

Google Cloud Platform Practices

1. VPC

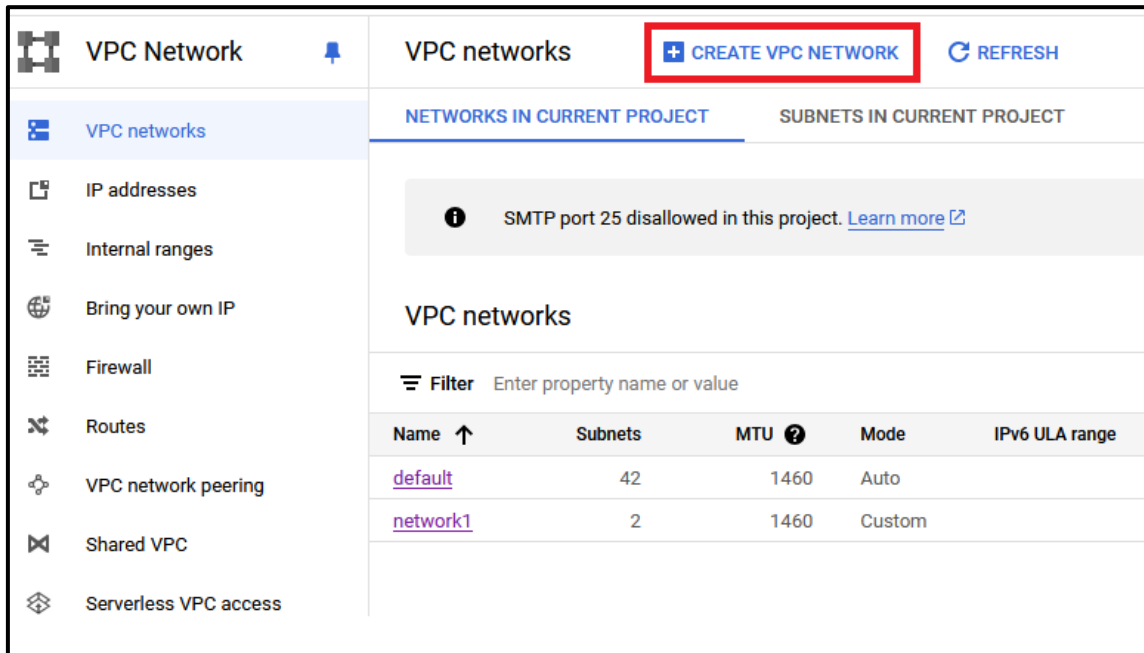
- Create a VPC named "development"
- Create a subnet named "dev1" with the CIDR range 192.168.0.0/16 within the us-central1 region
- Create another second subnet named "dev2" with block 10.0.0.0/20 in the us-west1 region
- Add a firewall rule called postgres that allows access over TCP port 5432
- Check the properties of the default route of the "development" network

