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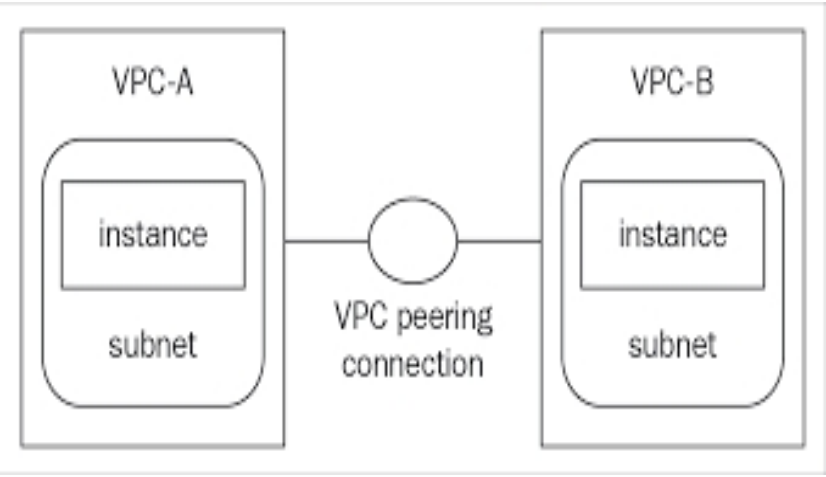
BATCH: 119 (7 AM)

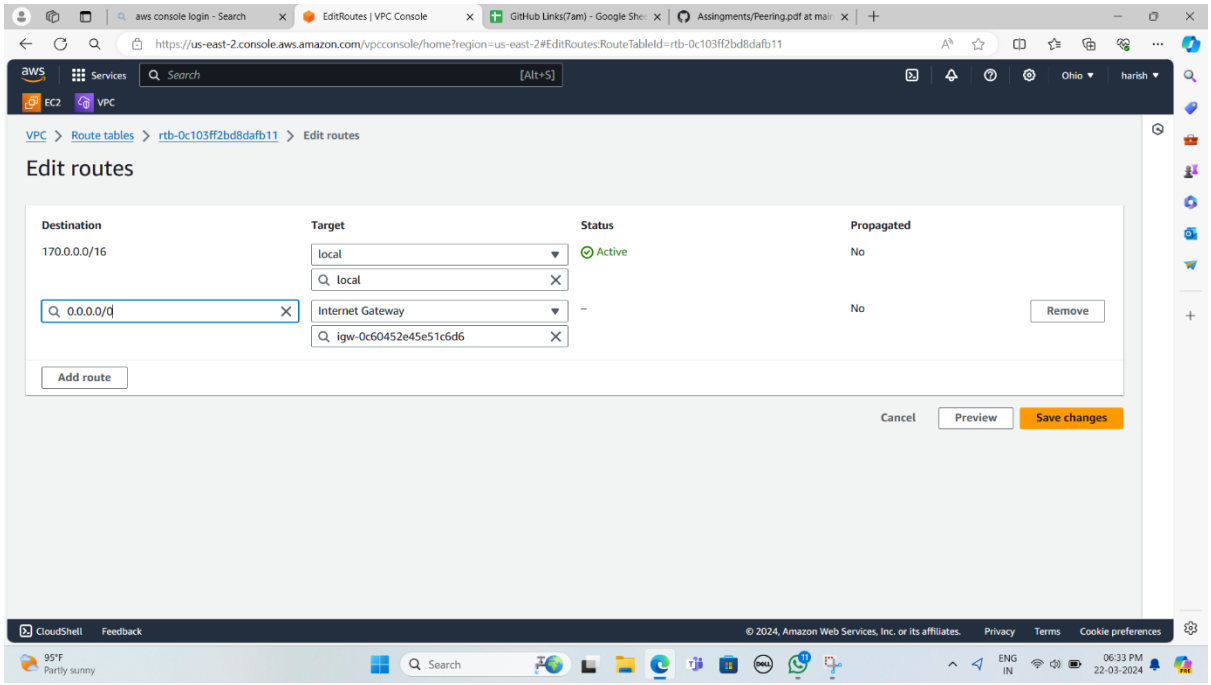
VPC PEERING

Virtual private cloud (VPC) is a virtual network dedicated to your AWS account. It is logically isolated from other virtual networks in the AWS Cloud. You can launch AWS resources, such as Amazon EC2 instances, into your VPC.

