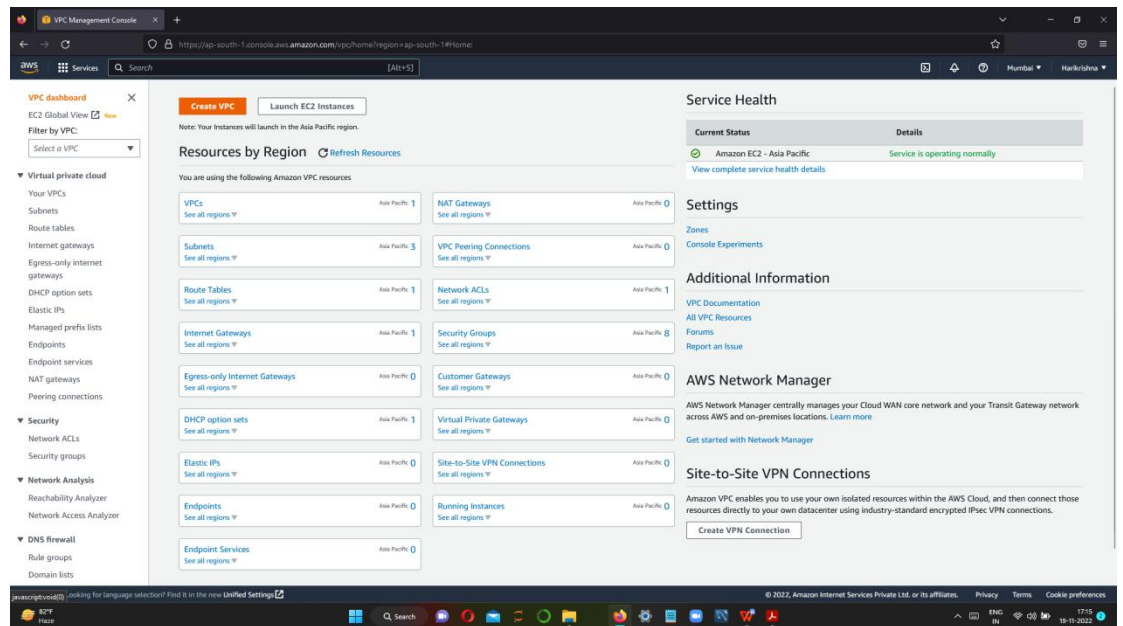


VPC CREATION

STEP 1

Choose the Service from AWS Console and single click



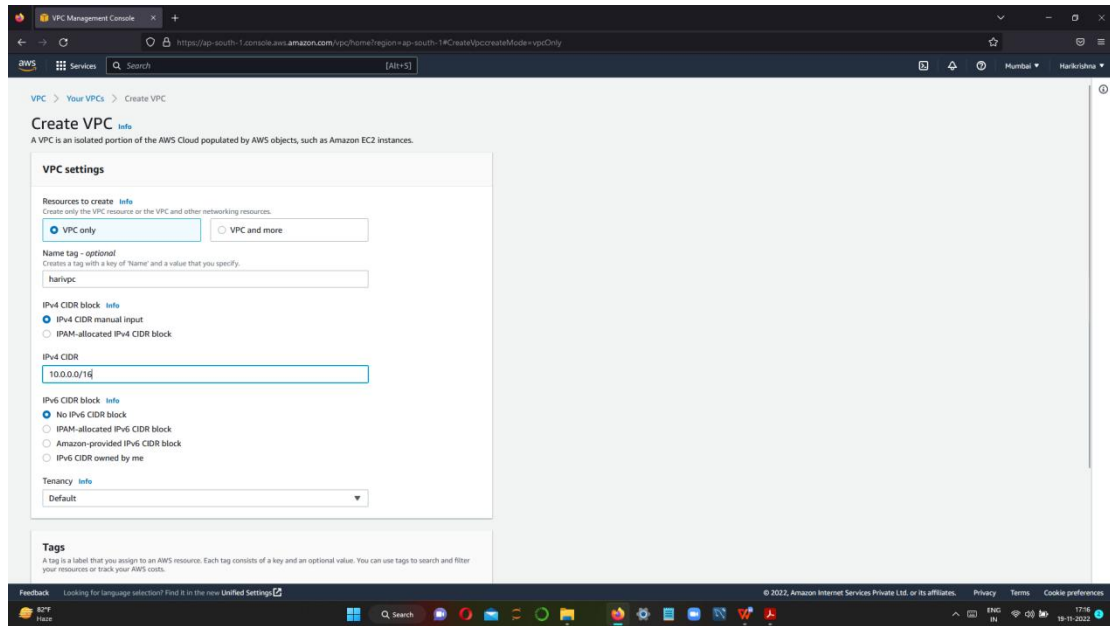
STEP 2

CLICK CREATE VPC

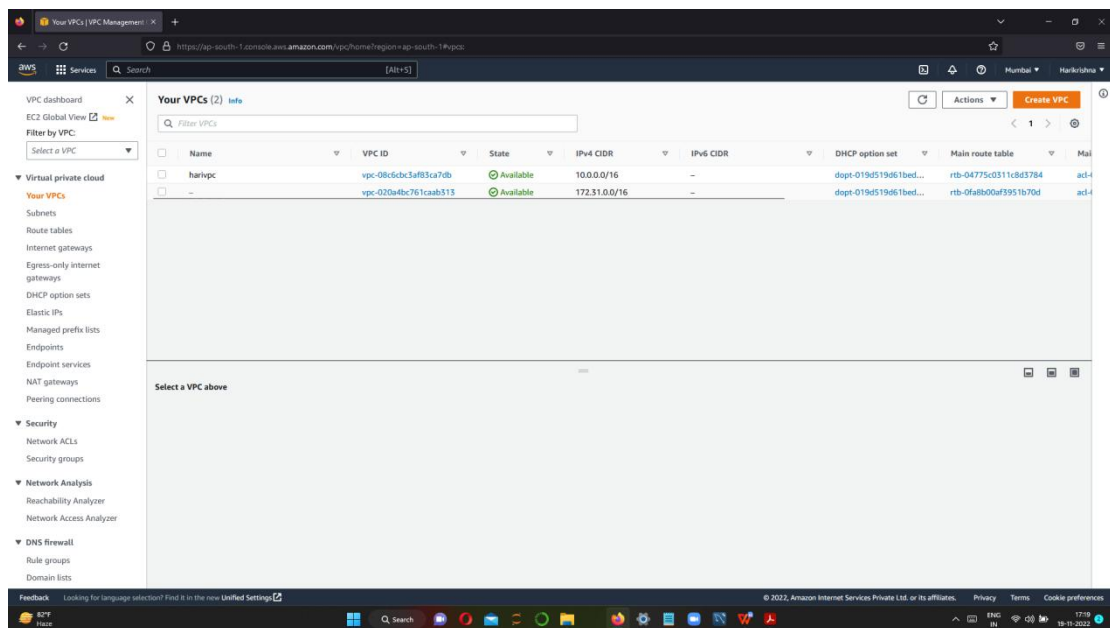
ENTER VPC NAME

GIVE IPV4 CIDR

CLICK CREATE



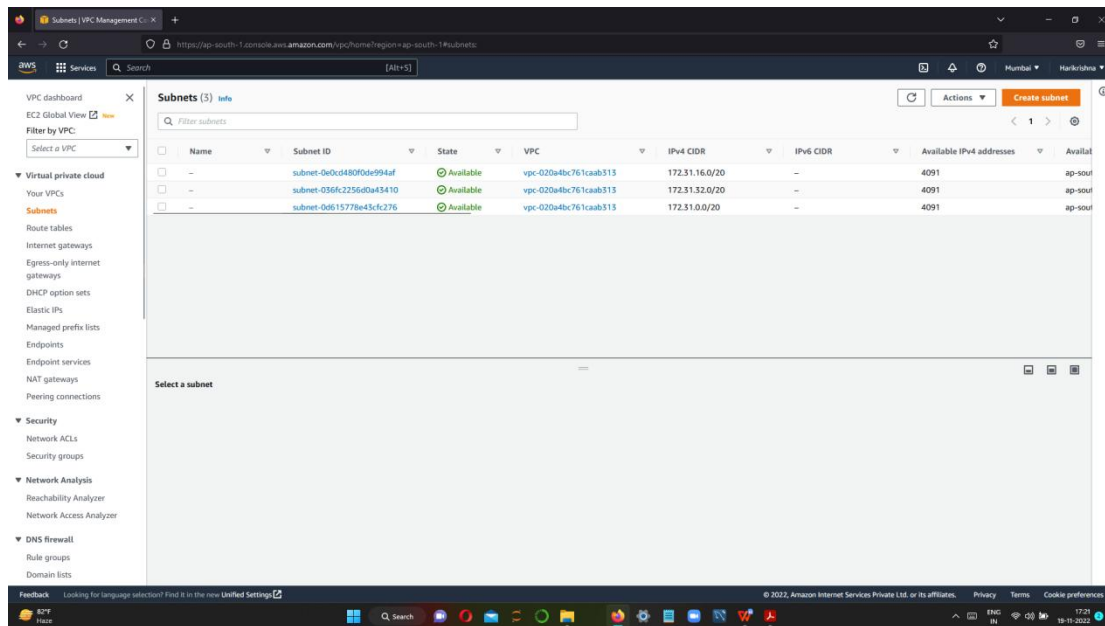
SUCCESSFULLY VPC CREATED



STEP 3 CREATE PUBLIC AND PRIVATE SUBNET

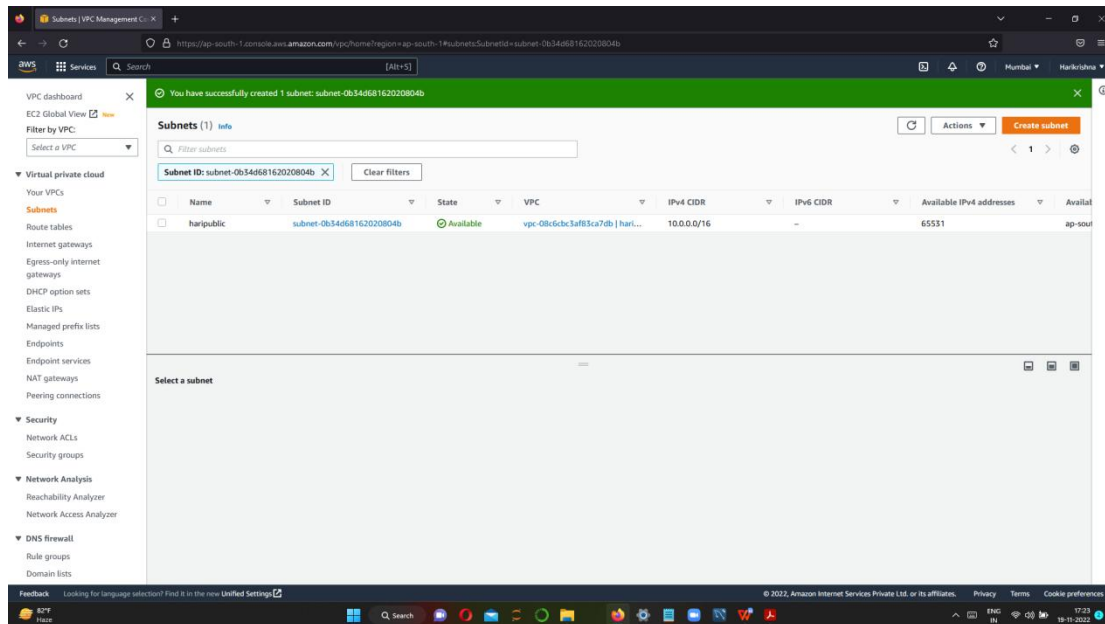
1) PUBLIC SUBNET CREATION

CLICK CREATE SUBNET



**FOR CREATING SUBNET
SELECT VPC NAME
ENTER SUBNET NAME
AVAILABILITY ZONE
IPV4 CIDR BLOCK
AND CLICK CREATE SUBNET**

FINALLY PUBLIC SUBNET IS CREATED



ii) CREATING A PRIVATE SUBNET

Subnets (1/5)

Name	Subnet ID	State	VPC	IPv4 CIDR	IPv6 CIDR	Available IPv4 addresses	Availability Zone
-	subnet-0e0c4480f0de994af	Available	vpc-020a4bc761caab513	172.31.16.0/20	-	4091	ap-south-1
-	subnet-036fa2256d0a43410	Available	vpc-020a4bc761caab513	172.31.32.0/20	-	4091	ap-south-1
haripublic	subnet-05a7017a128b0a5b4	Available	vpc-08c6bc3af83ca7db1hari...	10.0.1.0/24	-	251	ap-south-1a
hariprivate	subnet-08d4d9125f836a9c	Available	vpc-08c6bc3af83ca7db1hari...	10.0.2.0/24	-	251	ap-south-1a
-	subnet-0d615778e43cf2776	Available	vpc-020a4bc761caab513	172.31.0.0/20	-	4091	ap-south-1

subnet-08d4d9125f836a9c / hariprivate

Details

- Subnet ID: subnet-08d4d9125f836a9c
- Subnet ARN: arn:aws:ec2:south-1:832823575801:subnet/subnet-08d4d9125f836a9c
- Available IPv4 addresses: 251
- Network border group: VPC
- State: Available
- Availability Zone: ap-south-1a
- Route table: -
- IPv4 CIDR: 10.0.2.0/24
- Availability Zone ID: ap-south-1a
- Network ACL: -

STEP 4 CREATE INTERNET GATEWAY AND ATTACT TO VPC

Create internet gateway

An internet gateway is a virtual router that connects a VPC to the internet. To create a new internet gateway specify the name for the gateway below.

Internet gateway settings

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

hariGW

Tags - optional

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 or track your AWS costs.

