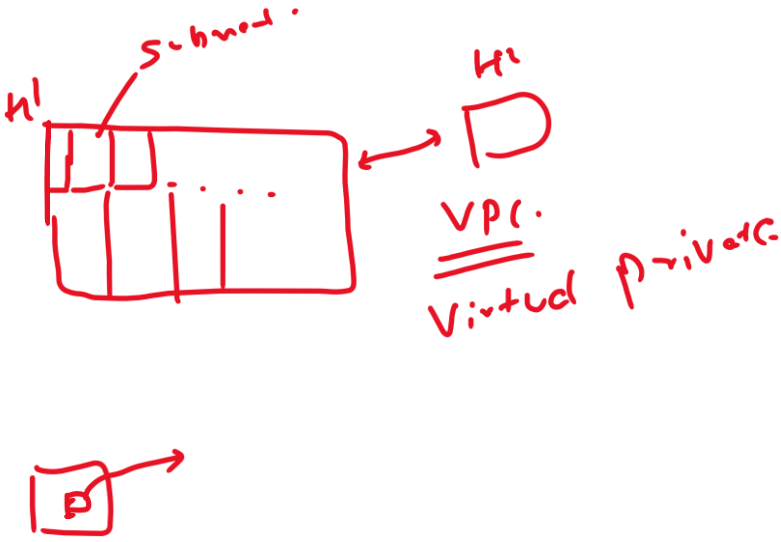
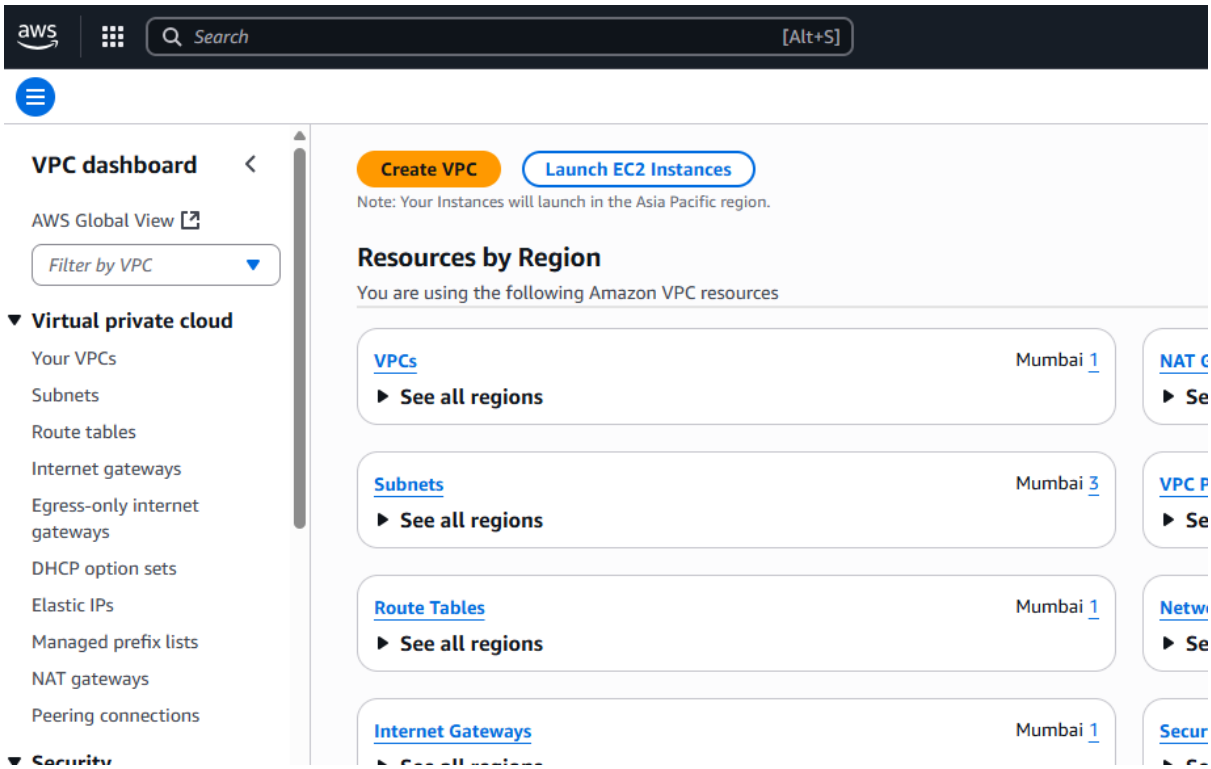
VPC practical



- Create vpc
- Launch vm under vpc
- Install docker | nginx
- Access from outside.

