PROJECT-7:

Creating a peering connection between instances:

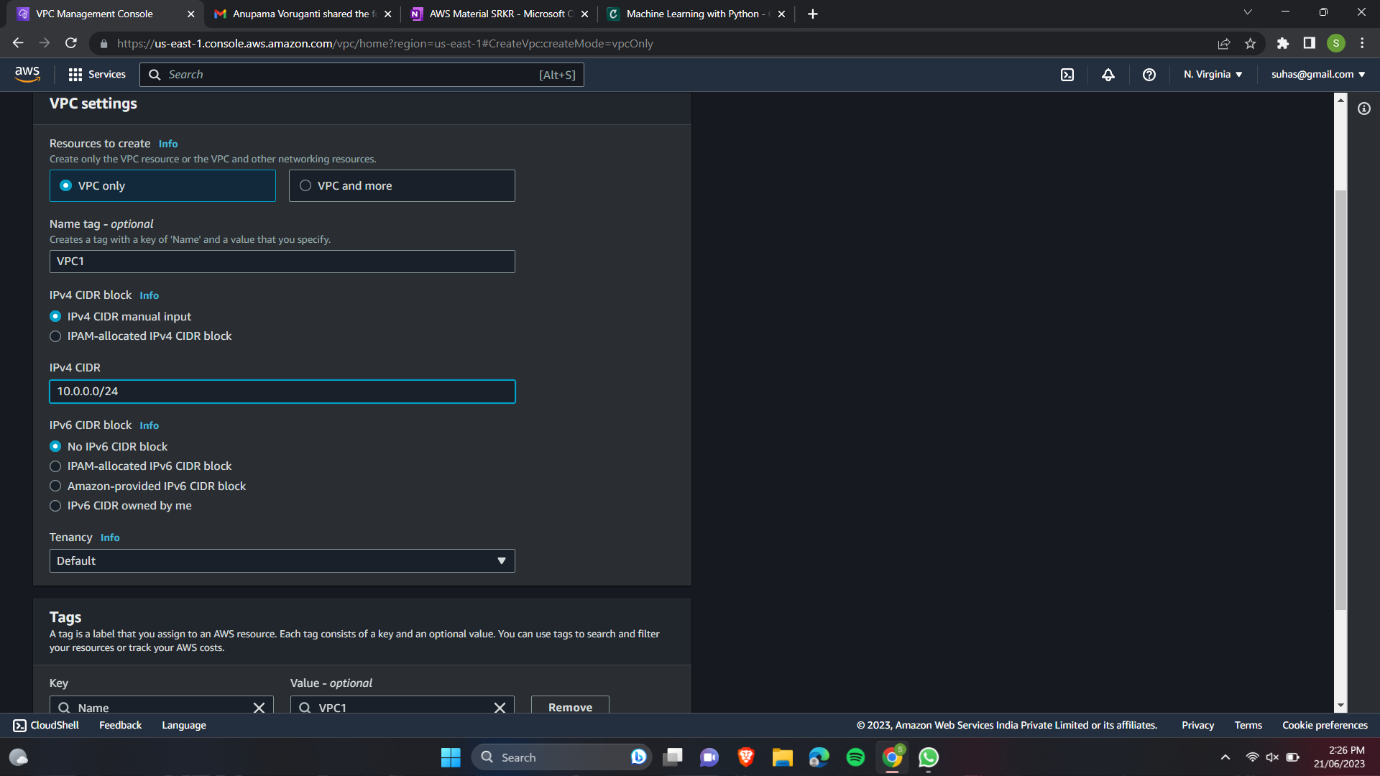
* A peering connection allows you to establish a private network connection between two Virtual Private Clouds (VPCs) in the same AWS region or in different AWS regions.
* It enables resources within the connected VPCs to communicate with each other as if they were on the same network.

VPC Requirements:

* Ensure that both VPCs have non-overlapping IP address ranges and do not have overlapping CIDR blocks.
* Also, make sure that the security groups and network ACLs associated with the subnets allow the necessary inbound and outbound traffic for the peering connection.
* Identify one VPC as the "requester" and the other as the "acceptor." The requester initiates the peering connection request, and the acceptor accepts or rejects the request.
* In the AWS Management Console or through the AWS CLI/APIs, create a peering connection request from the requester VPC to the acceptor VPC.
* Provide the necessary details such as the VPC IDs and the CIDR blocks of the VPCs.
* In the acceptor VPC, review and accept the peering connection request. You can either accept it manually or automate the acceptance using AWS CLI/APIs.