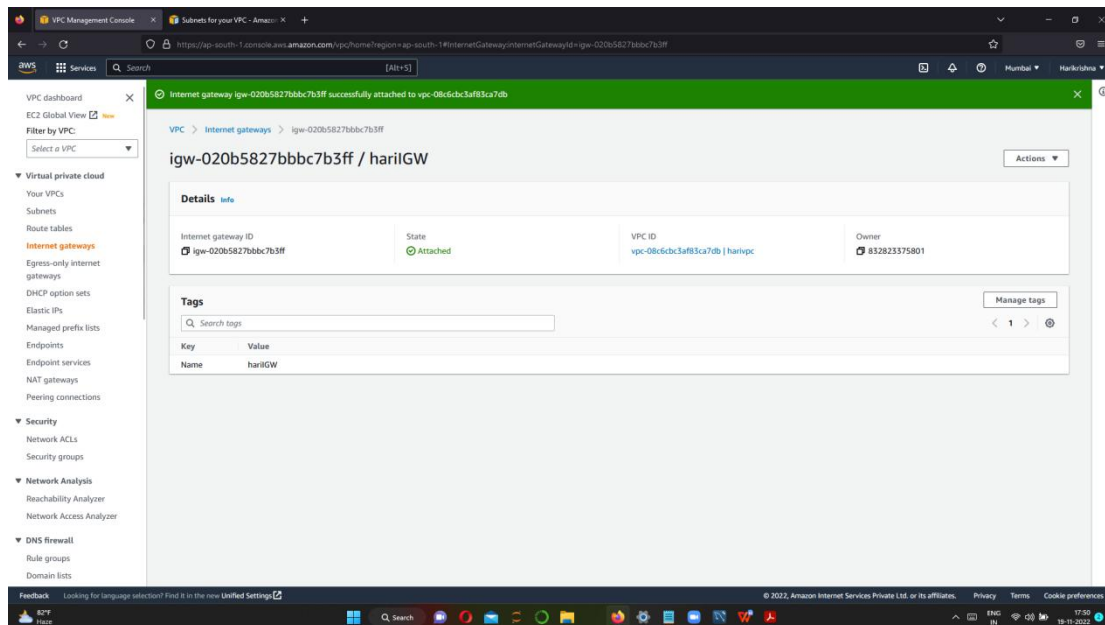
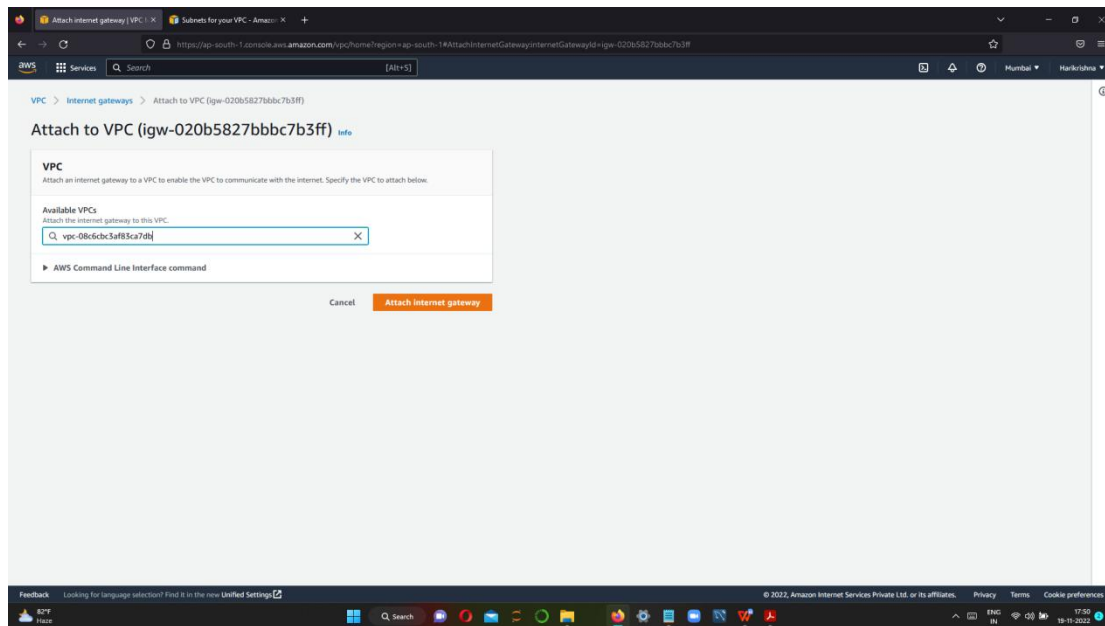
Key: Name Value: optional

hariGW

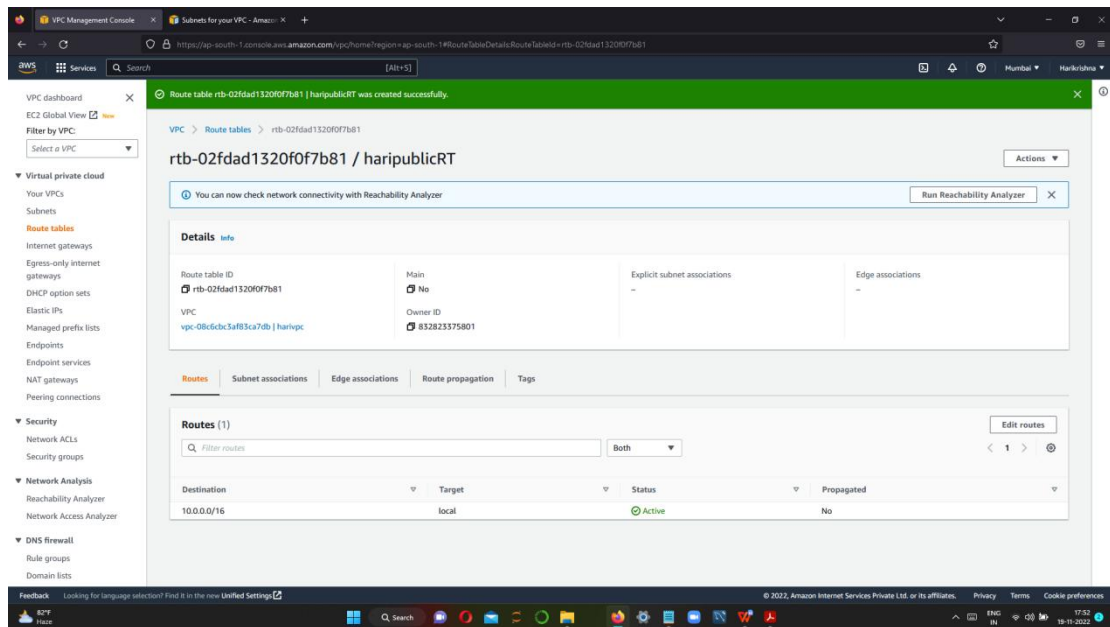
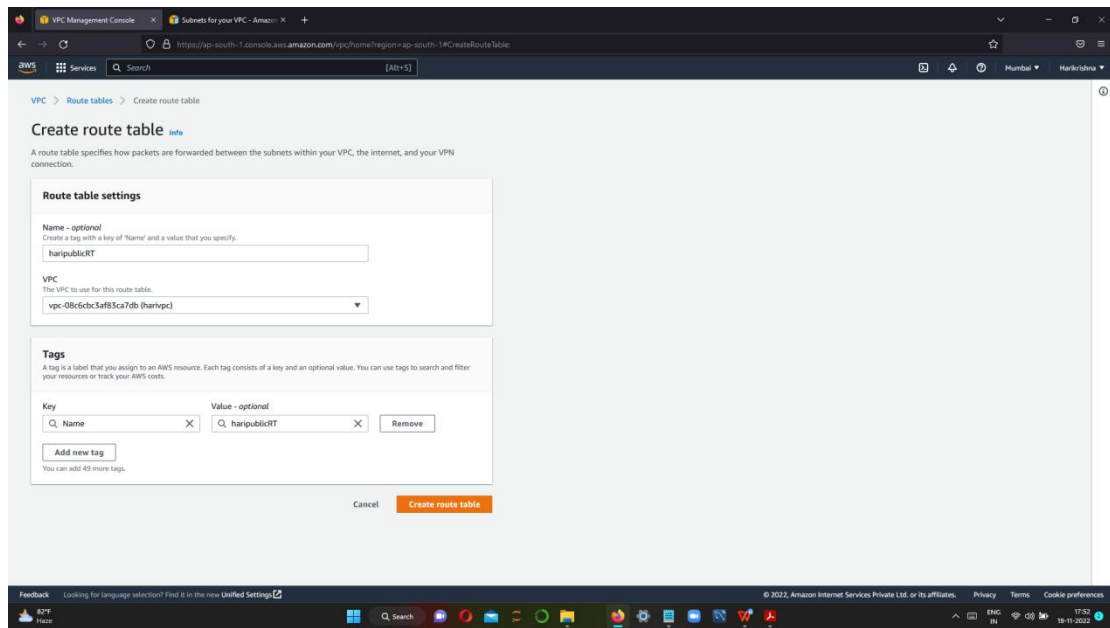
Add new tag