Search vpc



VPC settings

Resources to create Info

Create only the VPC resource or the VPC and other networking resources.

- (•) VPC only
- ( ) VPC and more

Name tag - *optional*

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

my-vpc-1

IPv4 CIDR block Info

- (•) IPv4 CIDR manual input
- ( ) IPAM-allocated IPv4 CIDR block

IPv4 CIDR

10.0.0.0/24

CIDR block size must be between /16 and /28.

IPv6 CIDR block Info

- (•) No IPv6 CIDR block
- ( ) IPAM-allocated IPv6 CIDR block
- ( ) Amazon-provided IPv6 CIDR block
- ( ) IPv6 CIDR owned by me

Tenancy Info

Default

Tags

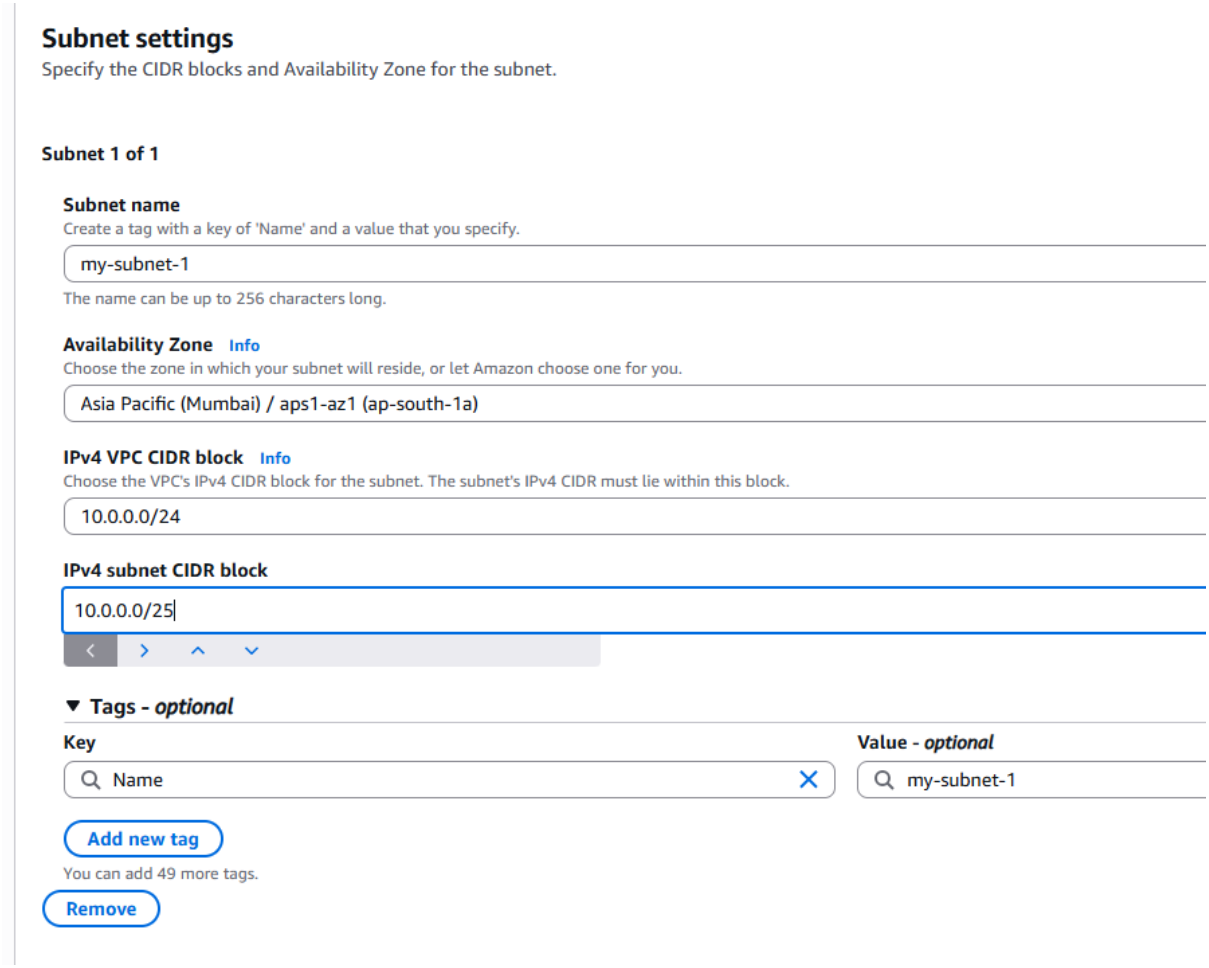
A tag is a label that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to search and filter your resources o

