**GCP VPC Assignment 2**

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**Question 1: Create an instance A in default VPC.**

**Ans:**

1. Click on create instance for configuring the instance properties
2. Give a name to the instance
3. Select the region and zone
4. Select the machine type as F1 Micro
5. Configure any other details as per need (Storage etc.)
6. Check the network interface as default
7. Click on create

**Question 2: Launch instance B with only private IP in default VPC in different zone.**

**Ans:**

1. Click on create instance
2. Name the instance
3. Select the region and select different zone
4. Select the machine type as F1 Micro
5. Configure any other details as per need (Storage etc.)
6. Check the network interface and set the external IP to none (Thus creating a private instance)
7. Click on create

**Question 3: Configure NAT so instance can access Internet.**

**Ans:**

1. Go to Cloud NAT
2. Give the gateway name
3. Select VPC Network
4. Specify region
5. Create a cloud router
6. In NAT Mapping select ‘Primary ranges for all subnets’ (Since primary ranges is for compute engines and secondary ranges is for Kubernetes)
7. Click on create

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

**Question 4: SSH into Instance B using instance A and try to install nginx.**

**Ans:**

1. Open SSH Terminal of public instance
2. Type ssh private-instance-name (we’re in the ssh terminal of private instance now)
3. Type sudo apt-get install nginx