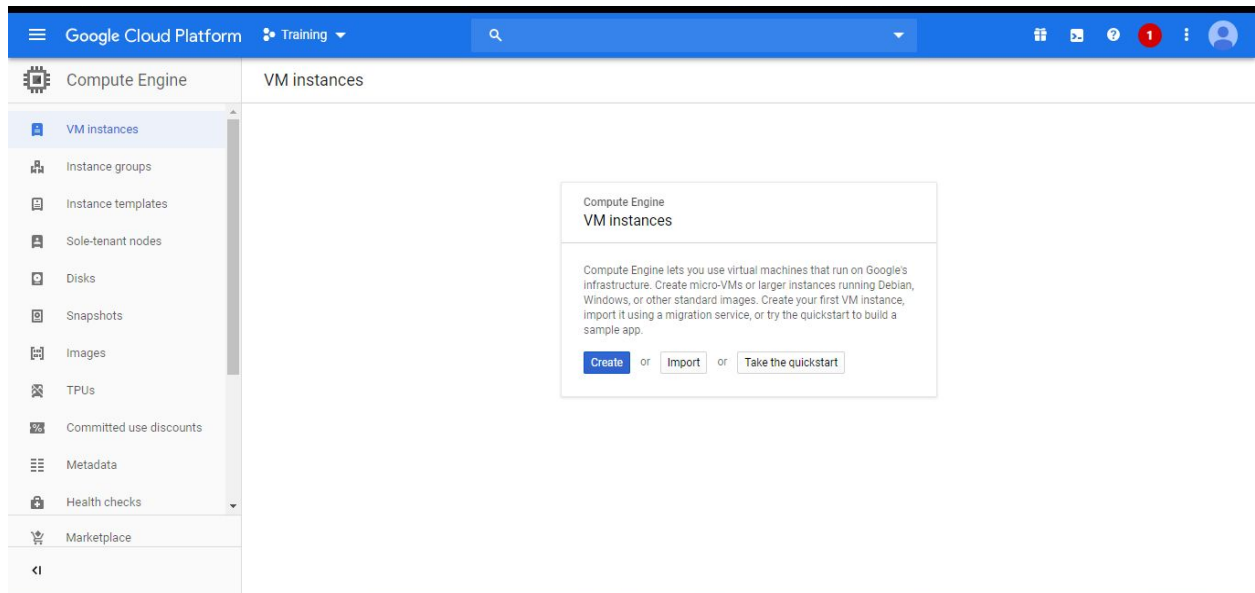


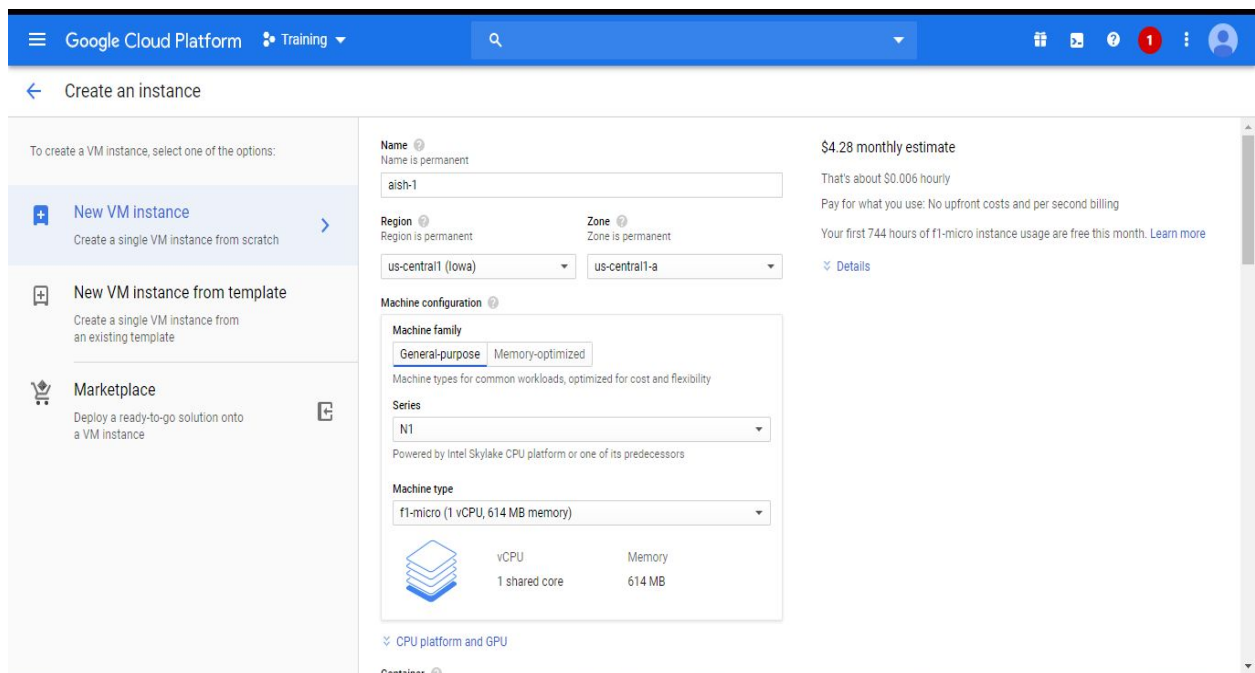
GCP assessment on VPC

Q1) Create an instance A in default VPC.

Steps: 1.Go to Compute Engine>>VM instances>>Create Instance



2. Name the Instance and configure it.



3. In Networking Interface select **Default** network.

← Create an instance

Network interface

Network ?
default

Subnetwork ?
default (10.128.0.0/20)

Primary internal IP ?
Ephemeral (Automatic)

⌵ Show alias IP ranges

External IP ?
Ephemeral

Network Service Tier ?
☒ Premium (Current project-level tier, change) ?
☐ Standard (us-central1) ?

IP forwarding ?
Off

Public DNS PTR Record ?
☐ Enable
PTR domain name

4. Click on Create. An Gcp instance in default VPC would be created.

Q2.) Launch instance B with only private ip in default VPC in different zone.

Steps:

1. Go to Compute Engine >> VM instances >> Create Instance
2. Name the Instance and configure it (**Select different Region than that of above instance**)
3. In Networking Interface select **Default** network.
4. Choose External IP as **none**. (To create instance with only private IP).

The screenshot shows the Google Cloud Platform interface for creating a new instance. The top navigation bar includes the Google Cloud Platform logo, a 'Training' dropdown, and a search bar. Below the navigation bar, a breadcrumb trail shows 'Create an instance'. The main content area is divided into two