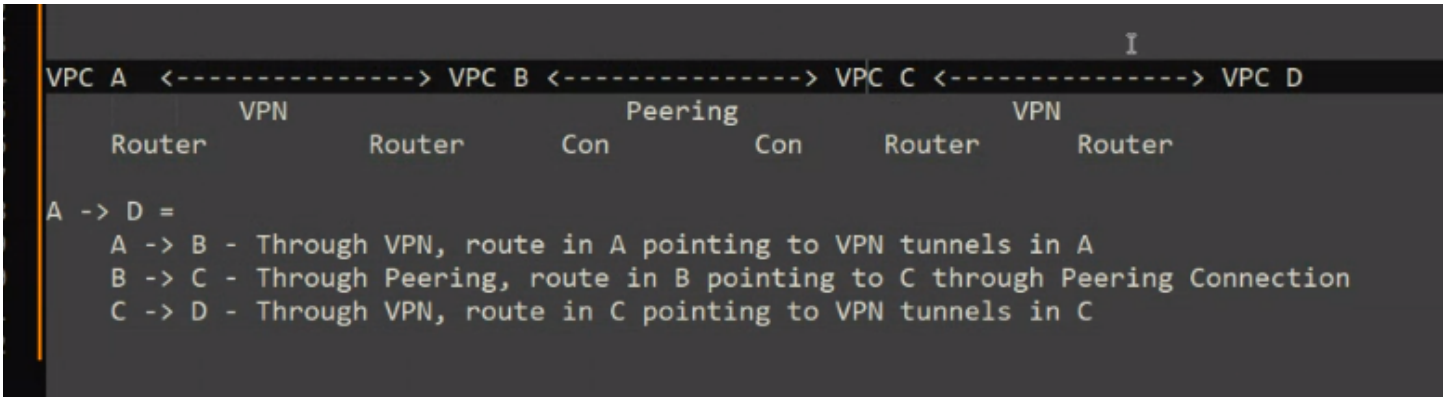
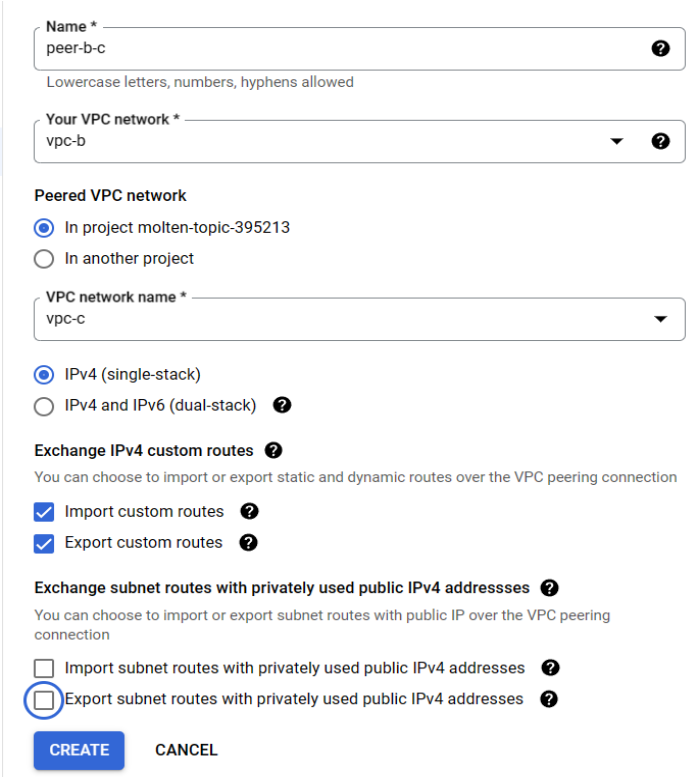
VPC Connectivity Tasks-4

- *Setup 4 VPCs (A, B, C, D)*
- *Setup VPC peering between VPC-B and VPC-C*
- *Setup HA-VPN tunnels between VPC-A and VPC-B and tunnels between VPC-C and VPC-D*
- *Ping from VPC A to VPC D*

Tasks:
- *Importance of firewalls*
- *Routing in all 4 VPCs*
- *Route advertisements in Cloud Routers*

