

Activities Firefox Web Browser Thu 13:03

Compute Engine - Training - Google Cloud Platform - Mozilla Firefox

https://console.cloud.google.com/compute/instanceTemplates/add?project=pe-training#

Google Cloud Platform Training

### Compute Engine Create an instance template

Describe a VM instance once and then use that template to create groups of identical instances [Learn more](#)

**Name**

**Machine type**  
Customize to select cores, memory and GPUs.  
 1.7 GB memory [Customize](#)

**Container**  
☐ Deploy a container image to this VM instance. [Learn more](#)

**Boot disk**  
 New 10 GB standard persistent disk  
Image: Ubuntu 16.04 LTS [Change](#)

**Identity and API access**  
**Service account**  
  
**Access scopes**  
☒ Allow default access  
☐ Allow full access to all Cloud APIs  
☐ Set access for each API

These are estimated costs for a VM instance created using this template:  
**\$14.20 monthly estimate**  
That's about \$0.019 hourly  
Pay for what you use: No upfront costs and per second billing  
Show costs for location  [Details](#)

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### Compute Engine Create an instance template

**Startup script (Optional)**  
You can choose to specify a startup script that will run when your instance boots up or restarts. Startup scripts can be used to install software and updates, and to ensure that services are running within the virtual machine. [Learn more](#)

```
#!/bin/bash
sudo apt-get update -y
sudo apt install -y apache2
service apache2 start
```

**Metadata (Optional)**  
You can set custom metadata for an instance or project outside of the server-defined metadata. This is useful for passing in arbitrary values to your project or instance that can be queried by your code on the instance. [Learn more](#)