Apasoft Training

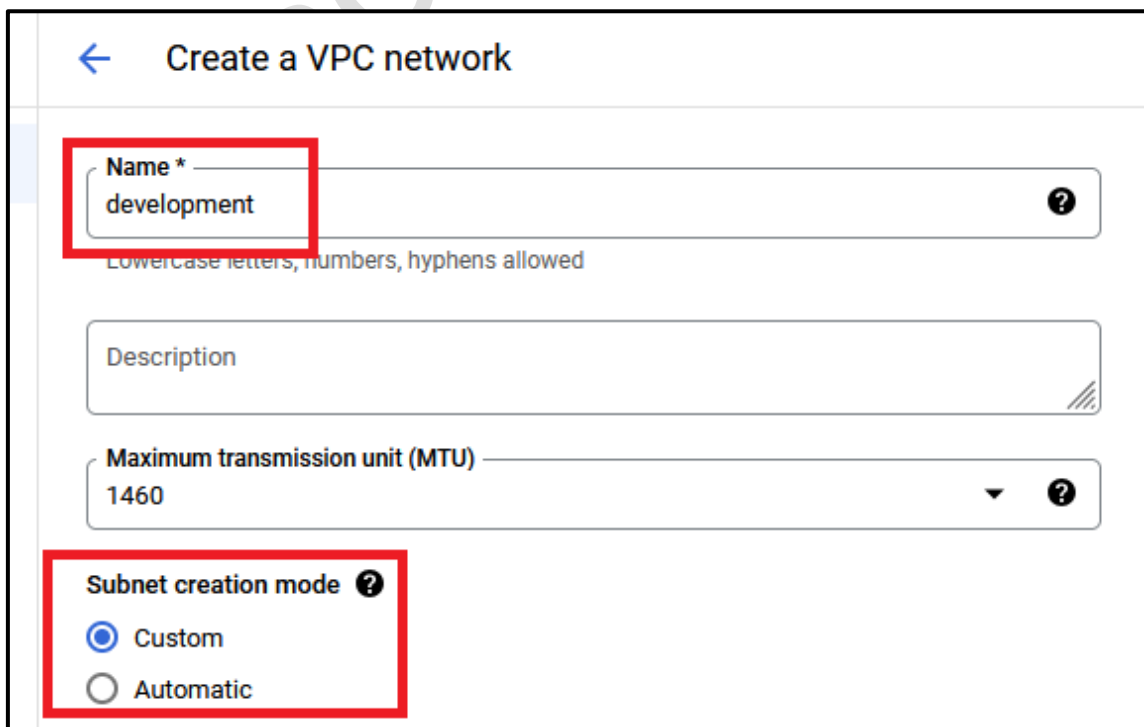
Solutions

2. VPC

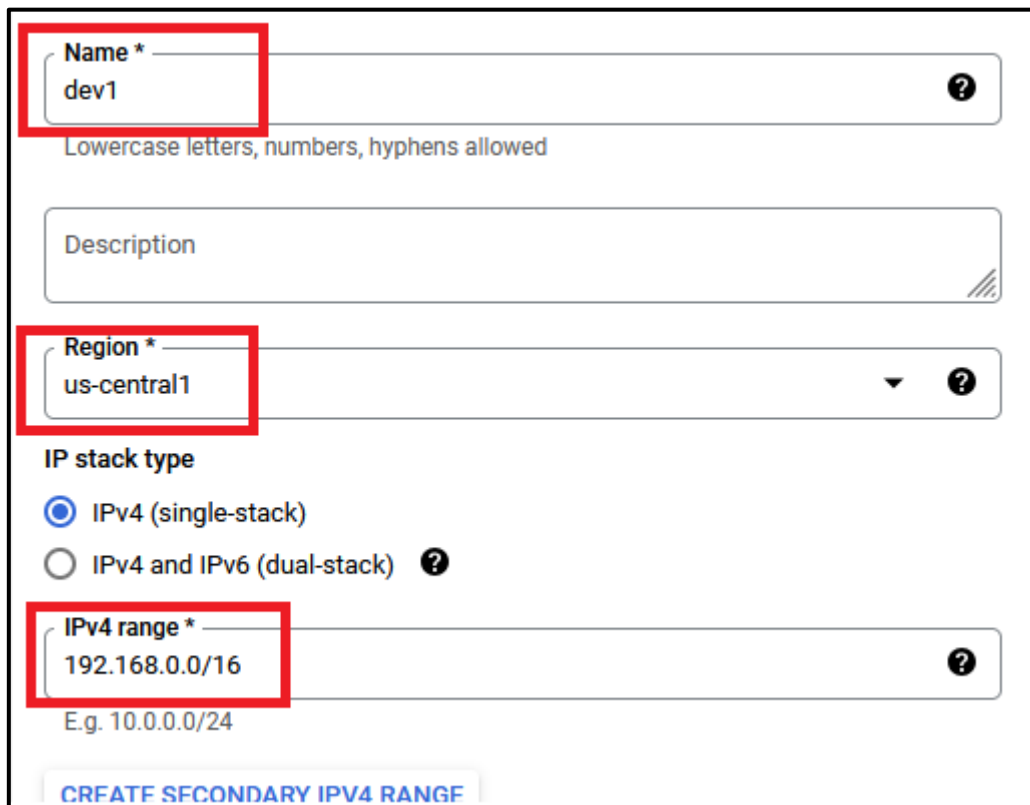
- Create a VPC named "development"
- We select "Create VPC network"