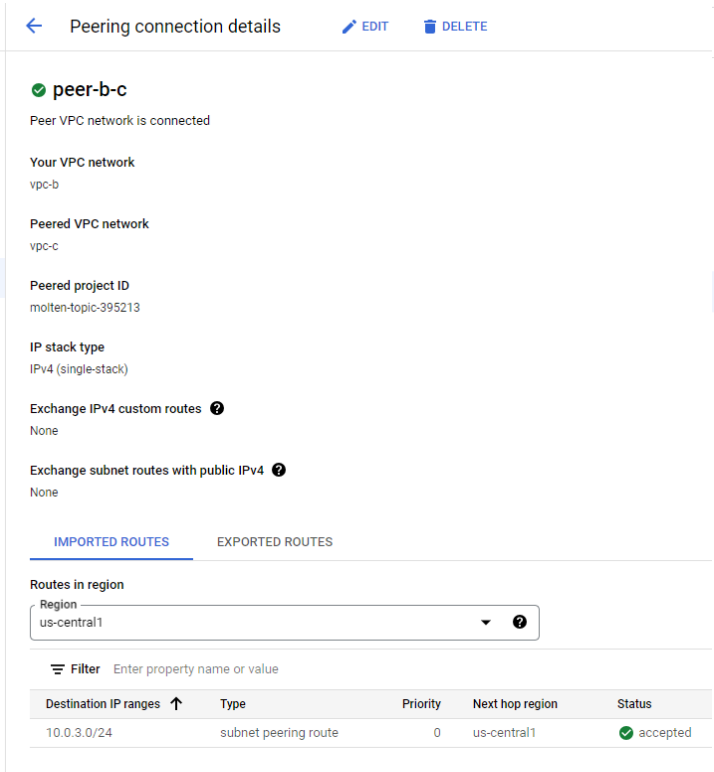


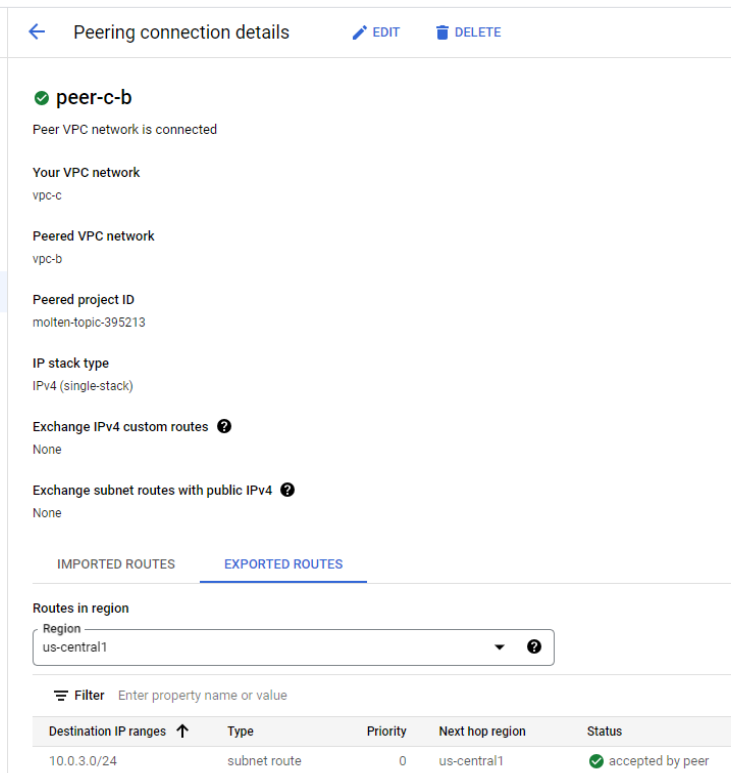
VPC Peering between B & C :



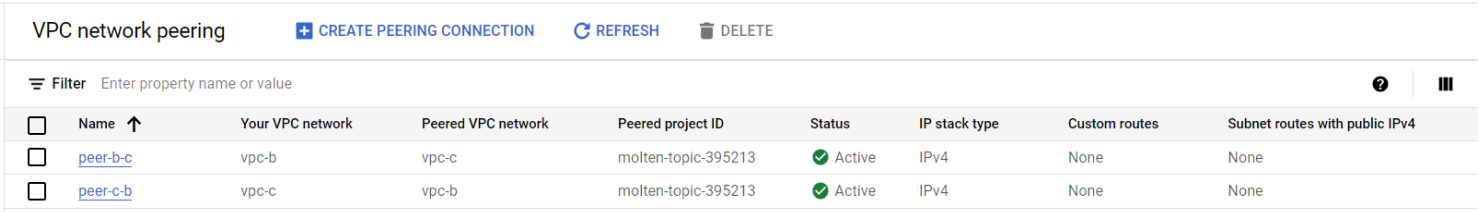
First Creating peering between vpc-b and vpc-c
All the configurations are the same.
But in this case, just remember to check the checkbox corresponding to the custom routes.

The configurations should be like this (just on the place of none in exchange route you should see custom routes).

