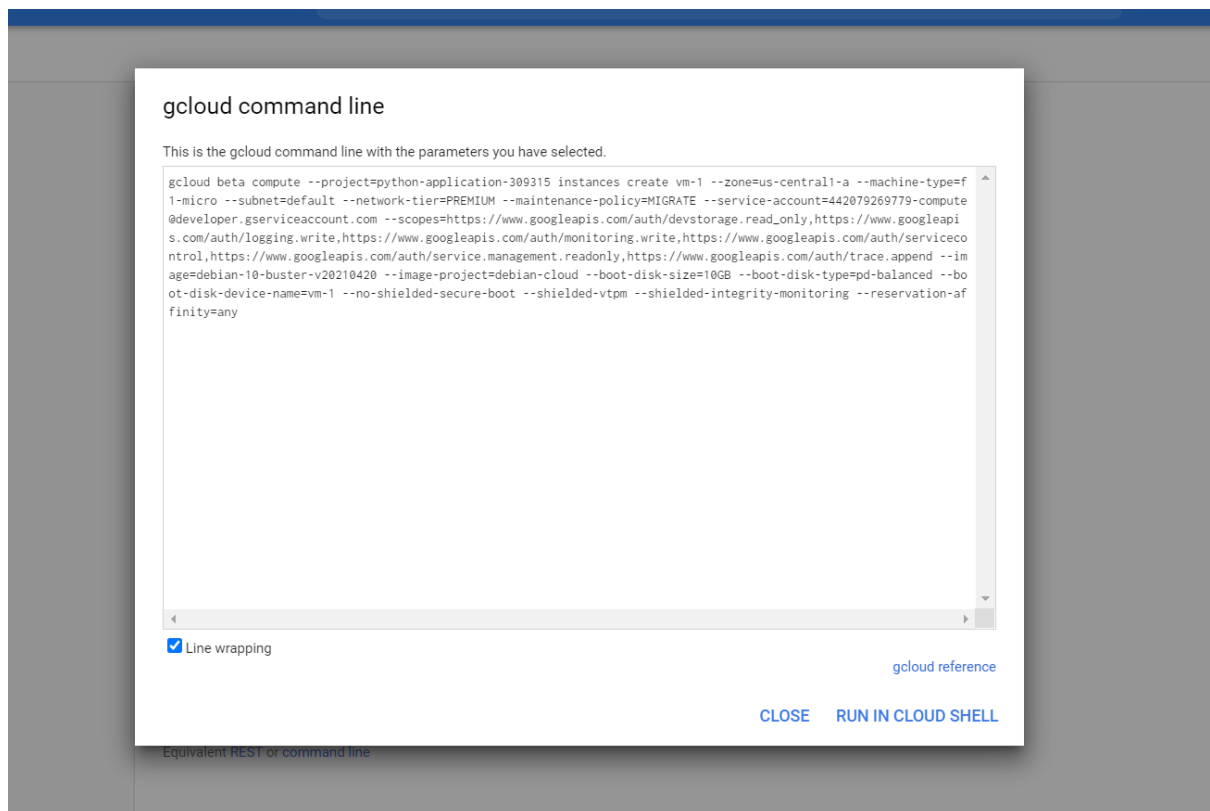Yogeshwaran s

Case study 9

Module 9: Google Cloud Platform APIs & Development Services

Step 1:

she must find the commend to create vm which is from comment line on creation of vm

Step 2:

She must copy the line to a note pad and remove the project id so that she can use this script for a create all instances and any project

Step 3:

Add commend to add another vm with same settings

Step 4:

She then creates a firewall rule to all http

Step 5:

Cope the code from commend line (do not create)