- We write the name of the new network data



- Create a subnet named "dev1" with the CIDR range 192.168.0.0/16 within the us-central1 region.
- We write the name, región and IP range

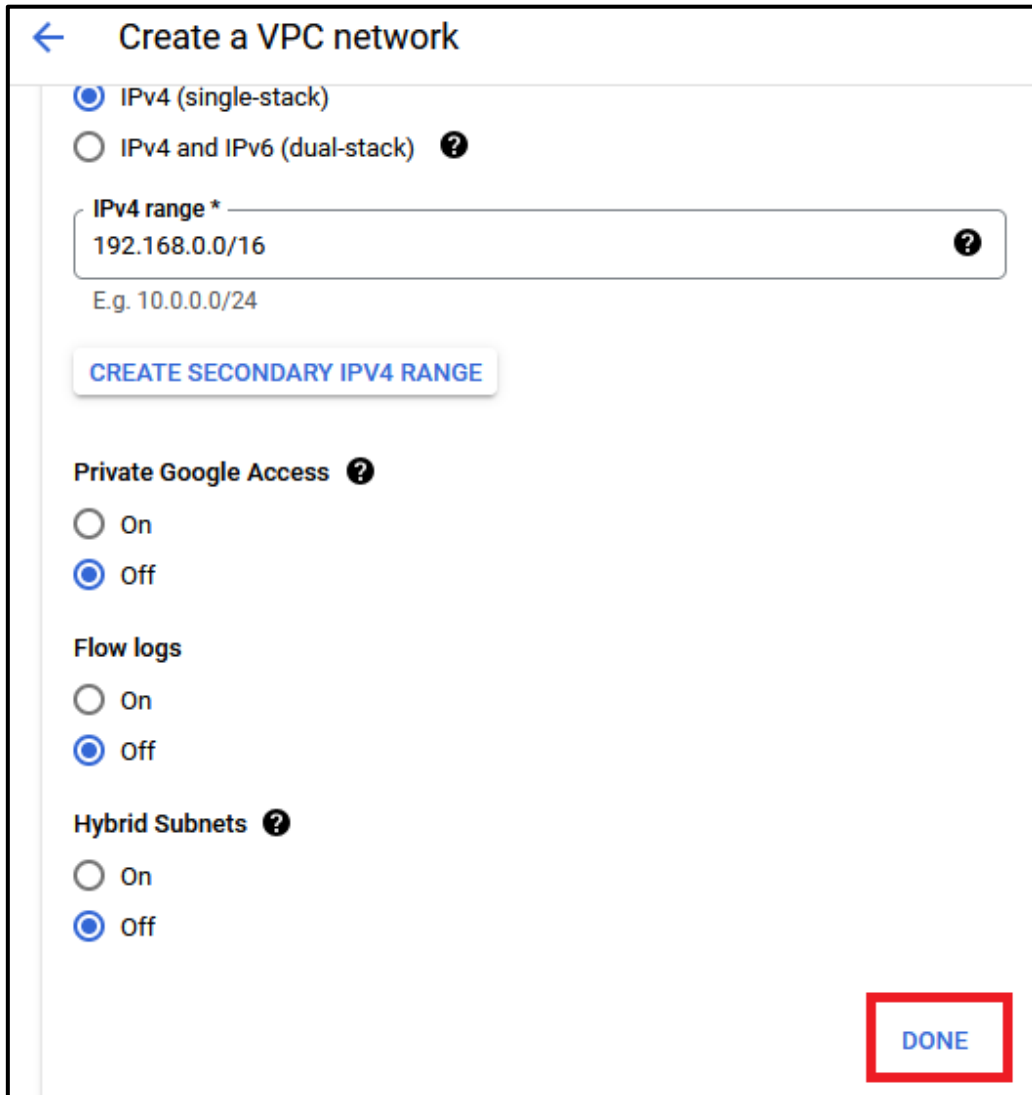


The screenshot shows a form for creating a subnet. The following fields are highlighted with red boxes:

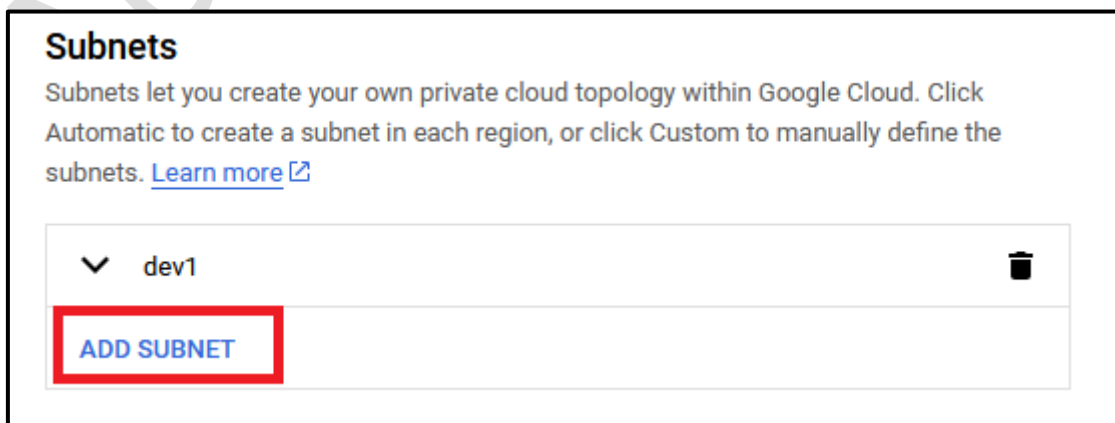
- Name ***: dev1 (with a note: "Lowercase letters, numbers, hyphens allowed")
- Region ***: us-central1
- IPv4 range ***: 192.168.0.0/16 (with a note: "E.g. 10.0.0.0/24")

Other visible fields include a Description field, IP stack type options (IPv4 (single-stack) selected, IPv4 and IPv6 (dual-stack)), and a "CREATE SECONDARY IPV4 RANGE" button.

- We Click on the “done” button



- Now, we create another second subnet named “dev2” with block 10.0.0.0/20 in the us-west1 region
- We click on “Add subnet” button.



- We write the data and click on the “done” button

▼ dev1
🗑️

^ **New subnet**
🗑️

Name *
 dev2 ?

Lowercase letters, numbers, hyphens allowed

Description

Region *
 us-west1 ▼ ?

IP stack type

IPv4 (single-stack)

IPv4 and IPv6 (dual-stack) ?

IPv4 range *
 10.0.0.0/20 ?

E.g. 10.0.0.0/24

- Both subnets should appear

Subnets

Subnets let you create your own private cloud topology within Google Cloud. Click Automatic to create a subnet in each region, or click Custom to manually define the subnets. [Learn more](#)

▼ dev1
🗑️

▼ dev2
🗑️

[ADD SUBNET](#)

- We click on “Create Button” to create the network

DNS configuration (optional)

i DNS API needs to be enabled in order to add DNS server policy and DNS zones to the VPC network. You can enable this API in the [Marketplace](#).

