**GCP-VPC Assignment 2**

**Question 1:**

Step 1: Click create instance

Step 2: Name the instance

Step 3: Select the region and zone

Step 4: Select the machine type as F1 Micro

Step 5: Configure any other details as per need (Storage etc.)

Step 6: Check the network interface as default

Step 7: Click create

**Question 2:**

Step 1: Click create instance

Step 2: Name the instance

Step 3: Select the region and select different zone

Step 4: Select the machine type as F1 Micro

Step 5: Configure any other details as per need (Storage etc.)

Step 6: Check the network interface and set the external IP to none (Thus creating a private instance)

Step 7: Click create

**Question 3:**

Step 1: Go to Cloud NAT

Step 2: Give the gateway name

Step 3: Select VPC Network

Step 4: Specify region

Step 5: Create a cloud router

Step 6: In NAT Mapping select ‘Primary ranges for all subnets’ (Since primary ranges is for compute engines and secondary ranges is for Kubernetes)

Step 7: Click create

**(Now all the private subnets in the region are connected to the internet through the NAT Gateway)**

**Question 4:**

Step 1: Open SSH Terminal of public instance

Step 2: Type ssh private-instance-name (we’re in the ssh terminal of private instance now)

Step 3: Type sudo apt-get install nginx