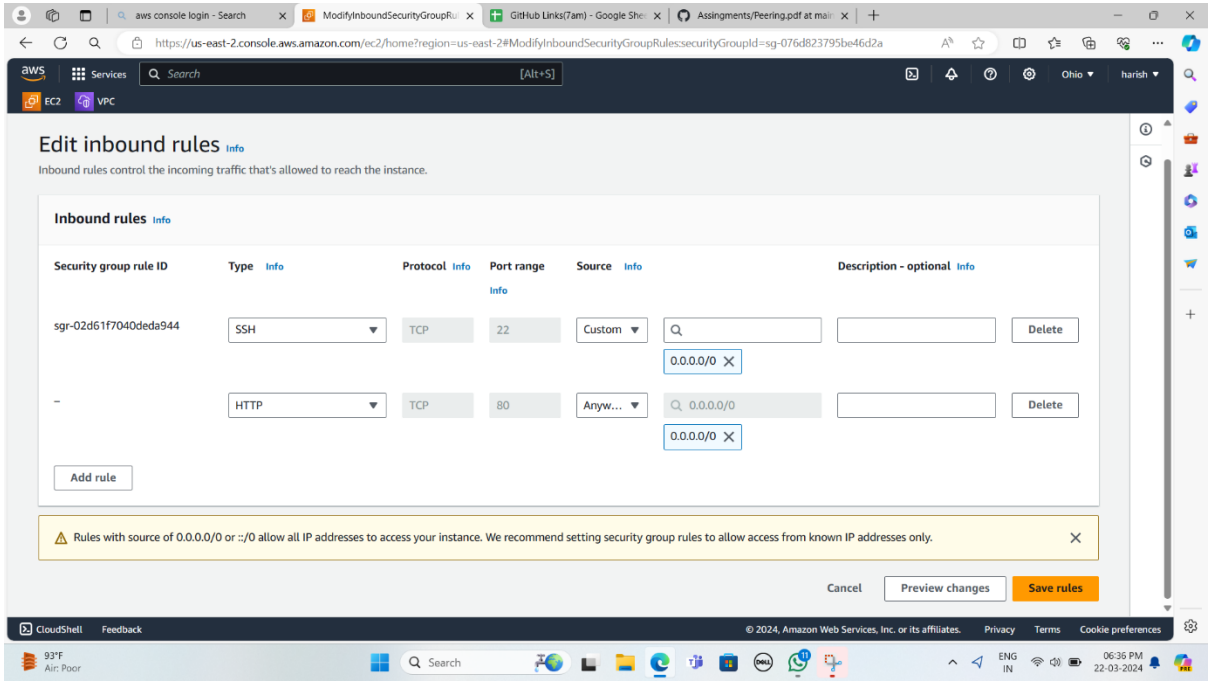
A VPC peering connection is a networking connection between two VPCs that enables you to route traffic between them using private IPv4 addresses or IPv6 addresses. Instances in either VPC can communicate with each other as if they are within the same network. You can create a VPC peering connection between your own VPCs, or with a VPC in another AWS account. The VPCs can be in different Regions (also known as an inter-Region VPC peering connection).



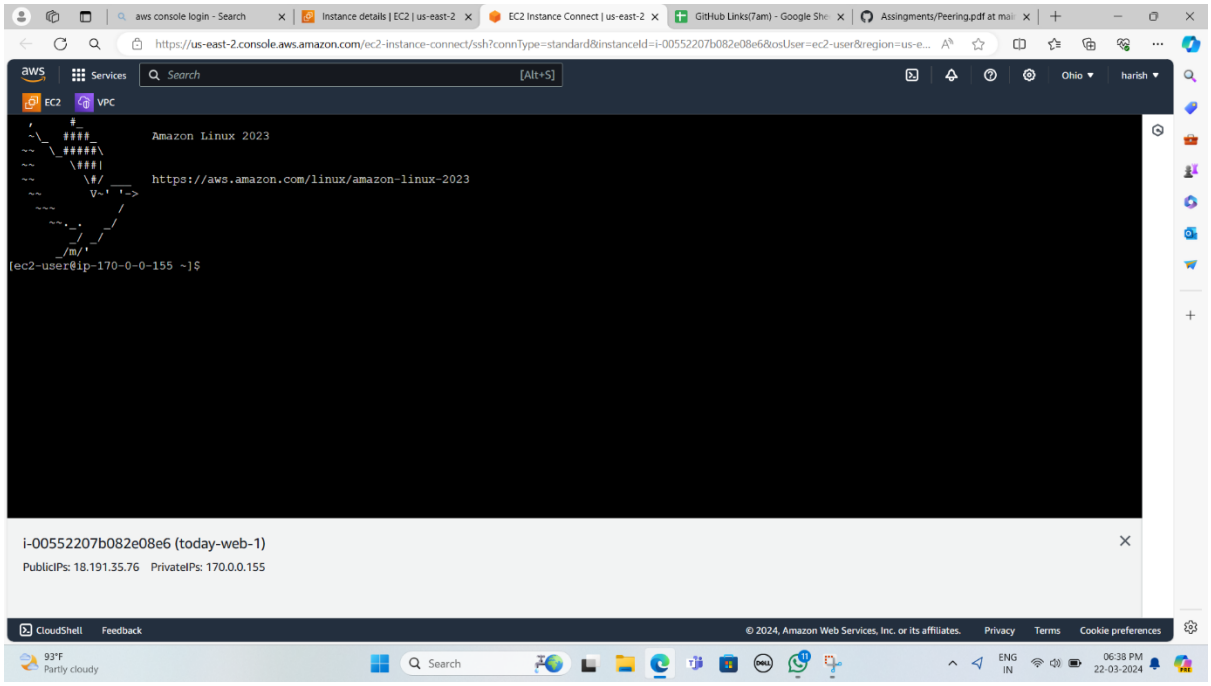
Now, create a vpc (today-vpc-1) in ohio region, and attached the subnets, internet gateway, route table.