Key	Value - *optional*	
Name	my-vpc-1	Remove tag

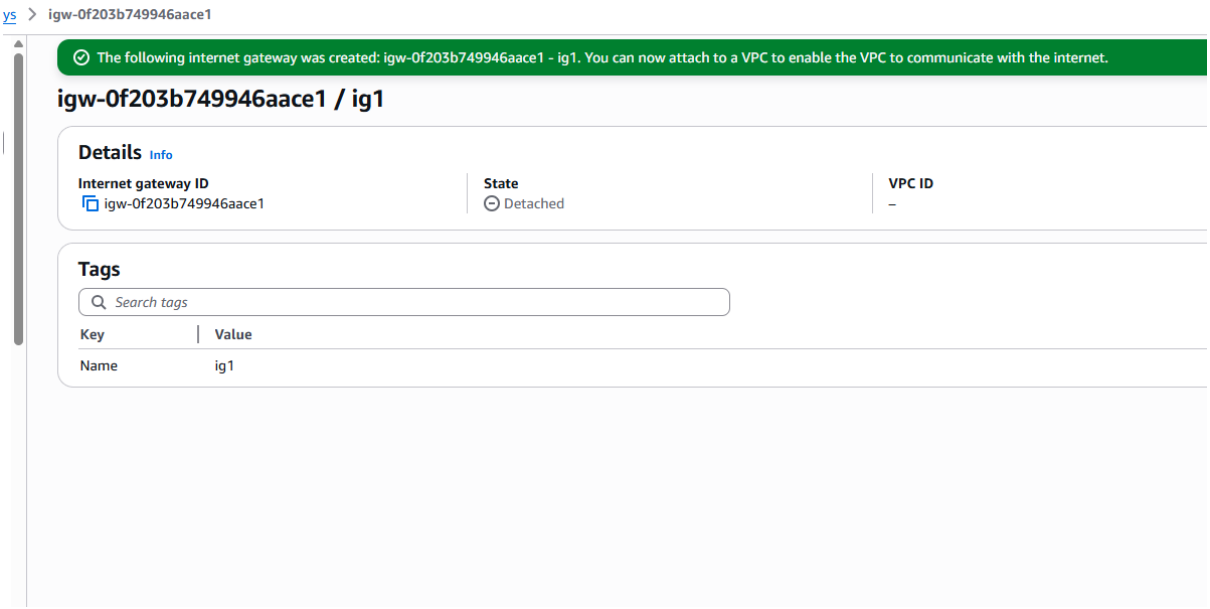
Add tag

You can add 49 more tags

Go to subnet

