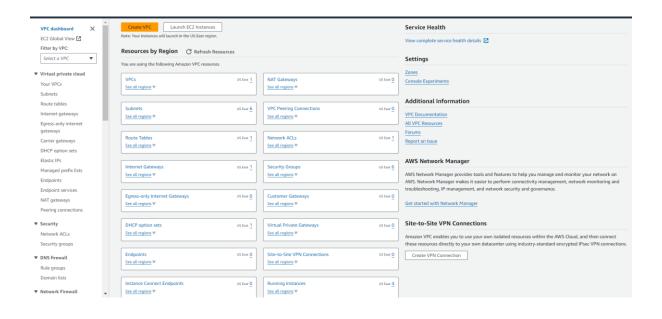
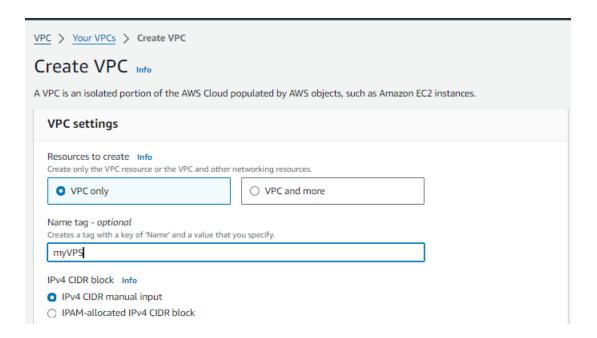
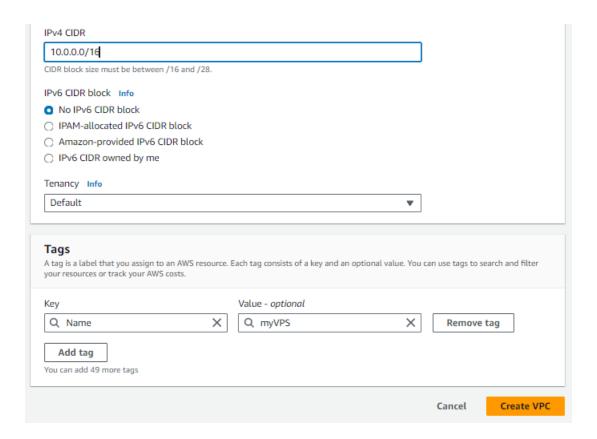
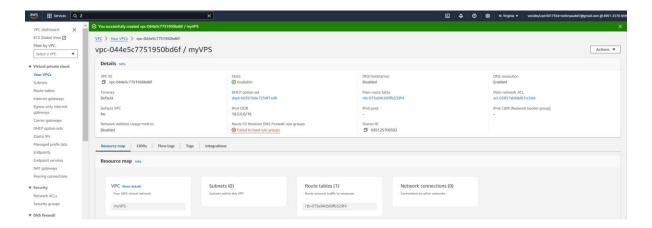
VPC Workshop