Key	Value

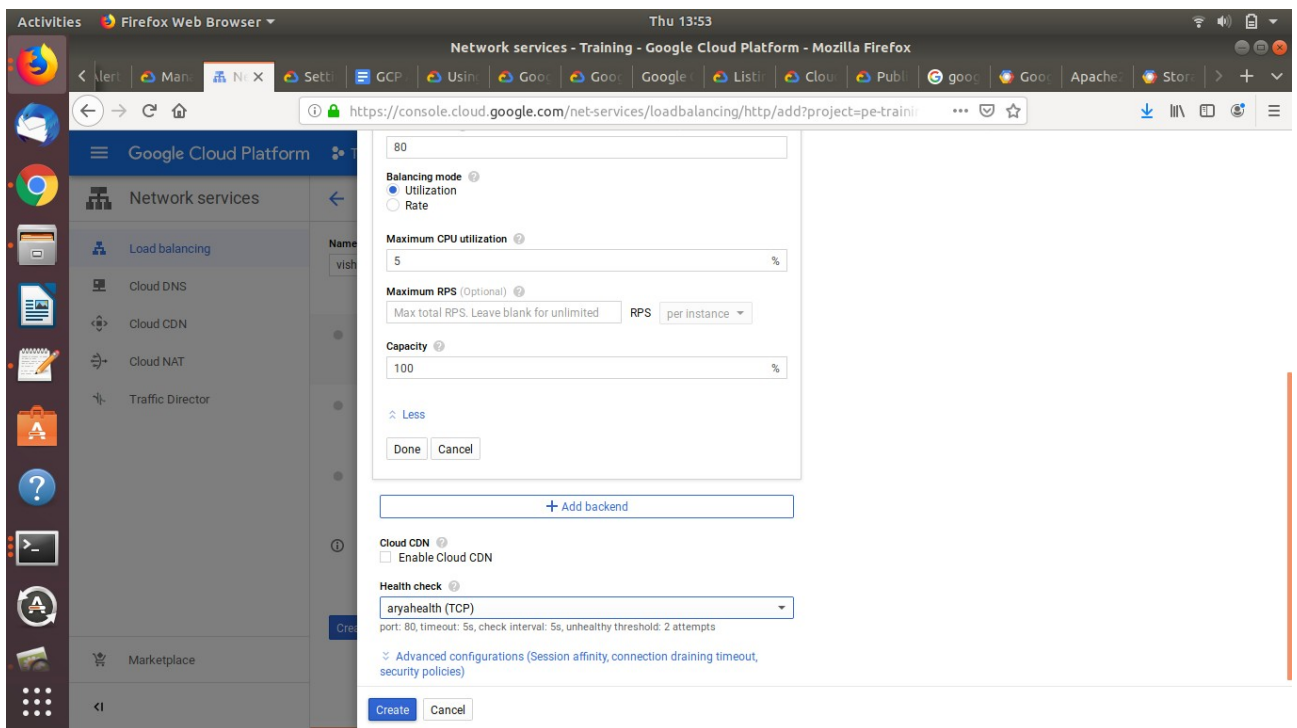
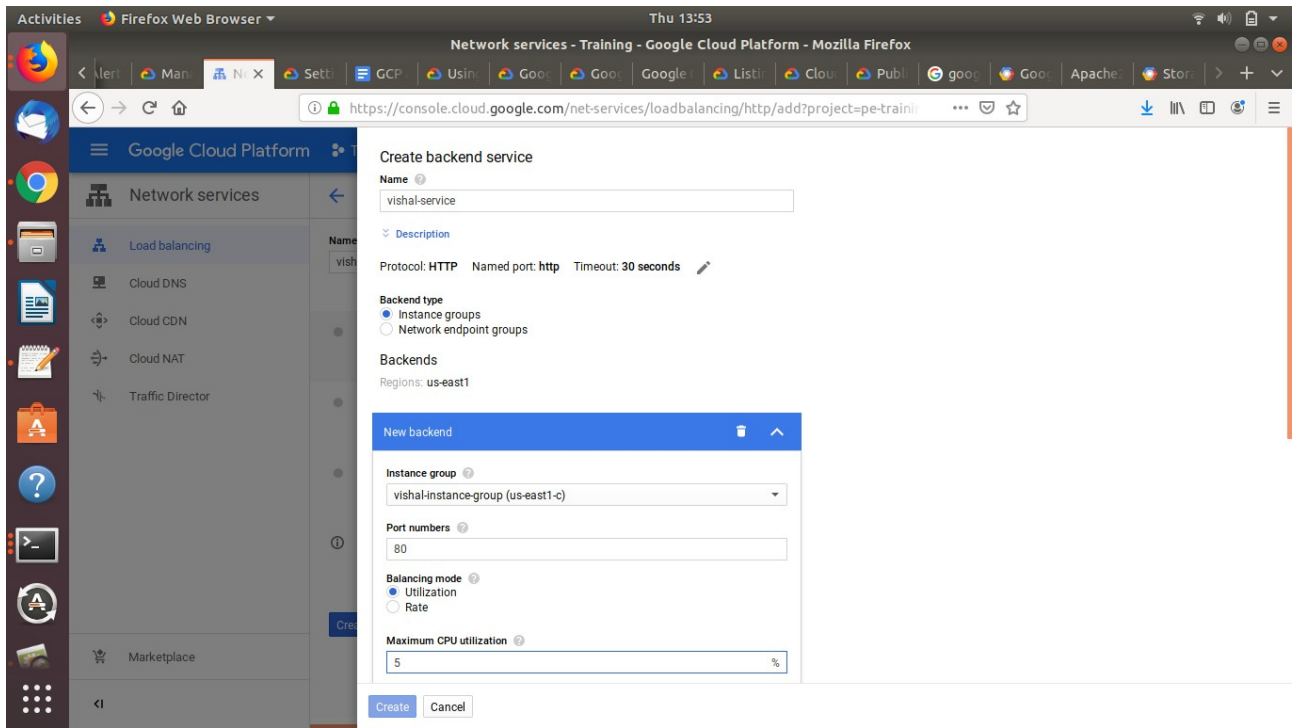
[+ Add item](#)

