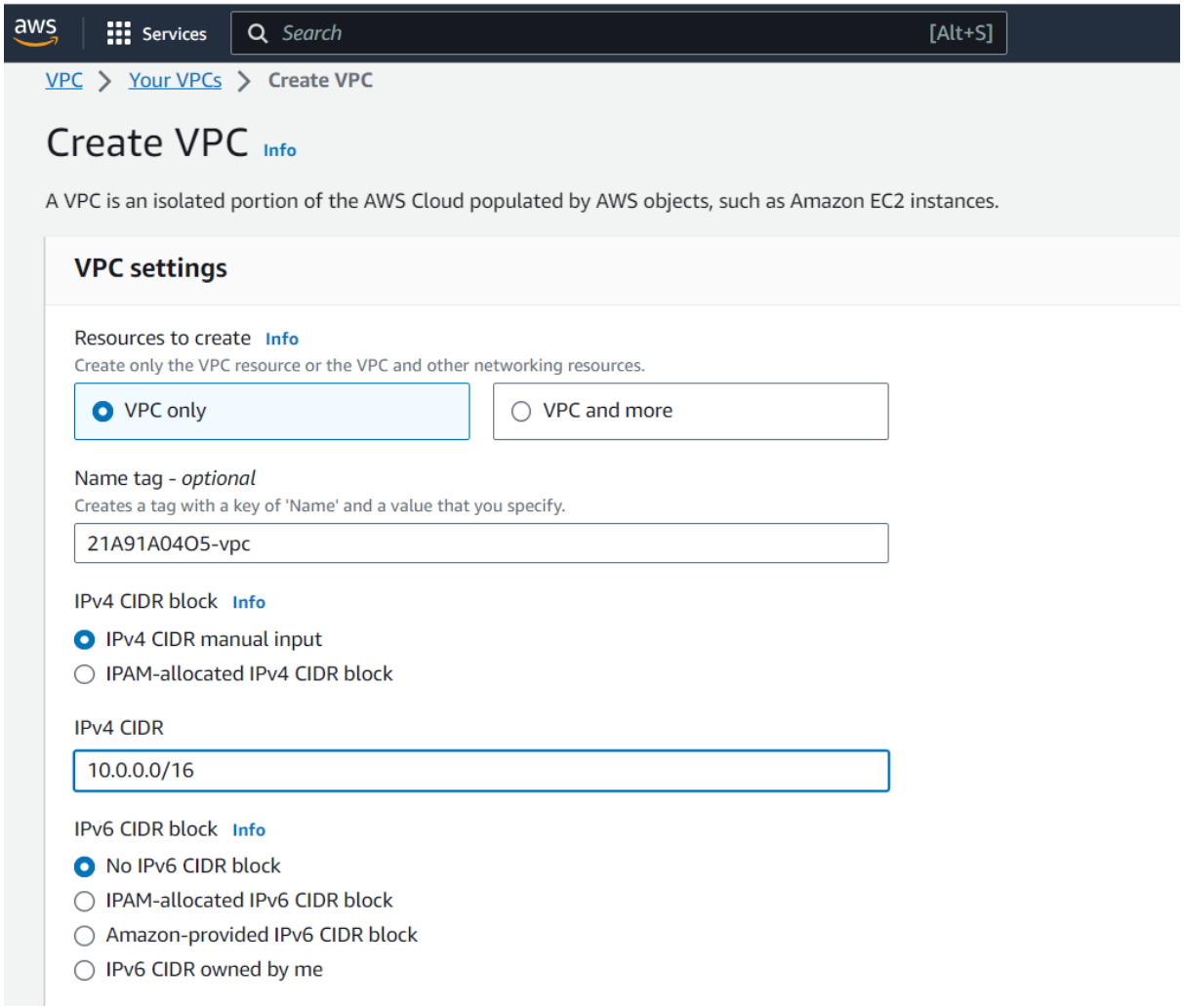
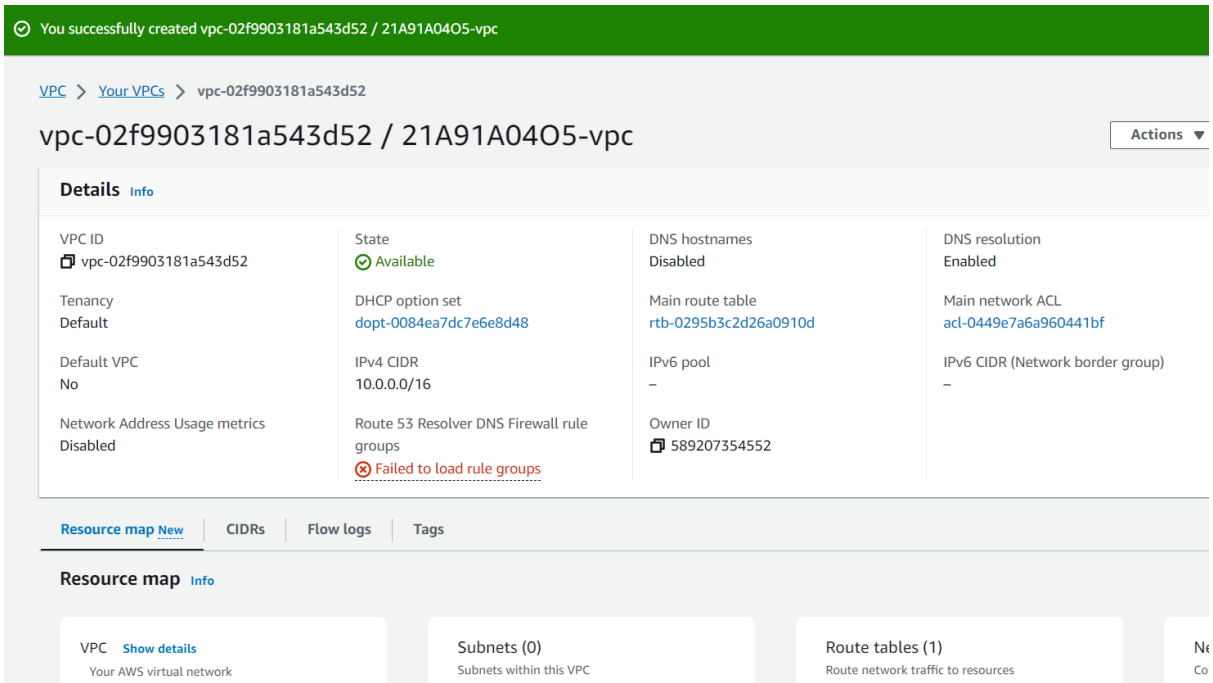
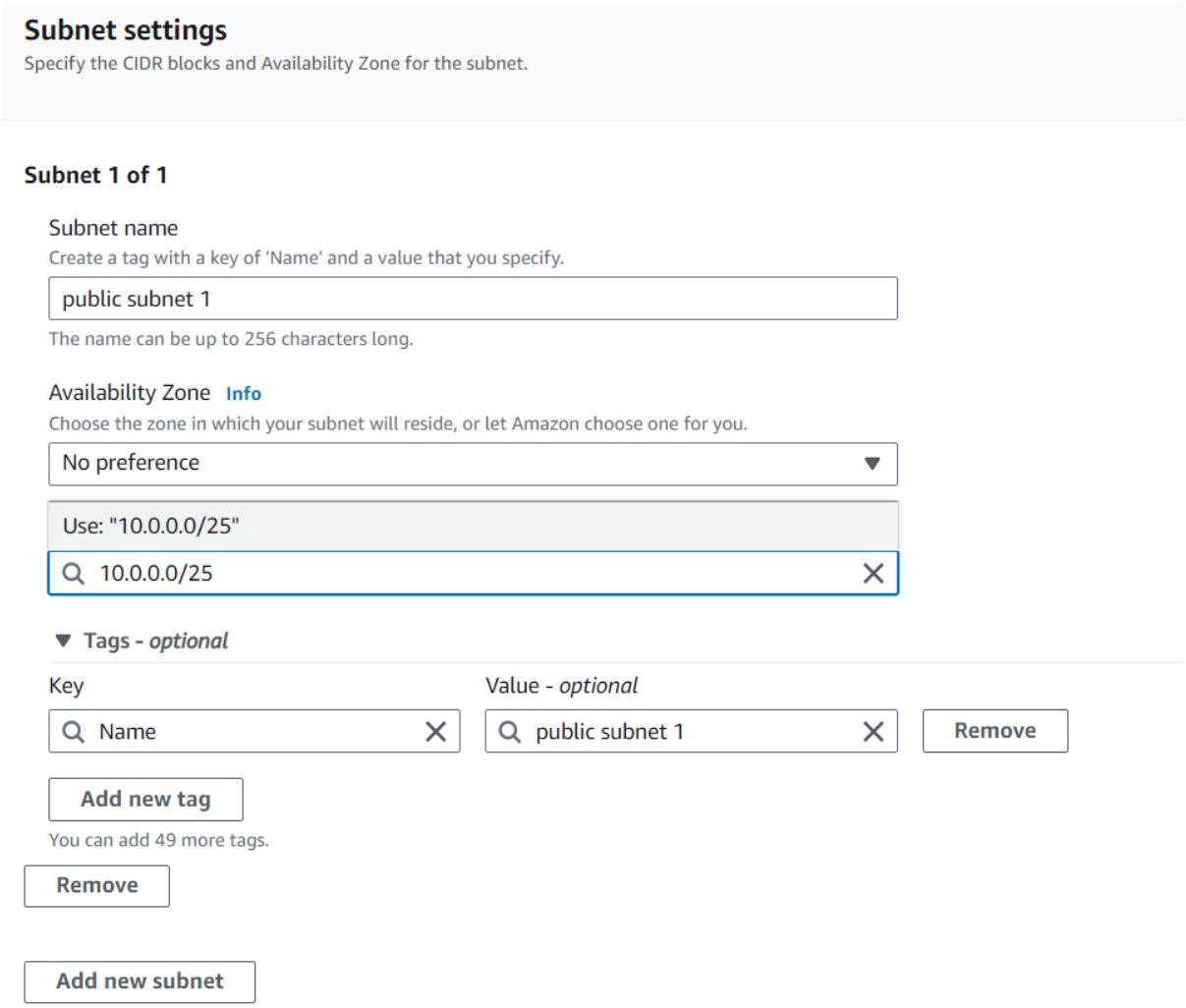
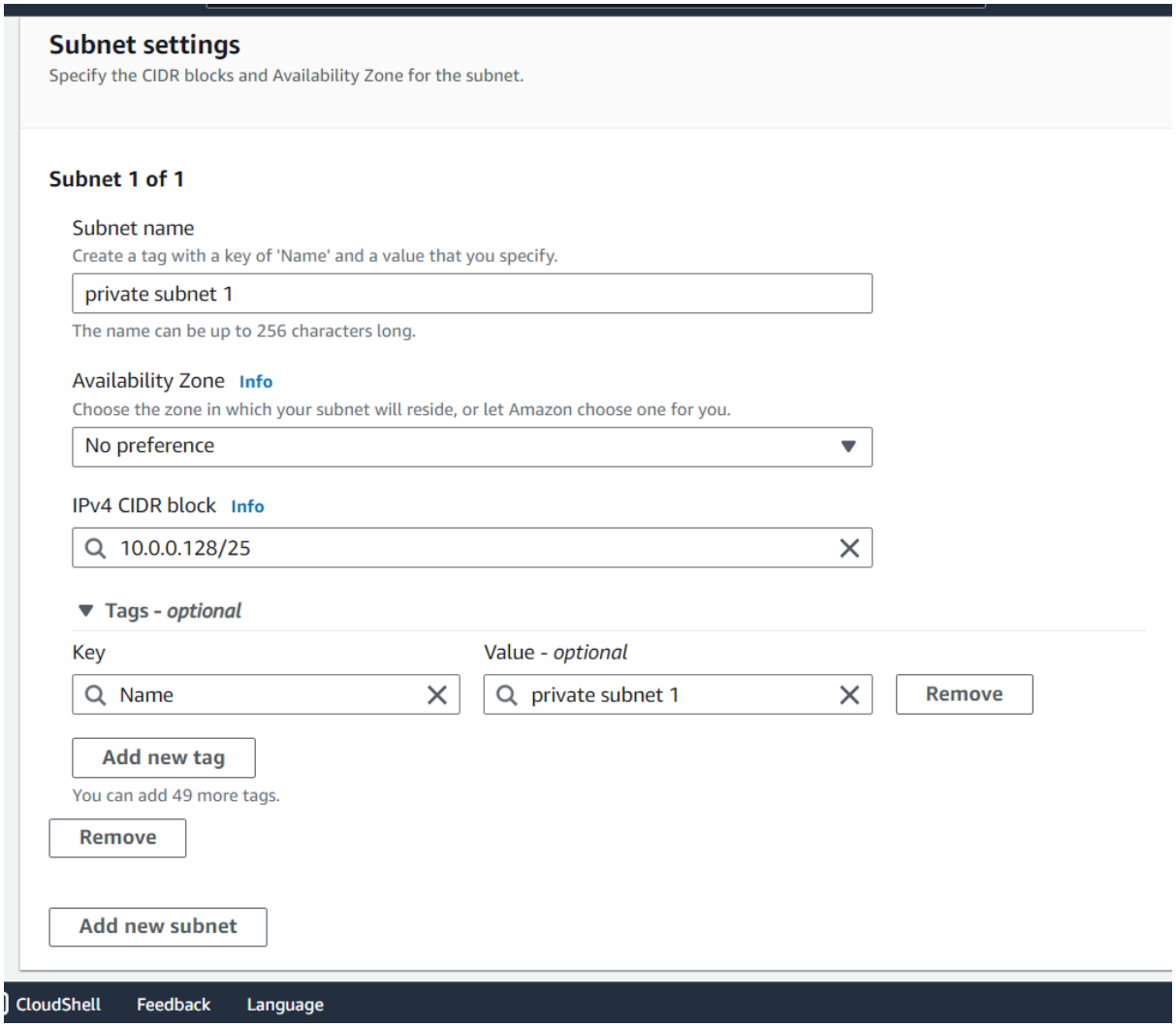
VPC creation:



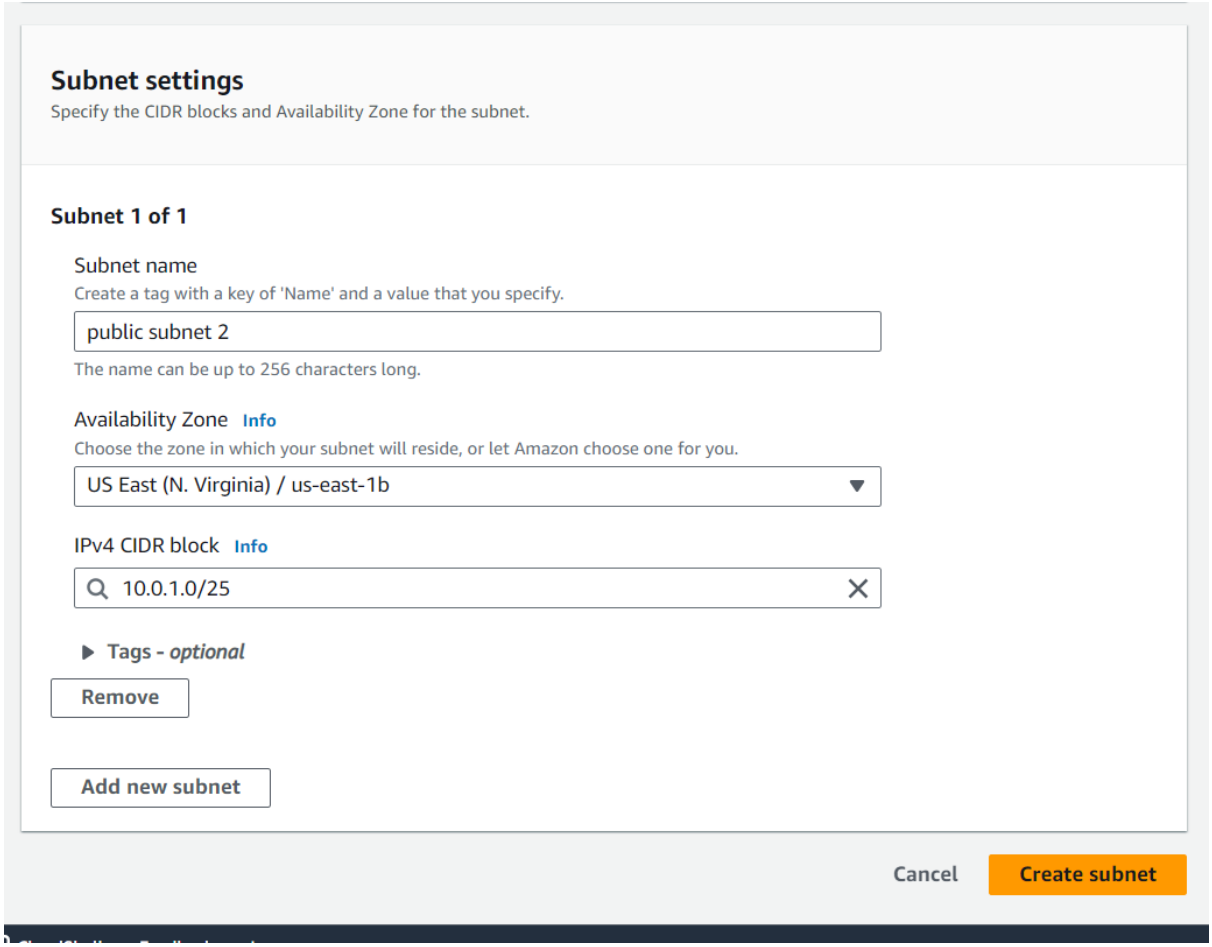


Create subnets for Availability Zone A in 10.0.0.0/25 and 10.0.0.128/25 :




Subnet settings
Specify the CIDR blocks and Availability Zone for the subnet.
Subnet 1 of 1
Subnet name
Create a tag with a key of 'Name' and a value that you specify.
private subnet 1
The name can be up to 256 characters long.
Availability Zone Info
Choose the zone in which your subnet will reside, or let Amazon choose one for you.
No preference
IPv4 CIDR block Info
10.0.0.128/25
Tags - optional
Key
Value - optional
Name
private subnet 1
Remove
Add new tag
You can add 49 more tags.
Remove
Add new subnet
CloudShell
Feedback
Language

Create subnets for Availability Zone B in 10.0.1.0/25 and 10.0.1.128/25 :



Subnet settings

Specify the CIDR blocks and Availability Zone for the subnet.

Subnet 1 of 1

Subnet name

Create a tag with a key of 'Name' and a value that you specify.

private subnet 2

The name can be up to 256 characters long.

Availability Zone Info

Choose the zone in which your subnet will reside, or let Amazon choose one for you.

