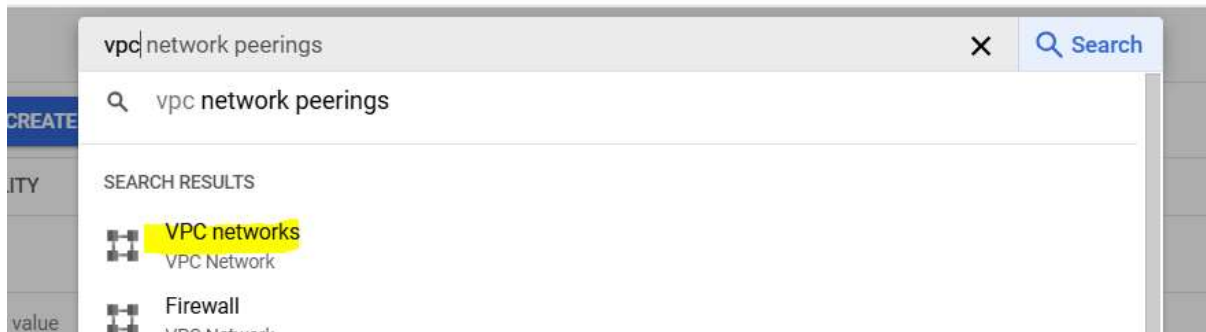
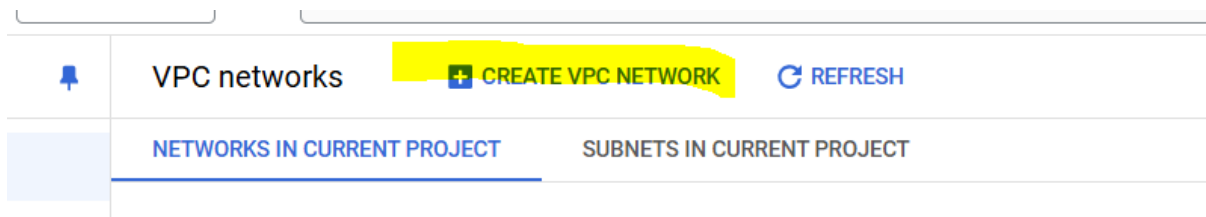


In this lab we will create a New VPC and subnets under it. We will also discuss about default VPC

1. First, go to the GCP console and search for and click VPC



2. Here will see the default VPC already created. Open the default VPC and go through its content
3. The default VPC has one default Subnet in every region
4. To create a new VPC, click Create New VPC Network




5. Give VPC a name. Keep subnet creation mode as Custom


A screenshot of the 'Create a VPC network' form in the GCP console. The form includes the following fields and options:



- Name ***: A text input field containing 'myvpc1'. A help icon (?) is visible. Below the field, it says 'Lowercase letters, numbers, hyphens allowed'.
- Description**: A text input field.
- Maximum transmission unit (MTU)**: A dropdown menu showing '1460'. A help icon (?) is visible.
- ☐ **Configure network profile** with a help icon (?)
- Subnet creation mode** with a help icon (?):
 - ☒ **Custom** (highlighted in yellow)
 - ☐ Automatic
- Private IPv6 address settings**


6. Fill Subnet details (for subnet calculation, you can use <https://visualsubnetcalc.com/>)

Name * mypubsubnet 

Lowercase letters, numbers, hyphens allowed

Description 

Region * us-central1  

IP stack type 

☒ IPv4 (single-stack)

☐ IPv4 and IPv6 (dual-stack)

☐ IPv6 (single-stack)


Primary IPv4 range

☐ Associate with an internal range
Use an internal range to specify the subnet's internal IP address range. The subnetwork can be associated with an entire internal range or only part of the range.


IPv4 range * 10.0.0.0/18 

E.g. 10.0.0.0/24

7. For the public subnet, make “Private Google Access” as OFF, and vice-versa

Secondary IPv4 ranges 

[ADD A SECONDARY IPV4 RANGE](#)

Private Google Access 


☐ On

☒ Off

Flow logs

☐ On

☒ Off

Hybrid Subnets 

☐ On

☒ Off

DONE

8. Keep all other settings default and click Create.

9. Once the Subnet is created, go to the VPC>Subnets and click Add subnet (Now we will create one private subnet)
10. Keep the region the same as the public subnet

Name *

myprvsub1

Lowercase letters, numbers, hyphens allowed

Description

VPC Network

myvpc

Region *

us-central1

Purpose

☐ Regional Managed Proxy

☐ Cross-region Managed Proxy

☐ Private Service Connect

☐ Private NAT

☒ None

IPV4 range *

10.0.64.0/18

E.g. 10.0.0.0/24

Secondary IPv4 ranges

ADD A SECONDARY IPV4 RANGE

Private Google Access

☒ On

☐ Off

Flow logs

☐ On

☒ Off

Hybrid Subnets

☐ On

☒ Off

ADD

CANCEL

12. Once created, go to VPC and explore options, also explore subnet configurations