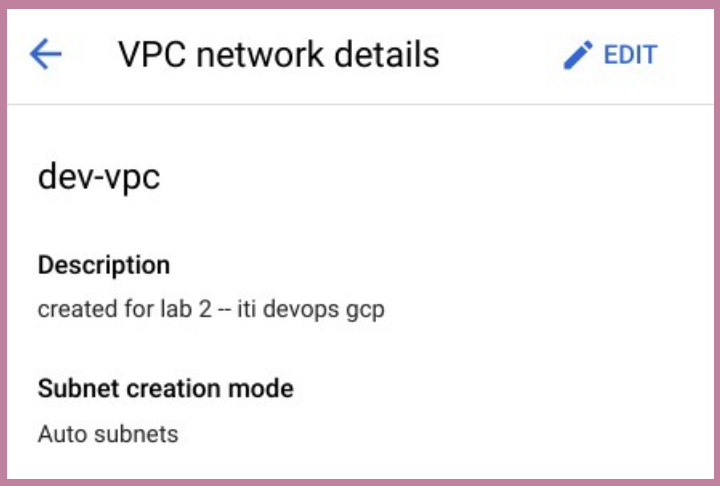
Lab2

1. Create a VPC with the automatic mode called “dev-vpc” and another one called “prod-vpc” with 2 subnets:
   - subneta => region -> us-east1, cidr -> 10.1.0.0/16
   - subnetb => region -> asia-east1, cide -> 192.168.1.0/24
2. Can we edit the vpc subnets after the creation?
3. Can you delete routes from “dev-vpc” region us-central1
4. Create all required firewall rules to allow your localhost to ssh and curl all instances in subneta
5. Block the internet reachability from dev-vpc
6. Create instance “server-1” in subneta with automation, apache installation and home page with txt “Hello GCP, this is $your_name”
7. Create instance “server-2” in subnetb which can ping “server-1” but can access to the internet
   * note: all servers are linux based

C2 General

q. what about region “us-east-7” that exists only in the default vpc subnets but cannot create a subnet there in my vpc ?

1. **Create two VPCs**
   1. **Create a VPC with the automatic mode called “dev-vpc”**



