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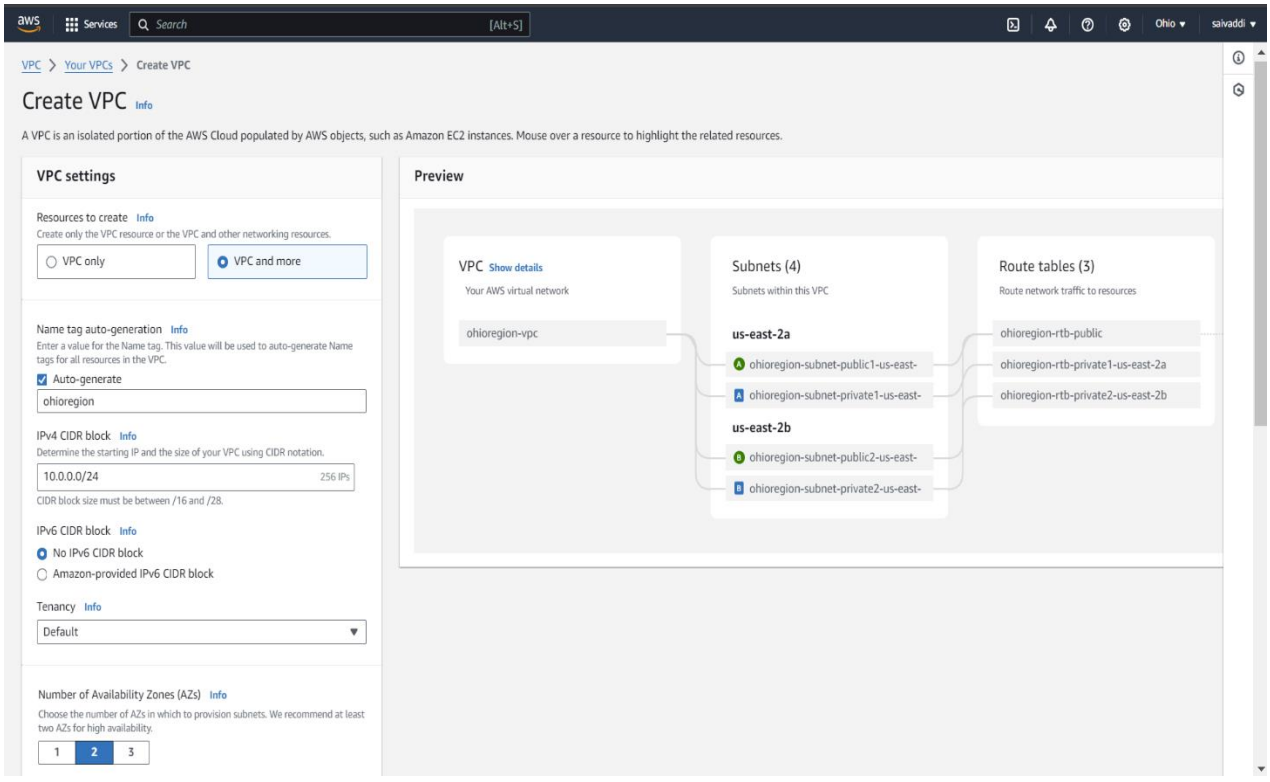
Batch No: 129