STEPS:

1.Create a VPC1 10.0.0.0/16 in N. Virginia region.



2.Create Subnet 10.0.1.0/24 in VPC1 1a AZ.

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3.Create internet gateway.

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4.Attach Internet gateway to VPC1.

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5.Add Internet gateway as a route to VPC1 "main" route table with destination 0.0.0.0/0.

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6.Associate VPC1 Subnet to Main Route table.

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7.Create a VPC2 192.168.0.0/16 in N. Virginia region.

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8.Create Subnet 192.168.1.0/24 in VPC2 1a AZ.

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9.Create internet gateway.

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10.Attach Internet gateway to VPC2.

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11.Add Internet gateway as a route to VPC2 "main" route table with destination 0.0.0.0/0.

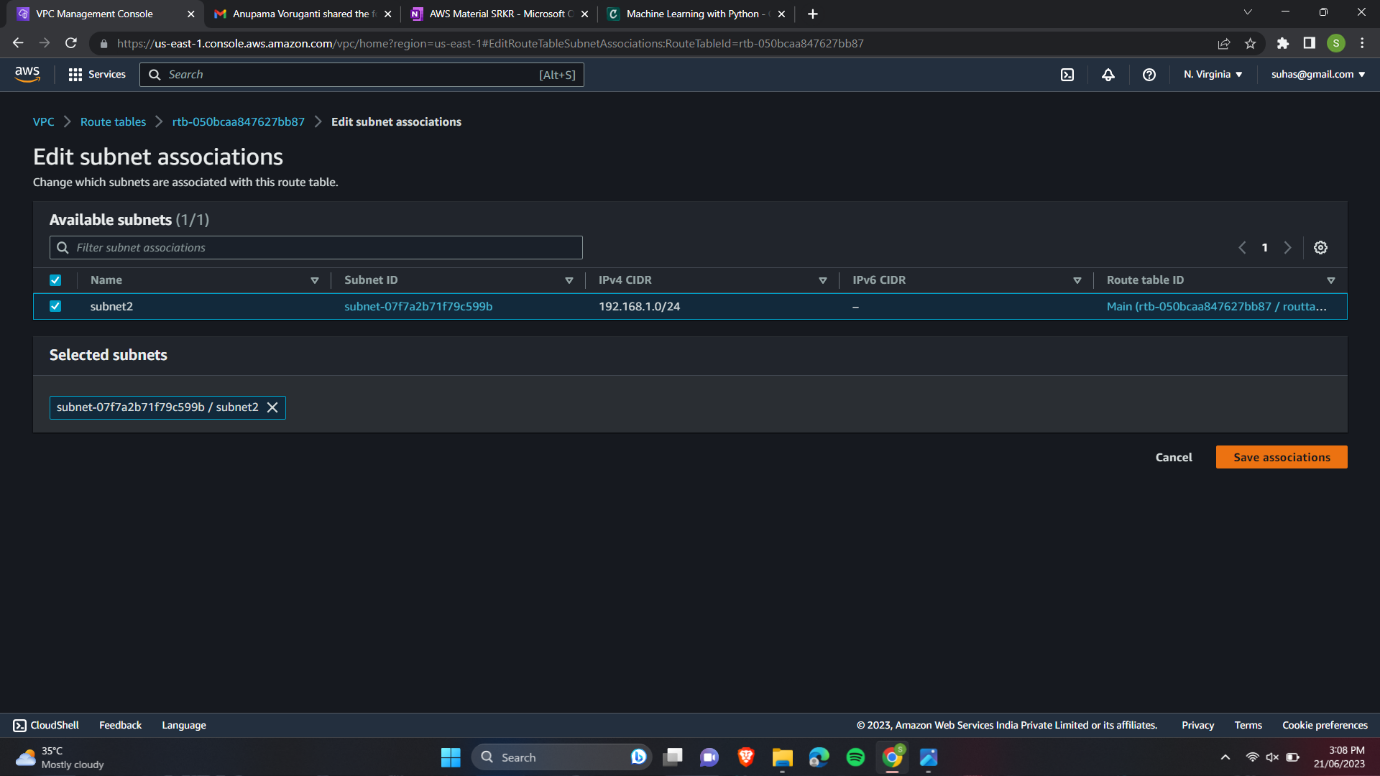
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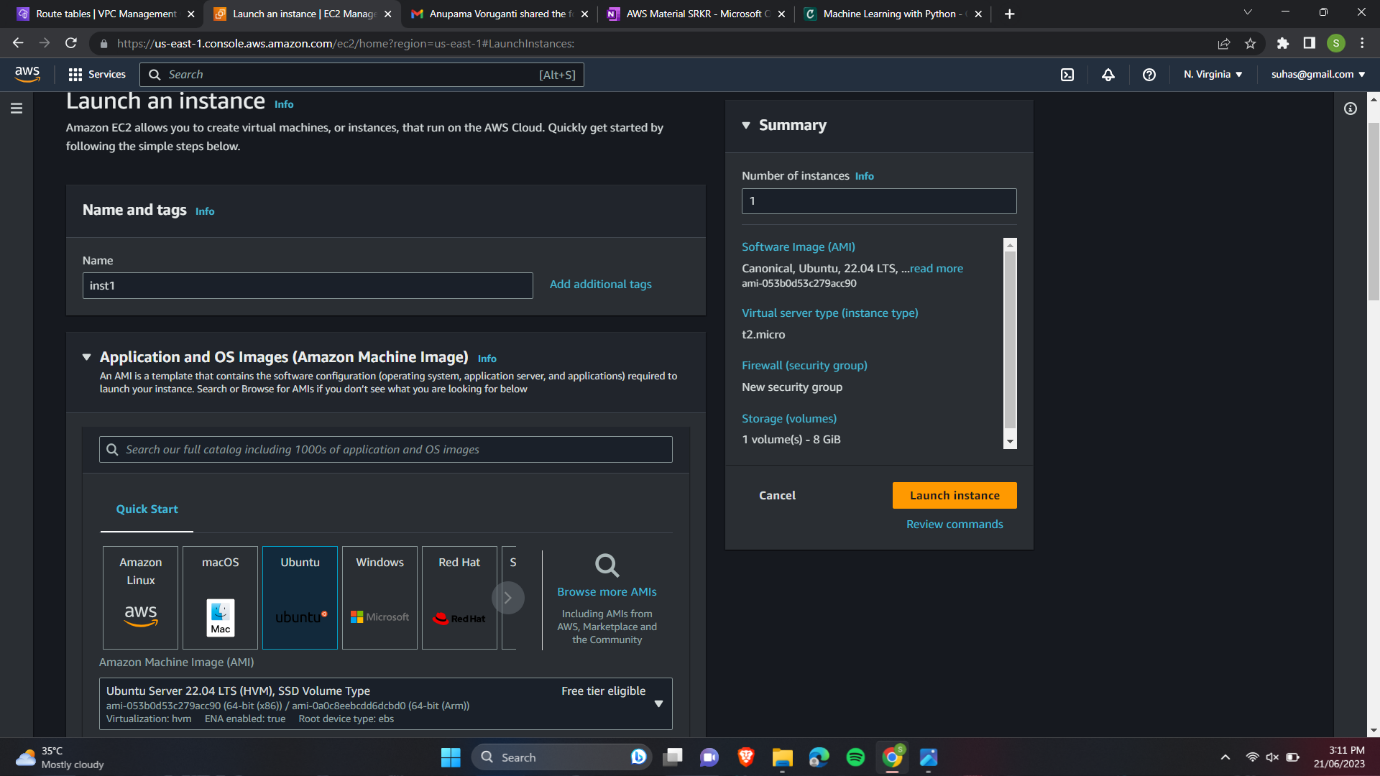
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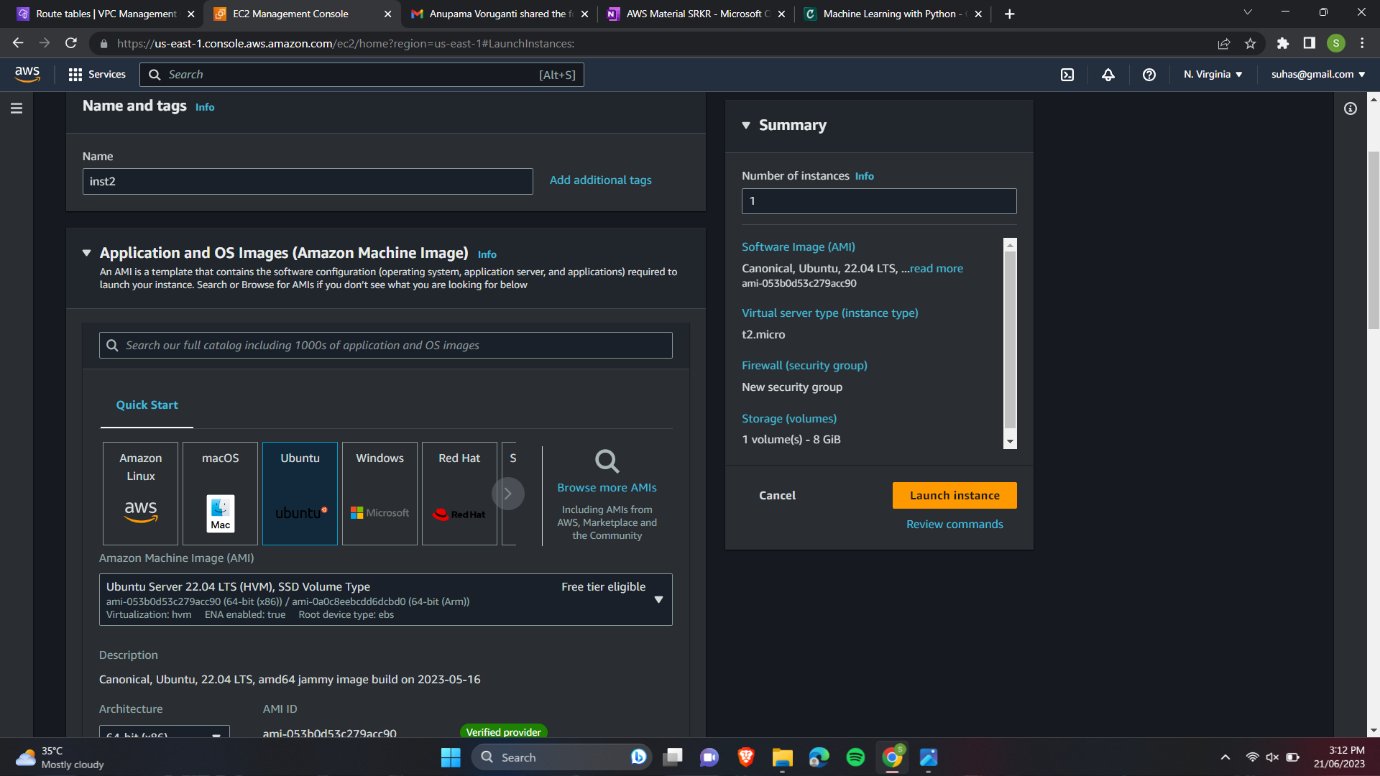
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12.Associate VPC2 Subnet to Main Route table.