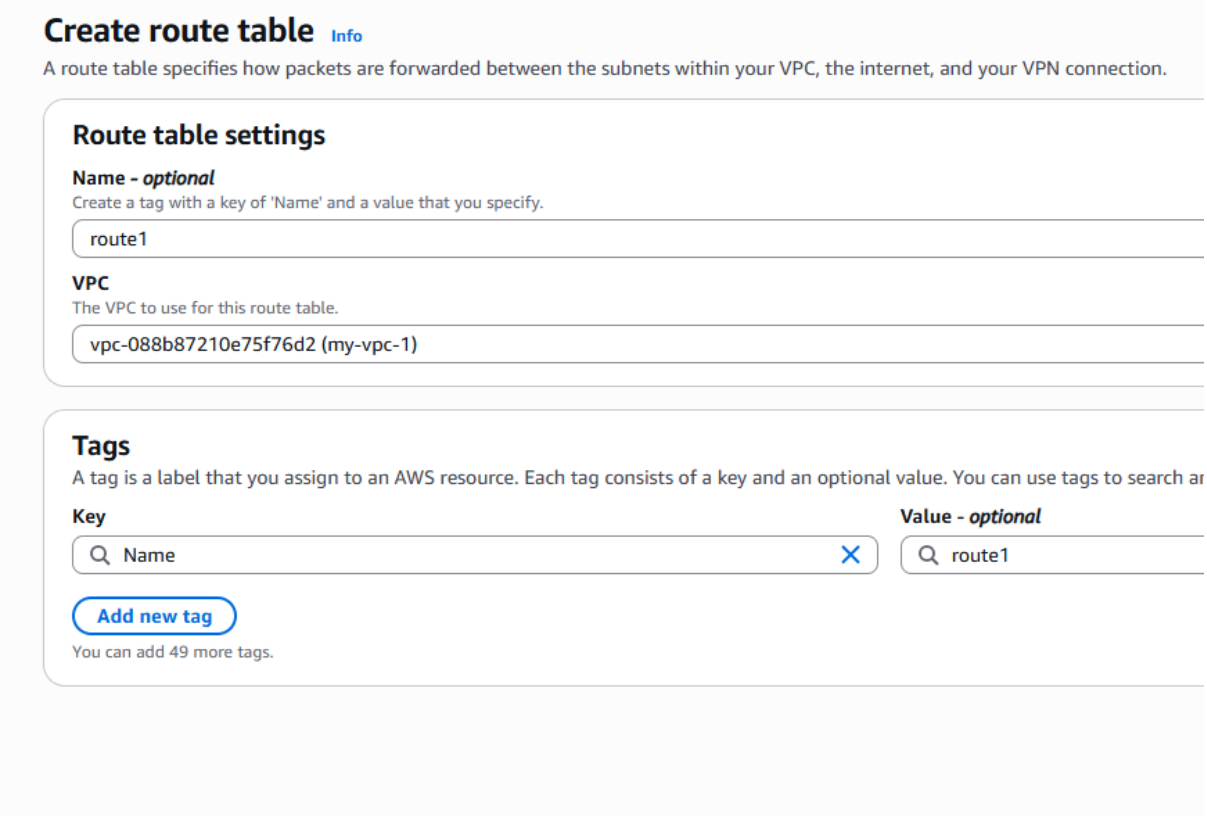


Go to internet gateway

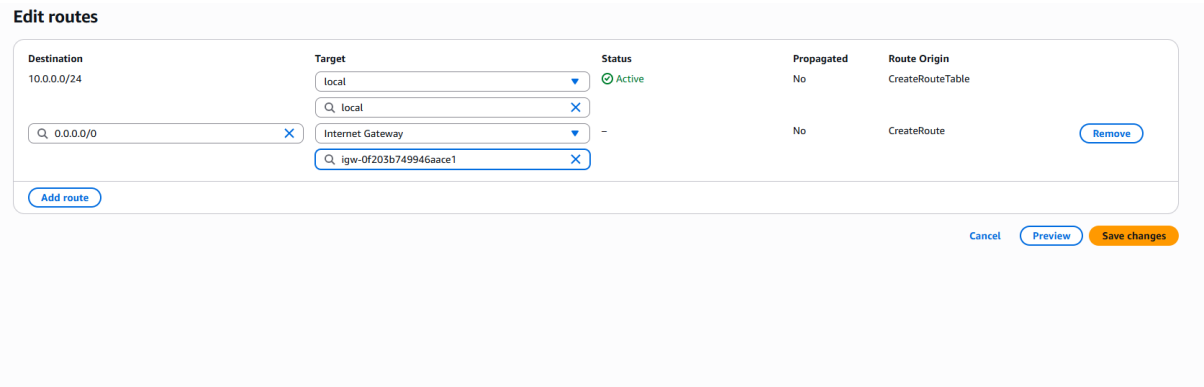


Then from right hand side attach ig.