No preference

IPv4 CIDR block Info

10.0.1.128/25

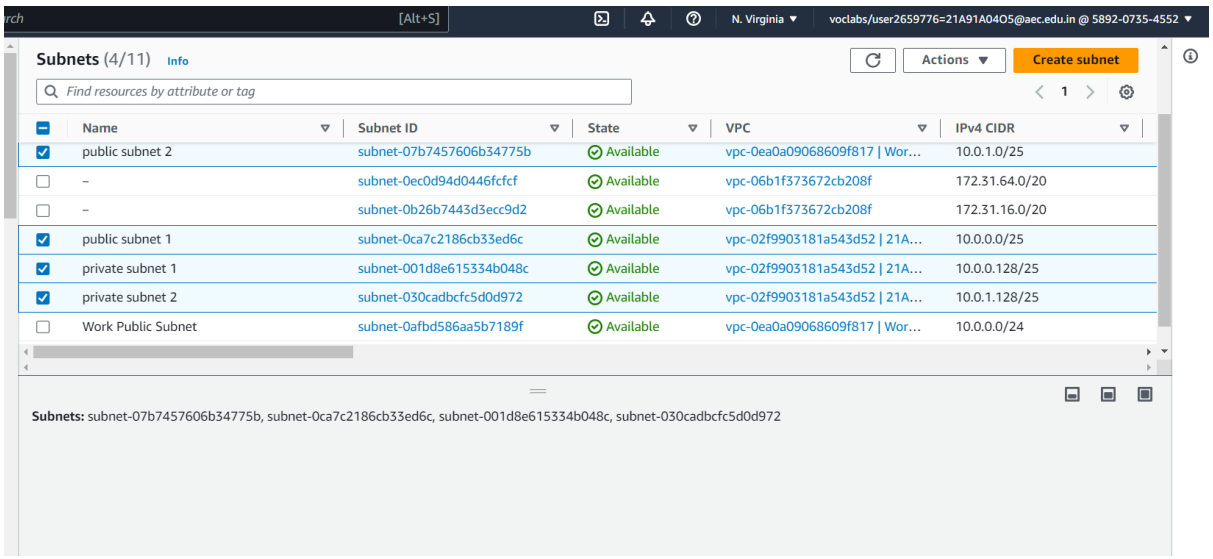
▶ Tags - *optional*

Remove

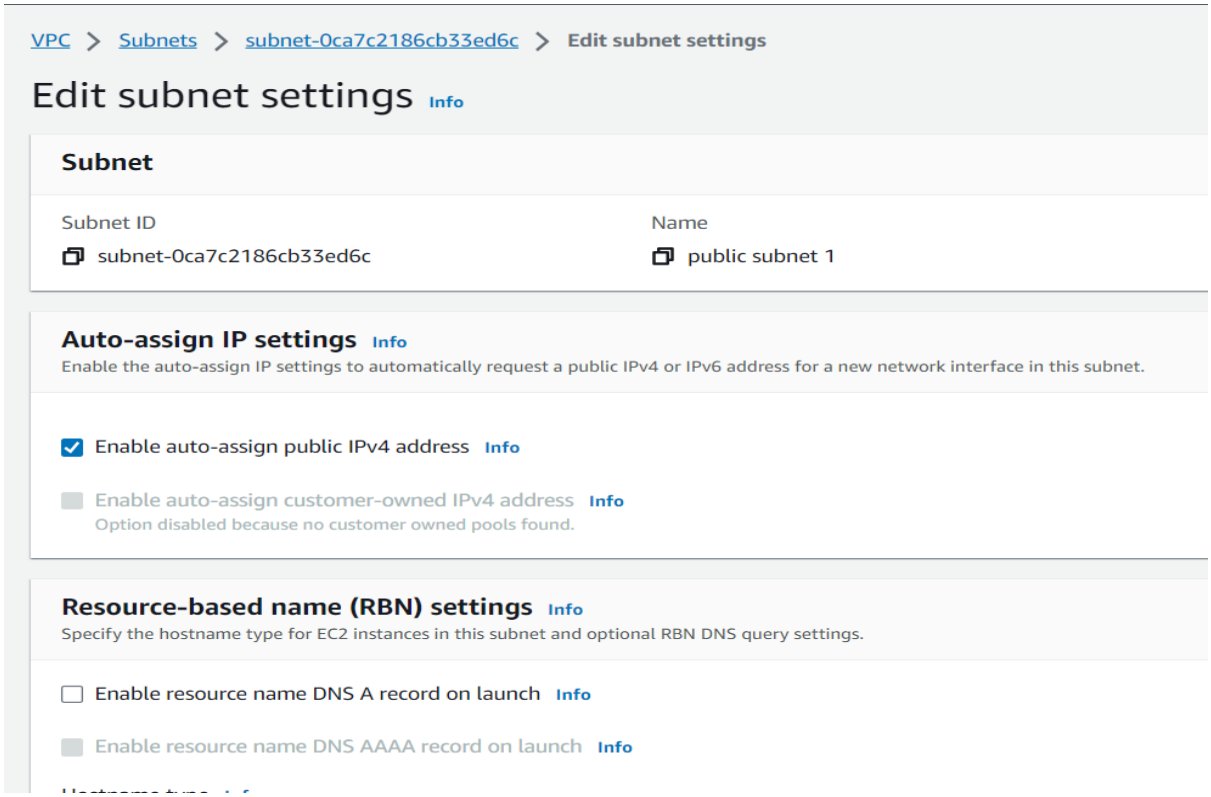
Add new subnet

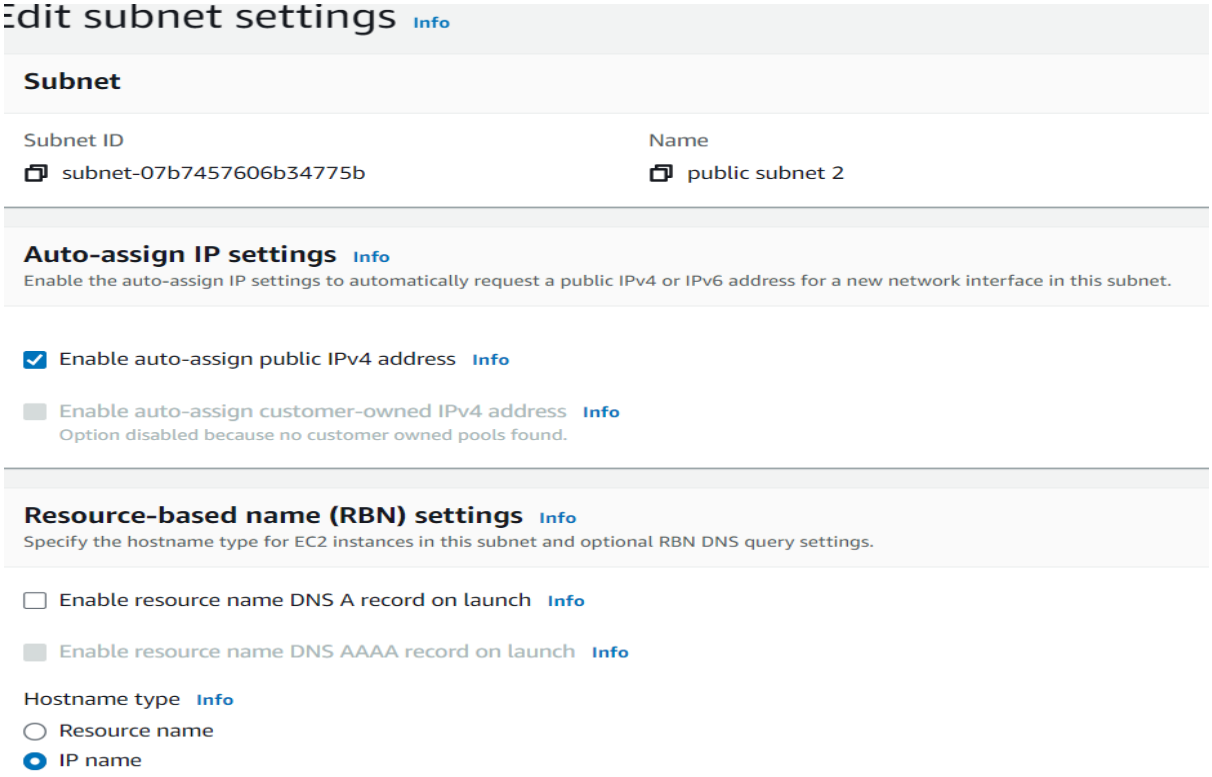