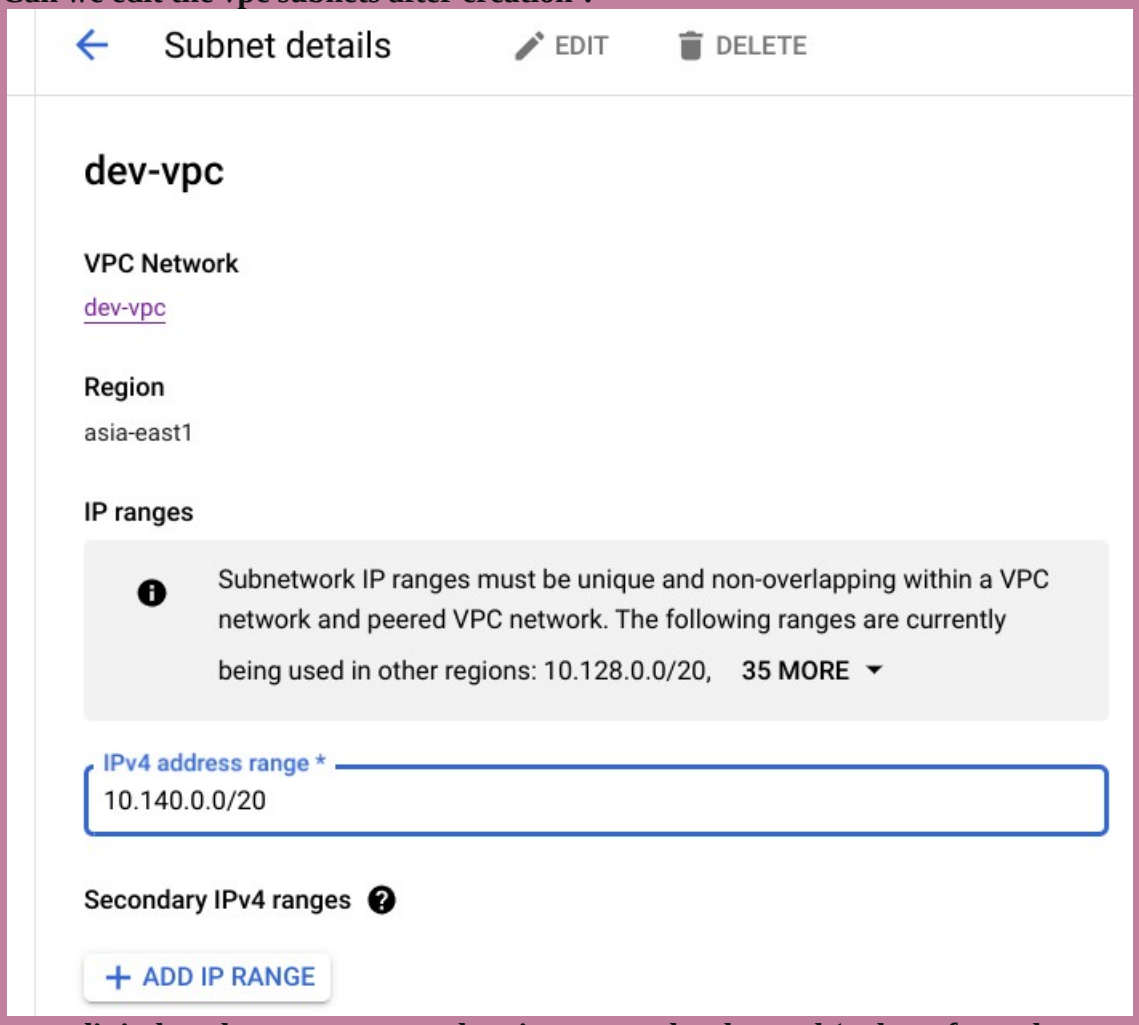
   2. **and another one called “prod-vpc” with 2 subnets:**
      1. **subnet-a ==> region (us-east1), CIDR (10.1.0.0/16)**
      2. **subnet-b ==> region (asia-east1), CIDR (192.168.1.0/24)**

VPC networks

Filter Enter property name or value

Name	Subnets	MTU	Mode	Internal IP ranges	Gateways	Firewall rules	Global dynamic routing
default	38	1460	Auto			4	Off
dev-vpc	37	1460	Auto			1	Off
prod-vpc	2	1460	Custom			1	Off

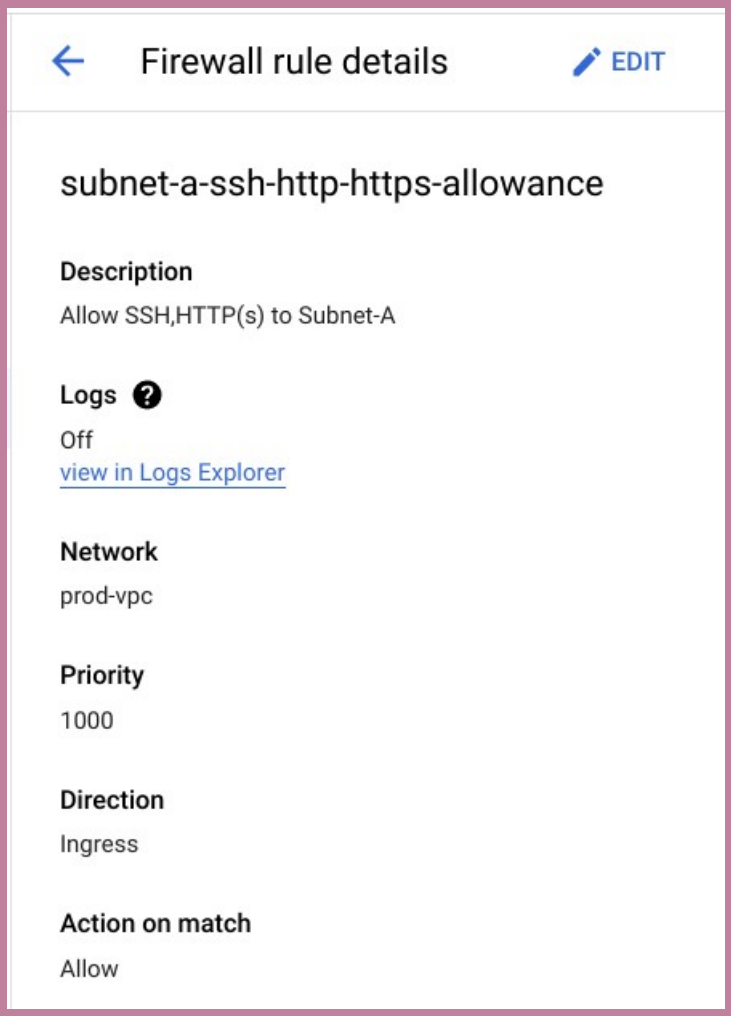
2. **Can we edit the vpc subnets after creation ?**