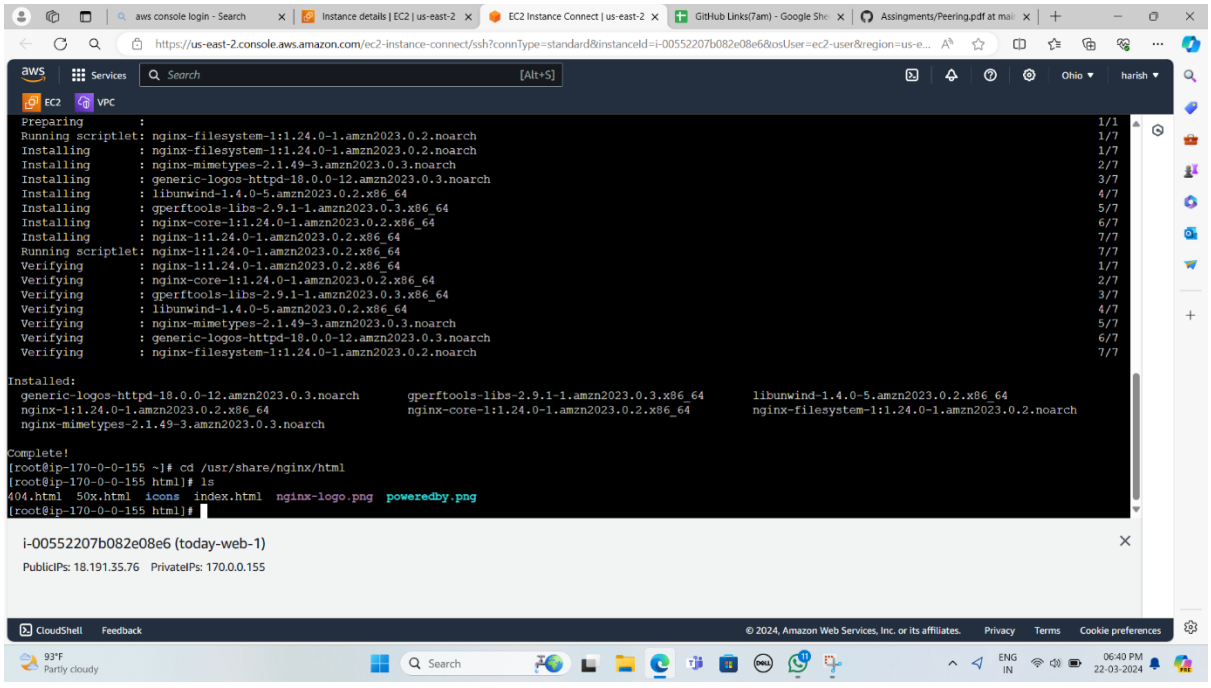


Now, create an EC2 instance with name (today-web-1) by attaching VPC network connection and launch instance. Then go to security groups and edit inbound rules, add HTTP & Source

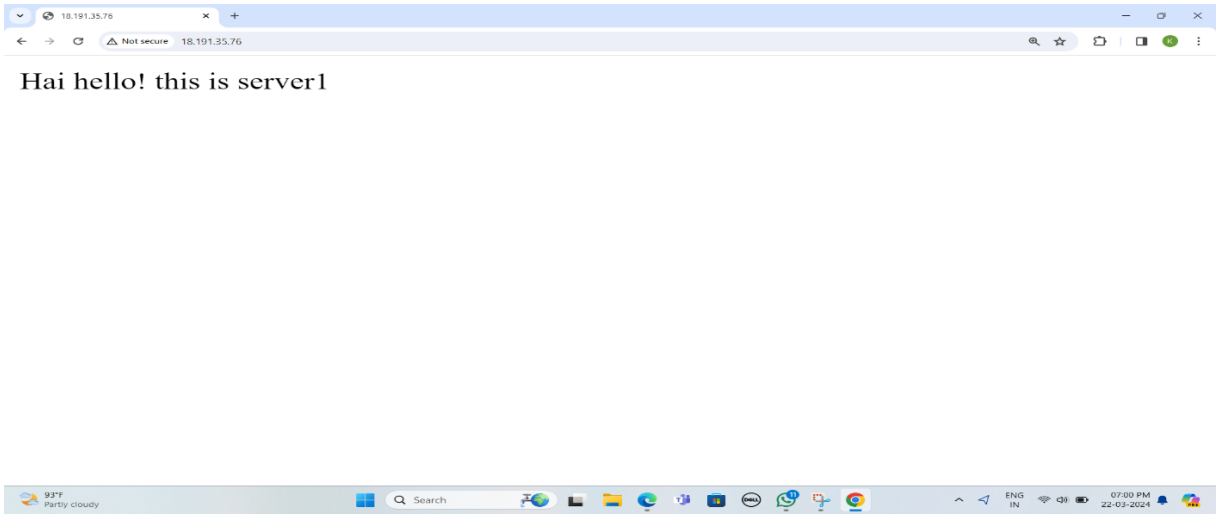


After launch the ec2 instance, connect to the server and change the root user with commands, then install nginx and if the server active or dead,