Cancel | Create subnet

Four subnets created

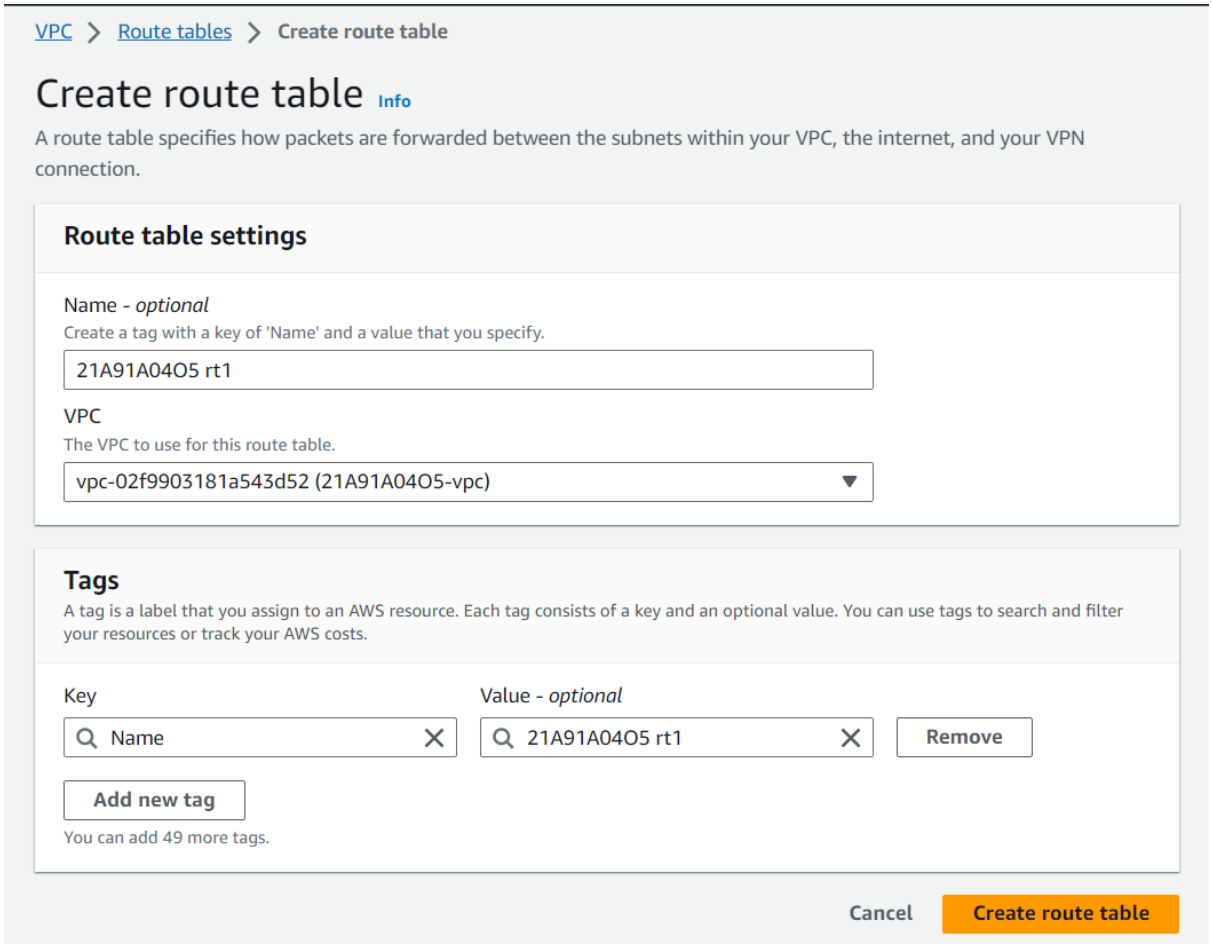


Make private subnets to public :

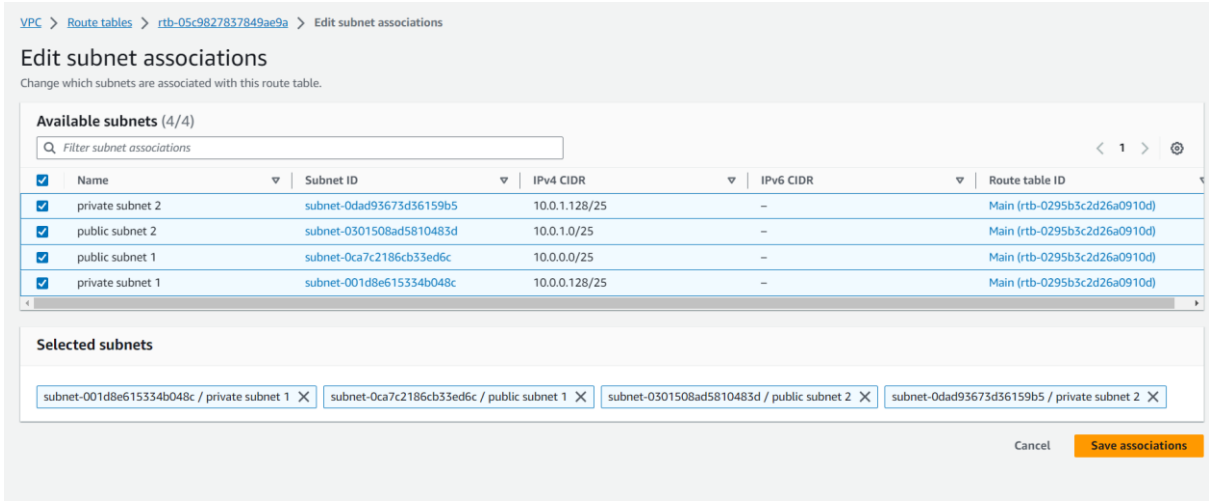




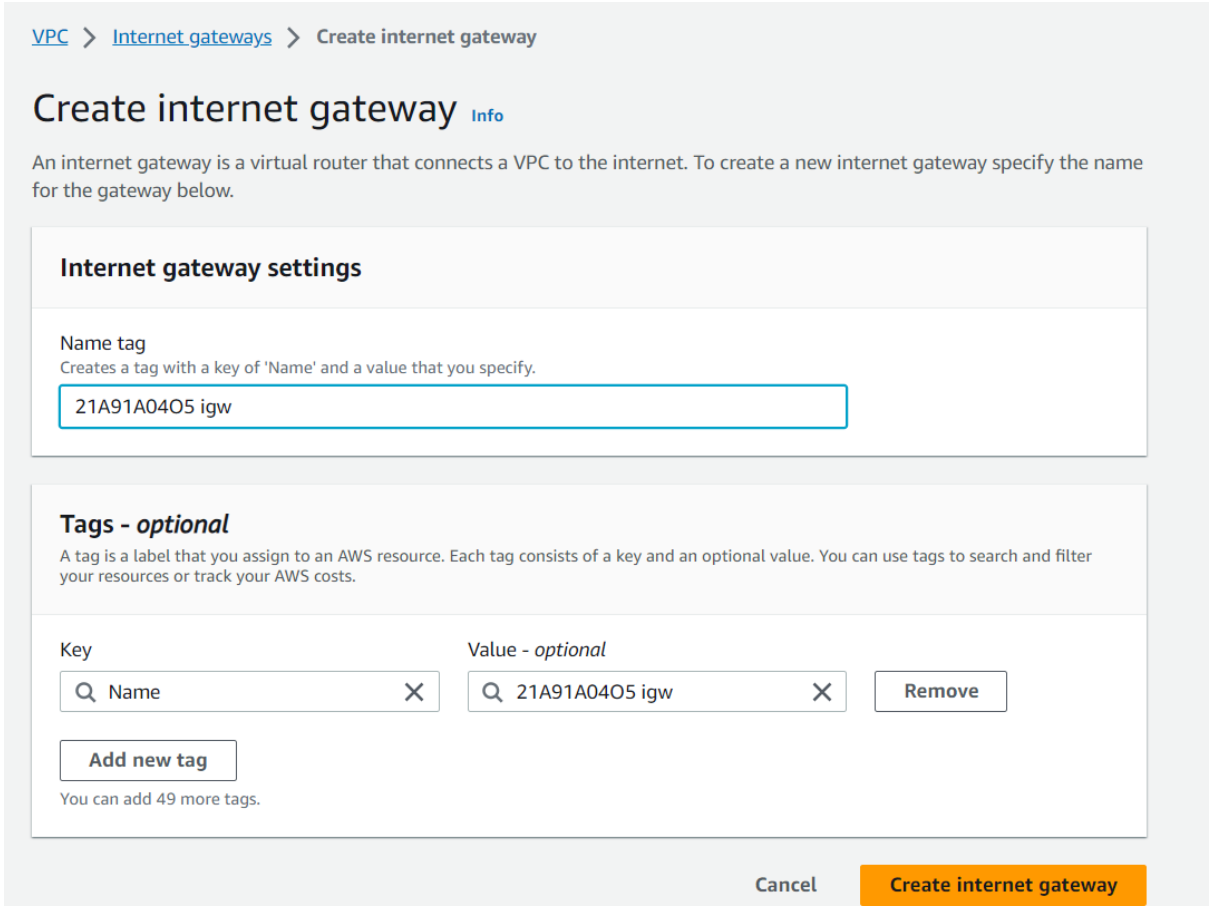
Create route table :