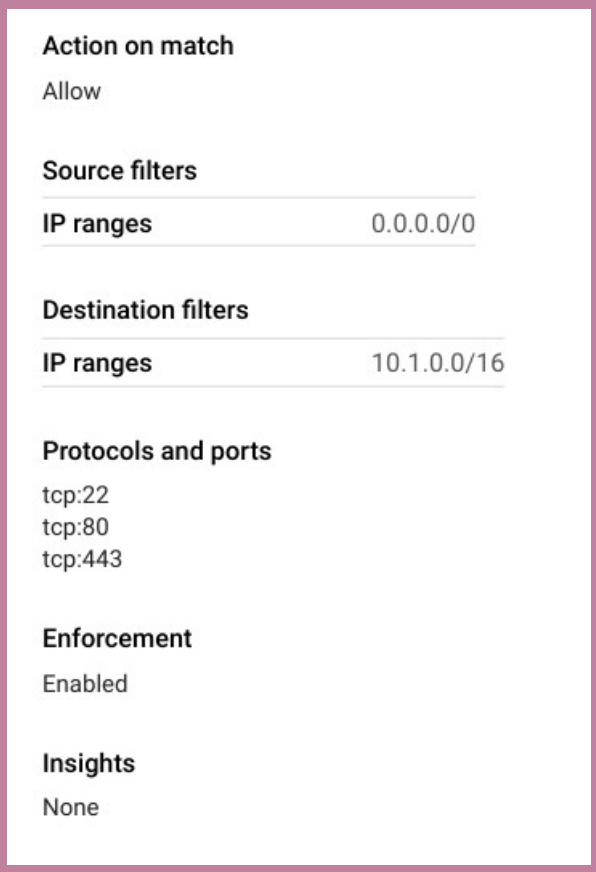


Yes we can edit it, but the name, vpc, and region cannot be changed (at least from the console)

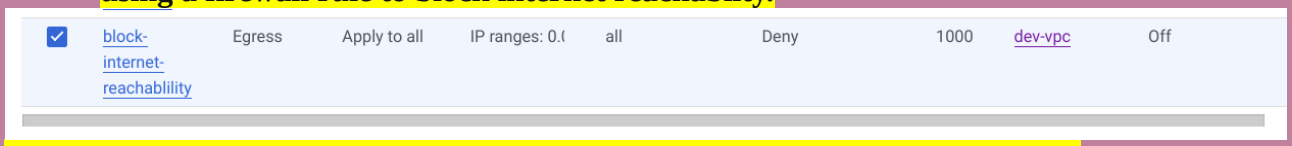
3. **Can you delete routes from "dev-vpc" region us-central1**
   I cannot delete subnet routes
   (but can delete static routes freely that are children of the vpc not the subnet.)