CREATE CANCEL

EQUIVALENT COMMAND LINE ▾

- The new network should appear in the list of networks

VPC networks [+ CREATE VPC NETWORK](#) [REFRESH](#)

NETWORKS IN CURRENT PROJECT SUBNETS IN CURRENT PROJECT

i SMTP port 25 disallowed in this project. [Learn more](#)

VPC networks

Filter Enter property name or value

Name ↑	Subnets	MTU ?	Mode	IPv6 ULA range	Gateways	Firewall rules	Global dyn
default	42	1460	Auto			4	Off
development	2	1460	Custom			0	Off
network1	2	1460	Custom			3	Off

- Add a firewall rule called postgres that allows access over TCP port 5432
- We enter the Development network
- We select “firewall” and “Add firewall rule”

← VPC network details [DELETE VPC NETWORK](#)

development

OVERVIEW SUBNETS STATIC INTERNAL IP ADDRESSES **FIREWALLS** FIREWALL

ADD FIREWALL RULE DELETE

Filter Enter property name or value

Name	Enforcement order ↑	Type	Deployment scope	Rule priority
------	---------------------	------	------------------	---------------

- Now we write the name “postgres” in the name.

[←](#) **Create a firewall rule**

Firewall rules control incoming or outgoing traffic to an instance. By default, incoming traffic from outside your network is blocked. [Learn more](#)

Name * ?

Lowercase letters, numbers, hyphens allowed

Description

Logs

Turning on firewall logs can generate a large number of logs which can increase costs in Logging. [Learn more](#)

On

Off

Network * ▼ ?

Priority * [COMPARE](#) ?

Priority can be 0 - 65535

- Now, we rite the rest of data and click in the “create Button”

← Create a firewall rule

Ingress
 Egress

Action on match ?
 Allow
 Deny

Targets
Specified target tags

Target tags *
postgres

Source filter
IPv4 ranges

Source IPv4 ranges *
0.0.0.0/0

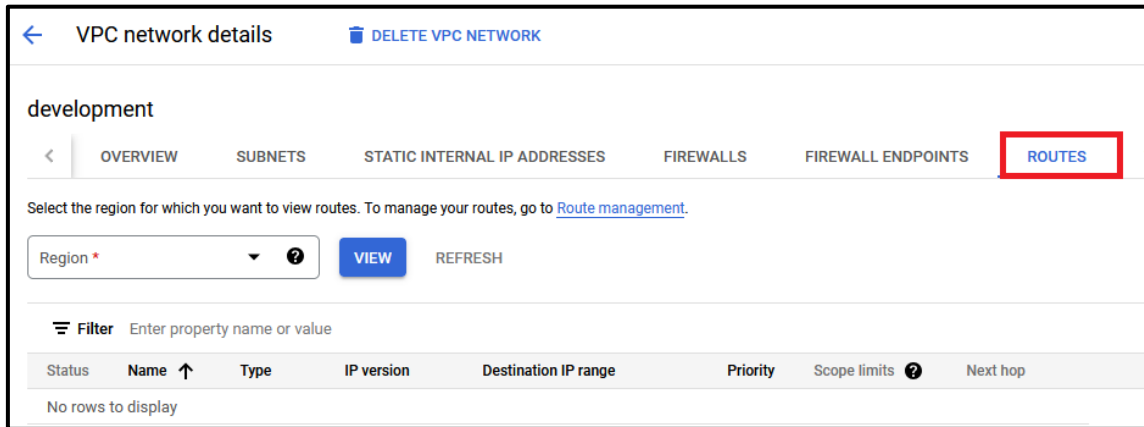
Second source filter
None

Destination filter
None

Protocols and ports ?
 Allow all
 Specified protocols and ports

TCP
Ports
5432

- Check the properties of the default route of the "development" network
- We select the "routes" tab.