13.Creating inst1 in VPC1 and inst2 in VPC2.





14. Create a peering connection between VPC1 and VPC2.

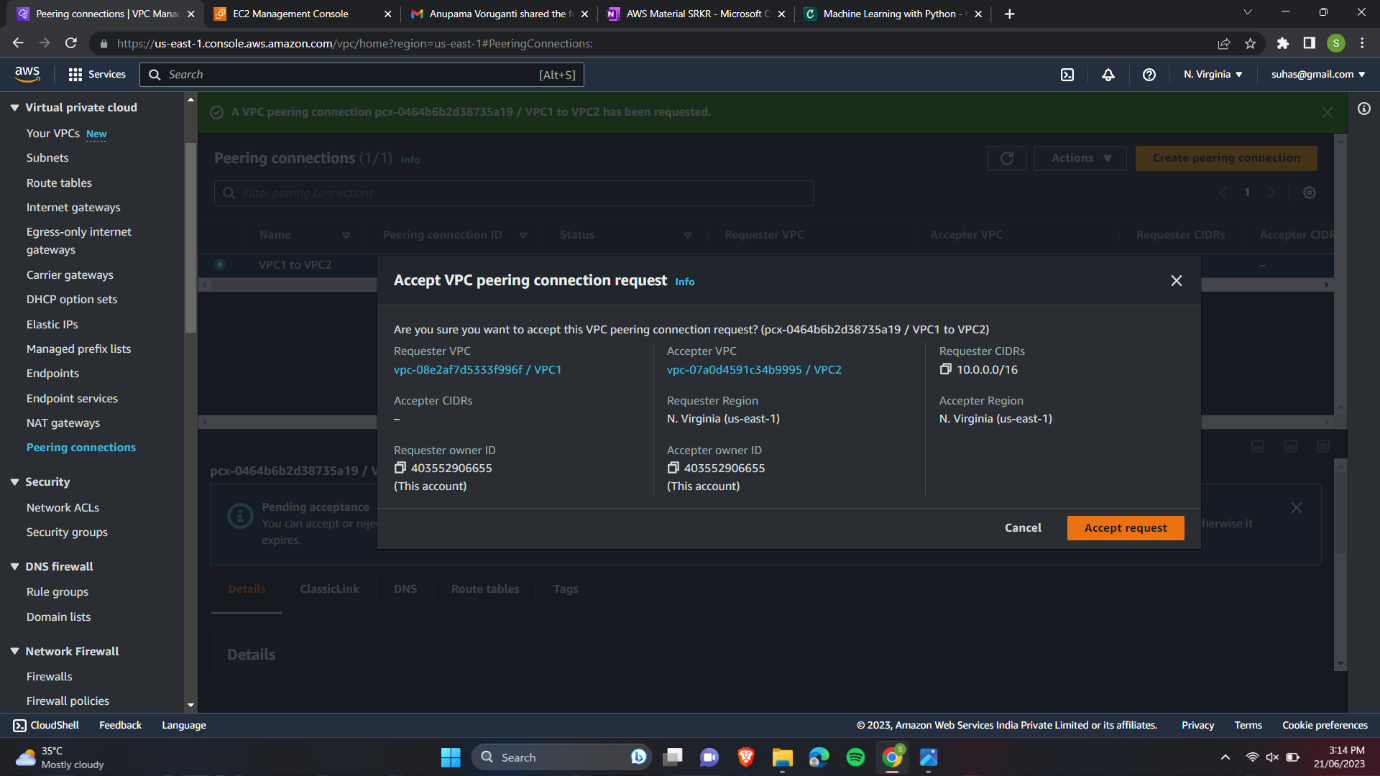
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15. Accept the request.