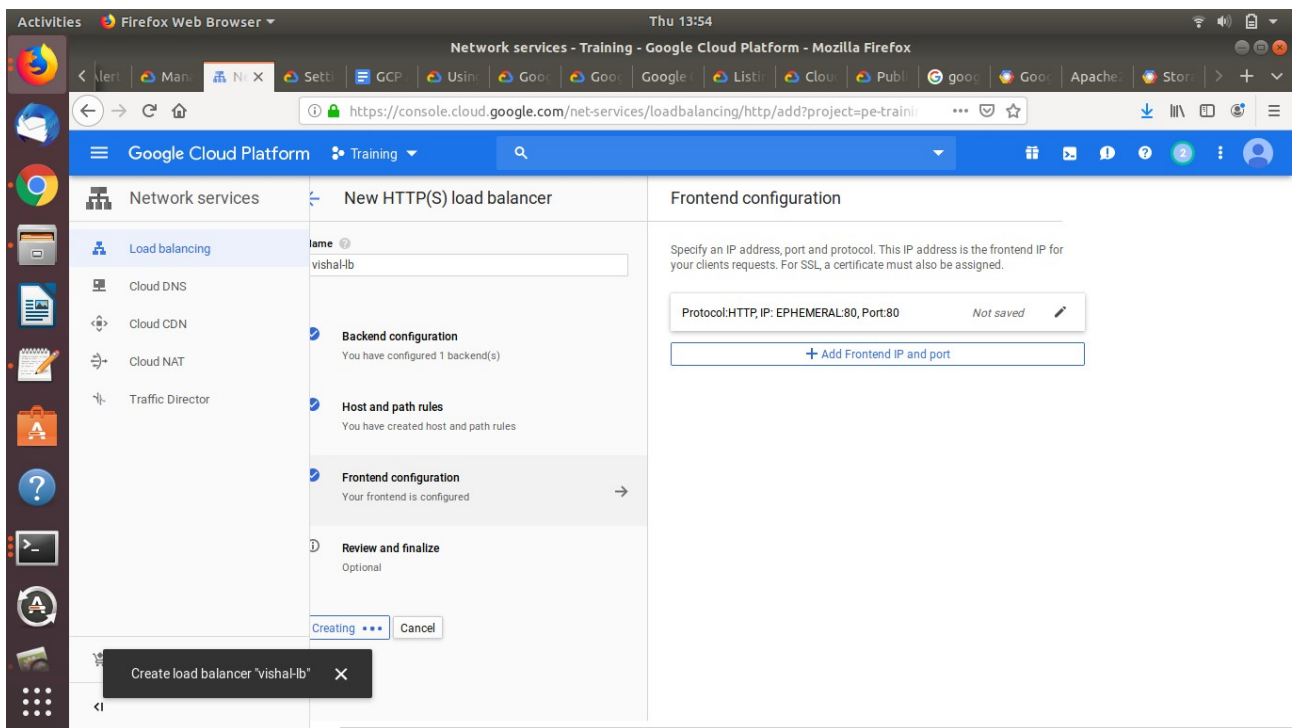
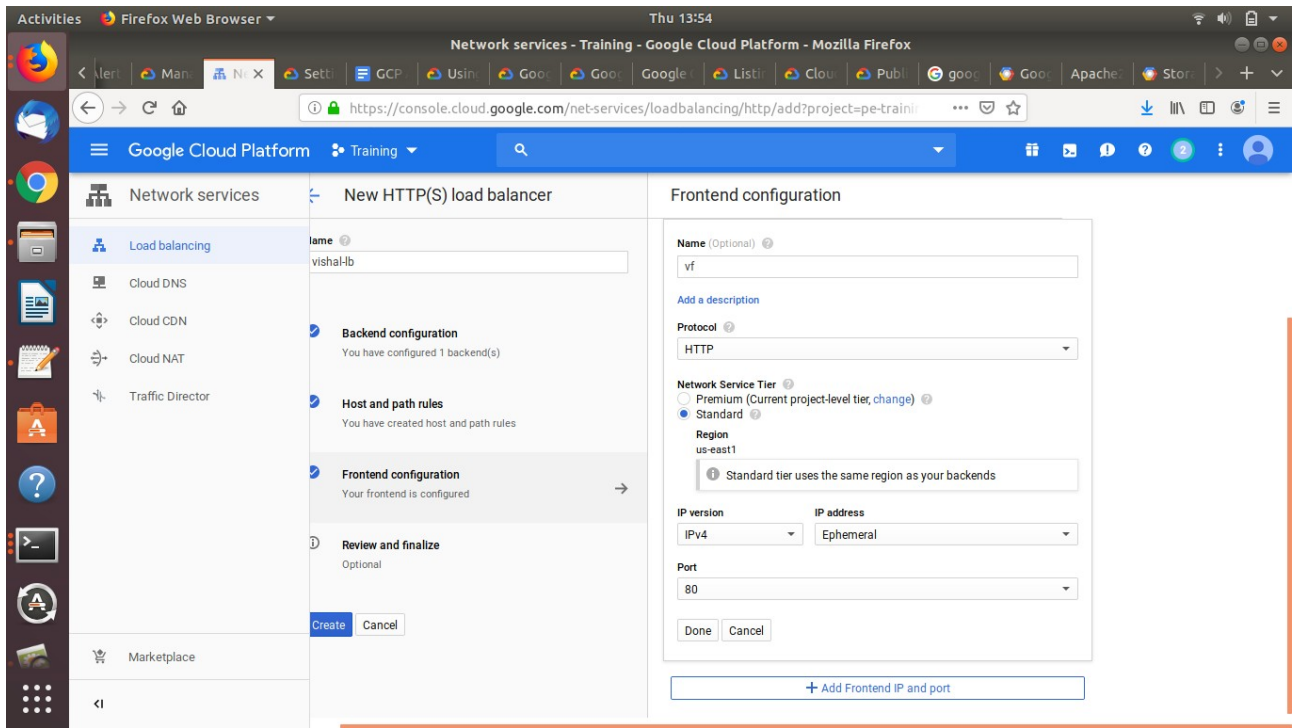
**Availability policy**  
**Preemptibility**  
A preemptible VM costs much less, but lasts only 24 hours. It can be terminated sooner due to system demands. [Learn more](#)