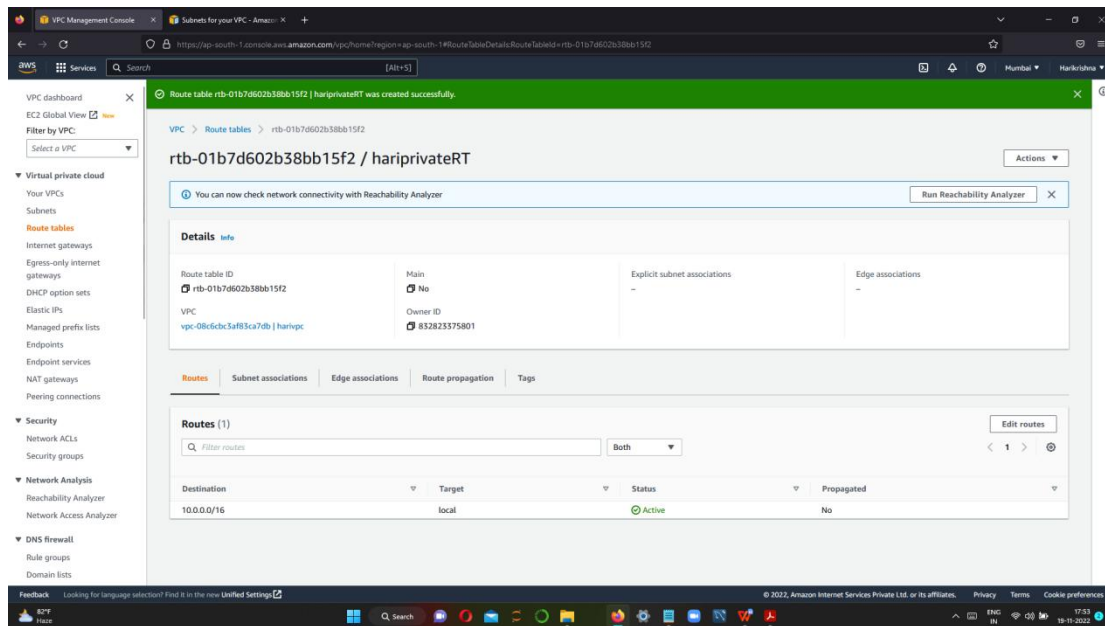
You can add 49 more tags.