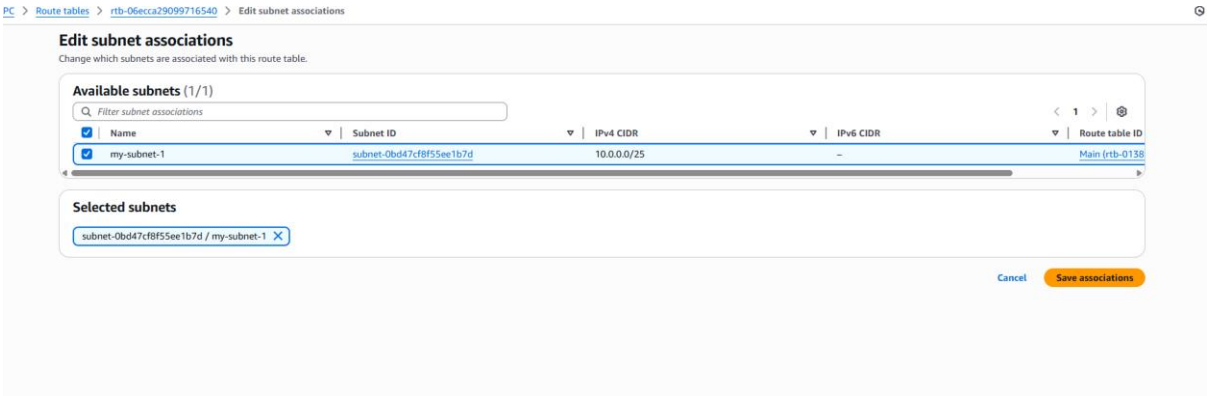
Create route table



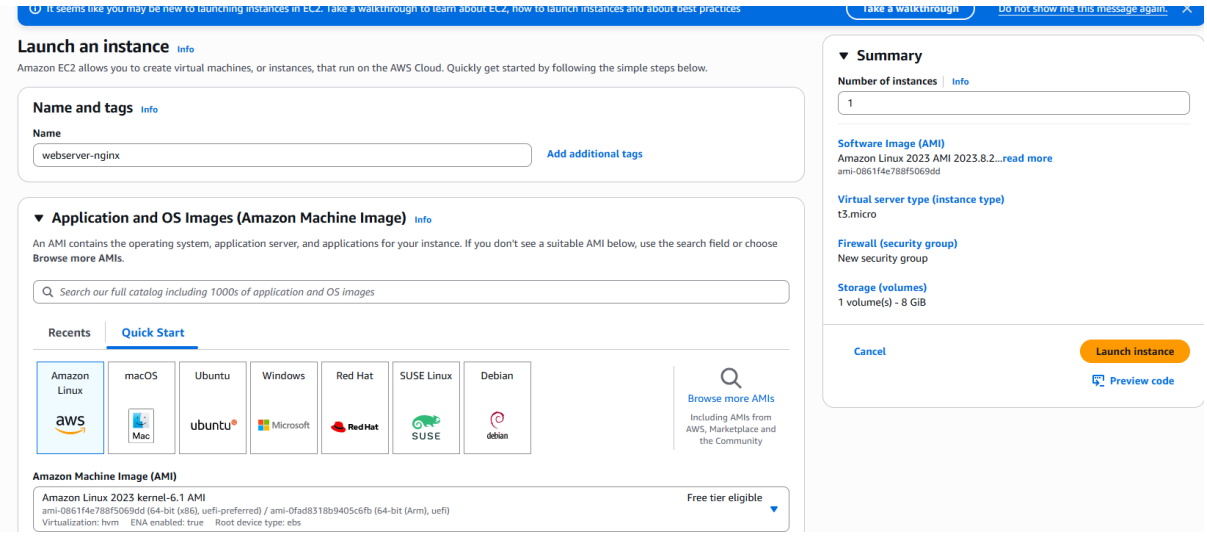