▼ Virtual private cloud

Your VPCs

Subnets

Route tables

Internet gateways

Egress-only internet

gateways

Carrier gateways

DHCP option sets

Elastic IPs

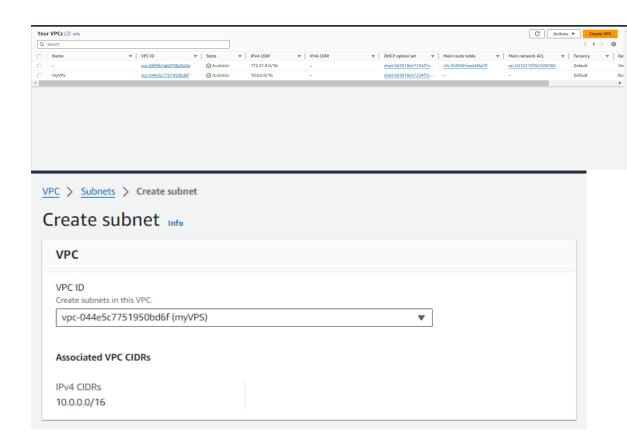
Managed prefix lists

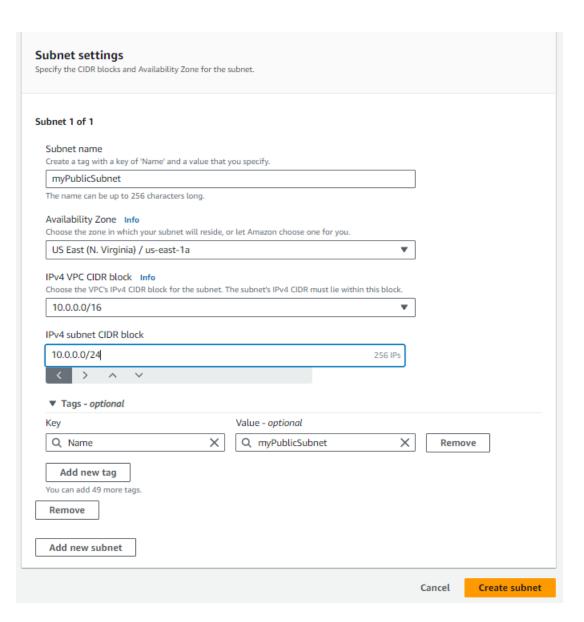
Endpoints

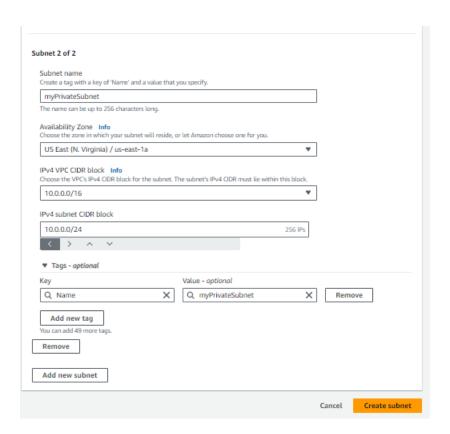
Endpoint services

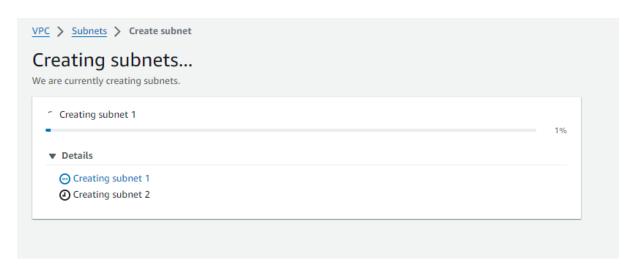
NAT gateways

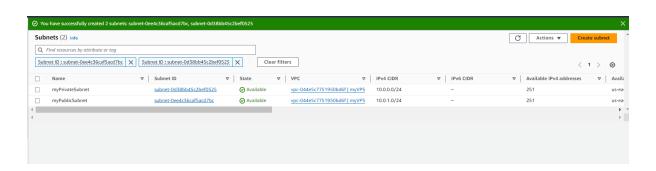
Peering connections











▼ virtual private cloud

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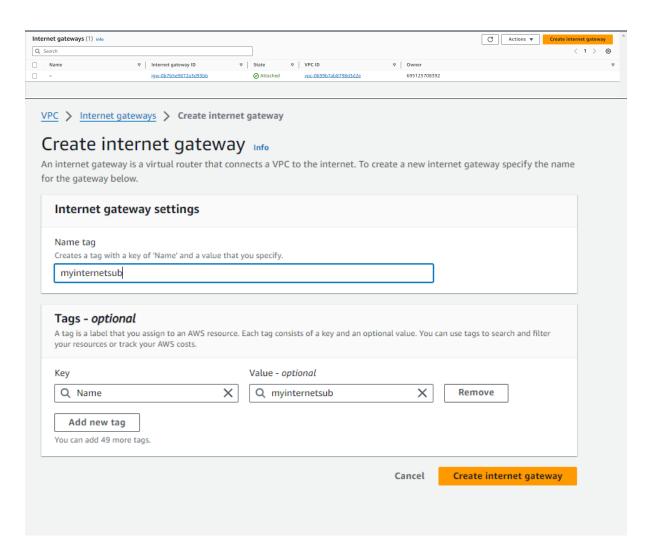
Managed prefix lists

