### **GCP Network Engineer Crash Course Lab 2**

## **VPC Exercise 2 – VPC Peering**

- You can use VPC Network Peering to connect VPCs to other VPC networks located in different projects or organizations.
- VPC Network Peering enables you to peer VPC networks so that workloads in different VPC networks can communicate in private RFC 1918 space.
- Traffic stays within Google's network and doesn't traverse the public internet.
- VPC Network Peering works with Compute Engine, GKE, and App Engine flexible environment.

## **VPC Network Peering is useful for:**

- SaaS (Software-as-a-Service) ecosystems in GCP. You can make services available privately across different VPC networks within and across organizations.
- Organizations with several network administrative domains can peer with each other.

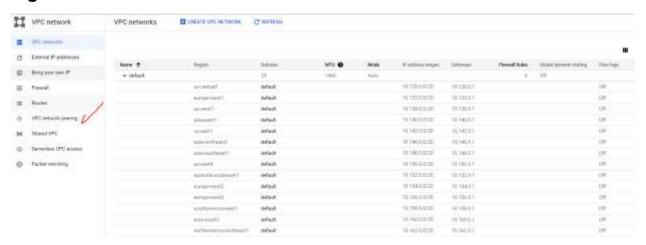
## Let's create a New VPC Peering Network via the Cloud Console.

# Log in to your Google Cloud Platform Account

- Determine the project you will be creating the VPC in (use the one in Lab 1 since we will peer that one to the newly created one).
- Go to VPC Network

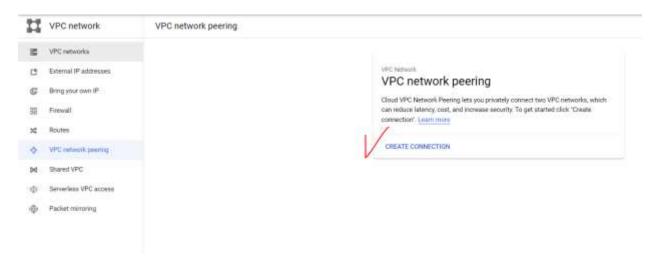
 Create another VPC as in previous lab so you have two VPCs in the same project. (Ensure that your using different IP ranges for the subnets)

Figure 1 - VPC Dashboard



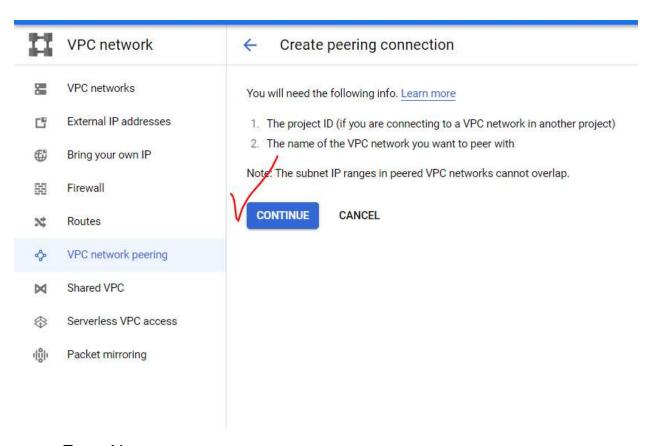
- Select VPC network peering the left menu.