VPC network details DELETE VPC NETWORK

development

OVERVIEW SUBNETS STATIC INTERNAL IP ADDRESSES FIREWALLS FIREWALL ENDPOINTS **ROUTES**

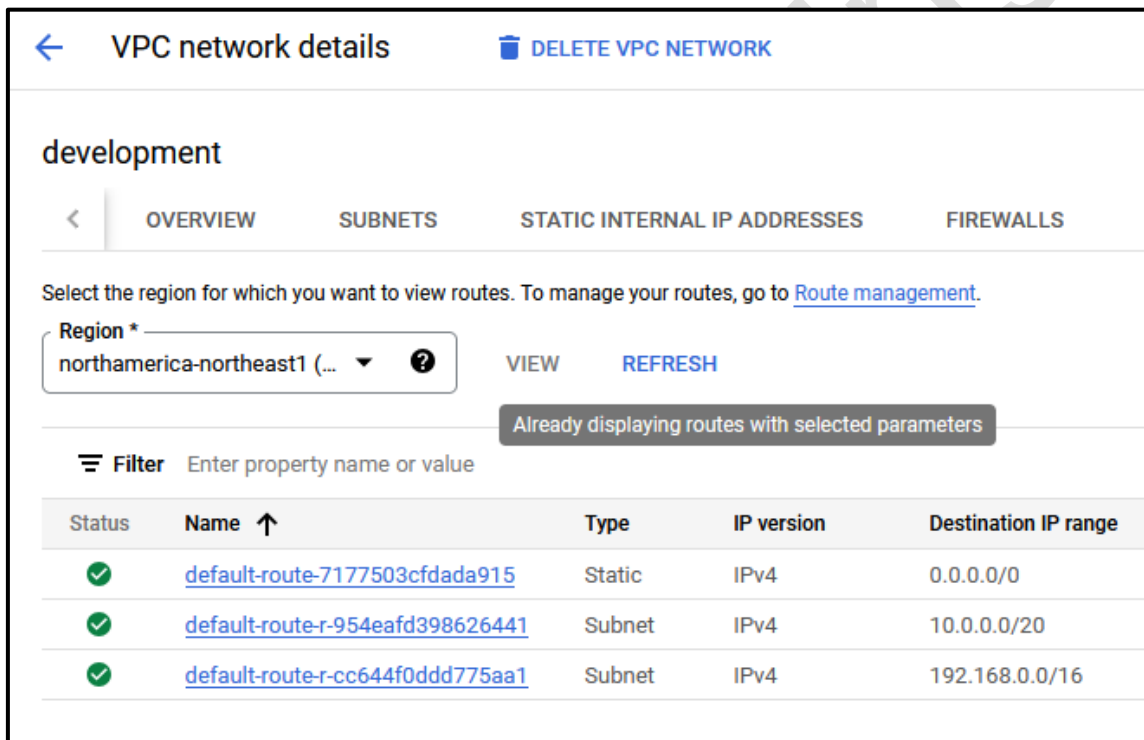
Select the region for which you want to view routes. To manage your routes, go to [Route management](#).

Region * VIEW REFRESH

Filter Enter property name or value

Status	Name ↑	Type	IP version	Destination IP range	Priority	Scope limits ?	Next hop
No rows to display							

- We select, for example, the first region and press View



VPC network details DELETE VPC NETWORK

development

OVERVIEW SUBNETS STATIC INTERNAL IP ADDRESSES FIREWALLS

Select the region for which you want to view routes. To manage your routes, go to [Route management](#).

Region * northamerica-northeast1 (...) VIEW REFRESH

Already displaying routes with selected parameters

Filter Enter property name or value

Status	Name ↑	Type	IP version	Destination IP range
✓	default-route-7177503cfdada915	Static	IPv4	0.0.0.0/0
✓	default-route-r-954eafd398626441	Subnet	IPv4	10.0.0.0/20
✓	default-route-r-cc644f0ddd775aa1	Subnet	IPv4	192.168.0.0/16

- We select the “default” route

←
Route details
🗑️ DELETE

previous page

default-route-7177503cfdada915

Description
Default route to the Internet.

Network
development

Route type
Static

IP version
IPv4

Destination IP address range
0.0.0.0/0

Priority
1000

Instance tags
This route applies to all instances within the specified network

Next hop
Default internet gateway

Applicable to instances

APR