

# Assignment-1

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Submission for **Aditya Girisha (012145901)**

## Using Gcloud

- Install and Authenticate on Gcloud

```
sudo apt-get update && sudo apt-get install google-cloud-cli
```

### 1. Create a new VM

```
gcloud compute instances create instance-1 \  
  --project=csci-433923 \  
  --zone=us-west2-a \  
  --machine-type=e2-micro \  
  --network-interface=network-tier=PREMIUM,stack-type=IPV4_ONLY,subnet=default \  
  --maintenance-policy=MIGRATE \  
  --provisioning-model=STANDARD
```

### 2. Create a Snapshot

```
gcloud compute snapshots create snapshot-0 \  
  --source-disk-zone=us-west2-a \  
  --source-disk=instance-1 \  
  --snapshot-type=STANDARD \  
  --storage-location=US-CENTRAL1
```

### 3. Get Status of First VM

```
gcloud compute instances describe instance-1 \  
  --zone=us-west2-a \  
  --project=csci-433923 \  
  --format="get(status)"
```

### 4. Stop First VM

```
gcloud compute instances stop instance-1 \  
  --zone=us-west2-a \  
  --project=csci-433923
```

## 5. Clone the VM from the Snapshot

```
gcloud compute instances create instance-2 \  
  --project=csci-433923 \  
  --zone=us-central1-a \  
  --source-snapshot=snapshot-0 \  
  --network-interface=network-tier=PREMIUM,stack-type=IPV4_ONLY,subnet=default \  
  --maintenance-policy=MIGRATE \  
  --provisioning-model=STANDARD
```

## 6. Stop the second VM

```
gcloud compute instances stop instance-2 \  
  --zone=us-central1-a \  
  --project=csci-433923
```

## 7. Remove the first VM

```
gcloud compute instances delete instance-1 \  
  --zone=us-west2-a \  
  --project=csci-433923 \  
  --quiet
```

## Screenshots

```
(kali@LAPTOP-DS6ATP0D)~[/Workspace]
$ gcloud compute instances create instance-1 \
  --project=csci-433923 \
  --zone=us-west2-a \
  --machine-type=e2-micro \
  --network-interface=network-tier=PREMIUM,stack-type=IPV4_ONLY,subnet=default \
  --maintenance-policy=MIGRATE \
  --provisioning-model=STANDARD
Created [https://www.googleapis.com/compute/v1/projects/csci-433923/zones/us-west2-a/instances/instance-1].
```

NAME	ZONE	MACHINE_TYPE	PREEMPTIBLE	INTERNAL_IP	EXTERNAL_IP	STATUS
instance-1	us-west2-a	e2-micro		10.168.0.4	34.94.121.217	RUNNING

```
(kali@LAPTOP-DS6ATP0D)~[/Workspace]
$ gcloud compute snapshots create snapshot-0 \
  --source-disk-zone=us-west2-a \
  --source-disk=instance-1 \
  --snapshot-type=STANDARD \
  --storage-location=US-WEST1
Creating gce snapshot snapshot-0...done.
```

```
(kali@LAPTOP-DS6ATP0D)~[/Workspace]
$ gcloud compute instances describe instance-1 \
  --zone=us-west2-a \
  --project=csci-433923 \
  --format="get(status)"
RUNNING
```

```
(kali@LAPTOP-DS6ATP0D)~[/Workspace]
$ gcloud compute instances stop instance-1 \
  --zone=us-west2-a \
  --project=csci-433923
Stopping instance(s) instance-1...done.
Updated [https://compute.googleapis.com/compute/v1/projects/csci-433923/zones/us-west2-a/instances/instance-1].
```

```
(kali@LAPTOP-DS6ATP0D)~[/Workspace]
$ gcloud compute instances create instance-2 \
  --project=csci-433923 \
  --zone=us-central1-a \
  --source-snapshot=snapshot-0 \
  --network-interface=network-tier=PREMIUM,stack-type=IPV4_ONLY,subnet=default \
  --maintenance-policy=MIGRATE \
  --provisioning-model=STANDARD
Created [https://www.googleapis.com/compute/v1/projects/csci-433923/zones/us-central1-a/instances/instance-2].
```

NAME	ZONE	MACHINE_TYPE	PREEMPTIBLE	INTERNAL_IP	EXTERNAL_IP	STATUS
instance-2	us-central1-a	n1-standard-1		10.128.0.2	35.224.96.211	RUNNING

```
(kali@LAPTOP-DS6ATP0D)~[/Workspace]
$ gcloud compute instances stop instance-2 \
  --zone=us-central1-a \
  --project=csci-433923
Stopping instance(s) instance-2...done.
Updated [https://compute.googleapis.com/compute/v1/projects/csci-433923/zones/us-central1-a/instances/instance-2].
```

```
(kali@LAPTOP-DS6ATP0D)~[/Workspace]
$ gcloud compute instances delete instance-1 \
  --zone=us-west2-a \
  --project=csci-433923 \
  --quiet
Deleted [https://www.googleapis.com/compute/v1/projects/csci-433923/zones/us-west2-a/instances/instance-1].
```