Figure 2 – Create VPC Network



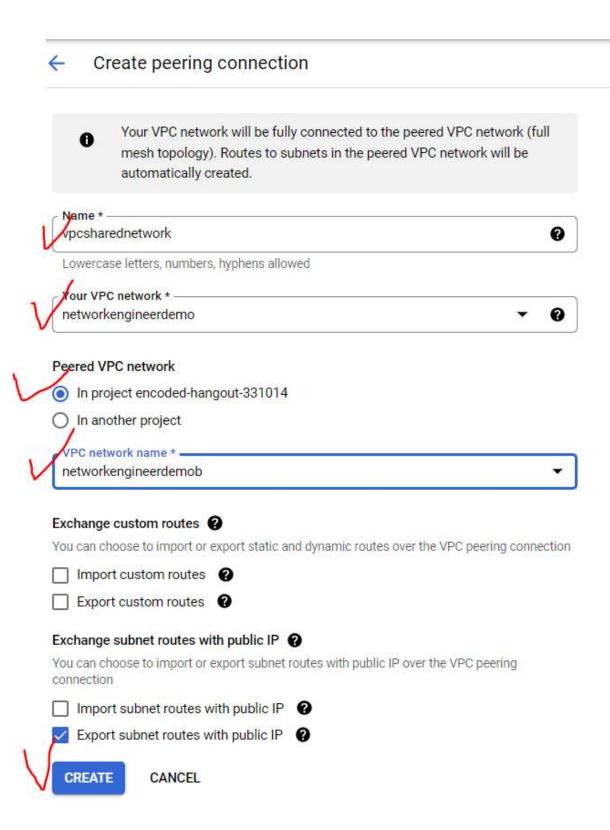
Select Create Connection

Figure 3 – Create Peering Connection



- Enter Name
- Enter Your VPC Network (Network A)
- Select Project with the VPC in. (Same Project for this exercise)
- Select Create

Figure 4 - Create VPC Peering Connection



 Once Select Create is selected you see the network peering created. Will reflect "Inactive". - The peer connection between networkengineerdemo >>>> networkengineerdemob has been created.

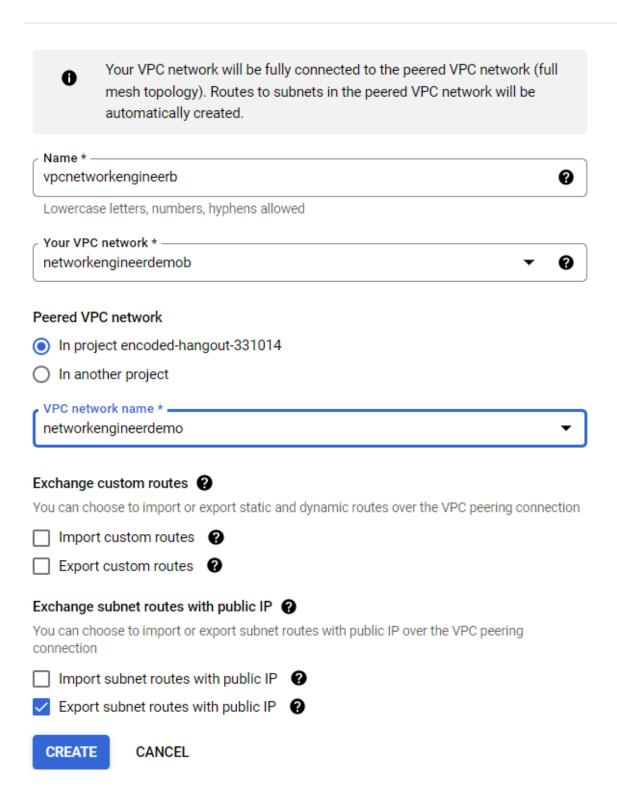
Figure 5 – VPC Peering Connection



 We now need to create the peer connection for the other VPC which will be networkengineerdemob >>>> networkengineerdemo

Go back and create the other connection as earlier.

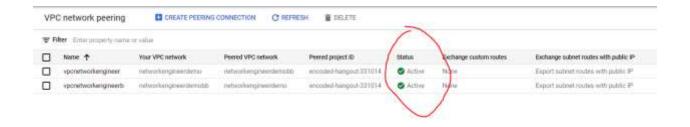
Figure 6 - Second VPC Peer Connection Creation



- Select Create

Once you create the second peer connection your interface should reflect the following.

Figure 7 – VPC Network Peering Active



#### **End**