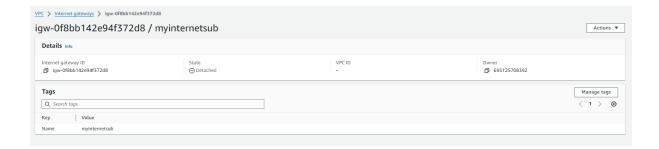
Endpoints

Endpoint services

NAT gateways

Peering connections





▼ Virtual private cloud

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gateways

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Elastic IPs

Managed prefix lists

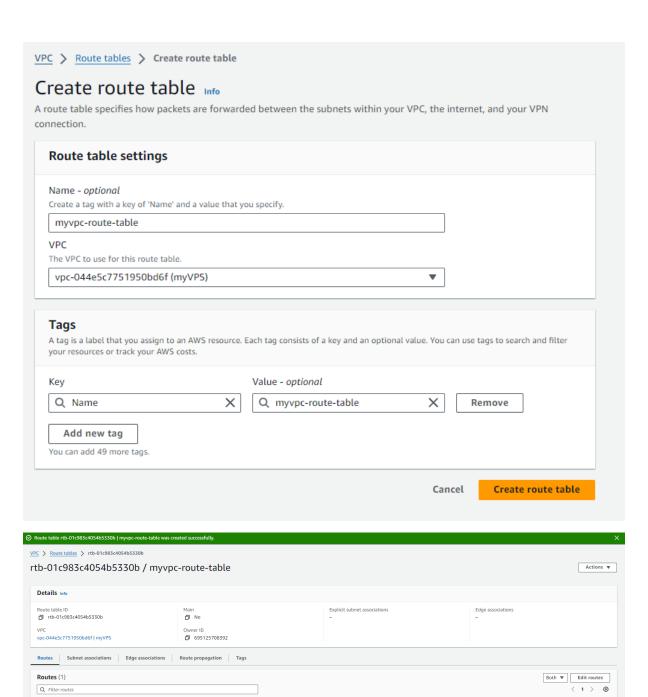
Endpoints

Endpoint services

NAT gateways

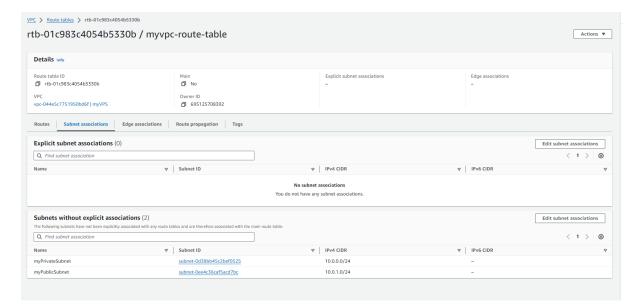
Peering connections



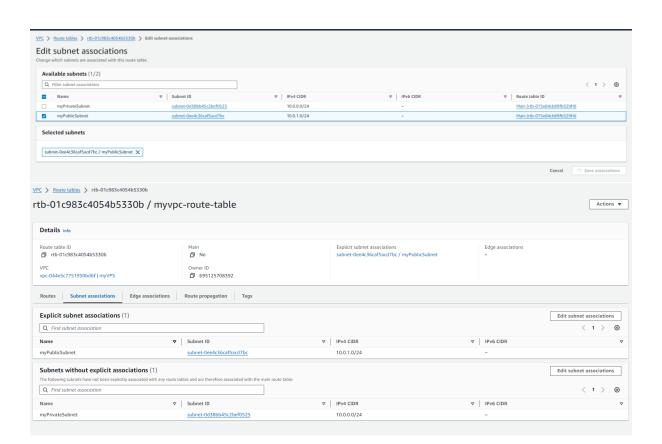


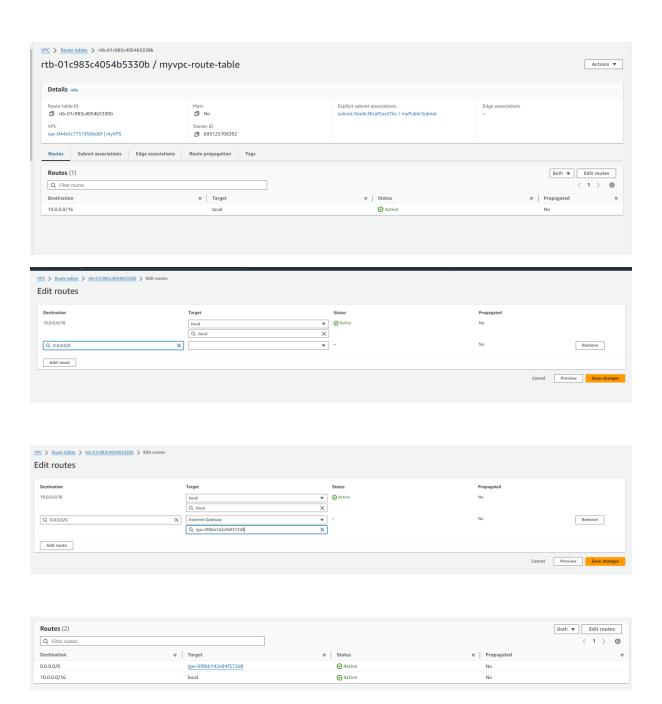
▼ | Propagated

▼ | Target

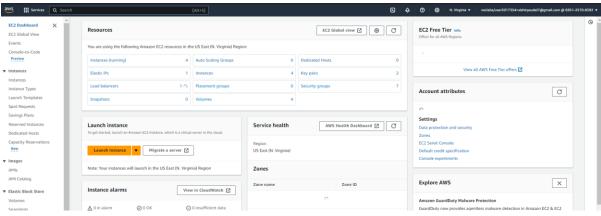


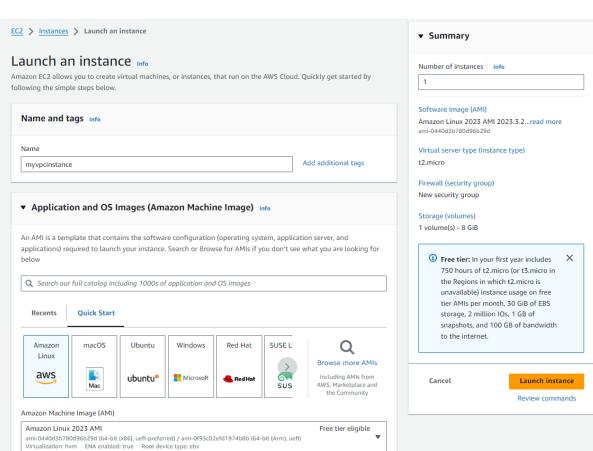
Add which route you want to explore to the internet