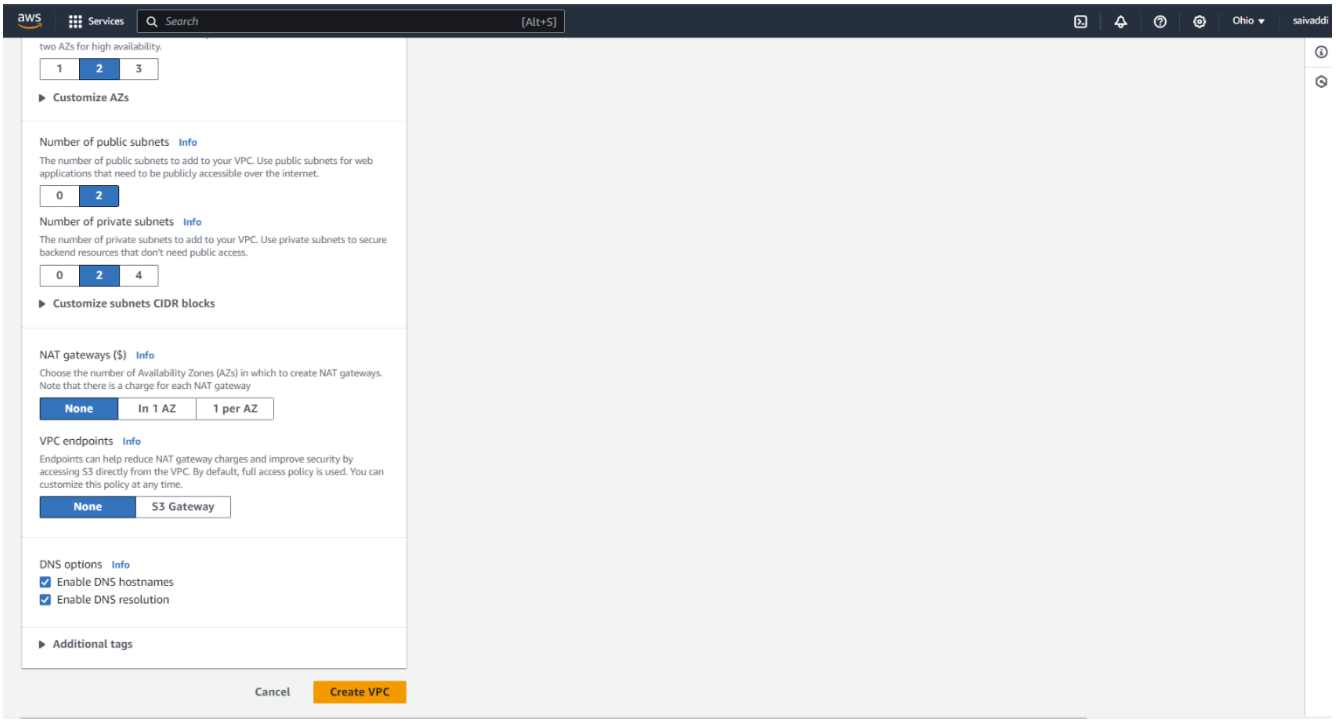
CASE STUDY

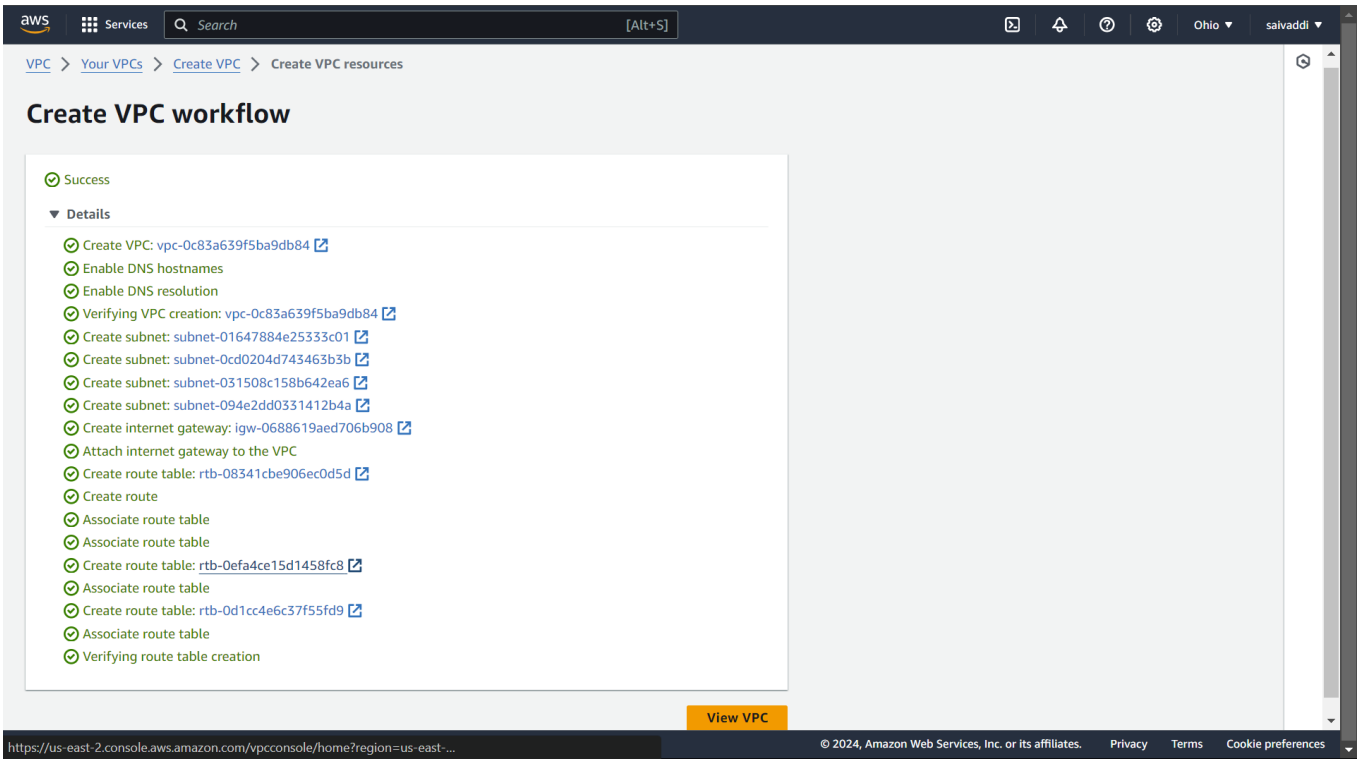
Create two VPCs in different regions and connect the two vpc's using peering.

Step 0: Login to aws account with the credentials.

Step 1: Create a VPC in Ohio Region




aws
Services
Search
[Alt+S]
Ohio
saivaddi
two AZs for high availability.
1
2
3
Customize AZs
Number of public subnets Info
The number of public subnets to add to your VPC. Use public subnets for web applications that need to be publicly accessible over the internet.
0
2
Number of private subnets Info
The number of private subnets to add to your VPC. Use private subnets to secure backend resources that don't need public access.
0
2
4
Customize subnets CIDR blocks
NAT gateways ($) Info
Choose the number of Availability Zones (AZs) in which to create NAT gateways. Note that there is a charge for each NAT gateway
None
In 1 AZ
1 per AZ
VPC endpoints Info
Endpoints can help reduce NAT gateway charges and improve security by accessing S3 directly from the VPC. By default, full access policy is used. You can customize this policy at any time.
None
S3 Gateway
DNS options Info
Enable DNS hostnames
Enable DNS resolution
Additional tags
Cancel
Create VPC