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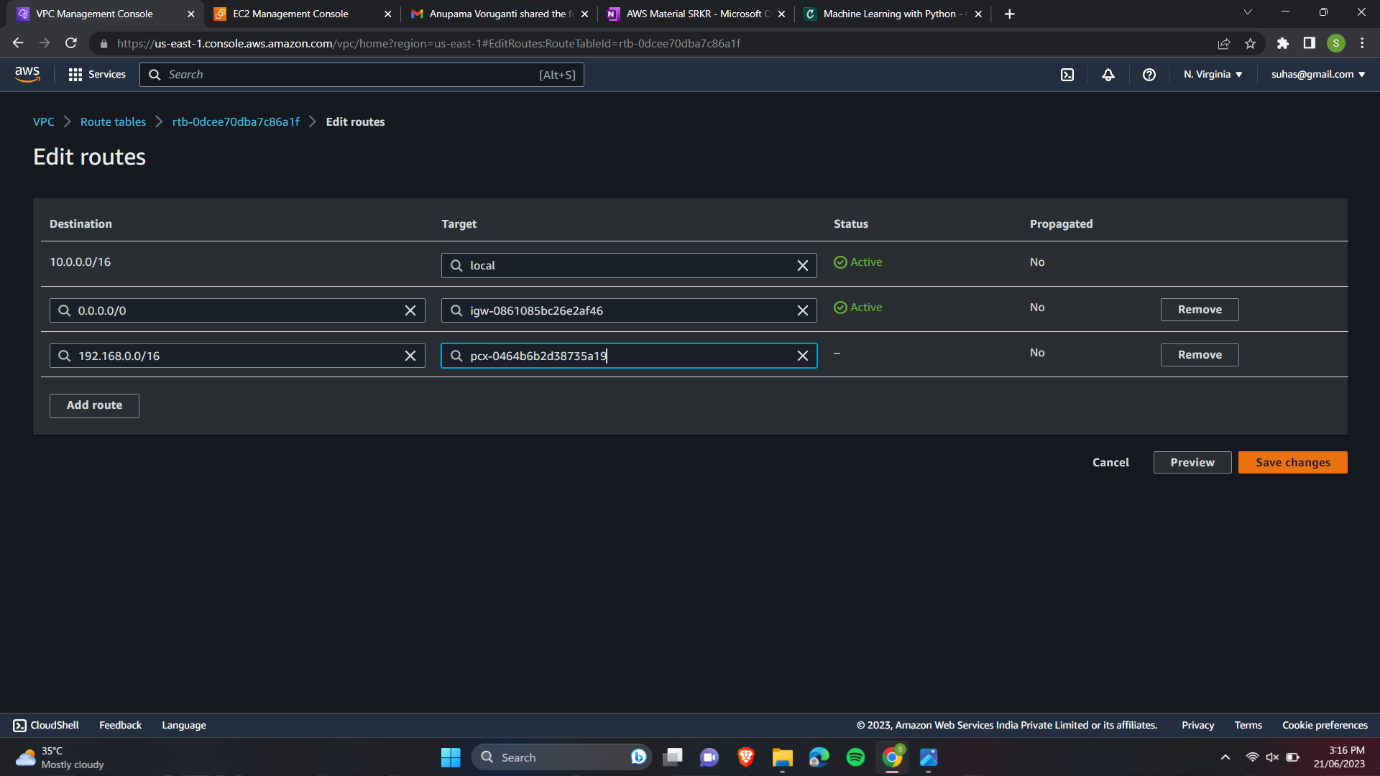