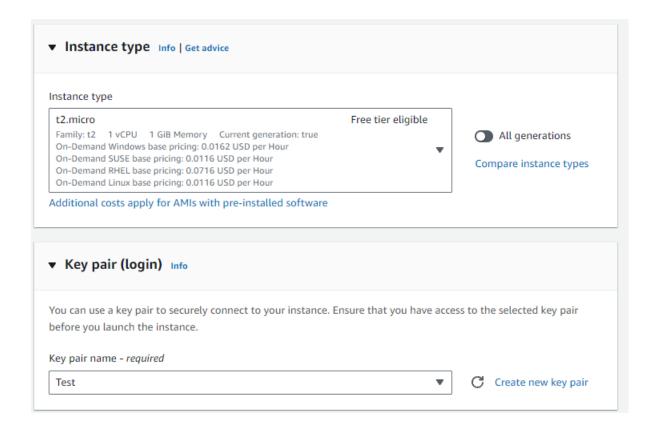


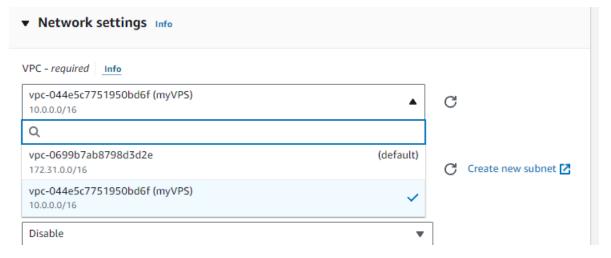


Now create a ec2 instance

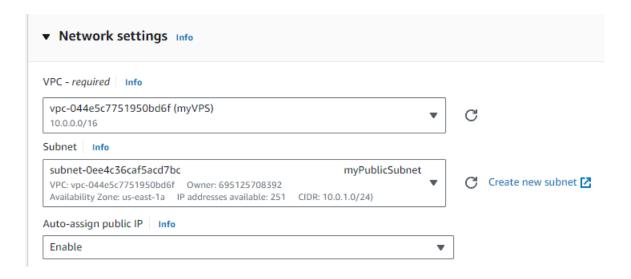






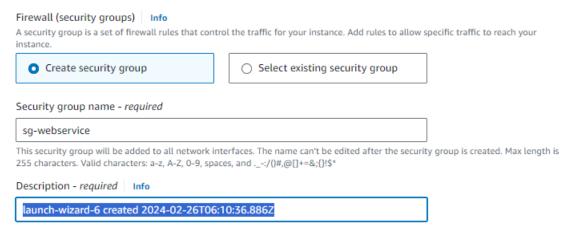


CHOOSE OUR VPC



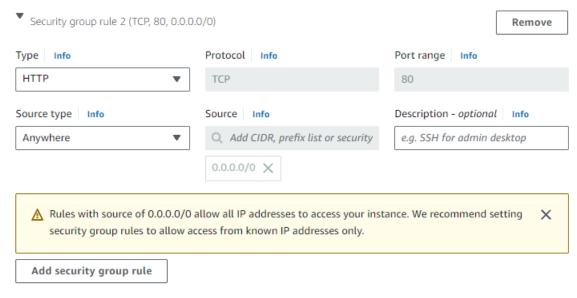
Choose the public subnet to access, then enable the auto assign public IP