aws
Services
Search
[Alt+S]
Ohio
saivaddi
VPC > Your VPCs > Create VPC > Create VPC resources
Create VPC workflow
Success
Details
Create VPC: vpc-0c83a639f5ba9db84
Enable DNS hostnames
Enable DNS resolution
Verifying VPC creation: vpc-0c83a639f5ba9db84
Create subnet: subnet-01647884e25333c01
Create subnet: subnet-0cd0204d743463b3b
Create subnet: subnet-031508c158b642ea6
Create subnet: subnet-094e2dd0331412b4a
Create internet gateway: igw-0688619aed706b908
Attach internet gateway to the VPC
Create route table: rtb-08341cbe906ec0d5d
Create route
Associate route table
Associate route table
Create route table: rtb-0efa4ce15d1458fc8
Associate route table
Create route table: rtb-0d1cc4e6c37f55fd9
Associate route table
Verifying route table creation
View VPC
https://us-east-2.console.aws.amazon.com/vpcconsole/home?region=us-east-...
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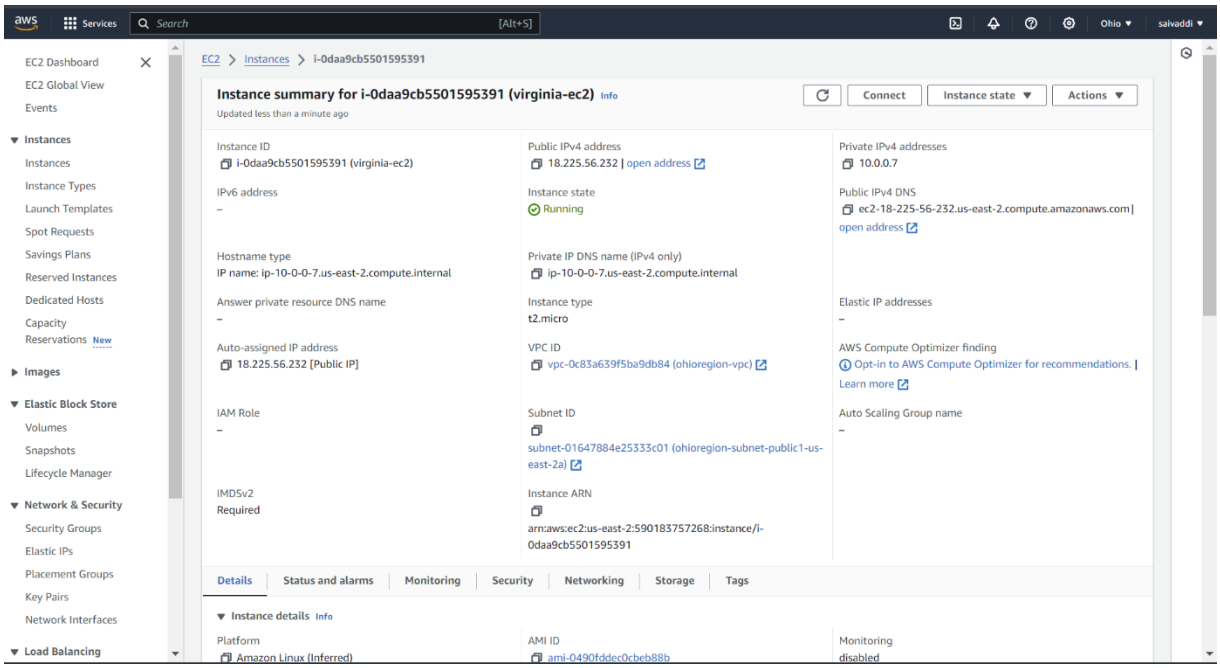
Cookie preferences

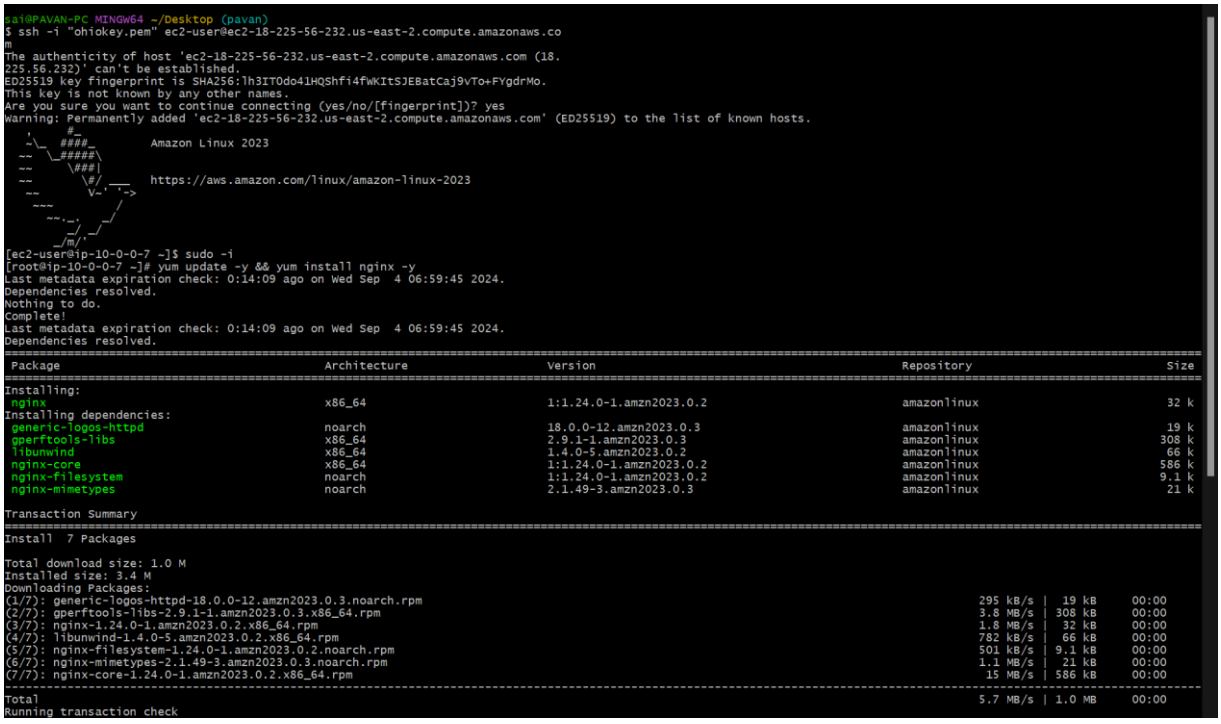
Step 2:

1. Create a EC2 with custom VPC (which is created above) in Ohio Region with Amazon Linux.



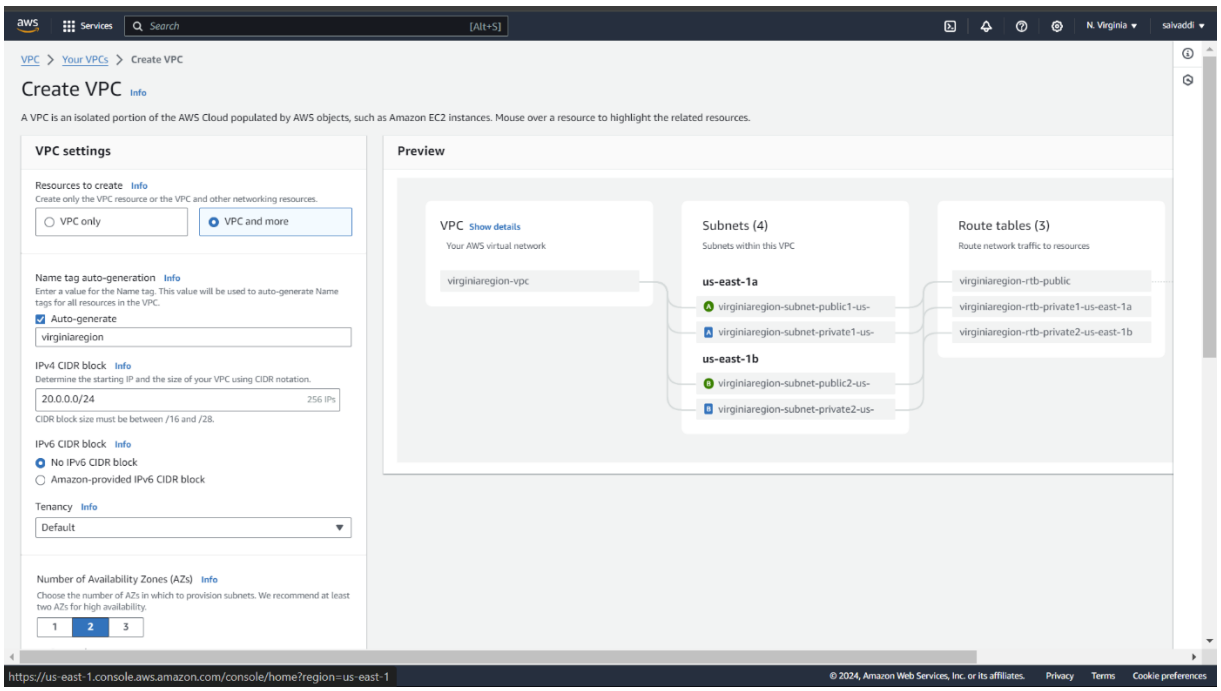
2. Install a nginx in EC2 and write the file index.html in /usr/share/nginx/html.