4. **Create all required firewall rules to allow your localhost to ssh and curl all instances in subnet-a.**

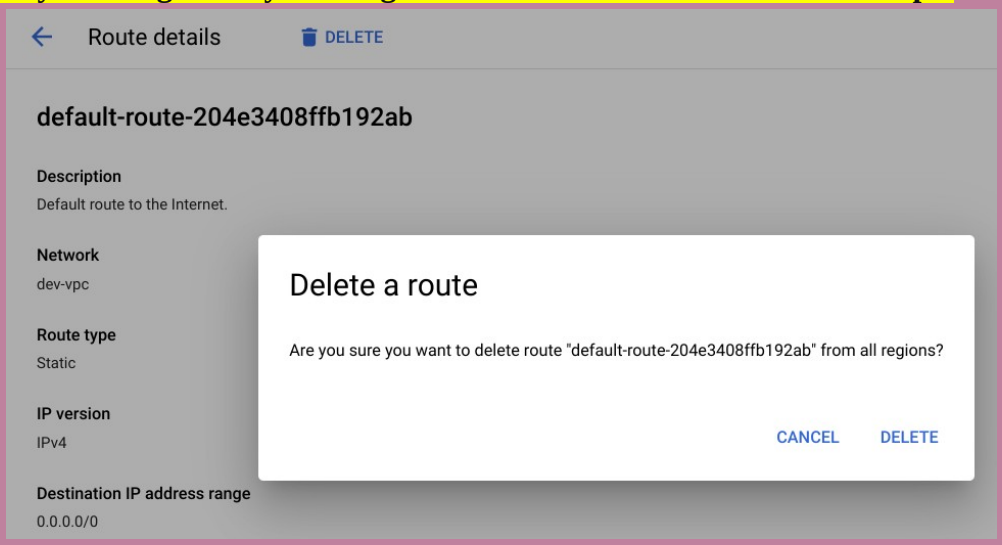




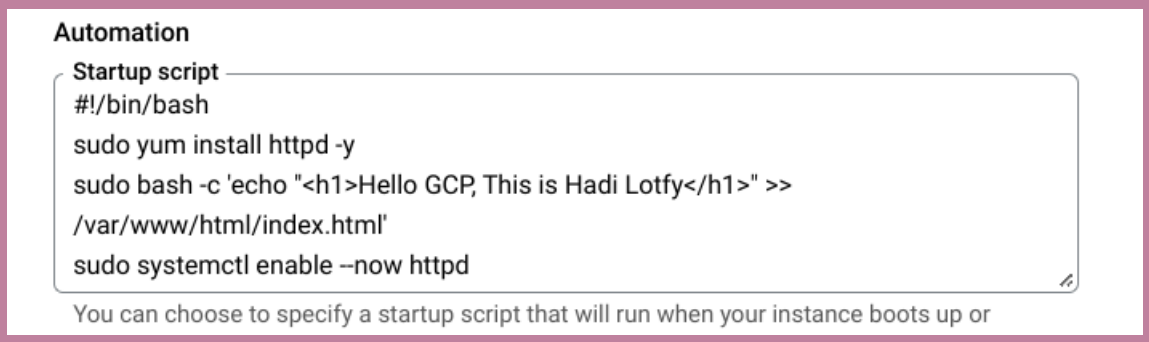
5. **Block the internet reachability from dev-vpc**
using a firewall rule to block internet reachablity.