Now create a new security group / firewalls



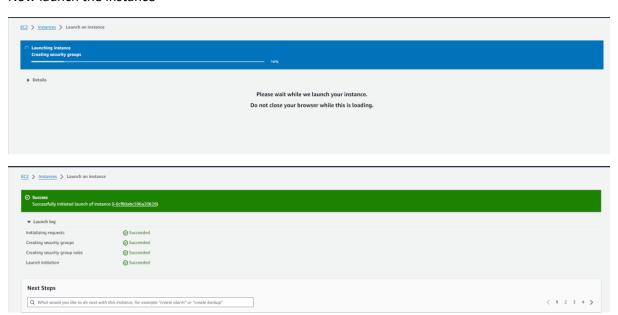
Inbound Security Group Rules

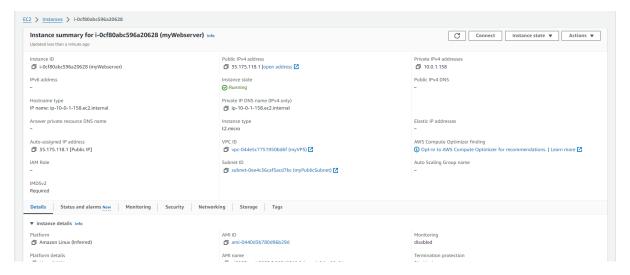
Now add rules for security groups



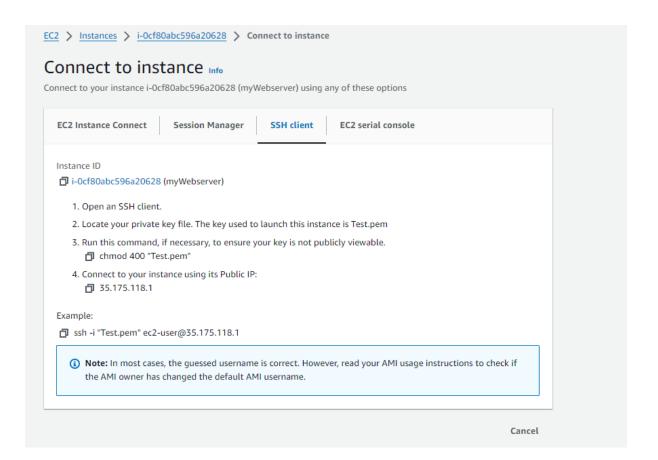
▶ Advanced network configuration

Now launch the instance

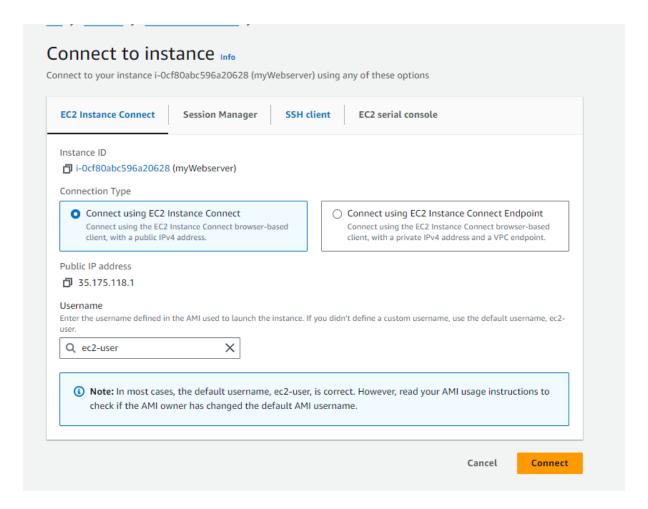




Go to connect



Now connect it



this page is redirected



```
[ec2-user@ip-10-0-1-158 ~]$ sudo yum update httpd
Last metadata expiration check: 0:04:14 ago on Mon Feb 26 06:20:31 2024.
Dependencies resolved.
Nothing to do.
Complete!
[ec2-user@ip-10-0-1-158 ~]$
Code:
```

Sudo yum update

Sudo yum install httpd

Sudo yum update httpd

Sudo service httpd start

Sudo service httpd status

```
[ec2-user@ip-10-0-1-158 ~]$ sudo service httpd status
Redirecting to /bin/systemctl status httpd.service
 httpd.service - The Apache HTTP Server
     Loaded: loaded (/usr/lib/systemd/system/httpd.service; disabled; preset: disabled)
Active: active (running) since Mon 2024-02-26 06:25:53 UTC; 5min ago
      Docs: man:httpd.service(8)
   Main PID: 25942 (httpd)
     Status: "Total requests: 0; Idle/Busy workers 100/0; Requests/sec: 0; Bytes served/sec: 0 B/sec"
     Tasks: 177 (limit: 1114)
Memory: 13.4M
       CPU: 258ms
     CGroup: /system.slice/httpd.service
               -25942 /usr/sbin/httpd -DFOREGROUND
-25964 /usr/sbin/httpd -DFOREGROUND
               -25965 /usr/sbin/httpd -DFOREGROUND
               25967 /usr/sbin/httpd -DFOREGROUND
Feb 26 06:25:53 ip-10-0-1-158.ec2.internal systemd[1]: Starting httpd.service - The Apache HTTP Server...
Feb 26 06:25:53 ip-10-0-1-158.ec2.internal systemd[1]: Started httpd.service - The Apache HTTP Server.
Peb 26 06:25:53 ip-10-0-1-158.ec2.internal httpd[25942]: Server configured, listening on: port 80
[ec2-user@ip-10-0-1-158 ~]$
  i-0cf80abc596a20628 (myWebserver)
  PublicIPs: 35.175.118.1 PrivateIPs: 10.0.1.158
```



It works!

Hosting Portfolio Using linux server

```
#_
####
                       Amazon Linux 2023
         #####\
                       https://aws.amazon.com/linux/amazon-linux-2023
Last login: Tue Mar 5 06:39:21 2024 from 103.10.29.89
[ec2-user@ip-10-0-1-158 ~]$ ls
[ec2-user@ip-10-0-1-158 ~]$ start service httpd
-bash: start: command not found
[ec2-user@ip-10-0-1-158 ~]$
[ec2-user@ip-10-0-1-158 ~]$ sudo yum -i htttpd
No such command: htttpd. Please use /usr/bin/yum --help
It could be a YUM plugin command, try: "yum install 'dnf-command(htttpd)'"
[ec2-user@ip-10-0-1-158 ~]$ sudo yum install httpd
Last metadata expiration check: 1:04:23 ago on Tue Mar 5 05:42:32 2024.
Package httpd-2.4.58-1.amzn2023.x86 64 is already installed.
Dependencies resolved.
Nothing to do.
Complete!
```