Cancel Create internet gateway

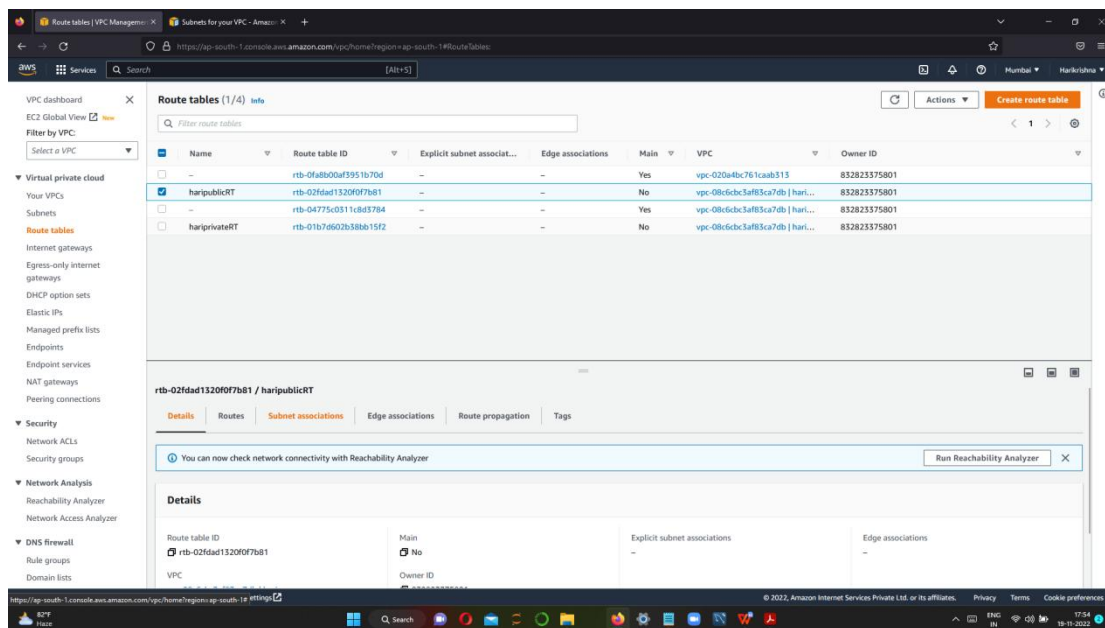


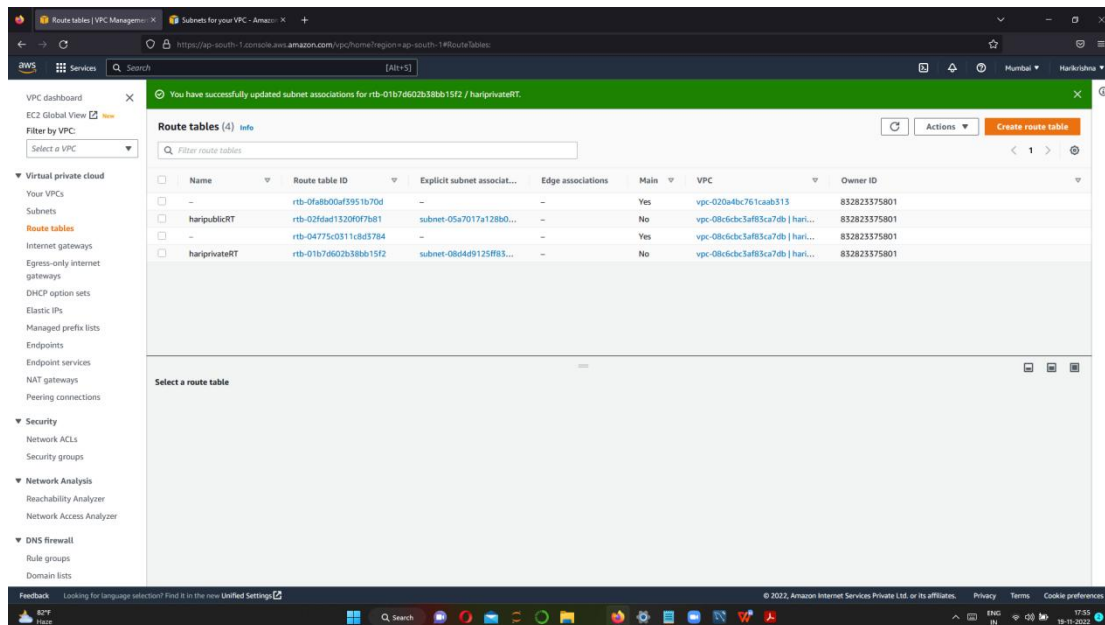
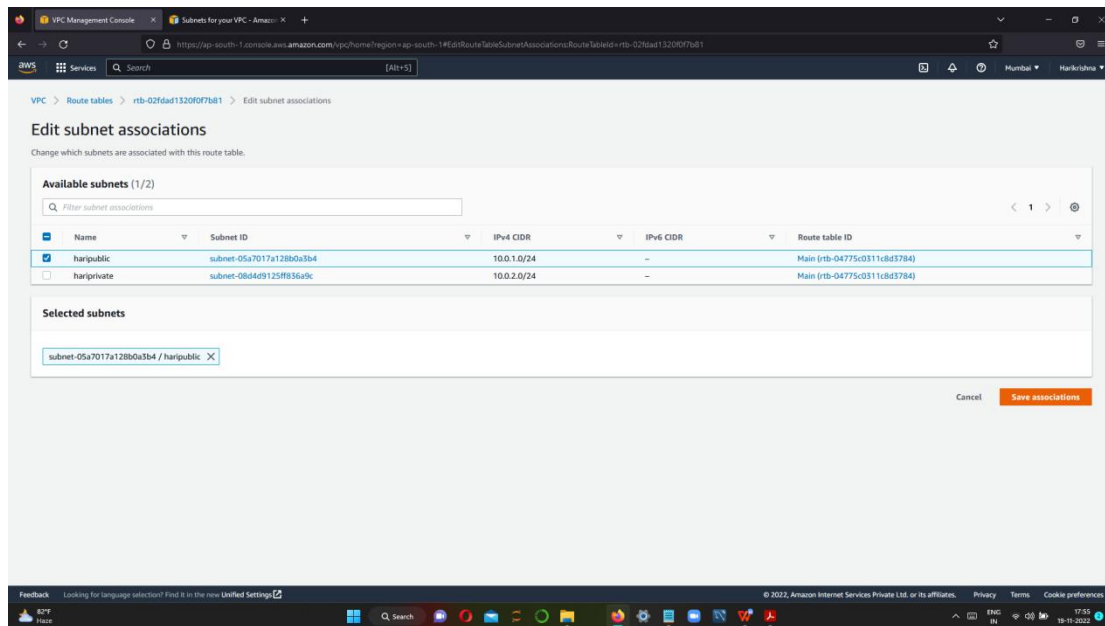
STEP 5 CREATE PUBLIC AND PRIVATE ROUTE TABLE AND ASSOCIATE TO SUBNETS





AFTER CREATING PUBLIC AND PRIVATE ROUTE TABLE --> ATTACH TO RESPECTIVE SUBNETS





SUCCESSFULLY ASSOCIATED BOTH SUBNET TO RESPECTIVE RT(ROUTE TABLE)

STEP 6 SET TO ROUTES TO RESPECTIVE SUBNETS

I) Route For Public Subnet

Route tables [VPC Management] Subnets for your VPC - Amazon

https://ap-south-1.console.aws.amazon.com/vpc/home?region=ap-south-1#RouteTables

You have successfully updated subnet associations for rtb-01b7d602b38bb15f2 / hariprivateRT.

Route tables (1/4)

Filter route tables

Name	Route table ID	Explicit subnet associ...	Edge associations	Main	VPC	Owner ID
haripublicRT	rtb-02f6ad1320f07b81	subnet-05a7017a128b0...	-	No	vpc-020a4bc761cab313	852823375801
hariprivateRT	rtb-01b7d602b38bb15f2	subnet-08d4d9125f83...	-	No	vpc-08c6bc3af83ca7db har...	852823375801

Details Routes Subnet associations Edge associations Route propagation Tags

Routes (1)

Filter routes Both

Destination	Target	Status	Propagated
10.0.0.0/16	local	Active	No

Feedback Looking for language selection? Find it in the new Unified Settings

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82°F Pune

VPC Management Console Subnets for your VPC - Amazon

https://ap-south-1.console.aws.amazon.com/vpc/home?region=ap-south-1#EditRoutesRouteTableId=rtb-02f6ad1320f07b81

VPC > Route tables > rtb-02f6ad1320f07b81 > Edit routes

Edit routes

Destination	Target	Status	Propagated
10.0.0.0/16	local	Active	No
0.0.0.0/0	igw-020b5827bbbc7b3ff	-	No