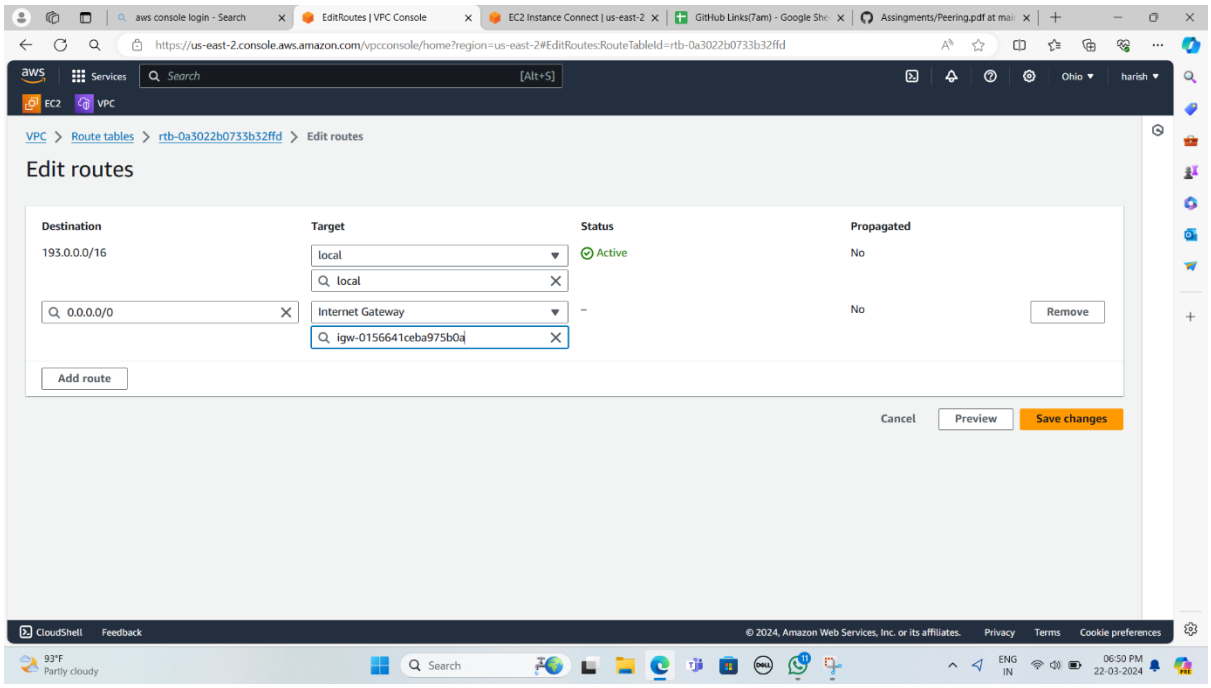




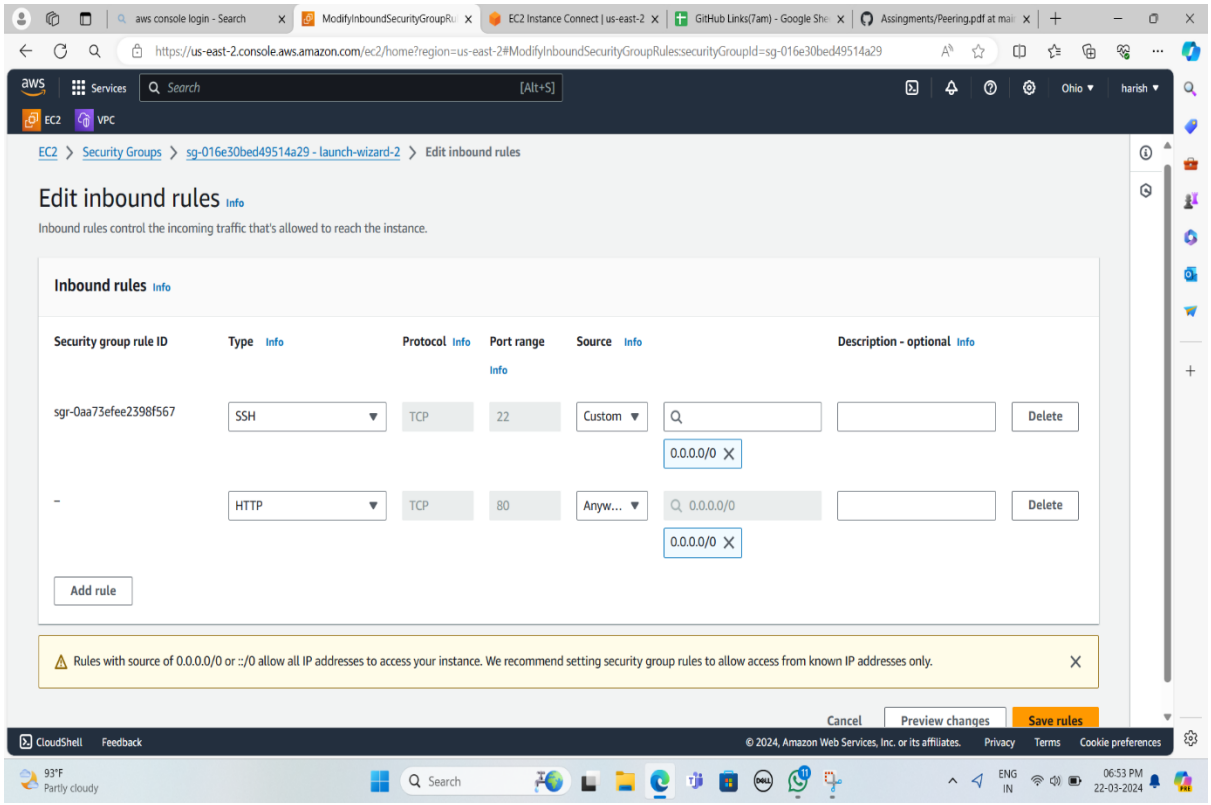
Then copy the public address and paste it, add default port number of nginx is 80 by using colon (:)



Now, create a another VPC with name (today-vpc-2) in same region and attached the subnets, internet gateway, route table