Go to edit route



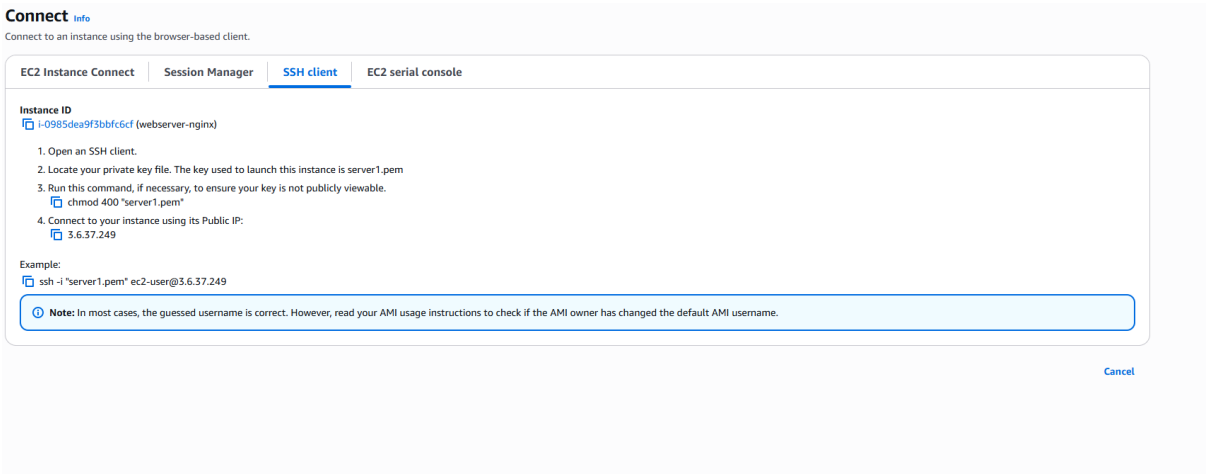
Go to subnet association and select subnet and associate.