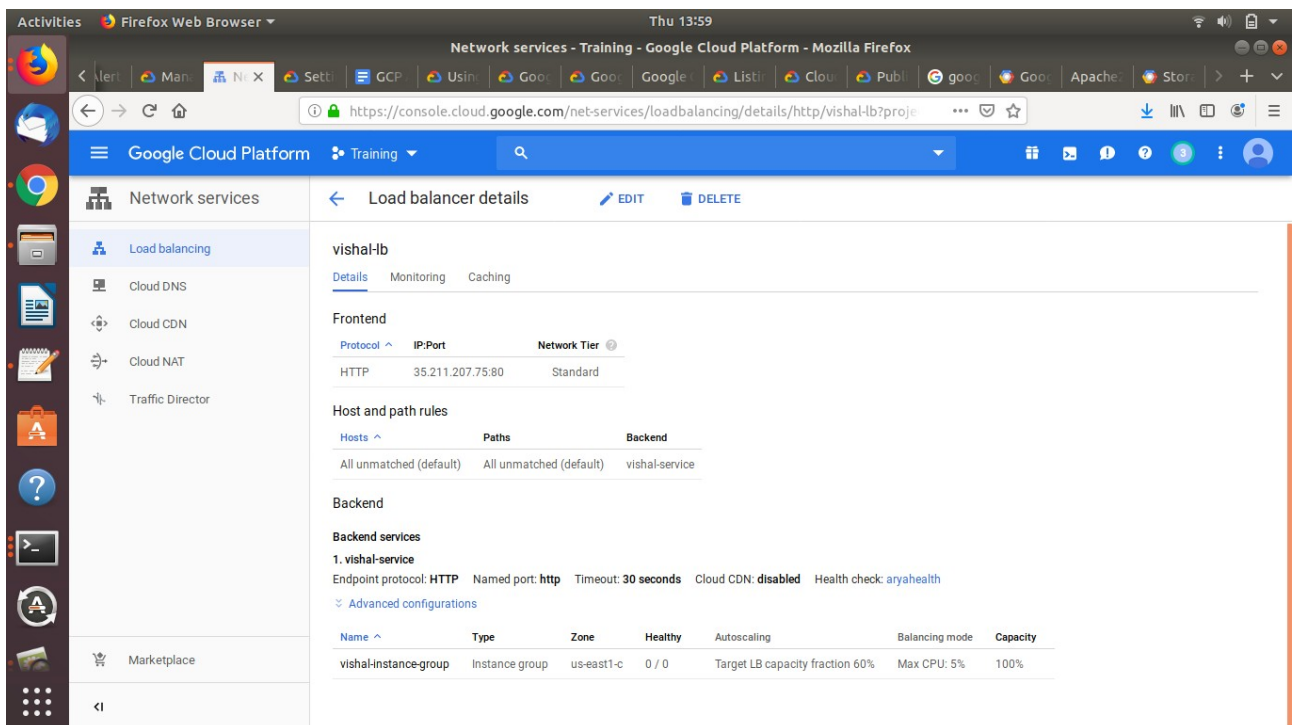
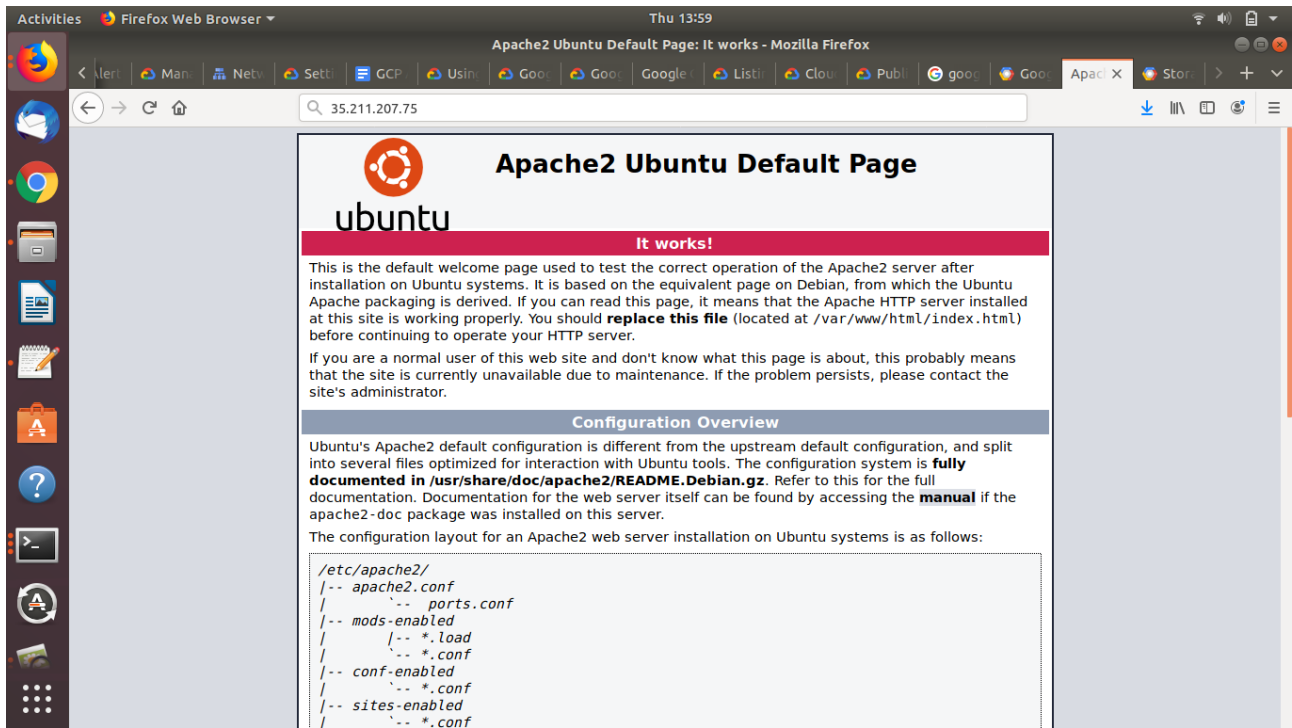
**On host maintenance**  
When Compute Engine performs periodic infrastructure maintenance it can migrate your VM instances to other hardware without downtime

```
Activities Terminal Thu 13:37 vishal@Quantiphi-747: ~  
File Edit View Search Terminal Help  
vishal@Quantiphi-747:~$ gcloud compute instance-groups managed create vishal-instance-group --template vishal-instance-template --size 2  
ERROR: (gcloud.compute.instance-groups.managed.create) argument --template: expected one argument  
Usage: gcloud compute instance-groups managed create NAME --size=SIZE --template=TEMPLATE [optional flags]  
optional flags may be --base-instance-name | --description | --health-check |  
--help | --http-health-check | --https-health-check |  
--initial-delay | --region | --target-pool | --zone |  
--zones  
For detailed information on this command and its flags, run:  
gcloud compute instance-groups managed create --help  
vishal@Quantiphi-747:~$ gcloud compute instance-groups managed create vishal-instance-group --template vishal-instance-template --size 2  
Created [https://www.googleapis.com/compute/v1/projects/pe-training/zones/us-east1-c/instanceGroupManagers/vishal-instance-group].  
NAME LOCATION SCOPE BASE_INSTANCE_NAME SIZE TARGET_SIZE INSTANCE_TEMPLATE AUTOSCALED  
vishal-instance-group us-east1-c zone vishal-instance-group 0 2 vishal-instance-template no  
vishal@Quantiphi-747:~$
```

```
Activities Terminal Thu 13:50 vishal@Quantiphi-747: ~  
File Edit View Search Terminal Help  
Usage: gcloud compute instance-groups managed create NAME --size=SIZE --template=TEMPLATE [optional flags]  
optional flags may be --base-instance-name | --description | --health-check |  
--help | --http-health-check | --https-health-check |  
--initial-delay | --region | --target-pool | --zone |  
--zones  
For detailed information on this command and its flags, run:  