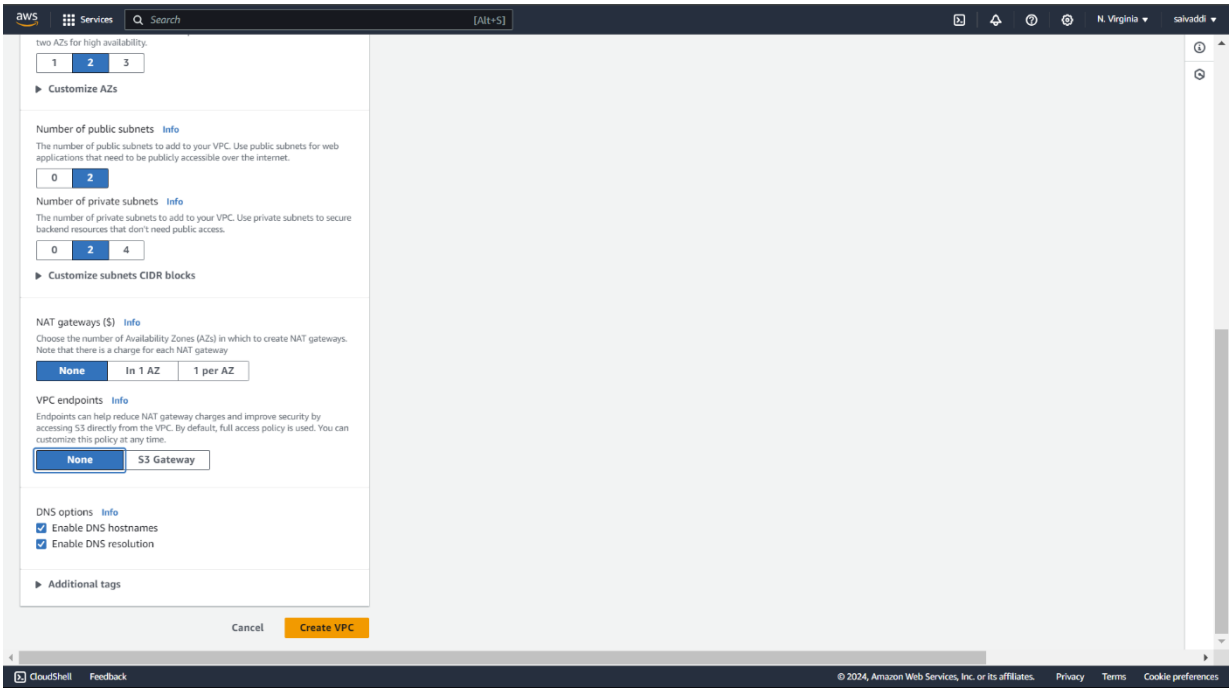
Command: yum install nginx -y

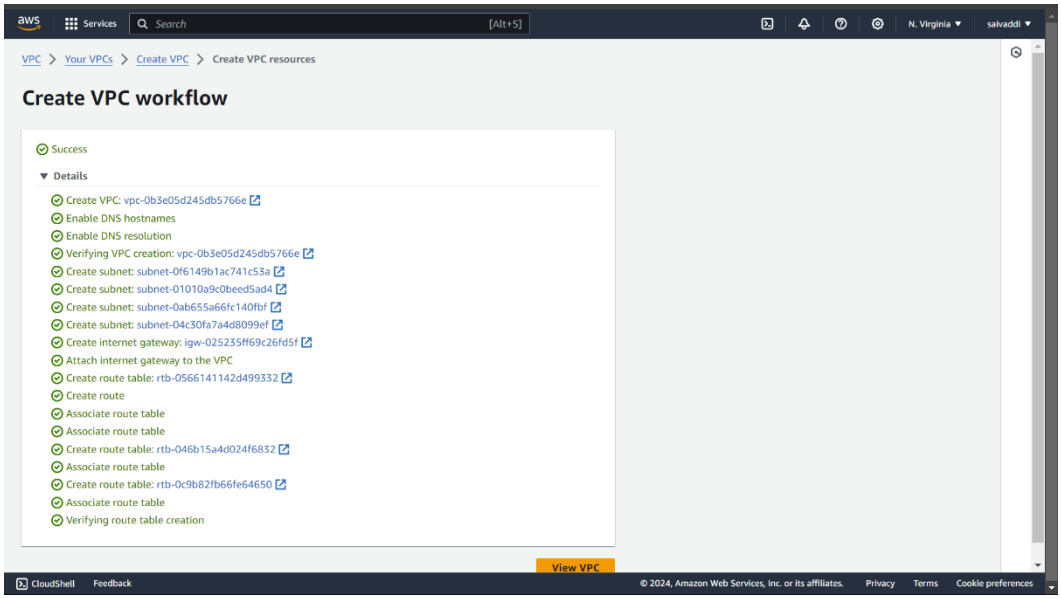


3. Write “This is Ohio server” in index.html.

Step 3: Create a VPC in N.Virginia region.

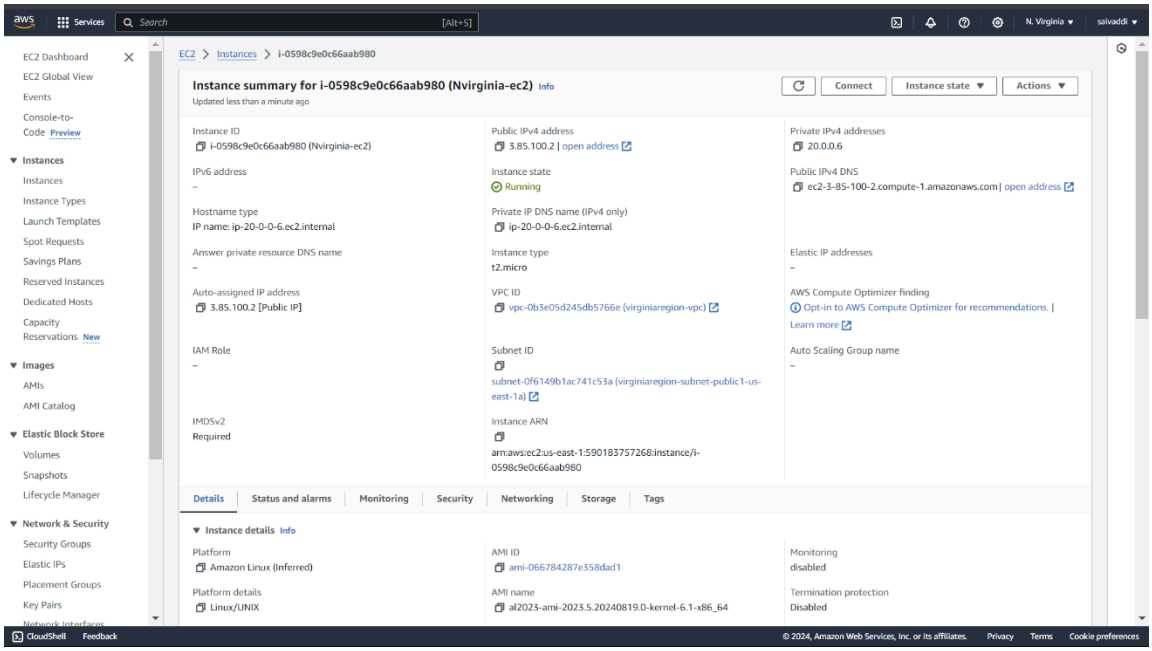






Step 4:

1. Create a EC2 with custom VPC (which is created above) in N.Virginia Region with Amazon Linux.

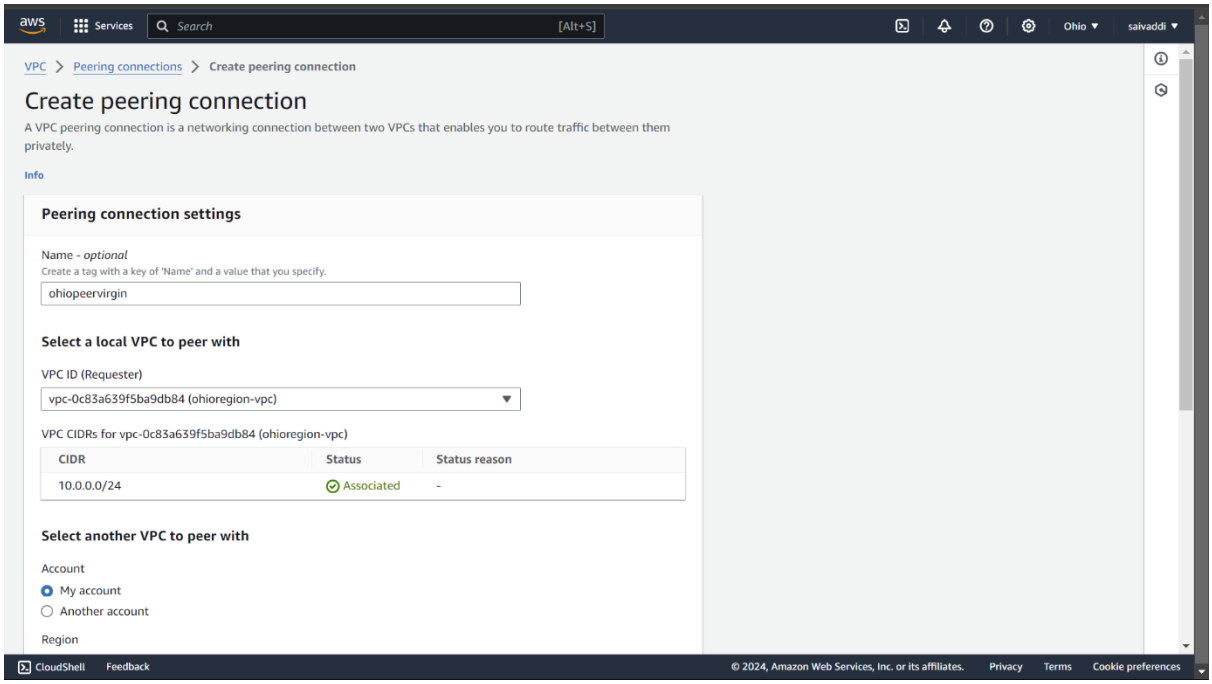


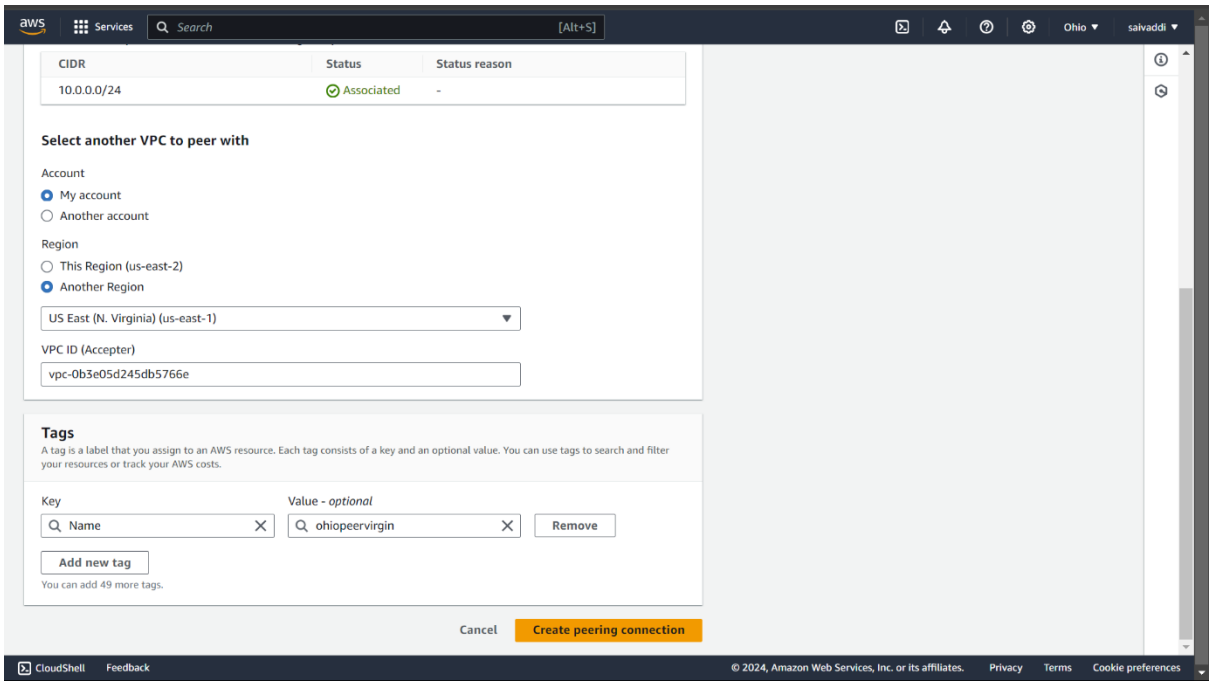
2. Install a nginx in EC2 and write the file index.html in /usr/share/nginx/html.

