overview Help document Use synthetic monitors to test the availability, consistency, and performance of your services, applications, web pages, and APIs. You can get notified when a test fails by creating an alerting policy to monitor your test results.

Quickstart Tutorial Get notified if an application doesn't respond to requests.

Use cases for Monitoring Help document Explore use cases, best practices, and industry solutions.

All Monitoring documentation

ssh.cloud.google.com/v2/ssh/projects/sample-company-403503/zones/asia-east1-b/instances/instance-2?authuser=0&hl=en_US&project... -

SSH-in-browser

Linux instance-2 5.10.0-26-cloud-amd64 #1 SMP Debian 5.10.197-1 (2023-09-29) x86_64

The programs included with the Debian GNU/Linux system are free software; the exact distribution terms for each program are described in the individual files in /usr/share/doc/*copyright.

Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent permitted by applicable law.

Last login: Mon Nov 6 15:53:57 2023 from 35.235.244.82

```
dyaswanthkumar21@instance-2:~$ sudo systemctl status apache2
● apache2.service - The Apache HTTP Server
   Loaded: loaded (/lib/systemd/system/apache2.service; enabled; vendor preset: enabled)
   Active: active (running) since Mon 2023-11-06 16:14:07 UTC; 1min 5s ago
     Docs: https://httpd.apache.org/docs/2.4/
   Process: 469 ExecStart=/usr/sbin/apachectl start (code=exited, status=0/SUCCESS)
 Main PID: 520 (apache2)
    Tasks: 55 (limit: 660)
   Memory: 13.1M
      CPU: 52ms
     CGroup: /system.slice/apache2.service
             └─520 /usr/sbin/apache2 -k start
                 ├─525 /usr/sbin/apache2 -k start
                 └─526 /usr/sbin/apache2 -k start

Nov 06 16:14:07 instance-2 systemd[1]: Starting The Apache HTTP Server...
Nov 06 16:14:07 instance-2 systemd[1]: Started The Apache HTTP Server.
dyaswanthkumar21@instance-2:~$ sudo service apache2 start
dyaswanthkumar21@instance-2:~$ sudo service apache2 stop
dyaswanthkumar21@instance-2:~$
```

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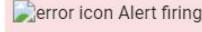
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[ALERT] Failure of uptime check_id alert5-Choeqc_5Jhg on sample-company-403503 instance-2

Google Cloud Alerting <alerting-noreply@google.com> to me 9:57 PM (0 minutes ago)

Google Cloud VIEW INCIDENT

 Alert firing

Failure of uptime check_id alert5-Choeqc_5Jhg ✓

An uptime check on sample-company-403503 instance-2 is failing.

Summary

Start time
Nov 6, 2023 at 4:27PM UTC (less than 1 sec ago)

Project