Giving permission to access test.pem key

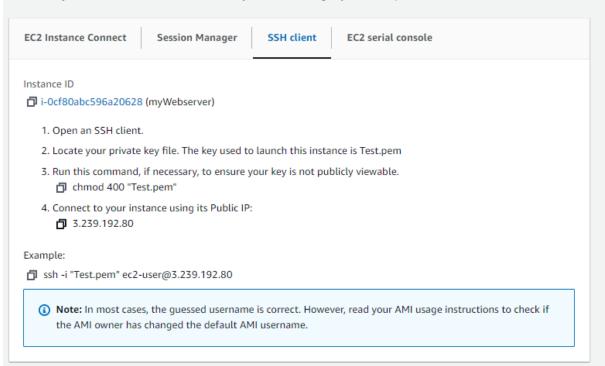
```
C:\Users\User\Desktop\awskeys>icacls Test.pem /inheritance:r /grant:r "%USERNAME%:R"
processed file: Test.pem
Successfully processed 1 files; Failed processing 0 files
```

Loading a folder from local machine to that ec2 instance

```
C:\Users\User\Desktop\awskeys>scp -i "Test.pem" C:\Users\User\Desktop\portfoliio/* ec2-user@3.239.192.80:temp
Blog Reference.JPG
                                                                                           100% 114KB 101.4KB/s
Blog.HTML
                                                                                           100% 7909
                                                                                                        27.1KB/s
                                                                                                                    00:00
-Blog.jpg
-Blog1.jpg
Blog2.jpg
                                                                                           100% 2574KB
                                                                                                        1.5MB/s
                                                                                                                    00:01
                                                                                           100% 686KB
                                                                                                         1.6MB/s
                                                                                                                    00:00
                                                                                                         1.4MB/s
                                                                                           100% 2608KB
                                                                                                                    00:01
Blog3.jpg
                                                                                           100%
                                                                                                 39KB 131.6KB/s
                                                                                                                    00:00
                                                                                           100% 1017KB
Blog4.jpg
                                                                                                        1.5MB/s
                                                                                                                    00:00
                                                                                           100% 206KB 599.7KB/s
 CVimg.jpg
                                                                                                                    00:00
 Contact.HTML
                                                                                           100% 4768
                                                                                                        15.3KB/s
                                                                                                                    00:00
                                                                                           100% 88KB 262.6KB/s
100% 575KB 1.4MB/s
 Contact.jpg
                                                                                                                    00:00
Home.jpg
                                                                                                                    00:00
                                                                                           100% 106KB 359.4KB/s
 Homepage reference.jpg
                                                                                                                    00:00
 IconRef.JPG
                                                                                           100%
                                                                                                  79KB 259.3KB/s
                                                                                                                    00:00
MyCV.html
                                                                                           100% 4174
                                                                                                        14.7KB/s
                                                                                                                    00:00
 Research.HTML
                                                                                           100% 3626
                                                                                                         12.8KB/s
                                                                                                                    00:00
                                                                                           100% 6223
 Styling.css
                                                                                                        21.7KB/s
                                                                                                                    00:00
VC.jpg
                                                                                           100% 650KB
                                                                                                         1.6MB/s
                                                                                                                    00:00
 contactmeref.png
                                                                                                 53KB 181.3KB/s
                                                                                           100%
                                                                                                                    00:00
 contactt.jpg
                                                                                           100% 136KB 445.4KB/s
                                                                                                                    00:00
  omepage.html
                                                                                           100% 2674
                                                                                                         9.5KB/s
                                                                                                                    00:00
                                                                                           100% 296
                                                                                                         1.1KB/s
 javascript.js
                                                                                                                    00:00
                                                                                           100%
                                                                                                 26KB 93.0KB/s
                                                                                                                    00:00
 navigationReference.jpg
  :\Users\User\Desktop\awskeys>ls
```

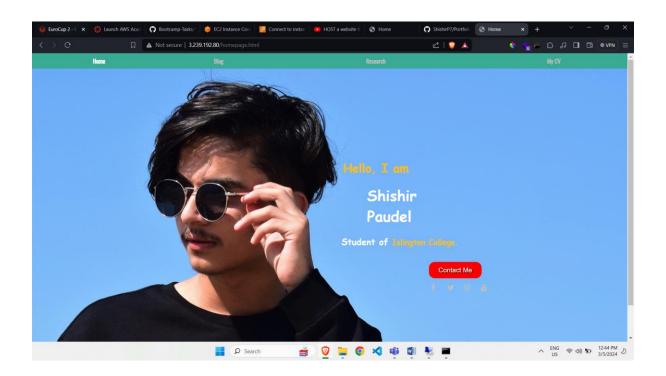
Connect to instance Info

Connect to your instance i-Ocf80abc596a20628 (myWebserver) using any of these options



