

GCP VPC Assignment 2

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Question 1: Create an instance A in default VPC.

Ans:

- a) Click on create instance for configuring the instance properties
- b) Give a name to the instance
- c) Select the region and zone
- d) Select the machine type as F1 Micro
- e) Configure any other details as per need (Storage etc.)
- f) Check the network interface as default
- g) Click on create

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

Ans:

- a) Click on create instance
- b) Name the instance
- c) Select the region and select different zone
- d) Select the machine type as F1 Micro
- e) Configure any other details as per need (Storage etc.)
- f) Check the network interface and set the external IP to none (Thus creating a private instance)
- g) Click on create

Question 3: Configure NAT so instance can access Internet.

Ans:

- a) Go to Cloud NAT
- b) Give the gateway name
- c) Select VPC Network
- d) Specify region
- e) Create a cloud router
- f) In NAT Mapping select 'Primary ranges for all subnets' (Since primary ranges is for compute engines and secondary ranges is for Kubernetes)
- g) 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:

- a) Open SSH Terminal of public instance
- b) Type `ssh private-instance-name` (we're in the ssh terminal of private instance now)
- c) Type `sudo apt-get install nginx`