Add route

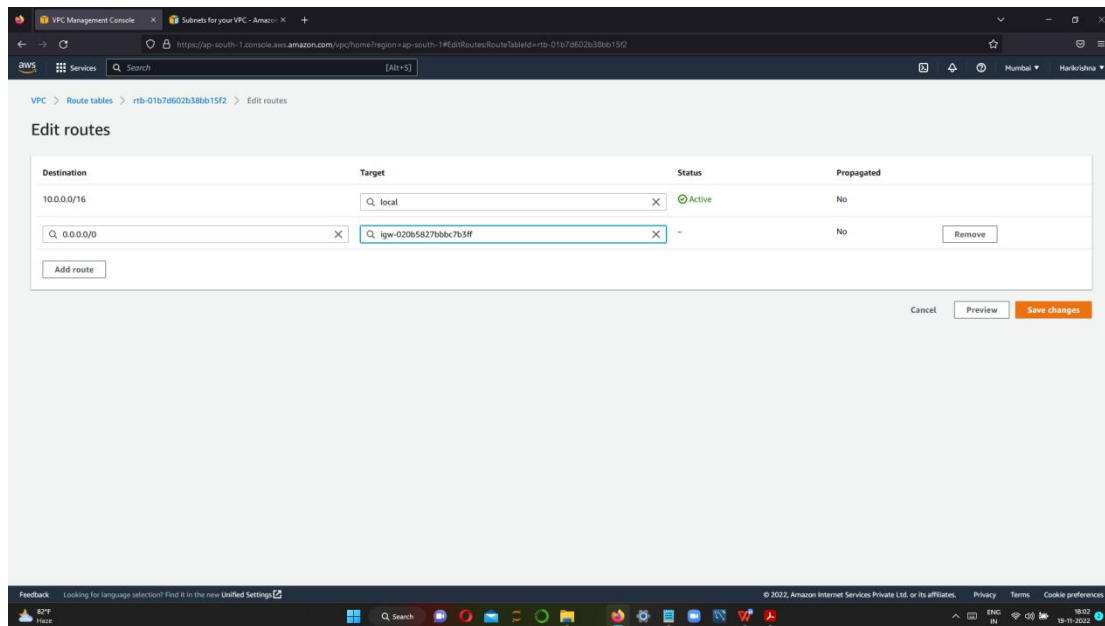
Cancel Preview Save changes

Feedback Looking for language selection? Find it in the new Unified Settings

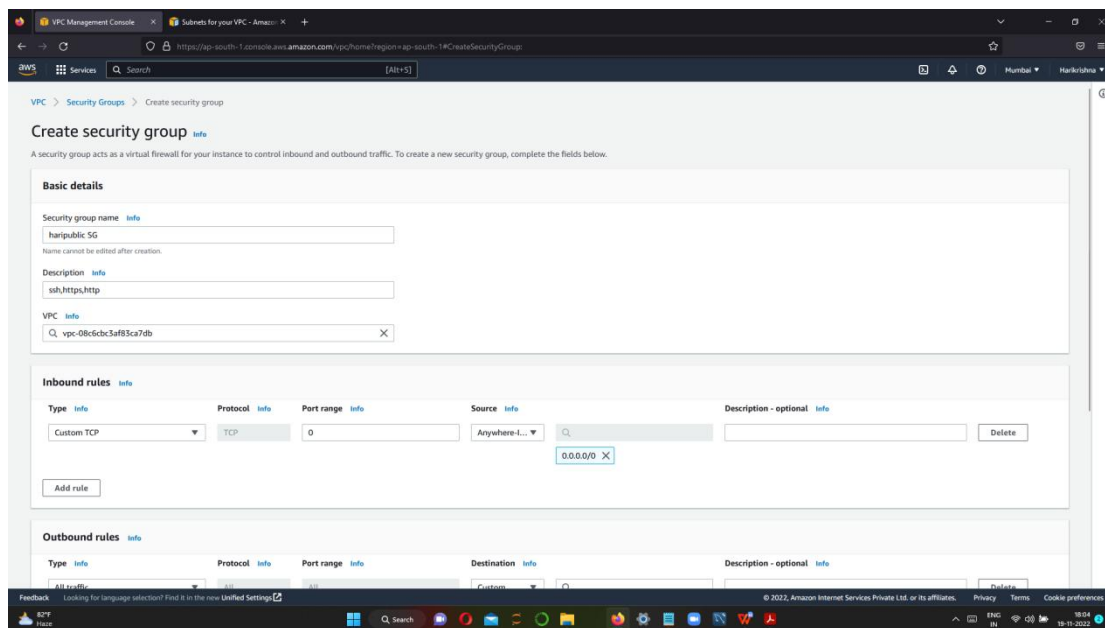
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II) Route For Private Subnet