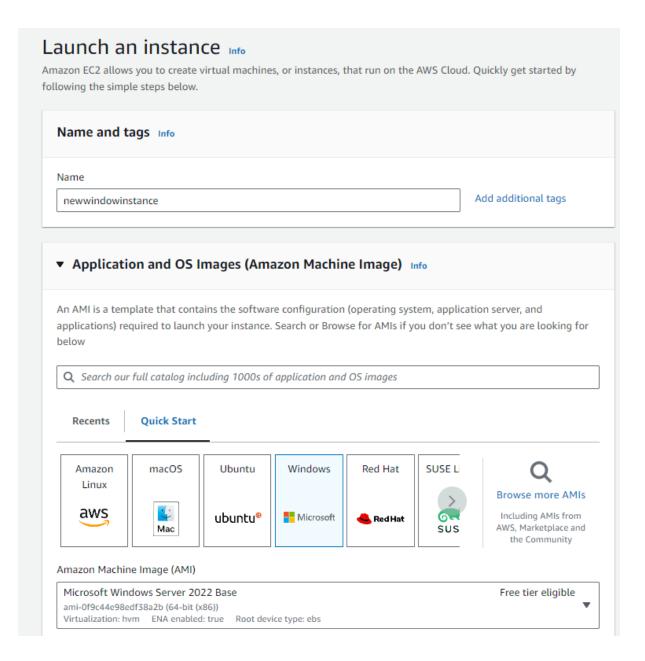
Check the instance in Public IP

Connect to instance Info Connect to your instance i-Ocf80abc596a20628 (myWebserver) using any of these options EC2 Instance Connect Session Manager SSH client EC2 serial console Instance ID i-Ocf80abc596a20628 (myWebserver) 1. Open an SSH client. 2. Locate your private key file. The key used to launch this instance is Test.pem 3. Run this command, if necessary, to ensure your key is not publicly viewable. d chmod 400 "Test.pem" 4. Connect to your instance using its Public IP: **3**.239.192.80 Example: ssh -i "Test.pem" ec2-user@3.239.192.80 (3) Note: In most cases, the guessed username is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI username.

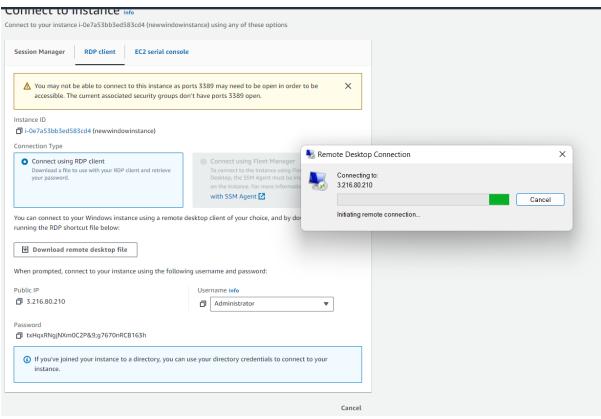


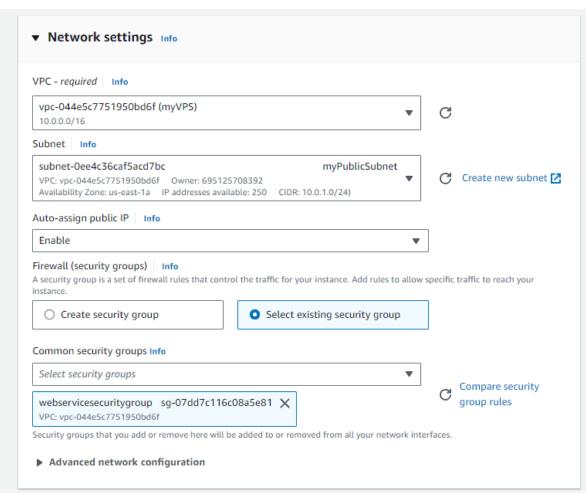
Now hosting portfolio using windows server