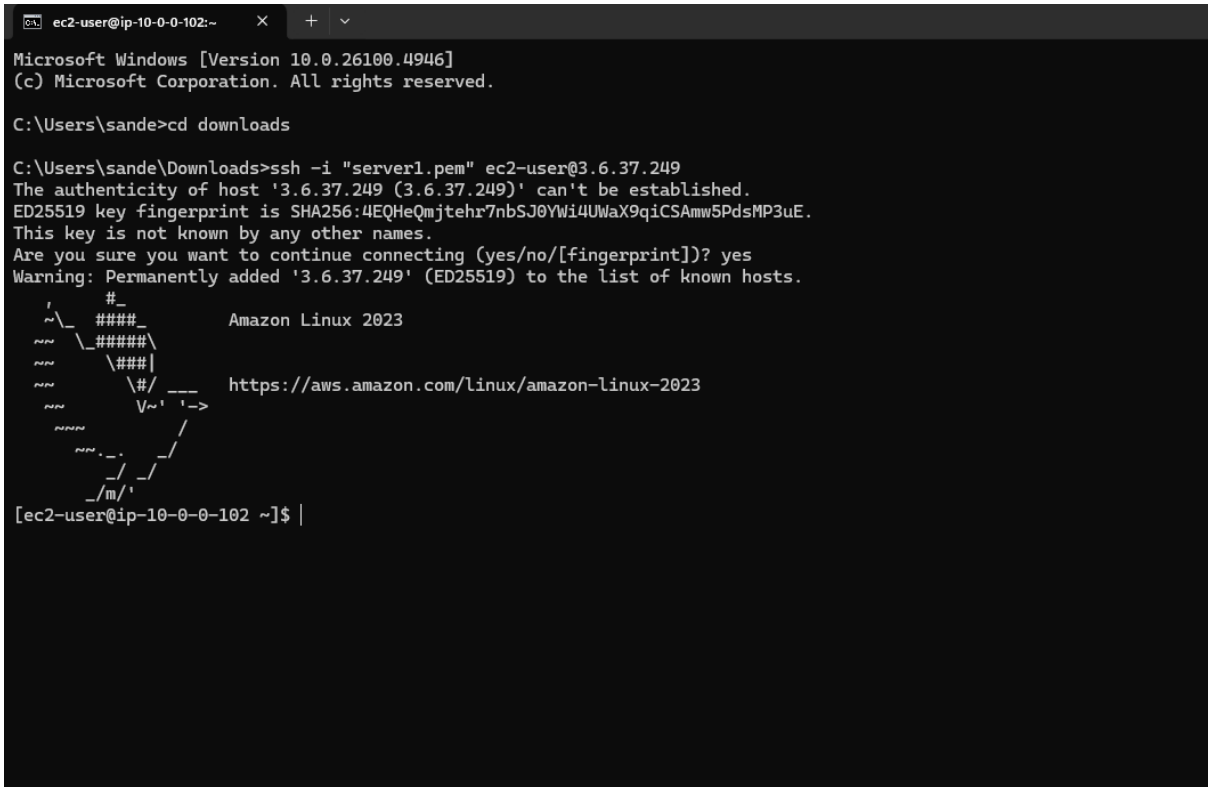
Go to ec2 instance



connect



After connection login



Become root user

```
Microsoft Windows [Version 10.0.26100.4946]
(c) Microsoft Corporation. All rights reserved.

C:\Users\sande>cd downloads

C:\Users\sande\Downloads>ssh -i "server1.pem" ec2-user@3.6.37.249
The authenticity of host '3.6.37.249 (3.6.37.249)' can't be established.
ED25519 key fingerprint is SHA256:4EQHeQmjtehr7nbSJ0YWi4UWaX9qiCSAmw5PdsMP3uE.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '3.6.37.249' (ED25519) to the list of known hosts.
   ,     #_
   ~\_  ####_        Amazon Linux 2023
  ~~  \_#####\
  ~~     \###|
  ~~       \#/ ___   https://aws.amazon.com/linux/amazon-linux-2023
   ~~       V~' '->
    ~~~         /
      ~~._.   _/
         _/ _/
       _/m/'
[ec2-user@ip-10-0-0-102 ~]$ yum install docker -y
Error: This command has to be run with superuser privileges (under the root user on most systems).
[ec2-user@ip-10-0-0-102 ~]$ sudo su
[root@ip-10-0-0-102 ec2-user]#
```

Yum install docker -y

Yum install nginx -y

```
  ~~  \_#####\
  ~~     \###|
  ~~       \#/ ___   https://aws.amazon.com/linux/amazon-linux-2023
   ~~       V~' '->
    ~~~         /
      ~~._.   _/
         _/ _/
       _/m/'
[ec2-user@ip-10-0-0-102 ~]$ yum install docker -y
Error: This command has to be run with superuser privileges (under the
[ec2-user@ip-10-0-0-102 ~]$ sudo su
[root@ip-10-0-0-102 ec2-user]# yum install dcoker -y
```

Yum install docker -y

Nginx :80

Start docker and nginx

Yum start nginx

Yum enable nginx

```
  Verifying        : nginx-mimetypes-2.1.49-3.amzn2023.0.3.noarch

Installed:
  generic-logos-httpd-18.0.0-12.amzn2023.0.3.noarch        gperftoo
  nginx-core-1:1.28.0-1.amzn2023.0.2.x86_64                nginx-fi

Complete!
[root@ip-10-0-0-102 ec2-user]# systemctl start nginx
[root@ip-10-0-0-102 ec2-user]# systemctl start docker
[root@ip-10-0-0-102 ec2-user]#
```

Go to ec2 dashboard and then click on public ip.