

## 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

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**(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`