Multiple VPC Networks

**Check my progreass one**

gcloud auth list

gcloud config list project

gcloud compute networks create managementnet --project=qwiklabs-gcp-00-065750c967fb --subnet-mode=custom --mtu=1460 --bgp-routing-mode=regional

gcloud compute networks subnets create managementsubnet-us --project=qwiklabs-gcp-00-065750c967fb --range=10.130.0.0/20 --network=managementnet --region=us-central1

**check my progreass 2**

gcloud compute networks create privatenet --subnet-mode=custom

gcloud compute networks subnets create privatesubnet-us --network=privatenet --region=us-central1 --range=172.16.0.0/24

gcloud compute networks subnets create privatesubnet-eu --network=privatenet --region=europe-west4 --range=172.20.0.0/20

**check my progress 3**

gcloud compute networks list

gcloud compute networks subnets list --sort-by=NETWORK

gcloud compute --project=qwiklabs-gcp-00-065750c967fb firewall-rules create managementnet-allow-icmp-ssh-rdp --direction=INGRESS --priority=1000 --network=managementnet --action=ALLOW --rules=tcp:22,tcp:3389,icmp --source-ranges=0.0.0.0/0

**check my progress 4**

gcloud compute firewall-rules create privatenet-allow-icmp-ssh-rdp --direction=INGRESS --priority=1000 --network=privatenet --action=ALLOW --rules=icmp,tcp:22,tcp:3389 --source-ranges=0.0.0.0/0

**check my progreass 5**

gcloud compute firewall-rules list --sort-by=NETWORK

gcloud compute instances create managementnet-us-vm --project=qwiklabs-gcp-00-065750c967fb --zone=us-central1-f --machine-type=f1-micro --network-interface=network-tier=PREMIUM,subnet=managementsubnet-us --maintenance-policy=MIGRATE --service-account=130048874251-compute@developer.gserviceaccount.com --scopes=https://www.googleapis.com/auth/devstorage.read\_only,https://www.googleapis.com/auth/logging.write,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 --create-disk=auto-delete=yes,boot=yes,device-name=managementnet-us-vm,image=projects/debian-cloud/global/images/debian-10-buster-v20211209,mode=rw,size=10,type=projects/qwiklabs-gcp-00-065750c967fb/zones/us-central1-f/diskTypes/pd-balanced --no-shielded-secure-boot --shielded-vtpm --shielded-integrity-monitoring --reservation-affinity=any

**check my progreass 6**

gcloud compute instances create privatenet-us-vm --zone=us-central1-f --machine-type=n1-standard-1 --subnet=privatesubnet-us

**check my progreass 7**

gcloud compute instances list --sort-by=ZONE

1. **Navigation menu** > **Compute Engine** > **VM instances**.
2. Note the external IP addresses for **mynet-eu-vm**, **managementnet-us-vm**, and **privatenet-us-vm**.
3. For **mynet-us-vm**, click **SSH** to launch a terminal and connect.
4. To test connectivity to **mynet-eu-vm**'s external IP, run the following command, replacing **mynet-eu-vm**'s external IP

ping -c 3 <Enter managementnet-us-vm's external IP here>

this commond in mynet-us-vm replacing external ip of  **mynet-eu-vm, managementnet-us-vm, then privatenet-us-vm**' in the same ssh

same thing with same ssh but with internal ip address of that three instences

gcloud compute instances create vm-appliance --project=qwiklabs-gcp-00-065750c967fb --zone=us-central1-f --machine-type=n1-standard-4 --network-interface=network-tier=PREMIUM,subnet=privatesubnet-us --network-interface=network-tier=PREMIUM,subnet=managementsubnet-us --network-interface=network-tier=PREMIUM,subnet=mynetwork --maintenance-policy=MIGRATE --service-account=130048874251-compute@developer.gserviceaccount.com --scopes=https://www.googleapis.com/auth/devstorage.read\_only,https://www.googleapis.com/auth/logging.write,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 --create-disk=auto-delete=yes,boot=yes,device-name=vm-appliance,image=projects/debian-cloud/global/images/debian-10-buster-v20211209,mode=rw,size=10,type=projects/qwiklabs-gcp-00-065750c967fb/zones/us-central1-f/diskTypes/pd-balanced --no-shielded-secure-boot --shielded-vtpm --shielded-integrity-monitoring --reservation-affinity=any

congratulations comleted the lab.