STEP 7 SET SECURITY GROUP FOR PUBLIC AND PRIVATE

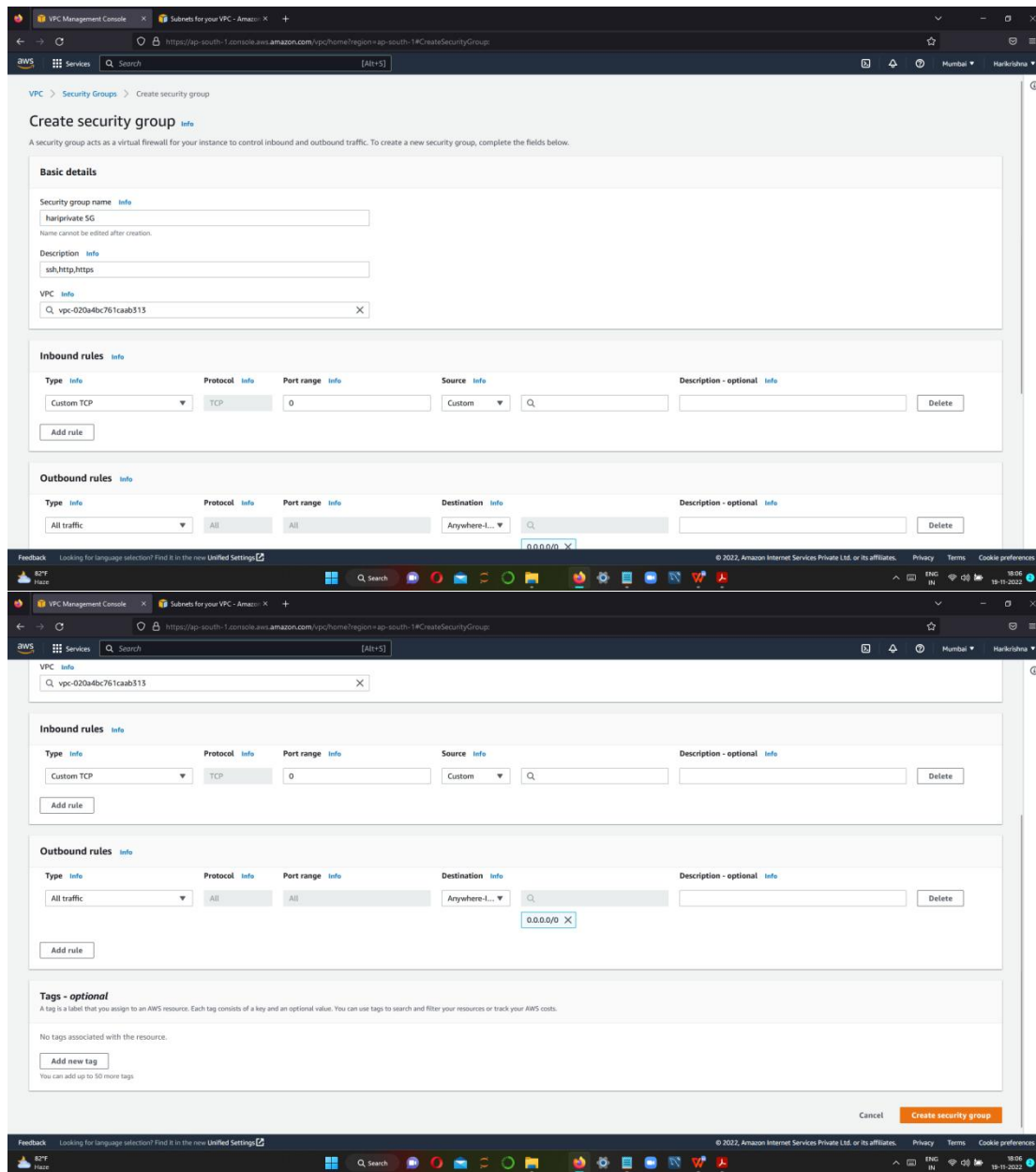


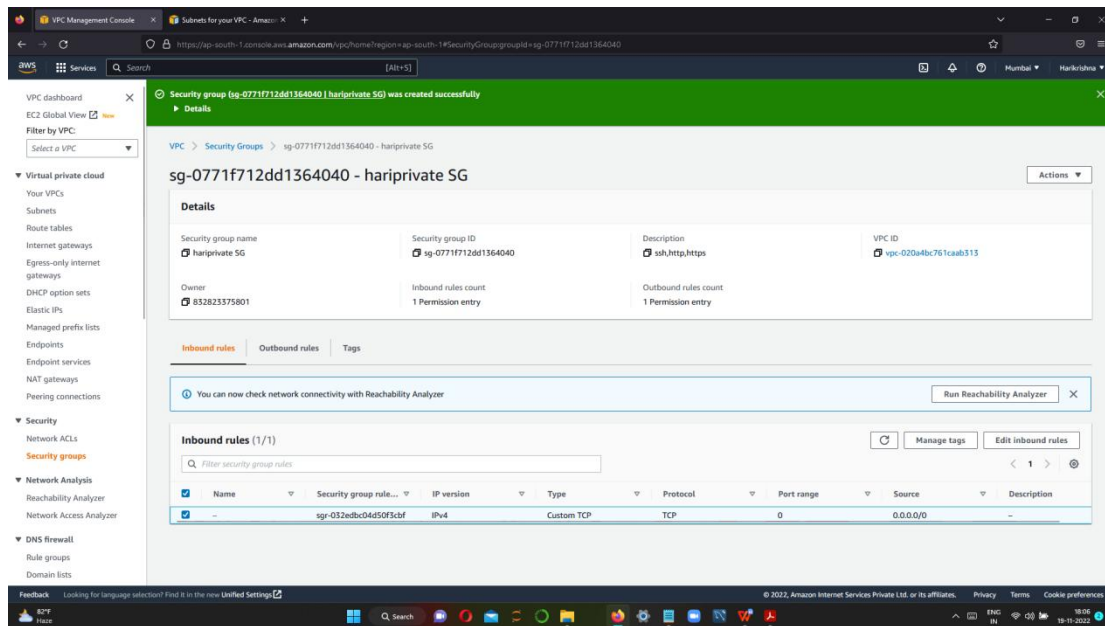
The image shows two screenshots of the AWS Management Console. The top screenshot displays the 'Create security group' wizard. It has sections for 'Inbound rules' and 'Outbound rules'. In the 'Inbound rules' section, a rule is being added with 'Type' set to 'Custom TCP', 'Protocol' set to 'TCP', 'Port range' set to '0', and 'Source' set to 'Anywhere-I...'. The 'Outbound rules' section shows a rule with 'Type' set to 'All traffic', 'Protocol' set to 'All', 'Port range' set to 'All', and 'Destination' set to 'Custom'. Below these sections is a 'Tags - optional' section with an 'Add new tag' button. At the bottom right of the wizard are 'Cancel' and 'Create security group' buttons.

The bottom screenshot shows the 'Details' page for a security group named 'sg-08c2be771028347cb - haripublic SG'. A green banner at the top states 'Security group (sg-08c2be771028347cb | haripublic SG) was created successfully'. The page includes a sidebar with navigation links for VPC dashboard, EC2 Global View, and various VPC, Security, and Network Analysis services. The main content area shows the security group details, including its name, ID, description, owner, and rule counts. Below the details are tabs for 'Inbound rules', 'Outbound rules', and 'Tags'. The 'Inbound rules' tab is active, showing a table with one rule:

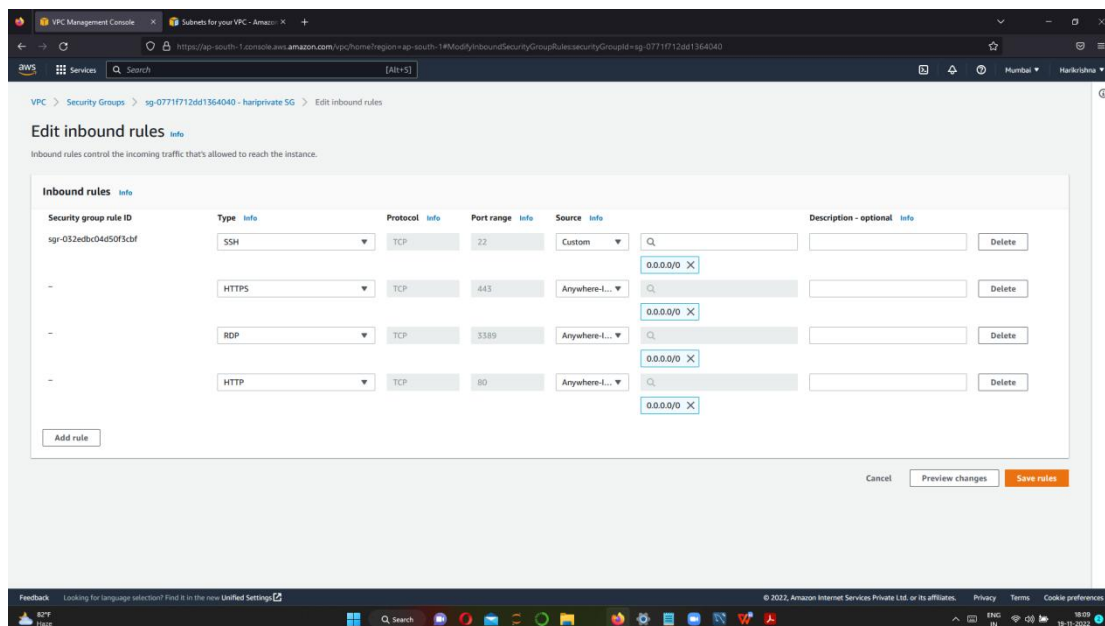
Name	Security group rule...	IP version	Type	Protocol	Port range	Source	Description
-	sg-002794cfc1c04f652	IPv4	Custom TCP	TCP	0	0.0.0.0/0	-