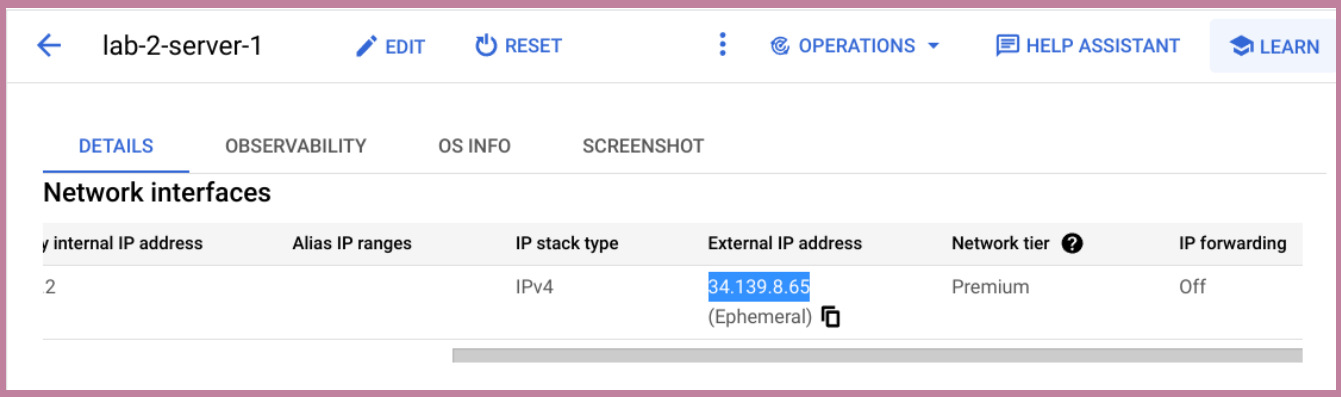


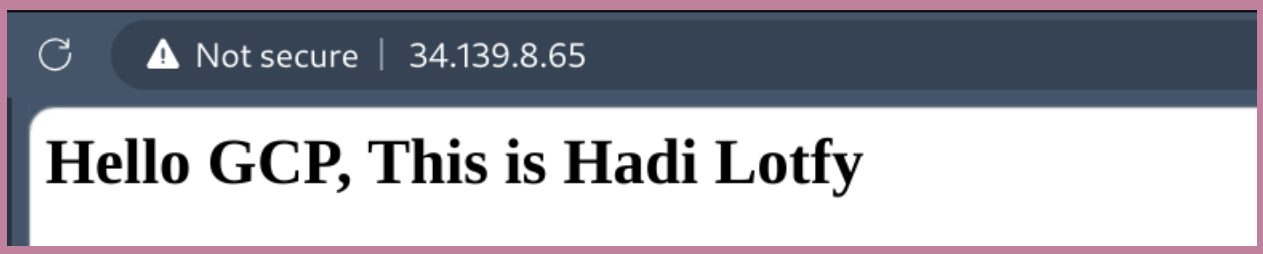
Another way of doing so is by deleting the “default internet route from the vpc.



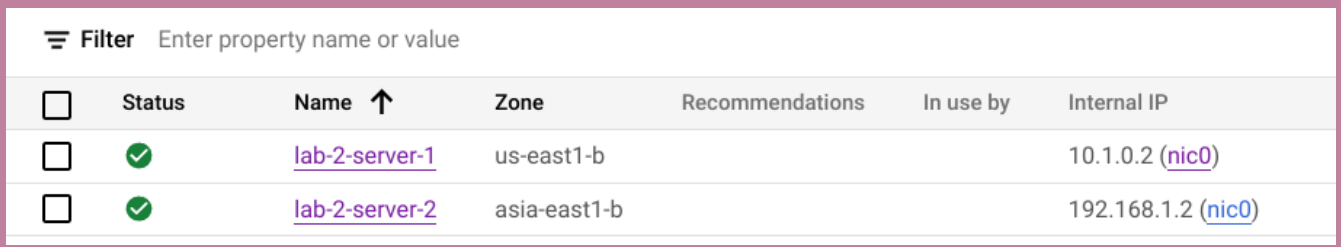
6. **Create instance “server-1” in subnet-a with automation for apache installation and home page with txt “Hello GCP, this is “Hadi Lotfy”.**







7. **Create instance “server-2” in subnet-b which can ping “server-1” but can not access to the internet.**



Fire wall rules to prevent internet access and to allow ping to subnet-a instances.