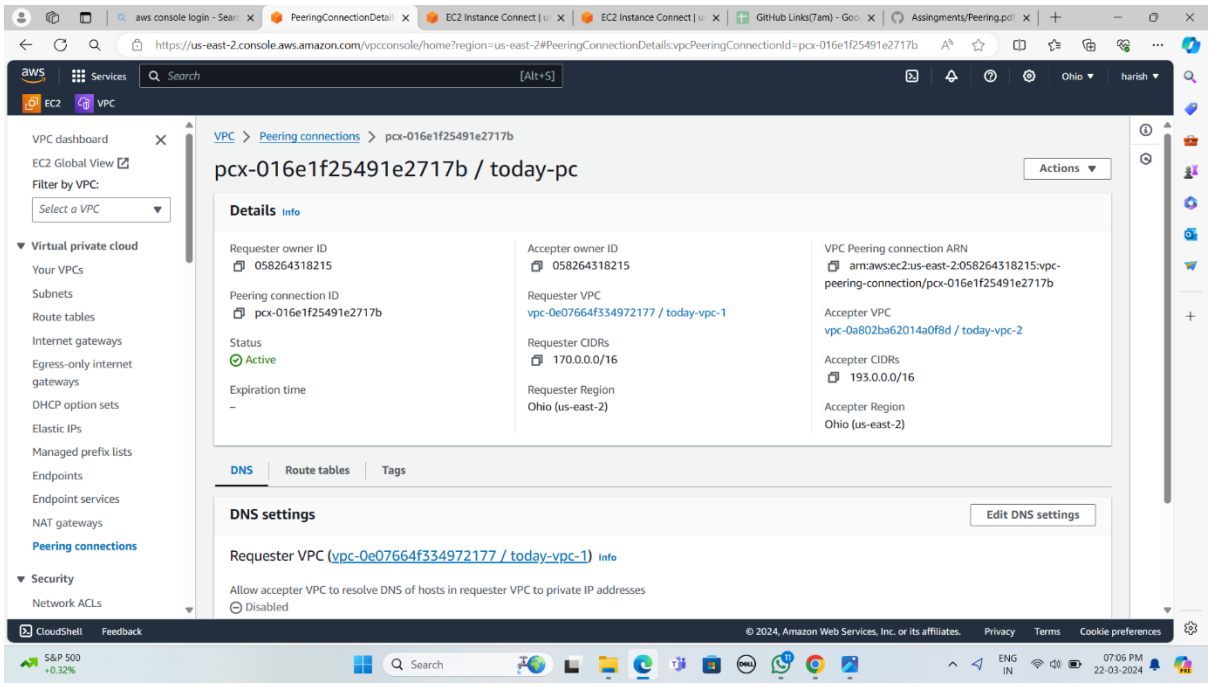


Then create a another EC2 instance name as (today-web-2) in same region, after launch instance, go to security group and edit inbound rules, add HTTP & Source