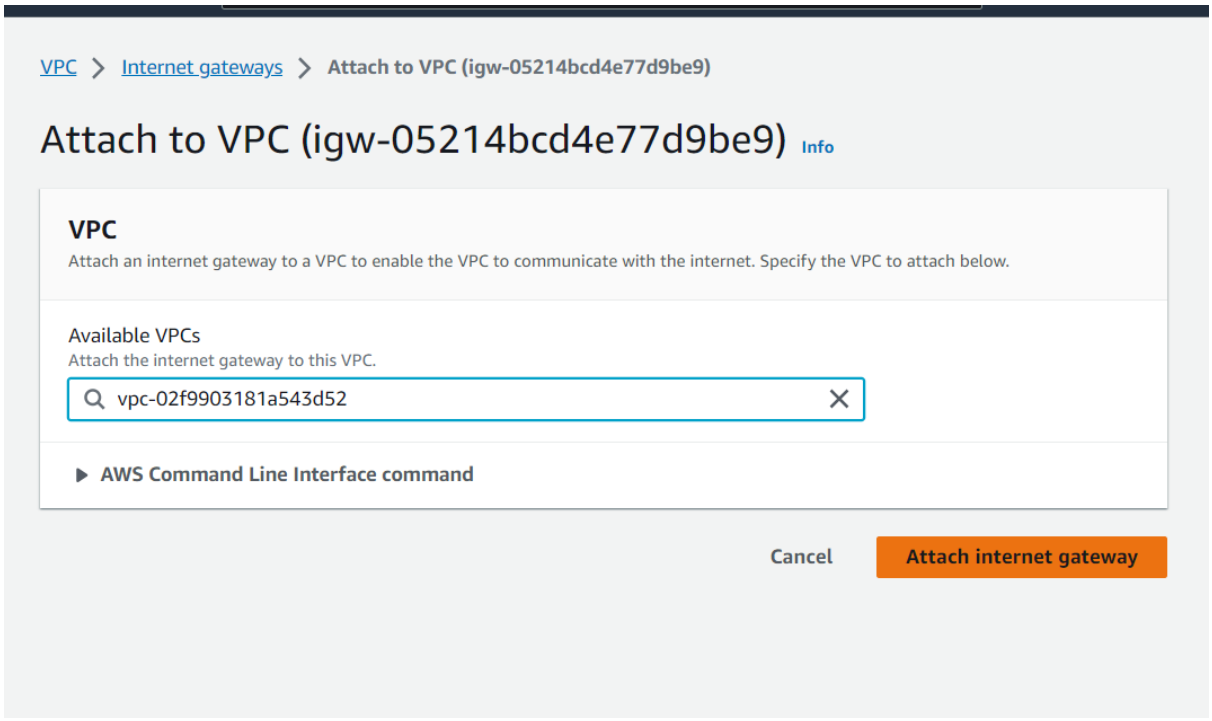
Associate subnets :



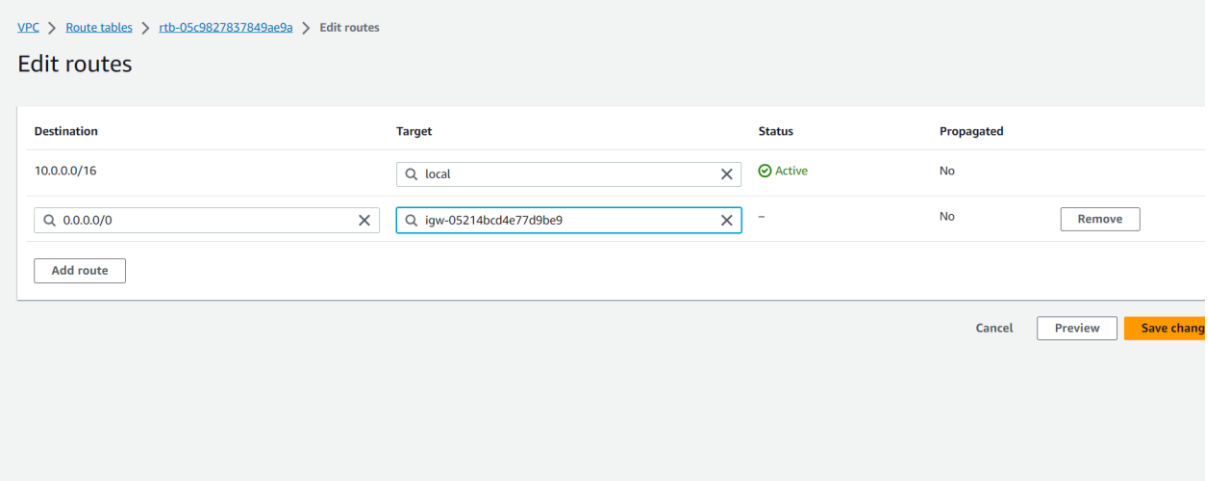
Create Internet Gateway :



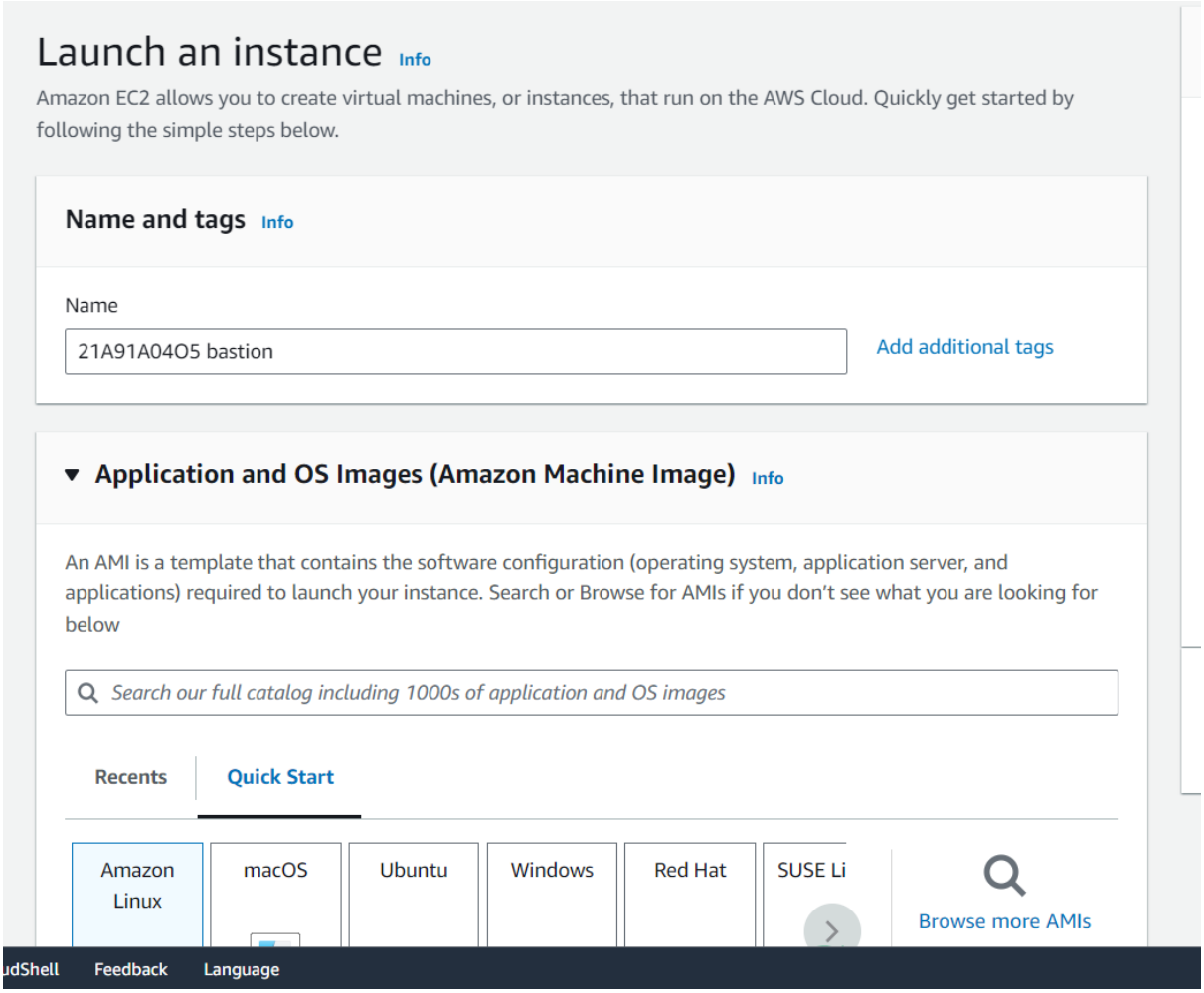
Attach to VPC :



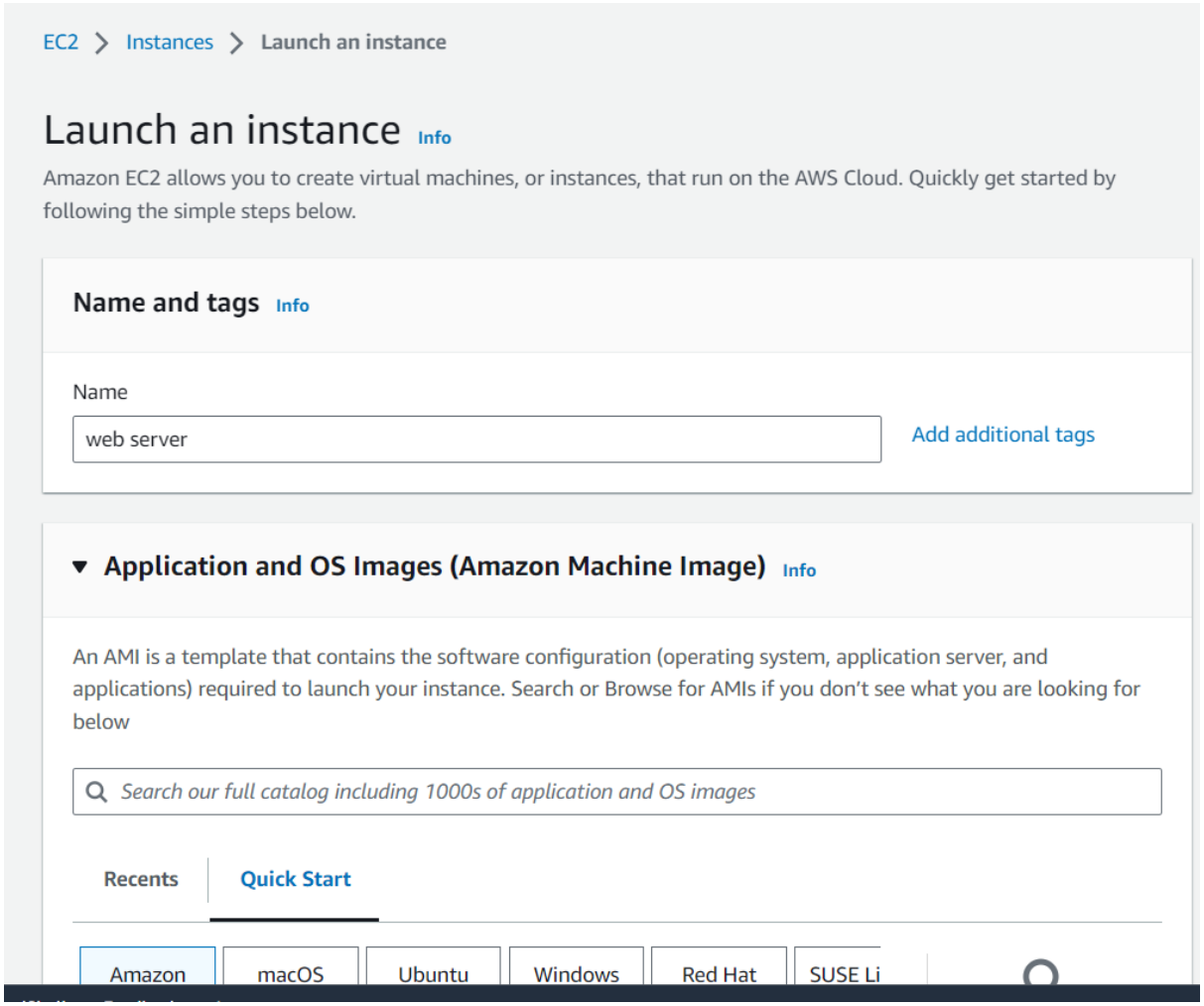
Add Internet Gateway to route to enable internet connection:



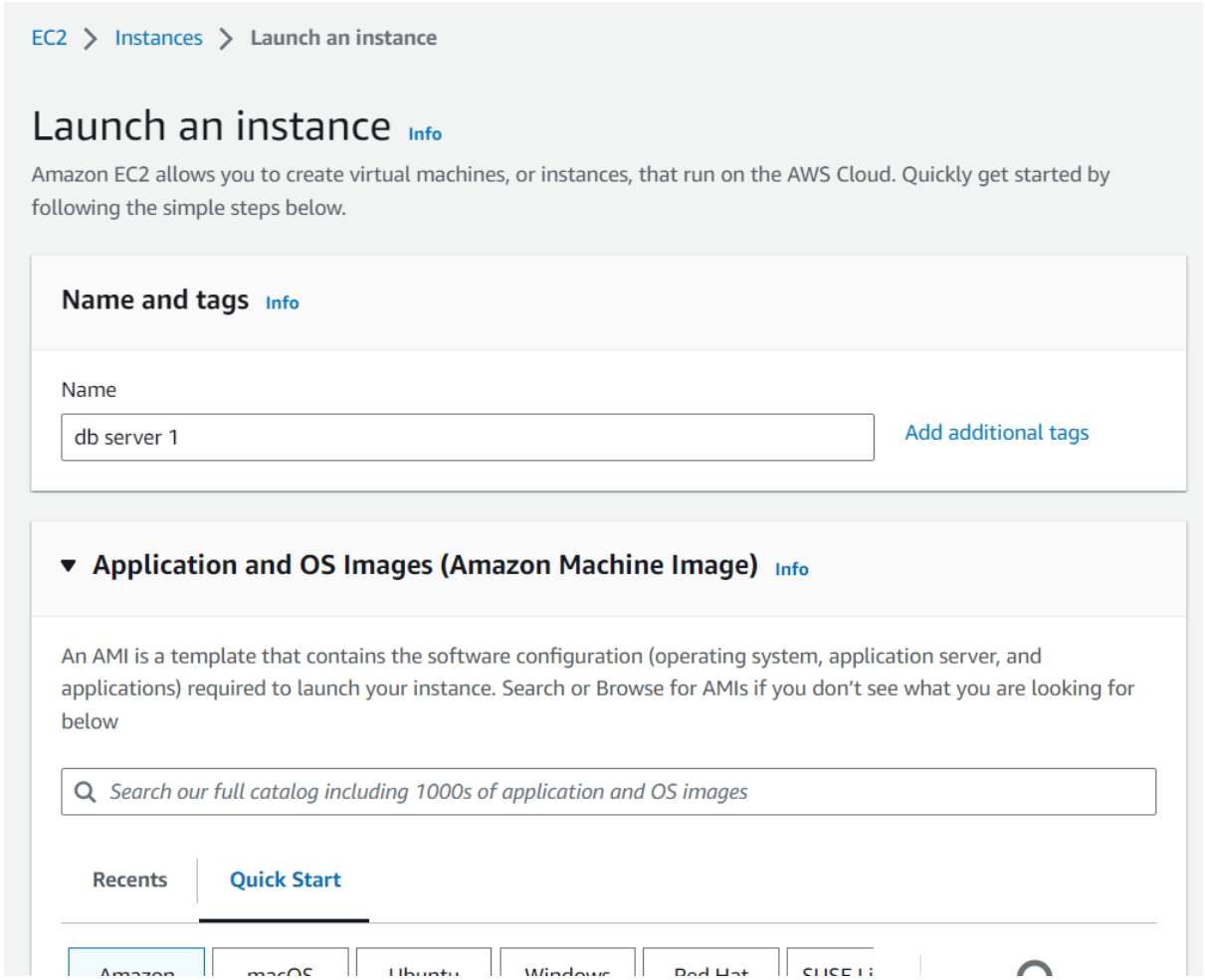
Launch bastion host in AZ A:



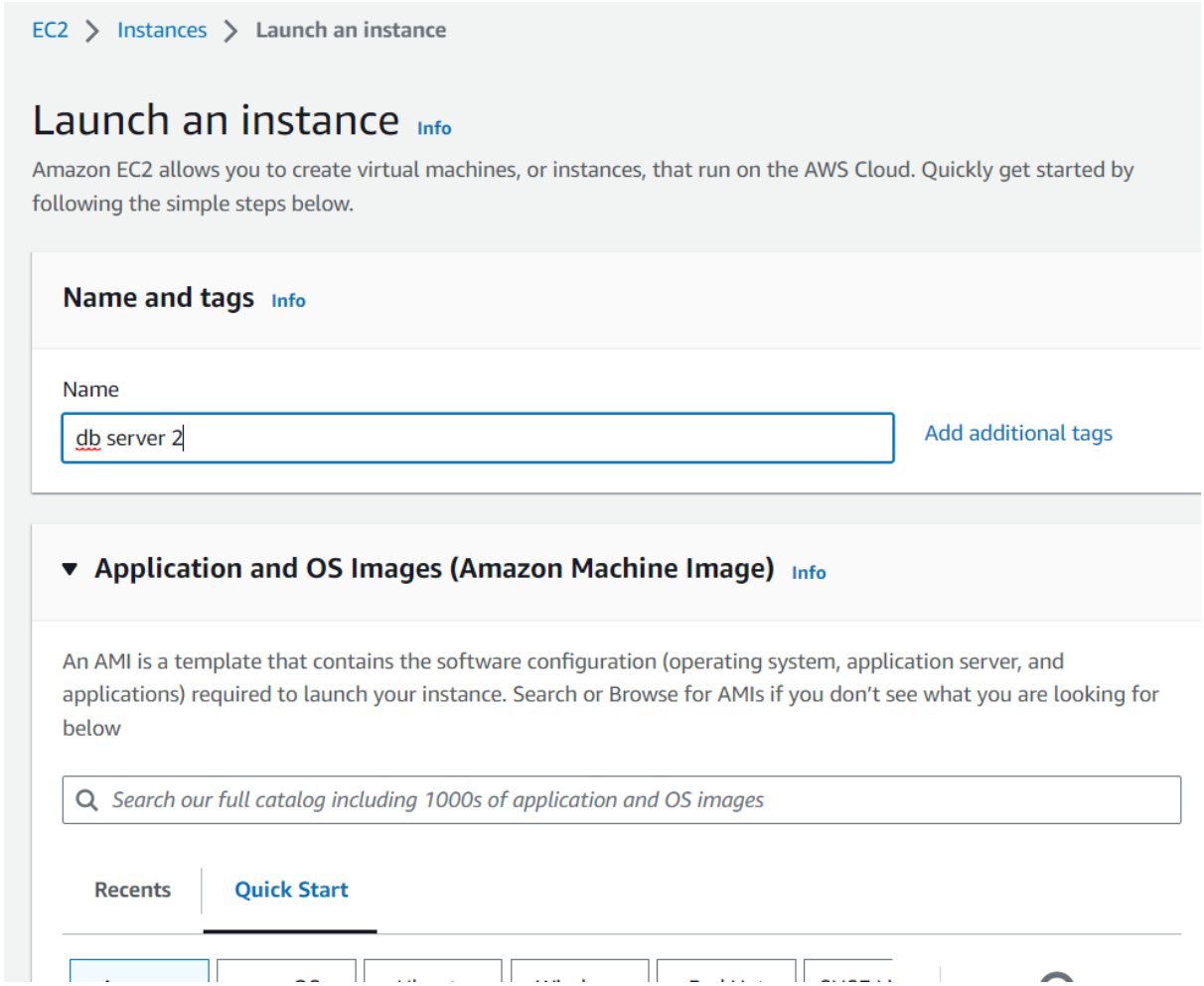
Launch instance for public server in AZ B :