gcloud compute instance-groups managed create --help  
vishal@Quantiphi-747:~$ gcloud compute instance-groups managed create vishal-instance-group --template vishal-instance-template --size 2  
Created [https://www.googleapis.com/compute/v1/projects/pe-training/zones/us-east1-c/instanceGroupManagers/vishal-instance-group].  
NAME LOCATION SCOPE BASE_INSTANCE_NAME SIZE TARGET_SIZE INSTANCE_TEMPLATE AUTOSCALED  
vishal-instance-group us-east1-c zone vishal-instance-group 0 2 vishal-instance-template no  
vishal@Quantiphi-747:~$ gcloud compute instance-groups managed set-autoscaling vishal-instance-group --max-num-replicas 3 --target-load-balanc  
ing-utilisation 0.6  
ERROR: (gcloud.compute.instance-groups.managed.set-autoscaling) unrecognized arguments:  
--target-load-balancing-utilisation (did you mean '--target-load-balancing-utilization'?)  
0.6  
To search the help text of gcloud commands, run:  
gcloud help -- SEARCH_TERMS  
vishal@Quantiphi-747:~$ gcloud compute instance-groups managed set-autoscaling vishal-instance-group --max-num-replicas 3 --target-load-balanc  
ing-utilization 0.6  
Created [https://www.googleapis.com/compute/v1/projects/pe-training/zones/us-east1-c/autoscalers/vishal-instance-group-bl2v].  
---  
autoscalingPolicy:  
  coolDownPeriodSec: 60  
  loadBalancingUtilization:  
    utilizationTarget: 0.6  
  maxNumReplicas: 3  
  minNumReplicas: 2  
creationTimestamp: '2019-06-20T01:20:42.196-07:00'  
id: '6750482564704042806'  
kind: compute#autoscaler  
name: vishal-instance-group-bl2v  
selfLink: https://www.googleapis.com/compute/v1/projects/pe-training/zones/us-east1-c/autoscalers/vishal-instance-group-bl2v  
status: ACTIVE  
target: https://www.googleapis.com/compute/v1/projects/pe-training/zones/us-east1-c/instanceGroupManagers/vishal-instance-group  
zone: https://www.googleapis.com/compute/v1/projects/pe-training/zones/us-east1-c  
vishal@Quantiphi-747:~$
```