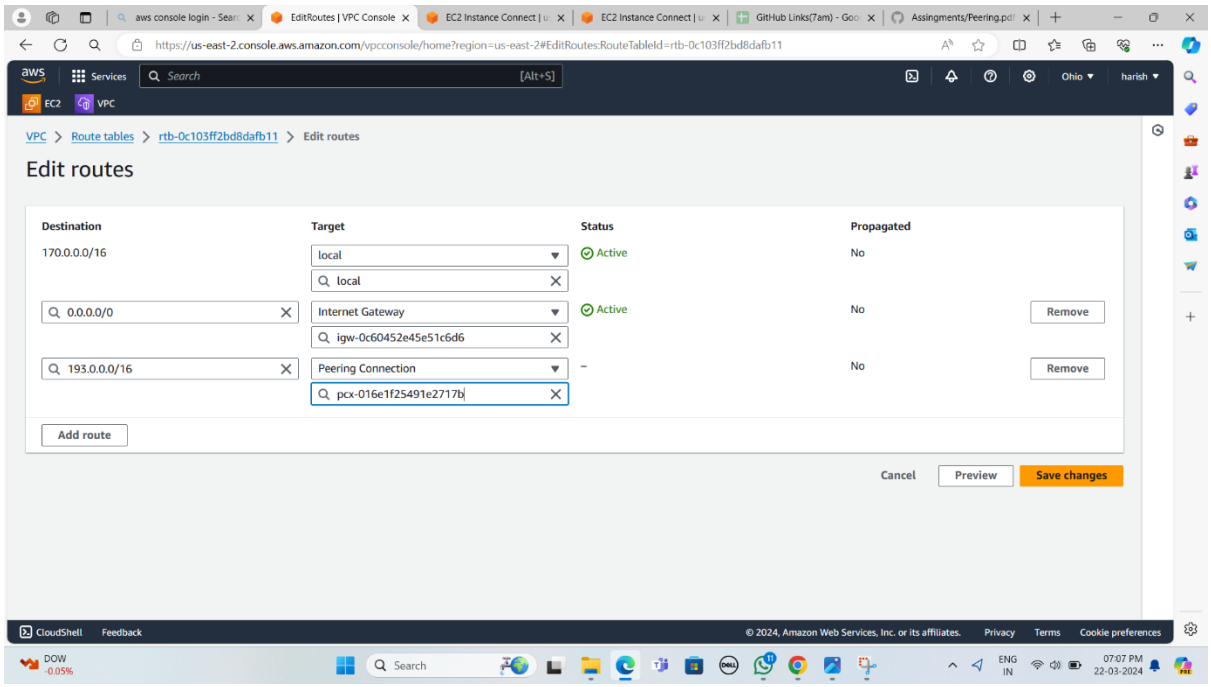
Create a VPC peering connection

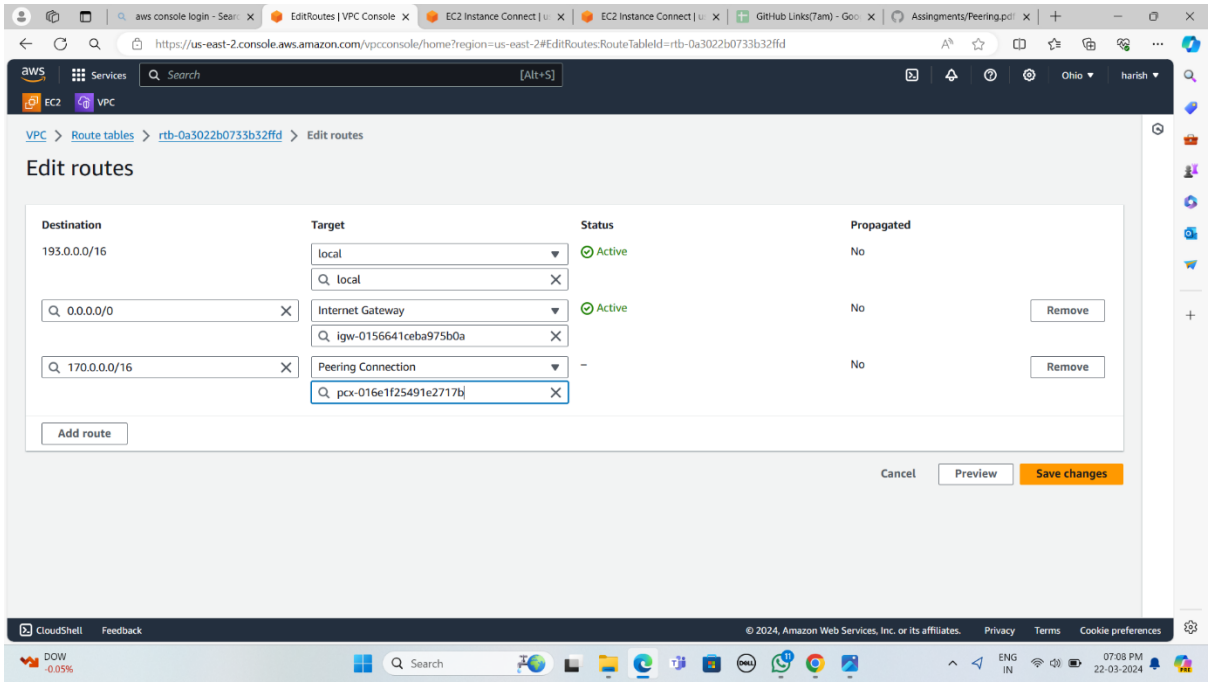
A VPC peering connection is networking connection between Two VPCs. Then create a VPC peering connection, One VPC as (requester) and another VPC as (accepter)



Then update route tables for VPC peering connections

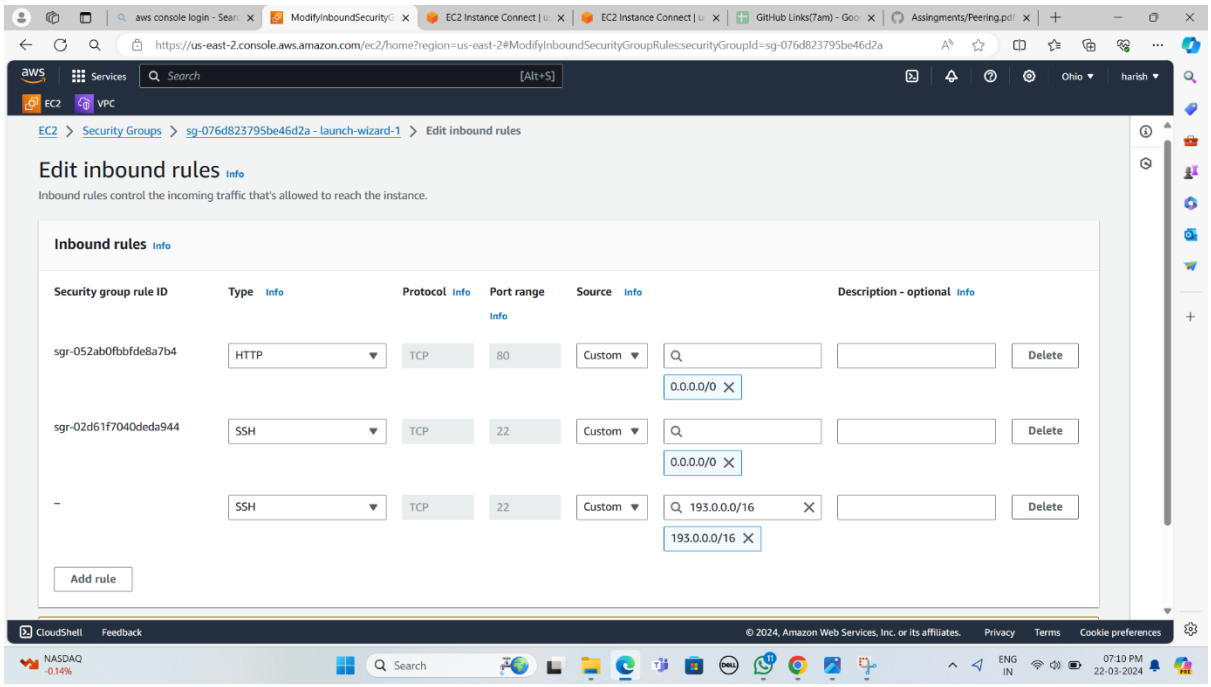
To add IPv4 route for VPC peering connection,