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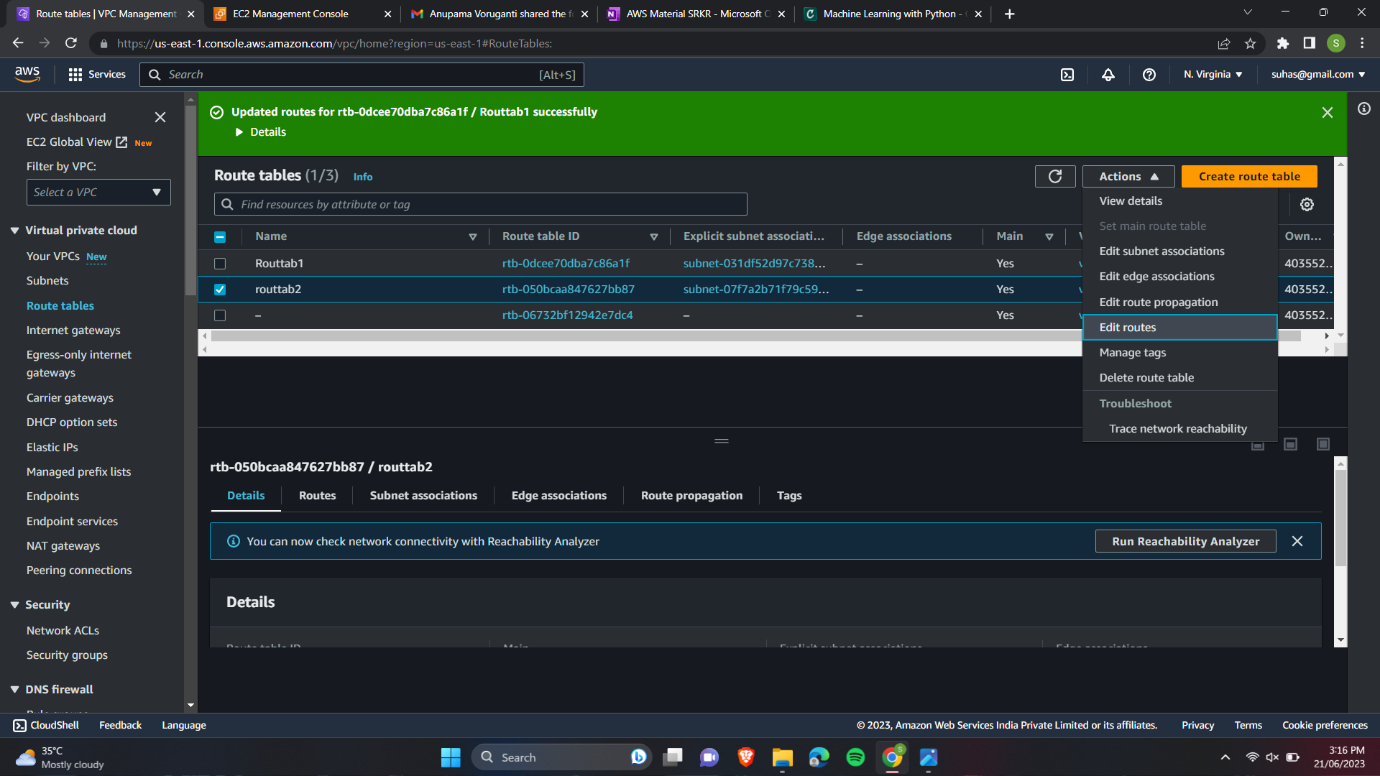
16. Add the peering route in VPC1 Main route table.

