

1. Google Cloud Fundamentals: Getting Started with Compute Engine

//Creating Virtual Machine 1(translated from cloud console to gcloud commandline)

```
gcloud config set compute/zone us-central1-a  
gcloud compute instances create my-vm-1 \  
--machine-type=n1-standard-1 \  
--image-project=debian-cloud \  
--image=debian-9-stretch-v20190213 \  
--boot-disk-size=10GB --boot-disk-type=pd-standard \  
--subnet=default  
gcloud compute firewall-rules create default-allow-http \  
--direction=INGRESS \  
--priority=1000 \  
--network=default \  
--action=ALLOW \  
--rules=tcp:80 \  
--source-ranges=0.0.0.0/0 \  
--target-tags=http-server
```

//Creating Virtual Machine 2

```
gcloud config set compute/zone us-central1-b  
gcloud compute instances create my-vm-2 \  
--machine-type=n1-standard-1 \  
--image-project=debian-cloud \  
--image=debian-9-stretch-v20190213 \  
--subnet=default
```

2. Creating Virtual Machines

//Task 1: Create a Utility Virtual Machine

```
gcloud config set compute/zone us-central1-c  
gcloud compute instances create my-utility-vm \  
--machine-type=n1-standard-1 \  
--image-project=debian-cloud \  
--image=debian-9-stretch-v20200910 \  
--boot-disk-size=10GB  
--boot-disk-type=pd-standard  
--subnet=default
```

//Task 2: Create a Windows Virtual Machine

```
gcloud config set compute/zone europe-west2-a  
gcloud compute instances create my-windows-vm \  
--machine-type=n1-standard-2 \  
--image-project=Windows Server \  
--image=Windows Server 2016 Datacenter Core \  
--boot-disk-size=100GB \  
--boot-disk-type=pd-ssd \  
--subnet=default  
gcloud compute firewall-rules create default-allow=http \  
--direction=INGRESS --priority=1000 --network=default --action=ALLOW \  
--rules=tcp:80 --source-ranges=0.0.0.0/0 --target-tags=http-server  
  
gcloud compute firewall-rules create default-allow=https \  
--dirction=INGRESS --priority=1000 --network=default --action=ALLOW \  
--rules=tcp:443 --source-ranges=0.0.0.0/0 --target-tags=https-server
```

```
--rules=tcp:443 --source-ranges=0.0.0.0/0 --target-tags=http-server
```

//Task 3: Create a Custom Virtual Machine

```
gcloud config set compute/zone us-west1-b  
gcloud compute instances create my-custom-vm \  
--machine-type=custom-6-32768 \  
--image-project=debian-cloud \  
--image=debian-9-stretch-v20200910 \  
--boot-disk-size=10GB \  
--boot-disk-type=pd-standard \  
--subnet=default
```