Step- 6

Remove the project id from here also

```
gcloud beta compute instances create vm-1 vm-2 --zone=us-central1-a --machine-type=f1-micro --
subnet=default --network-tier=PREMIUM --maintenance-policy=MIGRATE --service-account=442079269779-
compute@developer.gserviceaccount.com --
scopes=https://www.googleapis.com/auth/devstorage.read_only,https://www.googleapis.com/auth/logging.writ
e,https://www.googleapis.com/auth/monitoring.write,https://www.googleapis.com/auth/servicecontrol,https:
//www.googleapis.com/auth/service.management.readonly,https://www.googleapis.com/auth/trace.append --
image=debian-10-buster-v20210420 --image-project=debian-cloud --boot-disk-size=10GB --boot-disk-
type=pd-balanced --boot-disk-device-name=vm-1 --no-shielded-secure-boot --shielded-vtpm --shielded-
integrity-monitoring --reservation-affinity=any


gcloud compute firewall-rules create allow-http-test --direction=INGRESS --priority=1000 --
network=default --action=ALLOW --rules=tcp:80,tcp:22 --source-ranges=0.0.0.0/0
```

Step-7

Create a script file on gcloud shell with the commends that she copied

```
yogibca62@cloudshell:~ (python-application-309315)$ ls
GCP_PYTHON  my_app  new.sh  node-bulletin-board  python-docs-samples  README-cloudshell.txt
yogibca62@cloudshell:~ (python-application-309315)$ nano test1.sh
yogibca62@cloudshell:~ (python-application-309315)$ ls
GCP_PYTHON  my_app  new.sh  node-bulletin-board  python-docs-samples  README-cloudshell.txt  test1.sh
yogibca62@cloudshell:~ (python-application-309315)$
```

Step – 8

Execute the test1.sh script

```
GCP_PYTHON  my_app  new.sh  node-bulletin-board  python-docs-samples  README-cloudshell.txt  test1.sh
yogibca62@cloudshell:~ (python-application-309315)$ . test1.sh
Created [https://www.googleapis.com/compute/beta/projects/python-application-309315/zones/us-central1-a/instances/vm-1].
Created [https://www.googleapis.com/compute/beta/projects/python-application-309315/zones/us-central1-a/instances/vm-2].
NAME   ZONE          MACHINE_TYPE  PREEMPTIBLE  INTERNAL_IP  EXTERNAL_IP     STATUS
vm-1   us-central1-a  f1-micro                  10.128.0.5   34.69.153.134   RUNNING
vm-2   us-central1-a  f1-micro                  10.128.0.6   34.72.186.204   RUNNING
Creating firewall...Created [https://www.googleapis.com/compute/v1/projects/python-application-309315/global/firewalls/allow-
http-test].
Creating firewall...done.
NAME            NETWORK  DIRECTION  PRIORITY  ALLOW          DENY  DISABLED
allow-http-test  default  INGRESS    1000      tcp:80,tcp:22        False
yogibca62@cloudshell:~ (python-application-309315)$
```

Script is successfully created and executed, from the commends from the script,

There are 2 vm created

Compute Engine — VM instances

CREATE INSTANCE   IMPORT VM   REFRESH   START / RESUME   STOP   OPERATIONS   SHOW INFO PANEL   LEARN

INSTANCES   INSTANCE SCHEDULE

Filter   Enter property name or value

	Name ↑	Zone	Recommendations	In use by	Internal IP	External IP	Connect
✓	vm-1	us-central1-a			10.128.0.5 (nic0)	34.69.153.134	SSH ▾
✓	vm-2	us-central1-a			10.128.0.6 (nic0)	34.72.186.204	SSH ▾

Related Actions   DISMISS

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

Setup Firewall Rules
Control traffic to and from a VM instance

Patch Management
Schedule patch updates and view patch compliance on VM instances

Virtual machines
- VM instances
- Instance templates
- Sole-tenant nodes
- Machine images
- TPUs
- Migrate for Compute Engi...
- Committed use discounts

Storage
- Disks
- Snapshots
- Images

And 1 firewall rule also created

Filter   Enter property name or value

	Name	Type	Targets	Filters	Protocols / ports	Action	Priority	Network ↑	Logs	Hit count	Last hit
	allow-http-test	Ingress	Apply to all	IP ranges: 0.(	tcp:80;tcp:22	Allow	1000	default	Off	—	—