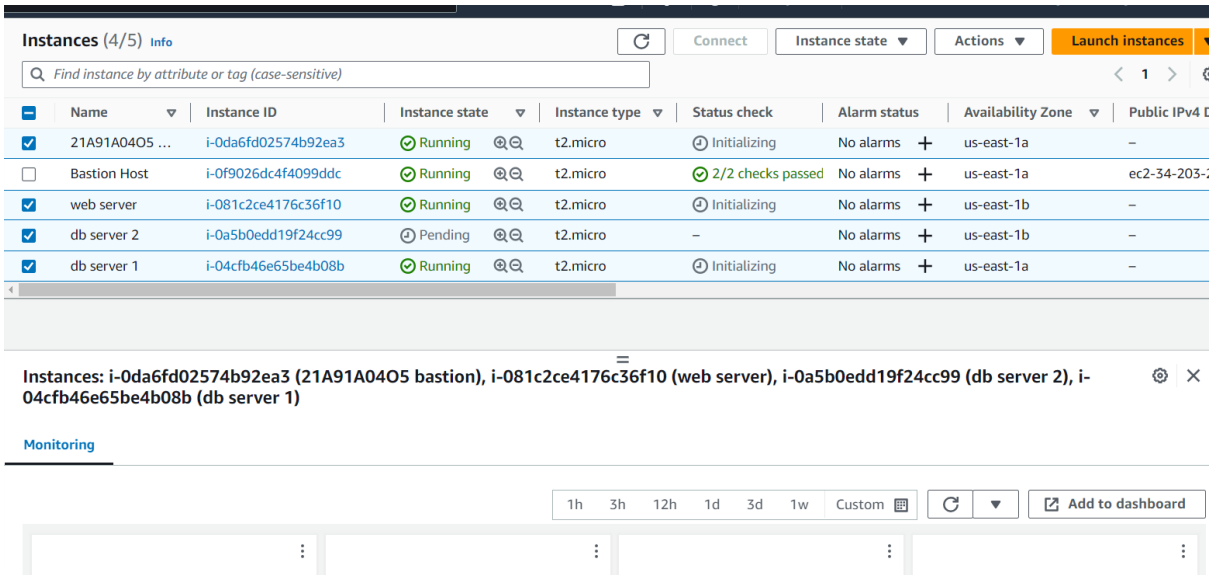
Launch instance for private server 1 in AZ A :



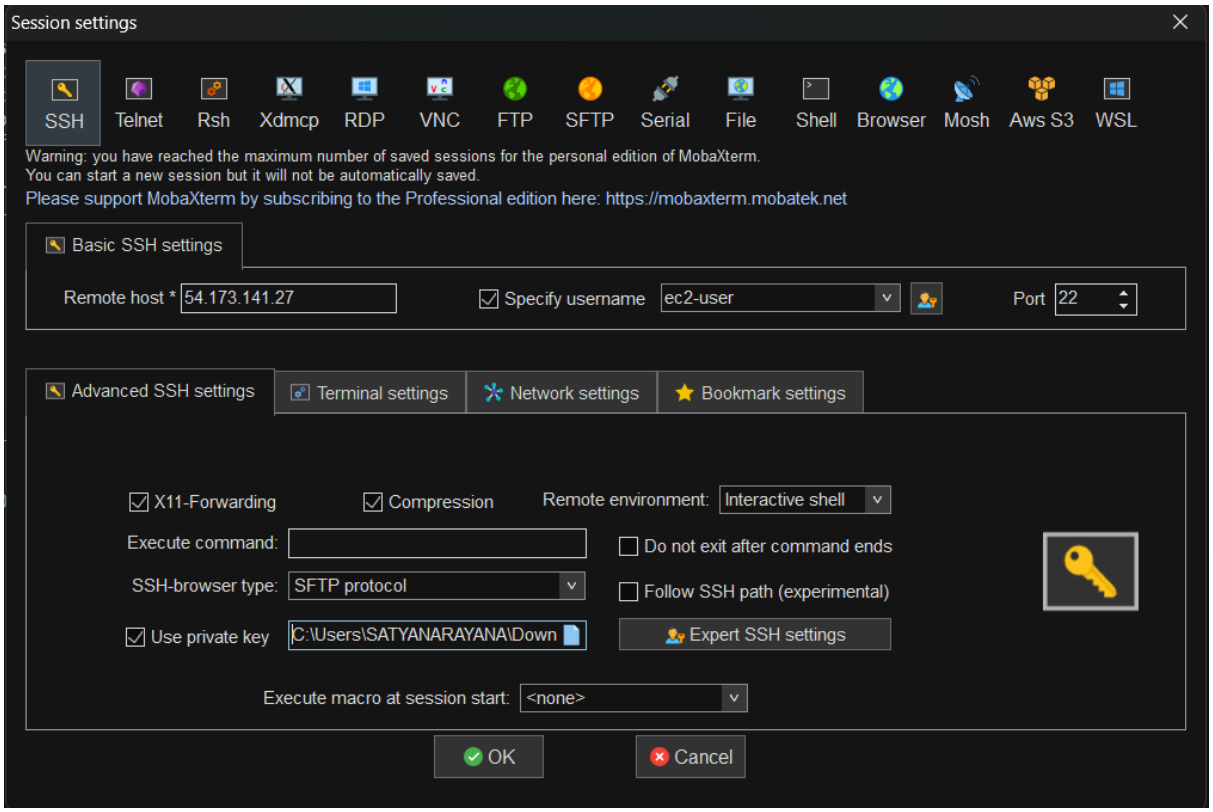
Launch instance for private server 2 in AZ B :