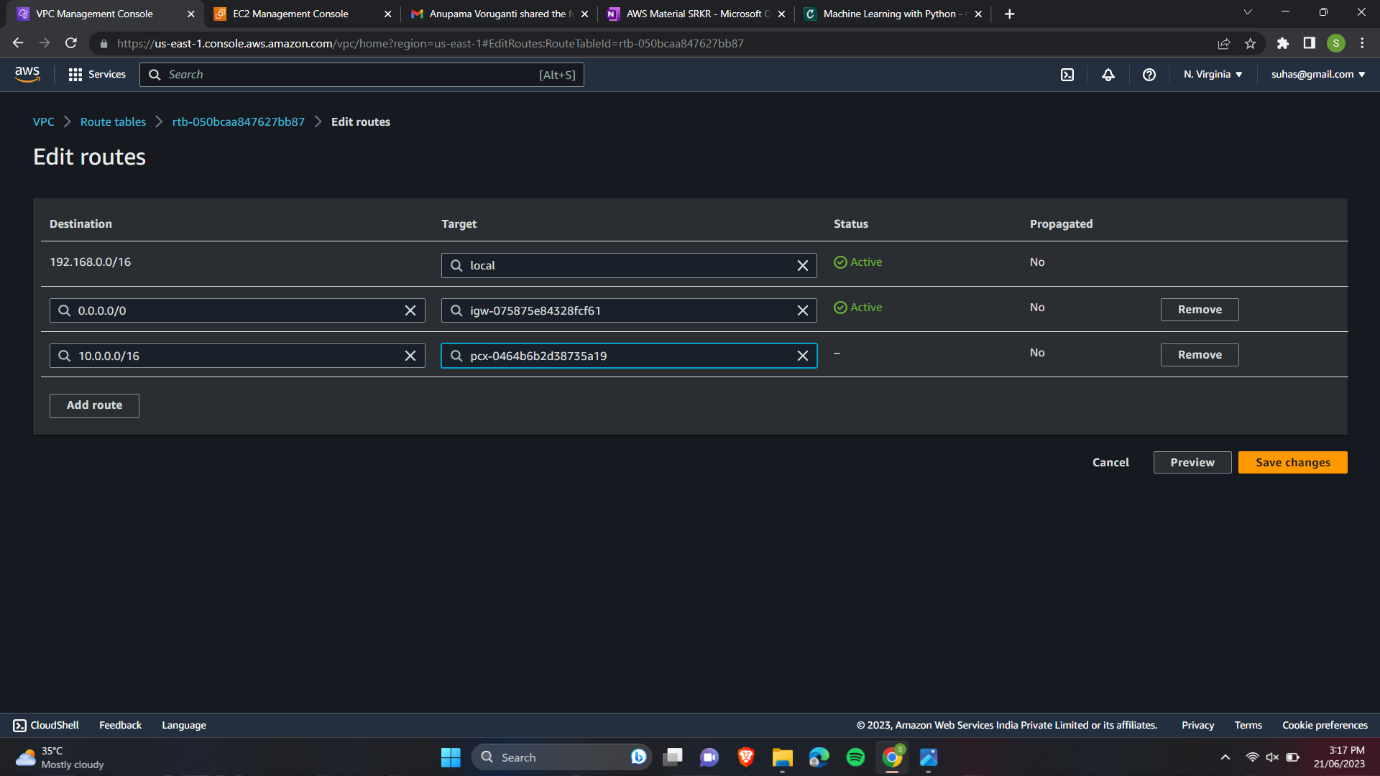
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17. Add the peering route in VPC2 Main route table.





18. Connecting to our public instance using git-bash.

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19. Updating our Ubnutu using sudo apt-get update.