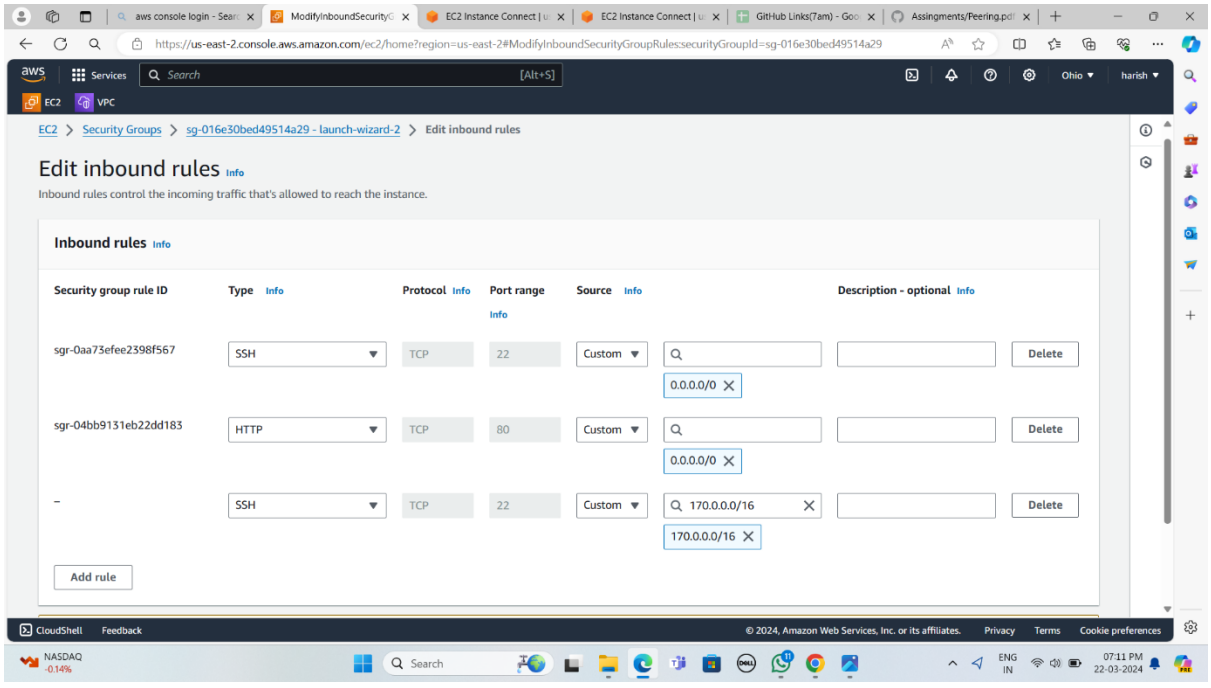




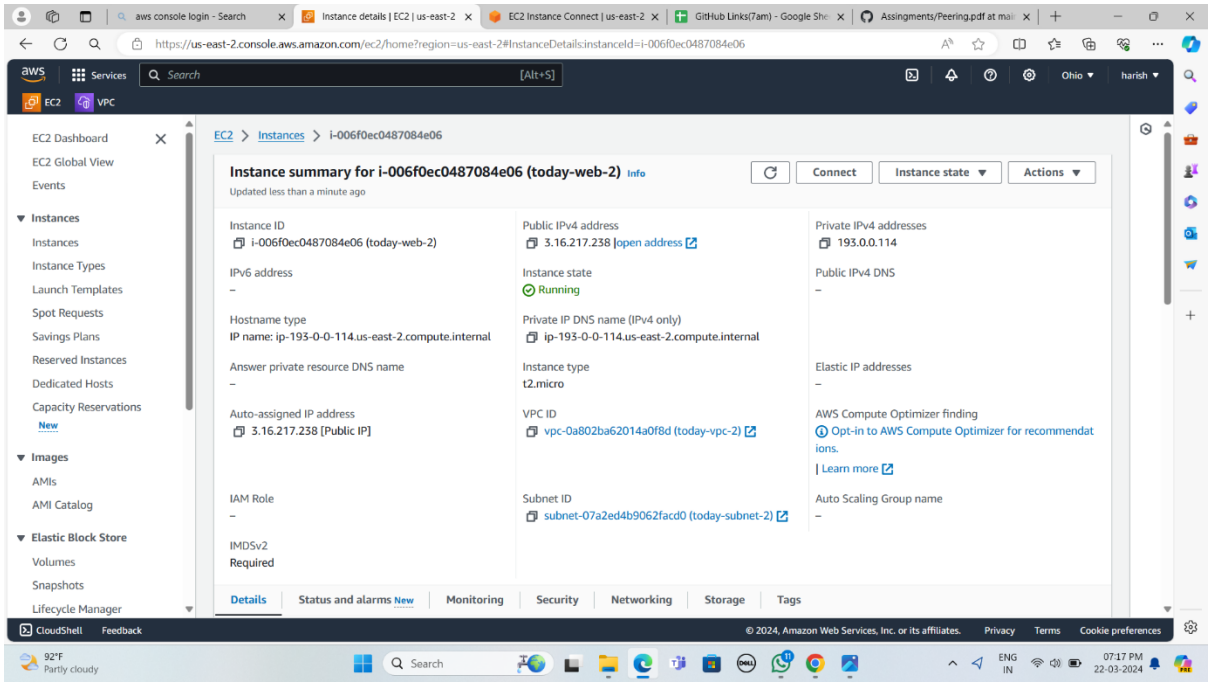
Update the security groups,

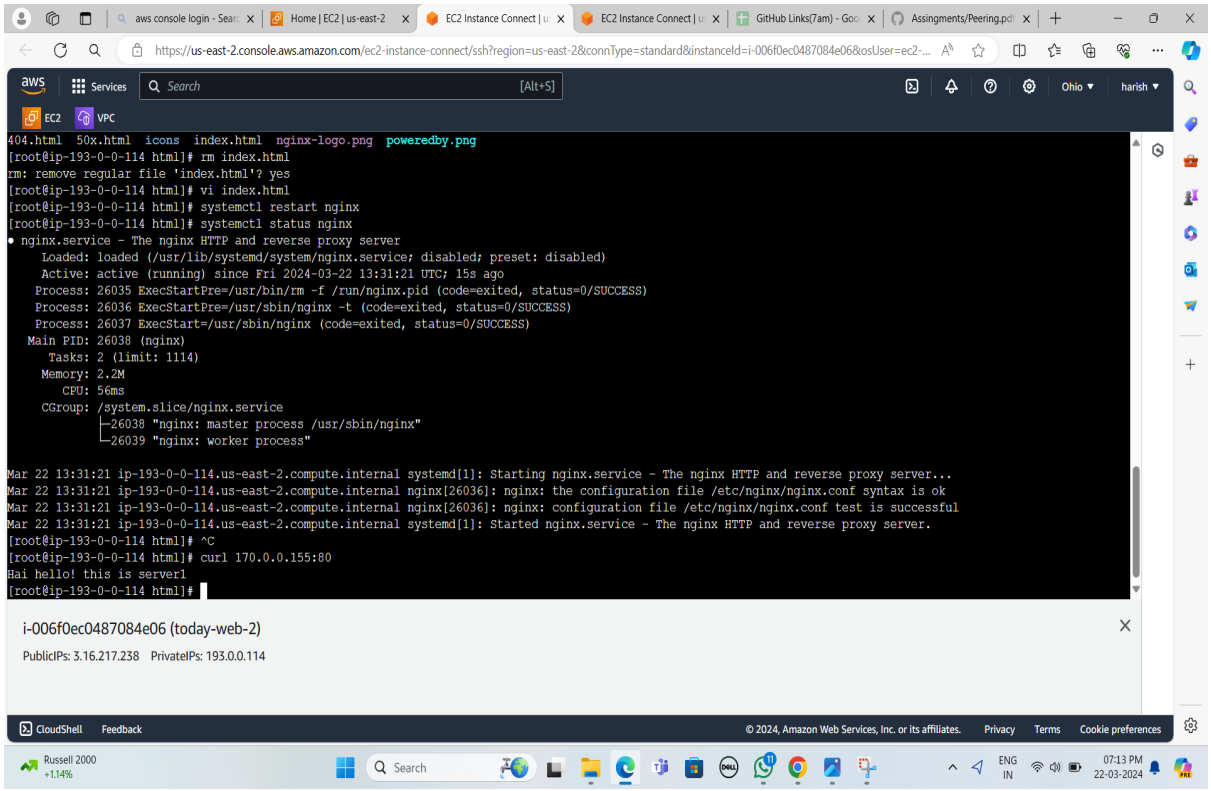
To updating a security group rules using console





After update the security group rules, to connect any server, copy private address and past it. Add by using (curl)


Instance summary for i-006f0ec0487084e06 (today-web-2)
Connect
Instance state
Actions
Instance ID
i-006f0ec0487084e06 (today-web-2)
Public IPv4 address
3.16.217.238 open address
Private IPv4 addresses
193.0.0.114
IPv6 address
–
Instance state
Running
Public IPv4 DNS
–
Hostname type
IP name: ip-193-0-0-114.us-east-2.compute.internal
Private IP DNS name (IPv4 only)
ip-193-0-0-114.us-east-2.compute.internal
Answer private resource DNS name
–
Instance type
t2.micro
Elastic IP addresses
–
Auto-assigned IP address
3.16.217.238 [Public IP]
VPC ID
vpc-0a802ba62014a0f8d (today-vpc-2)
AWS Compute Optimizer finding
Opt-in to AWS Compute Optimizer for recommendations.
Learn more
IAM Role
–
Subnet ID
subnet-07a2ed4b9062facd0 (today-subnet-2)
Auto Scaling Group name
–
IMDSv2
Required
Details
Status and alarms New
Monitoring
Security
Networking
Storage
Tags


404.html 50x.html icons index.html nginx-logo.png poweredby.png
[root@ip-193-0-0-114 html]# rm index.html
rm: remove regular file 'index.html'? yes
[root@ip-193-0-0-114 html]# vi index.html
[root@ip-193-0-0-114 html]# systemctl restart nginx