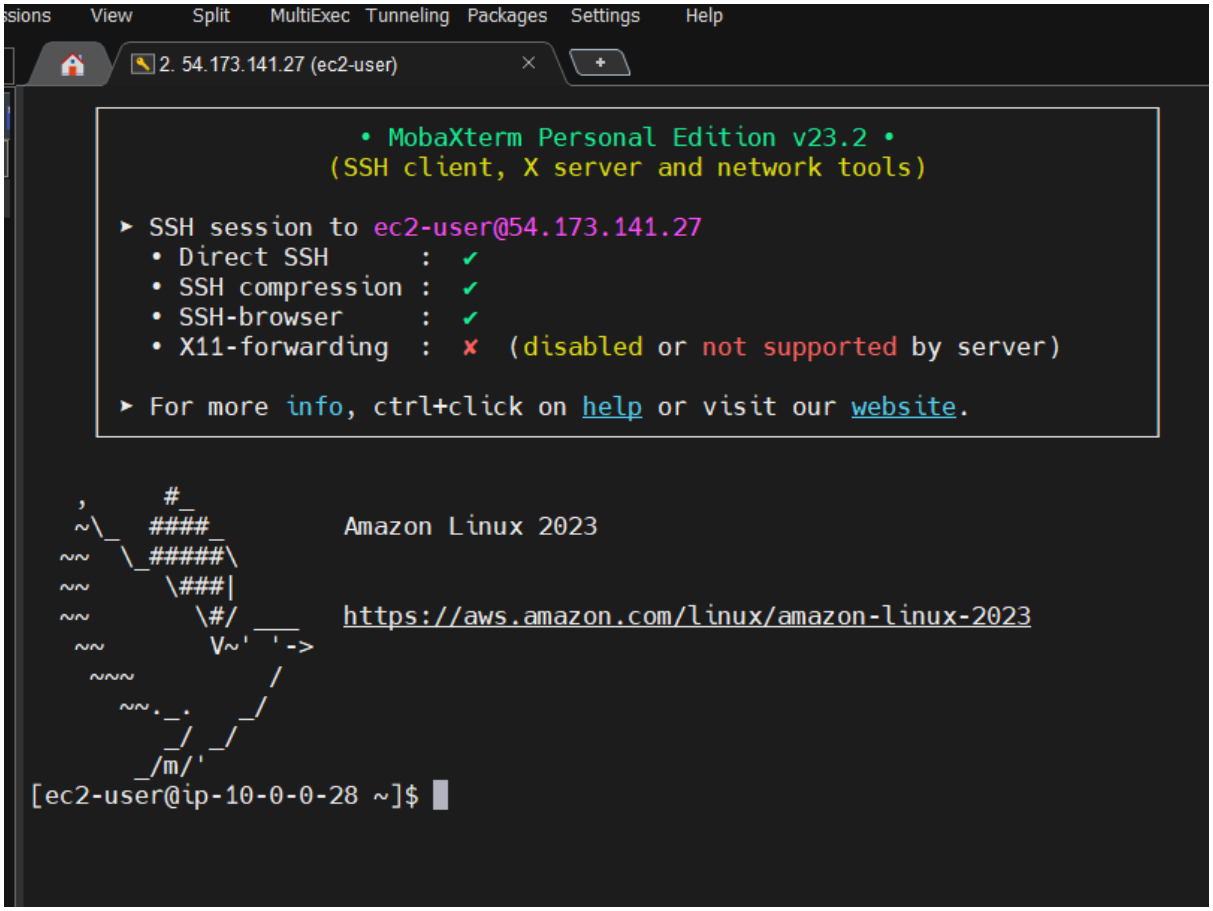


All instances are created

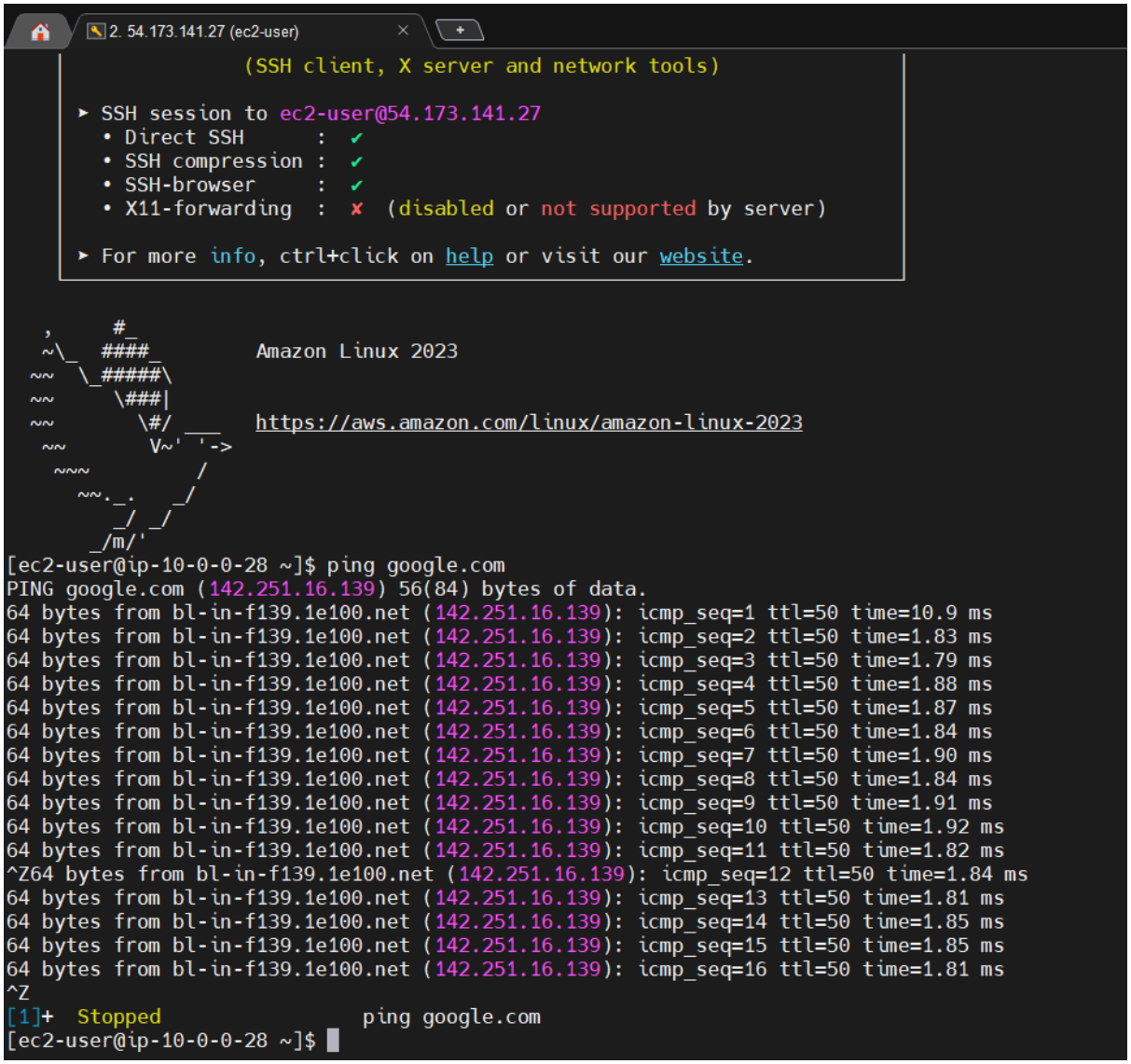


Connect bastion host :

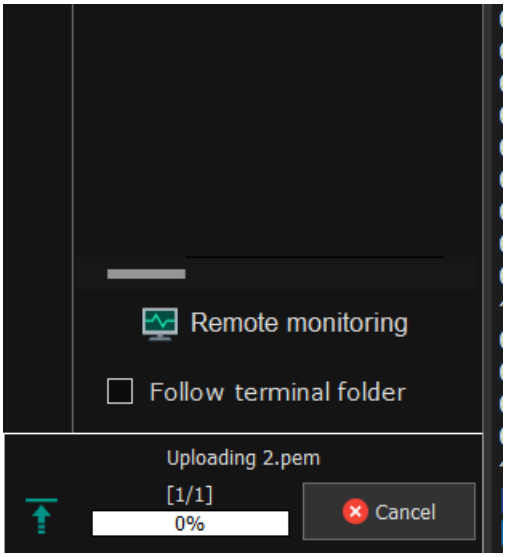



ssions View Split MultiExec Tunneling Packages Settings Help
2. 54.173.141.27 (ec2-user)
• MobaXterm Personal Edition v23.2 •
(SSH client, X server and network tools)
▸ SSH session to ec2-user@54.173.141.27
• Direct SSH : ✔
• SSH compression : ✔
• SSH-browser : ✔
• X11-forwarding : ✘ (disabled or not supported by server)
▸ For more info, ctrl+click on help or visit our website.
Amazon Linux 2023
https://aws.amazon.com/linux/amazon-linux-2023
[ec2-user@ip-10-0-0-28 ~]$

It is getting pinged so it is a public server :



To connect the private server from bastion host upload key pair :



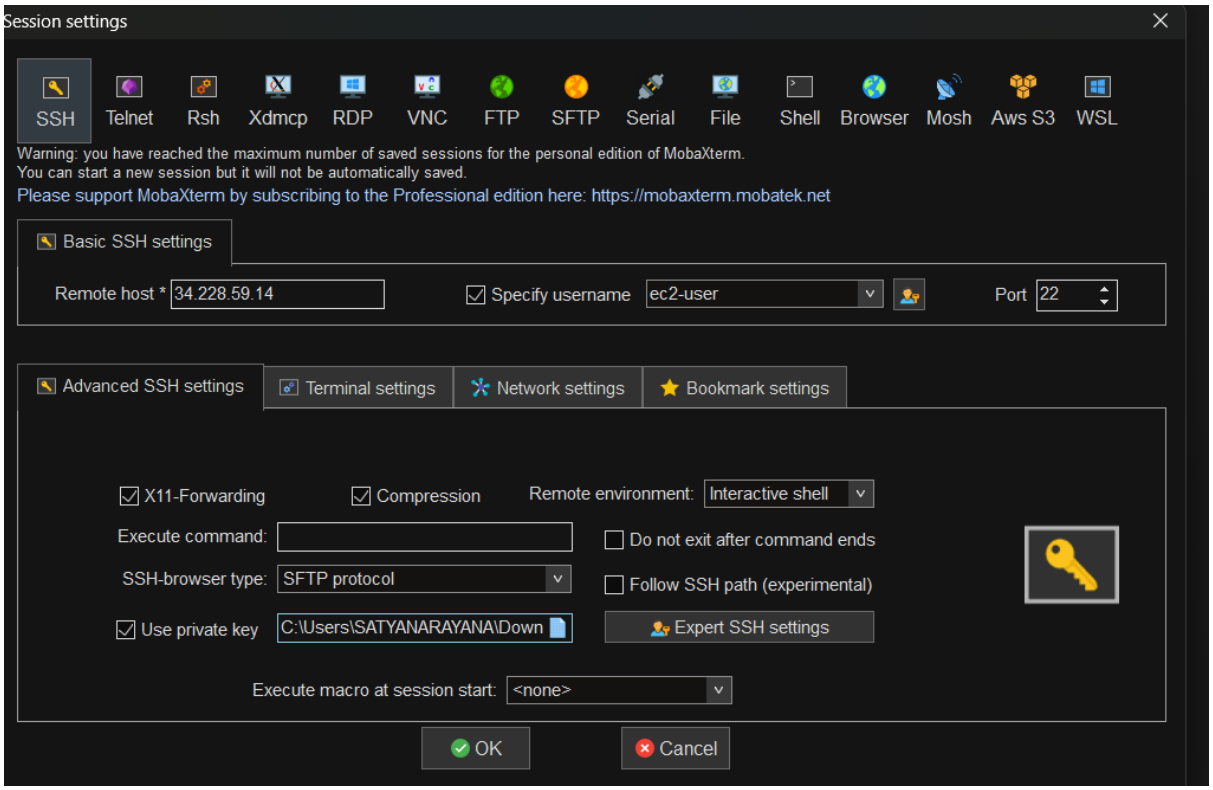
Private server is connected and it is not pinging because it is a private server

```
[ec2-user@ip-10-0-0-28 ~]$ sudo su
[root@ip-10-0-0-28 ec2-user]# ssh -i 2.pem ec2-user@10.0.1.207
The authenticity of host '10.0.1.207 (10.0.1.207)' can't be established.
ED25519 key fingerprint is SHA256:Mhx6pz9iMO/N0uRGysZkaWD7GpsWcWHDWIERAd+duow.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '10.0.1.207' (ED25519) to the list of known hosts.
   ,     #_
   ~\_  ####_        Amazon Linux 2023
  ~~  \_#####\
  ~~     \###|
  ~~       \#/ ___   https://aws.amazon.com/linux/amazon-linux-2023
   ~~       V~' '->
    ~~~         /
      ~~._.   _/
         _/ _/
       _/m/'
[ec2-user@ip-10-0-1-207 ~]$
[ec2-user@ip-10-0-1-207 ~]$
[ec2-user@ip-10-0-1-207 ~]$
[ec2-user@ip-10-0-1-207 ~]$ ping google.com
PING google.com (172.253.62.113) 56(84) bytes of data.




^Z
[1]+  Stopped                 ping google.com
[ec2-user@ip-10-0-1-207 ~]$
```

Connect to public server in AZ B :



It is getting pinged so it is a public server