3. Write “This is Virginina server” in index.html.

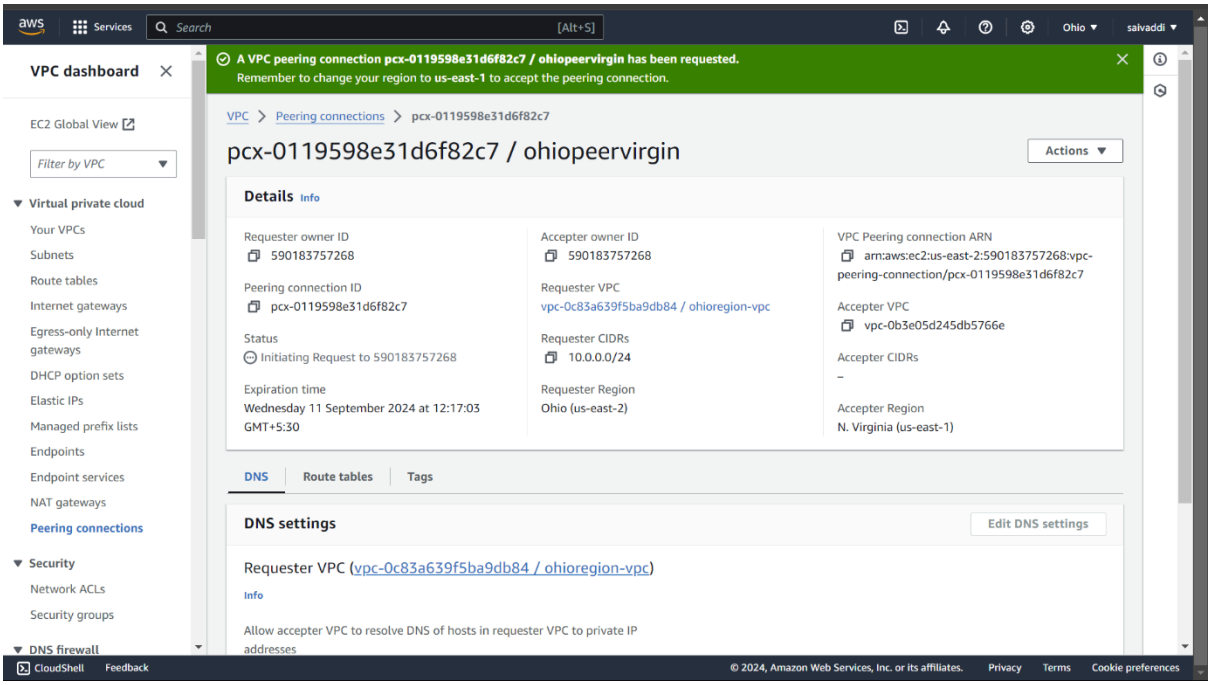
Step 5:

1. Create a peering connection in Ohio Region (VPC -> Peering Connection).

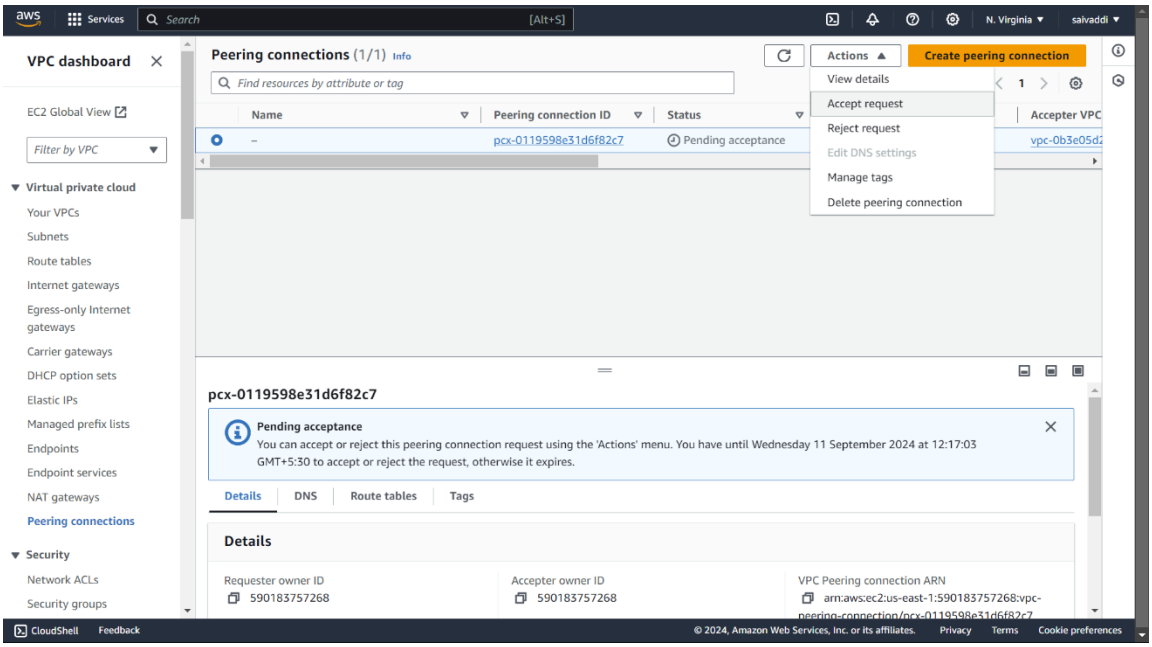




2. After successfully creation of peering connection in Ohio region Request sent to N.Virginia Region.



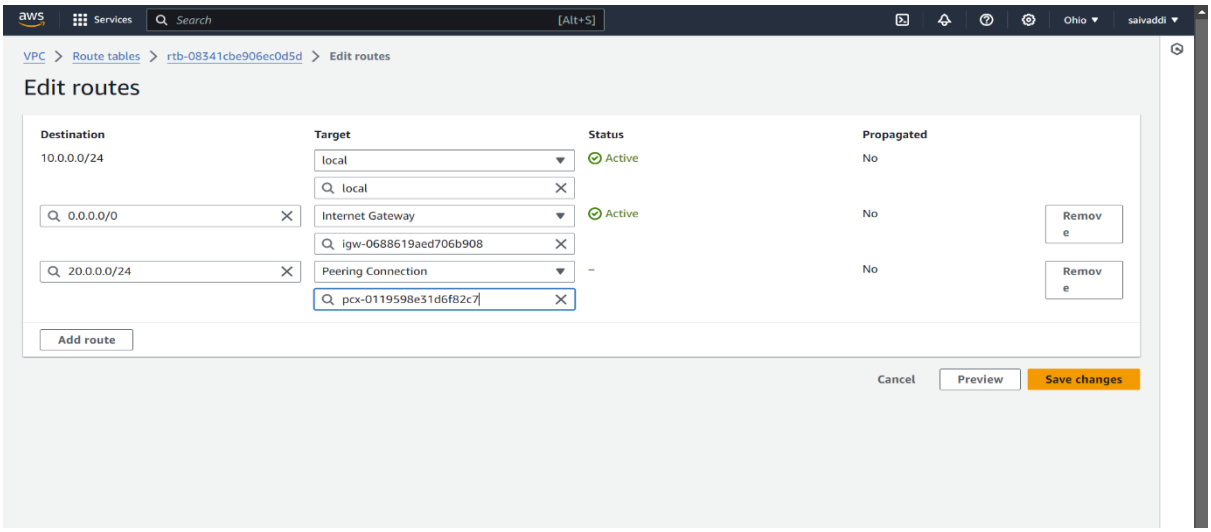
3. Now Accept the Peering Connection in N.Virginia Region.



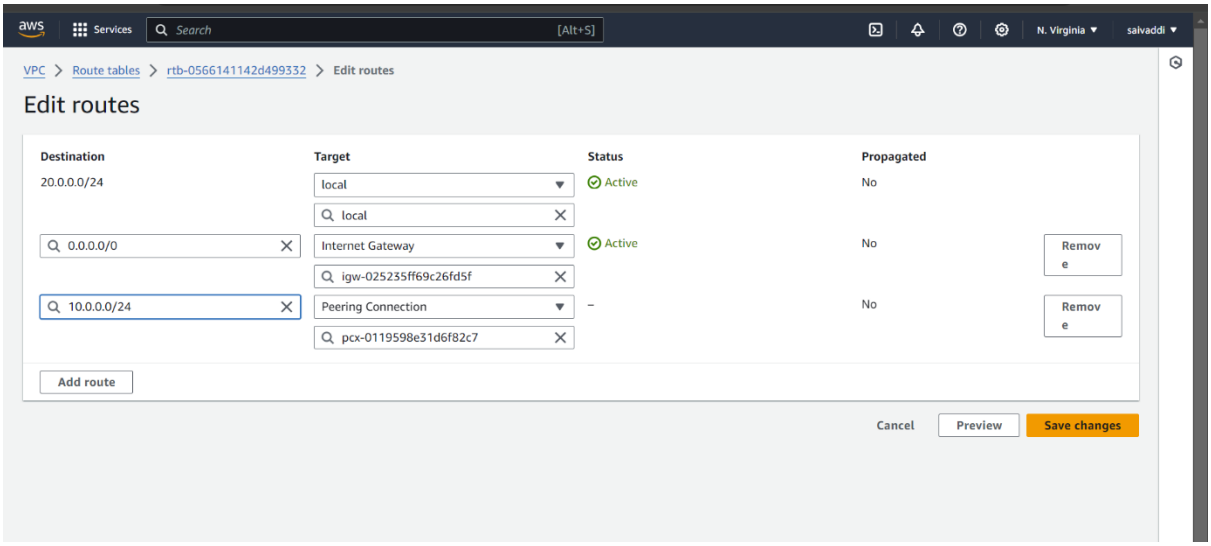
Step 6: Associate the peering connection in public route table in both regions.

(VPC -> Route Table -> Edit routes).

In Ohio Region,



In N.Viginia Region,



Step 7: Check the Peering Connection is established or not by pasting the ipv4 of ohio region EC2 in N.Virginia Region EC2 (vice-versa).

command: curl ipv4