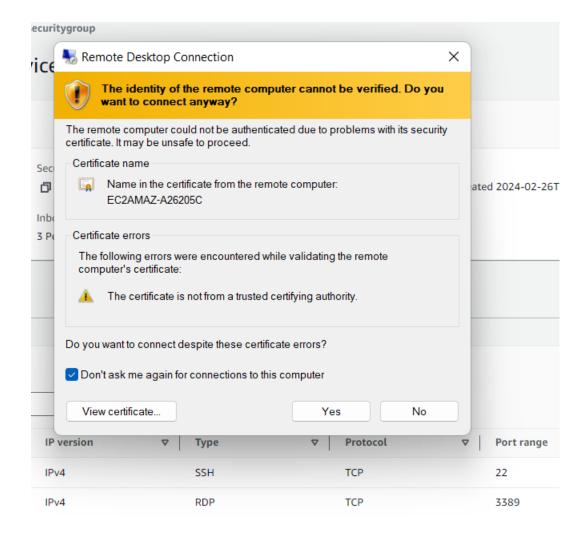
Create a new instance with Windows OS



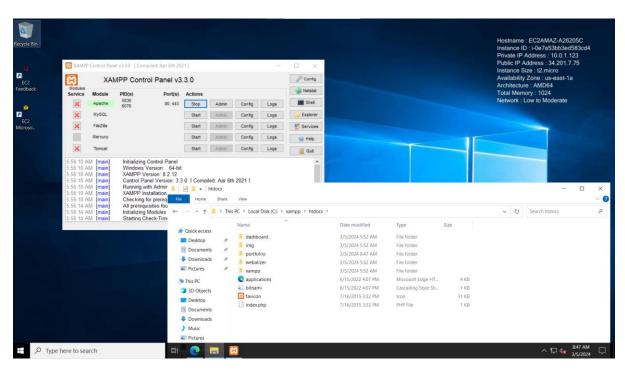


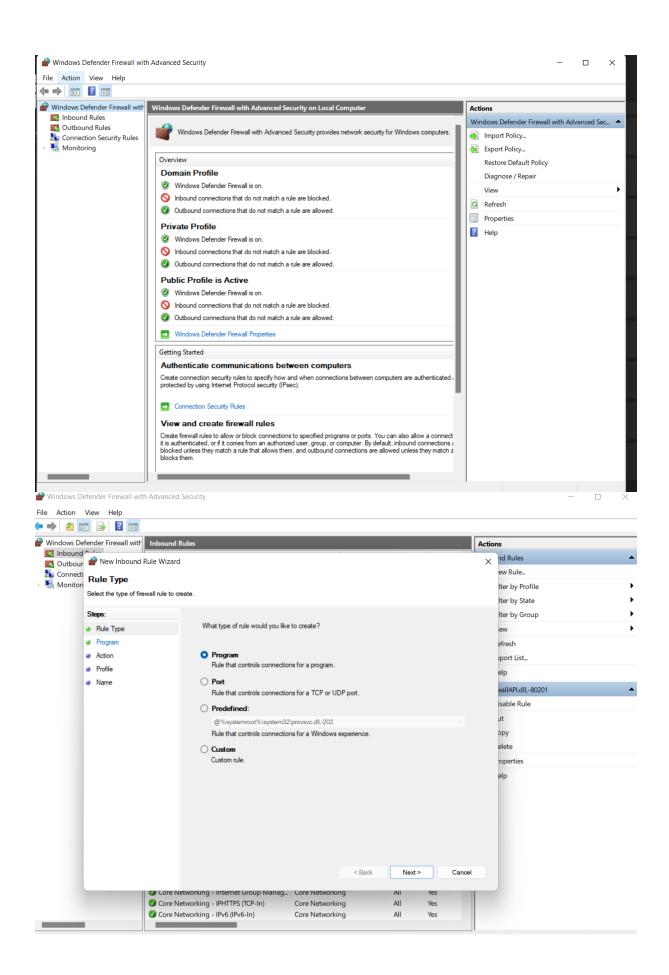


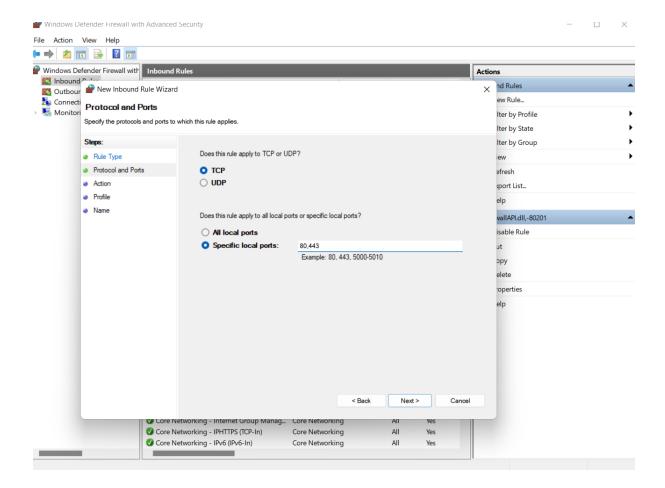




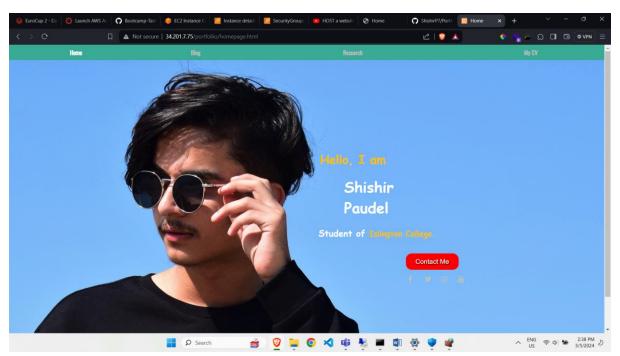








Then check the public ip



The website is hosted successfully.