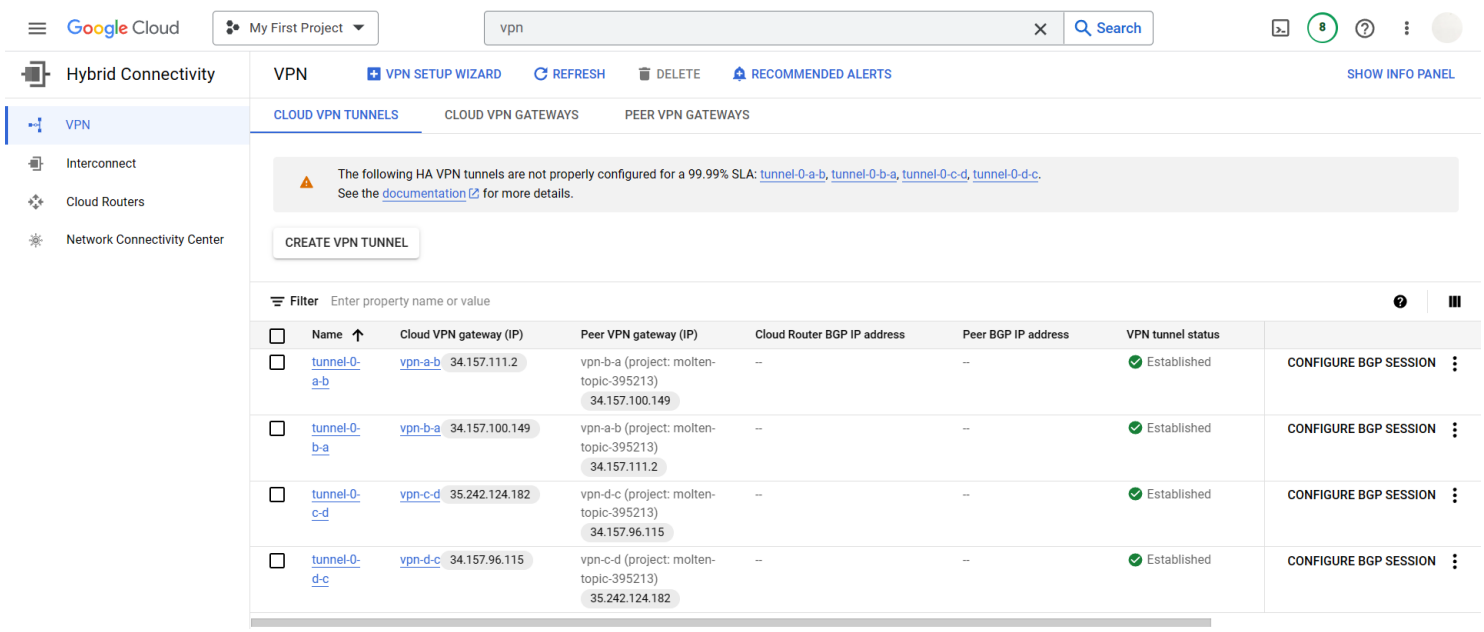




After the peering the result will look as active (if it's successful)



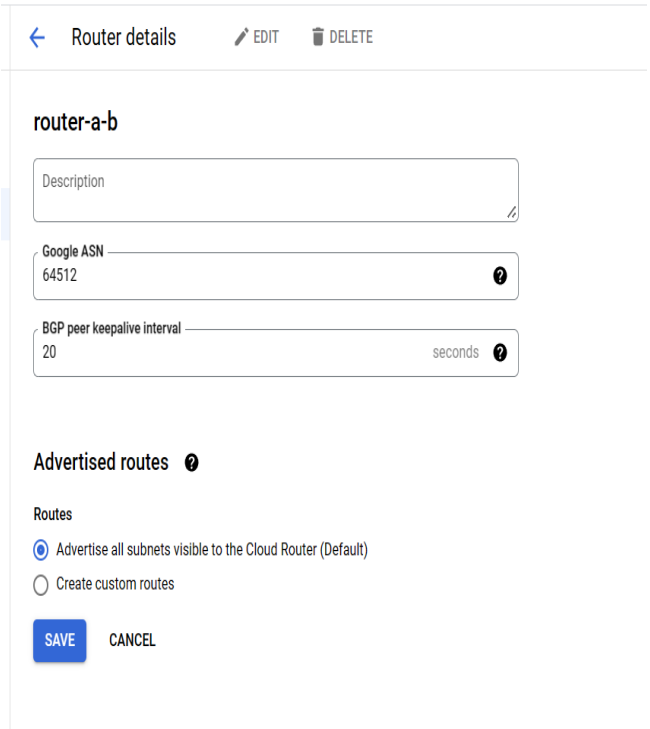
Configuring HA VPN Gateway (this time just providing only the single tunnel to it)
We named them as follows→