A picture containing text, electronics, screenshot, software

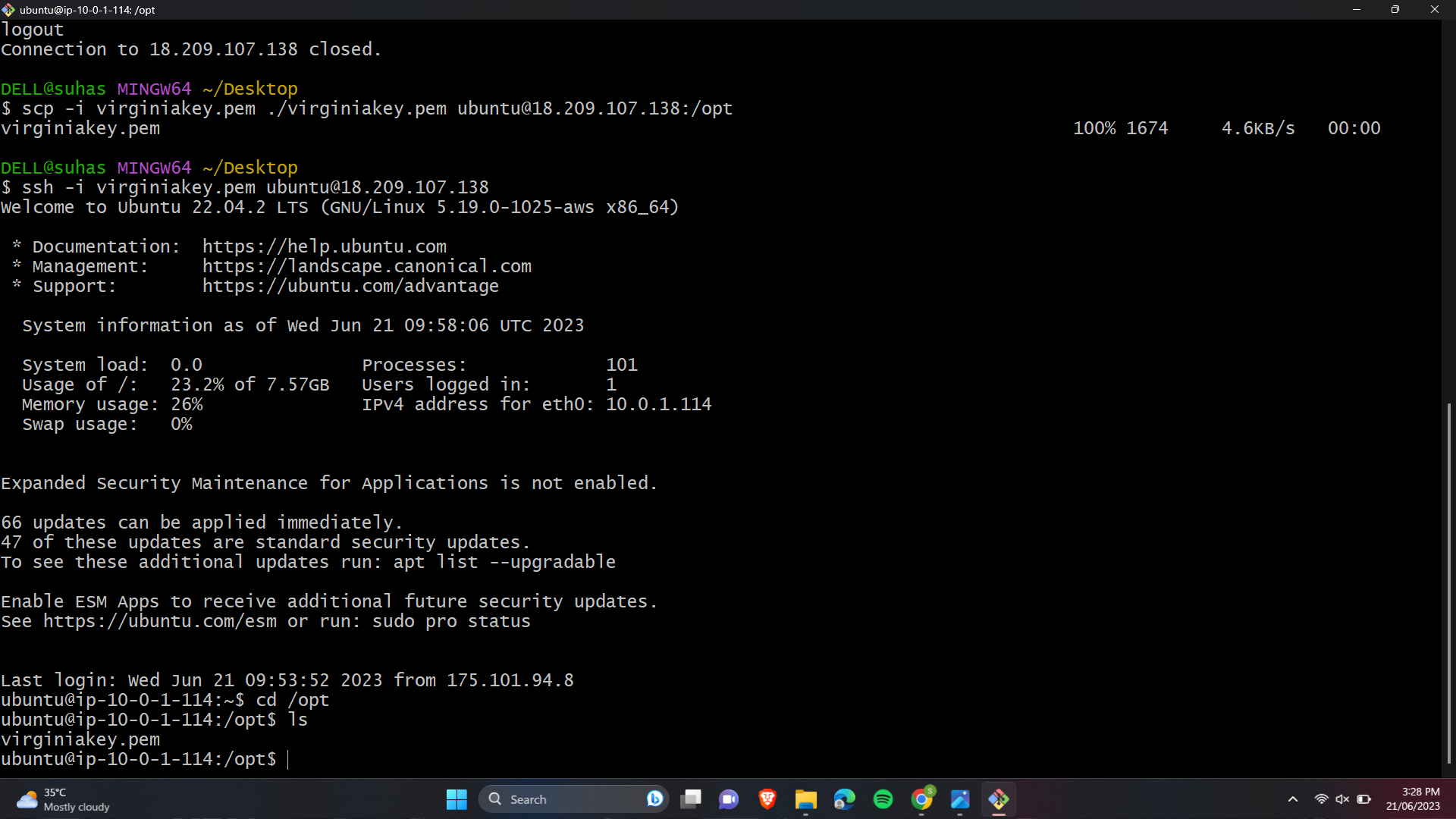
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20. Changing the permissions of opt folder and logging out of our instance.

A picture containing text, electronics, screenshot, software

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21. Copying the key-pair file of private instance into the opt folder of public instance. And connecting to public instance.



22. Changing the permissions of private key-pair file and connecting to private instance. Now if you try ping google.com you can see the traffic.

A screenshot of a computer

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