sections. The left section is a large, empty gray box. The right section contains a 'Network interface' configuration panel. This panel has a blue header with the title 'Network interface' and an upward-pointing arrow. Inside the panel, there are several configuration options: 'Network' is set to 'default'; 'Subnetwork' is set to 'default (10.128.0.0/20)'; 'Primary internal IP' is set to 'Ephemeral (Automatic)'; there is a link to 'Show alias IP ranges'; 'External IP' is set to 'None'; and 'IP forwarding' is set to 'Off'. At the bottom of the panel are 'Done' and 'Cancel' buttons. Below the panel is a button with a plus sign and the text '+ Add network interface'.

Q3.configure NAT so instance can access Internet.

Steps:

- 1.Go to the Cloud NAT page in the Google Cloud Console.
- 2.Click **Get started** or **Create NAT gateway**.
- 3.Enter a **Gateway name**.
- 4.Choose a **VPC network**.
- 5.Set the **Region** for the NAT gateway.
- 6.Select or create a **Cloud Router** in the region.
- 7.Select 'Primary ranges for all subnets' in NAT Mapping (for Compute Engine).
- 8.Click on create.This will allow all private subnets to connect to internet using **NAT**.

Q4)SSH into Instance B using instance A and try to install nginx.

Steps:

1. SSH to your public instance.
2. In the terminal,type ssh <private-instance-name> (This will take us to the terminal in the private instance).
3. Type sudo apt-get install nginx.