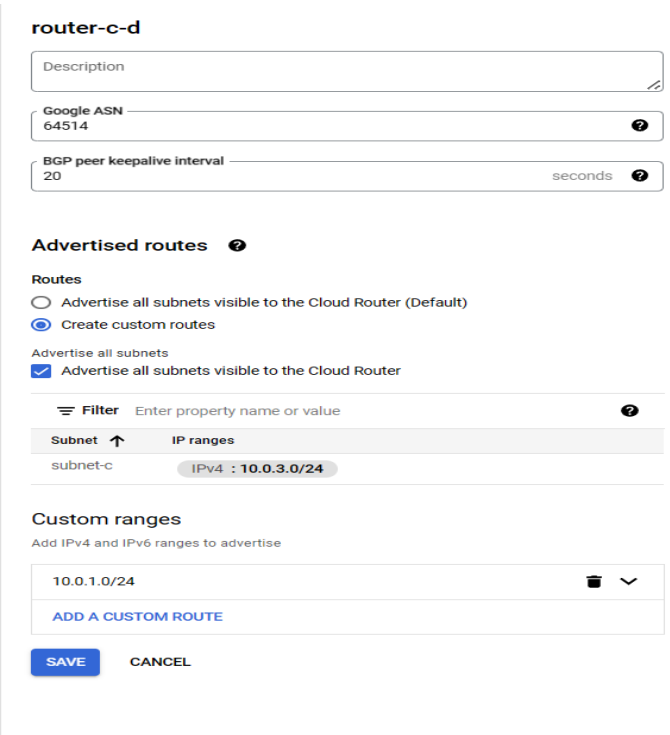


While configuring the tunnels you have to use the cloud routers

How we actually configured cloud routers

-> we had done all the thing as straightforward as it can for router-a and router-d but for router-b and router-c there is catch





We will give custom routes in b and c → as we can see that in vpc-c, we had given the custom range of vpc-a i.e, 10.0.1.0/24
We had done so as to make c aware of vpc-a as their is no communication between vpc-a and vpc-c
Similarly we will configure router-b where we will configure vpc-d in custom route

We named cloud routers as

:::--router-a-b

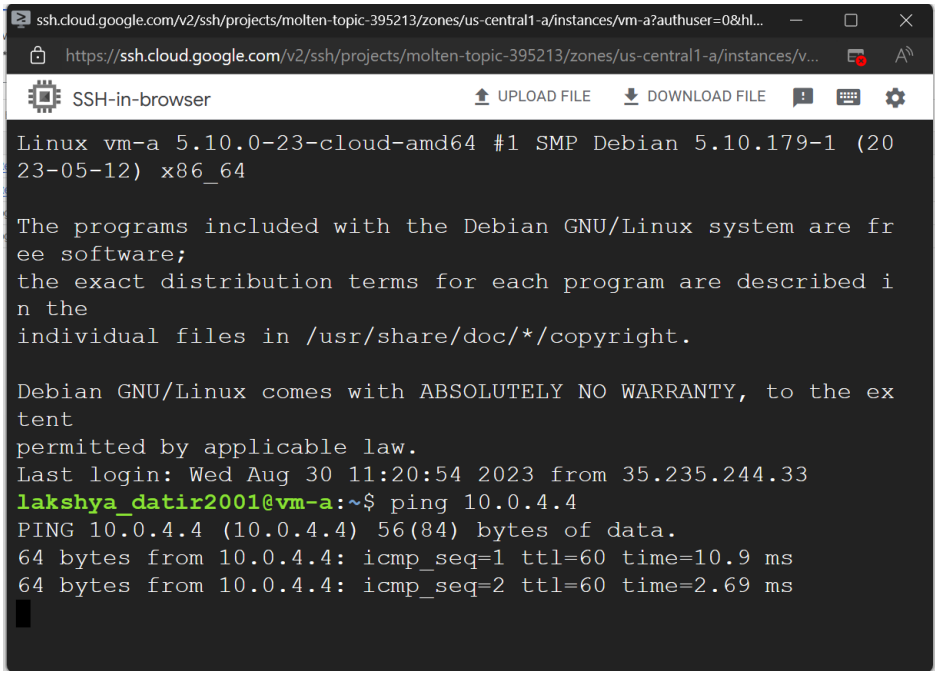
:::--router-b-c

:::--router-c-d

:::--router-d-c

Name	Network	Region	Interconnect encryption	Google ASN	Interconnect / VPN gateway	Connection	BGP sessions	Logs
router-a-b	vpc-a	us-central1	Unencrypted	64512	None			View
router-b-a	vpc-b	us-central1	Unencrypted	64513	None			View
router-c-d	vpc-c	us-central1	Unencrypted	64514	None			View
router-d-c	vpc-d	us-central1	Unencrypted	64515	None			View

Now trying to ping the vpc-d from vpc-a ..
Will it work ??



Yeah it’s working

Quick question —--> will we be able to ping vpc-c from vpc-a
To get the answer you can simply visit to route page under vpc