Activities Firefox Web Browser Thu 14:11

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https://console.cloud.google.com/compute/instancesDetail/zones/us-east1-c/instances/v

Google Cloud Platform Training

Compute Engine VM instance details EDIT RESET CREATE SIMILAR STOP DELETE

VM Instances

- Instance groups
- Instance templates
- Sole tenant nodes
- Disks
- Snapshots
- Images
- TPUs
- Committed use discounts
- Metadata
- Health checks
- Marketplace

**vishal-instance-group-40lr**

Details Monitoring

Remote access

SSH Connect to serial console

Enable connecting to serial ports

Logs

Stackdriver Logging

Serial port 1 (console)

More

Instance template

vishal-instance-template

Instance id

11144488859109750

Machine type

g1-small (1 vCPU, 1.7 GB memory)

In use by

vishal-instance-group

CPU platform

Intel Haswell

Display device

Turn on a display device if you want to use screen capturing and recording tools.

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CPU platform

Intel Haswell

Display device

Turn on a display device if you want to use screen capturing and recording tools.

Turn on display device

Zone

us-east1-c

Labels

None

Creation time

Jun 20, 2019, 1:06:58 PM

Network interfaces

Name	Network	Subnetwork	Primary internal IP	Alias IP ranges	External IP	Network Tier	IP forwarding	Network details
nic0	default	default	10.142.15.217	—	35.229.89.251 (ephemeral)	Premium	Off	<a href="#">View details</a>

Public DNS PTR Record

None

Firewalls

Allow HTTP traffic

Allow HTTPS traffic

Network tags

http-server