[root@ip-193-0-0-114 html]# systemctl status nginx
● nginx.service - The nginx HTTP and reverse proxy server
Loaded: loaded (/usr/lib/systemd/system/nginx.service; disabled; preset: disabled)
Active: active (running) since Fri 2024-03-22 13:31:21 UTC; 15s ago
Process: 26035 ExecStartPre=/usr/bin/rm -f /run/nginx.pid (code=exited, status=0/SUCCESS)
Process: 26036 ExecStartPre=/usr/sbin/nginx -t (code=exited, status=0/SUCCESS)
Process: 26037 ExecStart=/usr/sbin/nginx (code=exited, status=0/SUCCESS)
Main PID: 26038 (nginx)
Tasks: 2 (limit: 1114)
Memory: 2.2M
CPU: 56ms
CGroup: /system.slice/nginx.service
├─26038 "nginx: master process /usr/sbin/nginx"
└─26039 "nginx: worker process"
Mar 22 13:31:21 ip-193-0-0-114.us-east-2.compute.internal systemd[1]: Starting nginx.service - The nginx HTTP and reverse proxy server...
Mar 22 13:31:21 ip-193-0-0-114.us-east-2.compute.internal nginx[26036]: nginx: the configuration file /etc/nginx/nginx.conf syntax is ok
Mar 22 13:31:21 ip-193-0-0-114.us-east-2.compute.internal nginx[26036]: nginx: configuration file /etc/nginx/nginx.conf test is successful
Mar 22 13:31:21 ip-193-0-0-114.us-east-2.compute.internal systemd[1]: Started nginx.service - The nginx HTTP and reverse proxy server.
[root@ip-193-0-0-114 html]# ^C
[root@ip-193-0-0-114 html]# curl 170.0.0.155:80
Hai hello! this is server1
[root@ip-193-0-0-114 html]#
i-006f0ec0487084e06 (today-web-2)
PublicIPs: 3.16.217.238 PrivateIPs: 193.0.0.114