

TASK 1

- gcp-ui (complete Lab: [google codelabs: VM creation](#))
- gcloud
- terraform (all settings should be provided via variables (tfvars), add URL (“[http://IP.Address/](#)” to output)

<input type="checkbox"/> Name ^	Zone	Recommendation	In use by	Internal IP	External IP	Connect
<input type="checkbox"/> nginx-gcloud	us-central1-c			10.128.0.6 (nic0)	None	SSH ▾ ⋮
<input type="checkbox"/> nginx-gcp-ui	us-central1-c			10.128.0.5 (nic0)	35.226.141.112 ↗	SSH ▾ ⋮
<input type="checkbox"/> nginx-terraform	us-central1-c			10.128.0.15 (nic0)	35.223.108.73 ↗	SSH ▾ ⋮

1.)

Network interfaces

Name	Network	Subnetwork	Primary internal IP	Alias IP ranges	External IP	Network Tier ?	IP forwarding	Network details
nic0	default	default	10.128.0.6	—	Ephemeral	Premium	Off	View details

Public DNS PTR Record
None

Firewalls
☒ Allow HTTP traffic
☒ Allow HTTPS traffic

Network tags
http-server, https-server

Deletion protection
☒ Enable deletion protection
When deletion protection is enabled, instance cannot be deleted. [Learn more](#)

Boot disk

Name	Image	Size (GB)	Device name	Type	Encrypti
nginx-gcloud	centos-7-v20200205	35	nginx-gcloud	SSD persistent disk	Google

Additional disks
None

Local disks
None

Shielded VM ?
Select a shielded image to use shielded VM features.
Turn on all settings for the most secure configuration.

☐ Turn on Secure Boot ?
☐ Turn on vTPM ?
☐ Turn on Integrity Monitoring ?

Availability policies

Preemptibility	Off (recommended)
On host maintenance	Migrate VM instance (recommended)
Automatic restart	On (recommended)

Custom metadata

startup-script	sudo yum update -y sudo yum install nginx -y sudo systemctl restart nginx
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2.)

```
[student@localhost ~]$ gcloud beta compute --project=strange-bloom-268208 instances create nginx-gcloud2 --zone=us-central1-c --machine-type=custom-1-4608 --subnet=default --metadata=startup-script=sudo\ yum\ update\ -y'\n'sudo\ yum\ install\ nginx\ -y'\n'sudo\ systemctl\ restart\ nginx --tags=http-server,https-server --image=centos-7-v20200205 --image-project=centos-cloud --boot-disk-size=35GB --boot-disk-type=pd-ssd --boot-disk-device-name=nginx-gcloud --labels=servertype=nginxserver,osfamily=redhat,wayofinstallation=gcloud --reservation-affinity=any --deletion-protection
Created [https://www.googleapis.com/compute/beta/projects/strange-bloom-268208/zones/us-central1-c/instances/nginx-gcloud2].
WARNING: Some requests generated warnings:
- Disk size: '35 GB' is larger than image size: '10 GB'. You might need to resize the root partition manually if the operating system does not support automatic resizing. See https://cloud.google.com/compute/docs/disks/add-persistent-disk#resize_pd for details.
```

NAME	ZONE	MACHINE_TYPE	PREEMPTIBLE	INTERNAL_IP	EXTERNAL_IP
nginx-gcloud2	us-central1-c	custom (1 vCPU, 4.50 GiB)		10.128.0.17	107.178.214.207

```
07 RUNNING
[student@localhost ~]$ █
```

3.) Terraform files is attached

TASK 2

Create Persistent Disk and attach it to one of existing Virtual machine (nginx-gcp-ui).

✔ nginx-gcp-ui-disk2

Type
Standard persistent disk

Size ?
200 GB

Zone
us-central1-c

Labels
None

In use by
[nginx-gcp-ui](#)

Snapshot schedule
None

Estimated performance

Operation type	Read	Write
Sustained random IOPS limit	150.00	300.00
Sustained throughput limit (MB/s)	24.00	24.00

Physical block size
4 KB

Encryption type
Google managed

Equivalent [REST](#)

1)

2) Create terraform configuration to do the same via terraform (use VM: nginx-gcp-terraform).

Boot disk				
Name	Image	Size (GB)	Device name	Type
nginx-terraform	centos-7-v20200205	35	persistent-disk-0	SSD persistent disk

Additional disks				
Name	Image	Size (GB)	Device name	Type
nginx-terraform-disk	-	200	persistent-disk-1	Standard persistent disk

(Terraform files also is attached)