NOW CREATE PRIVATE SG

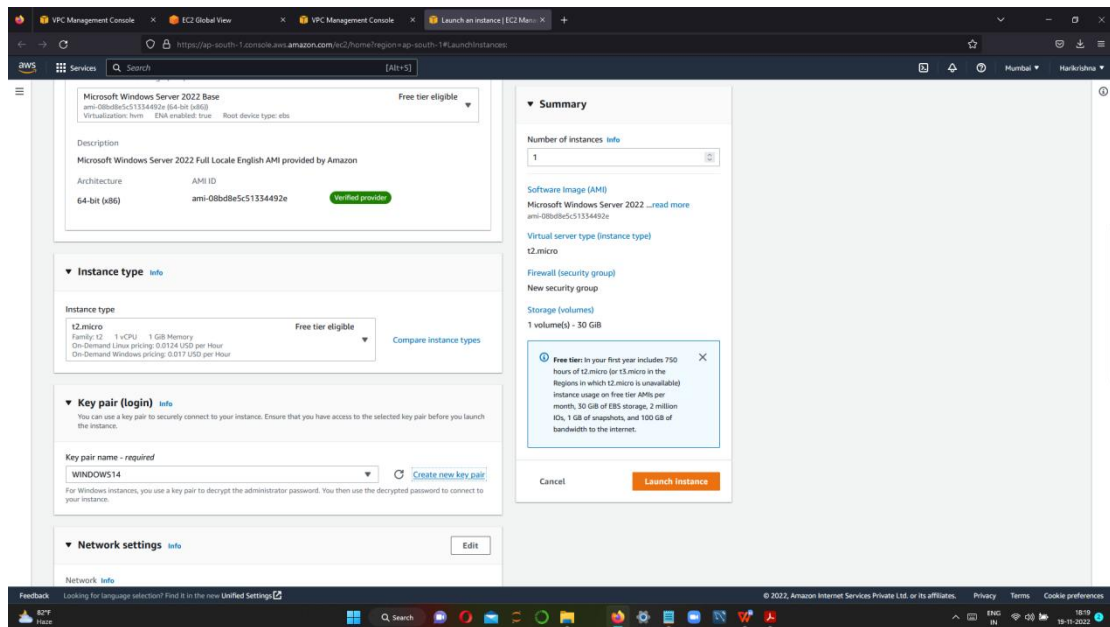
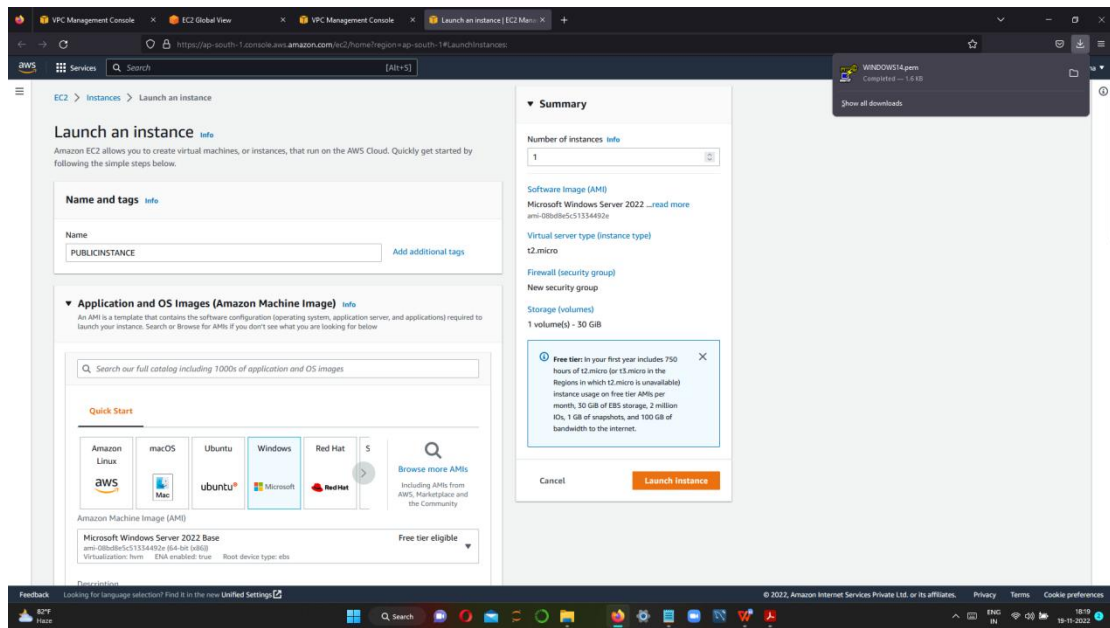




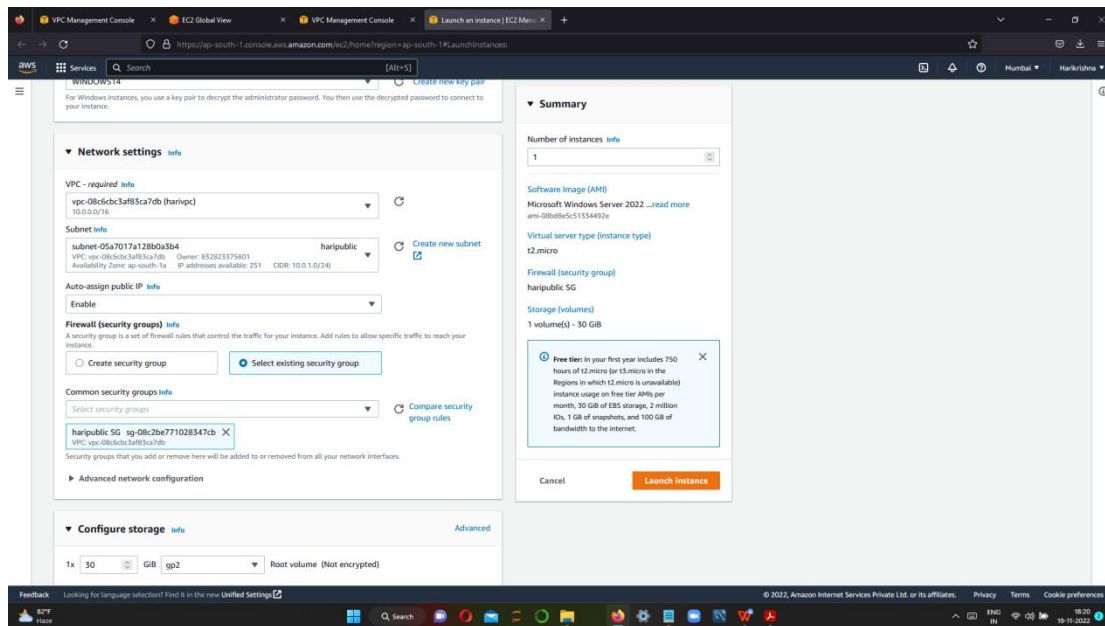
NOW, EDIT INBOUND RULES FOR PUBLIC AND PRIVATE



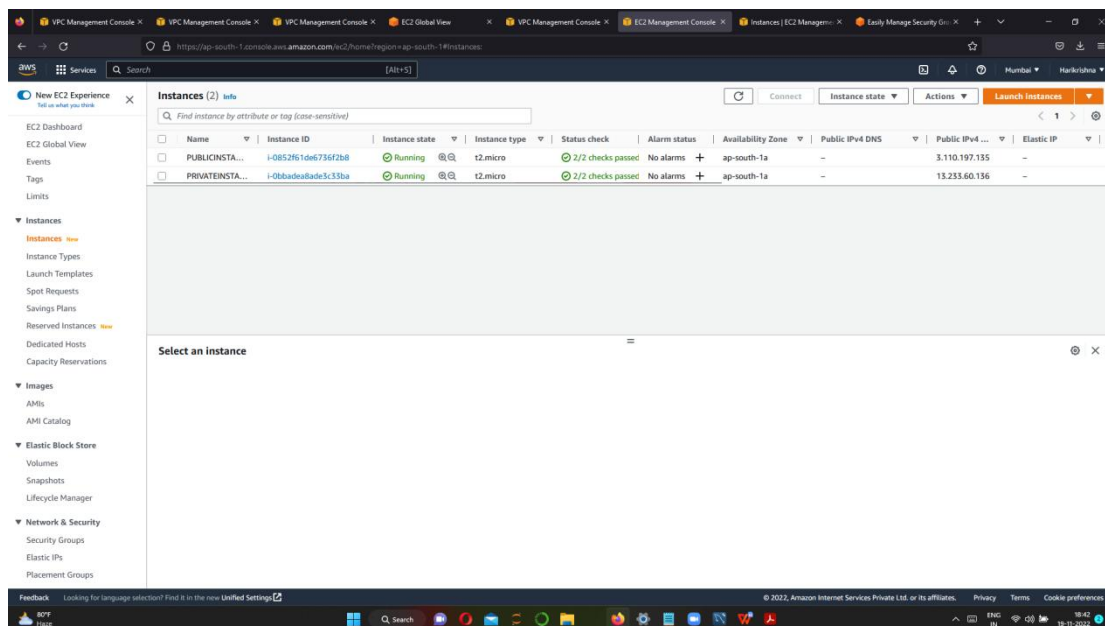
STEP 8 CREATE PUBLIC AND PRIVATE INSTANCE IN WINDOWS



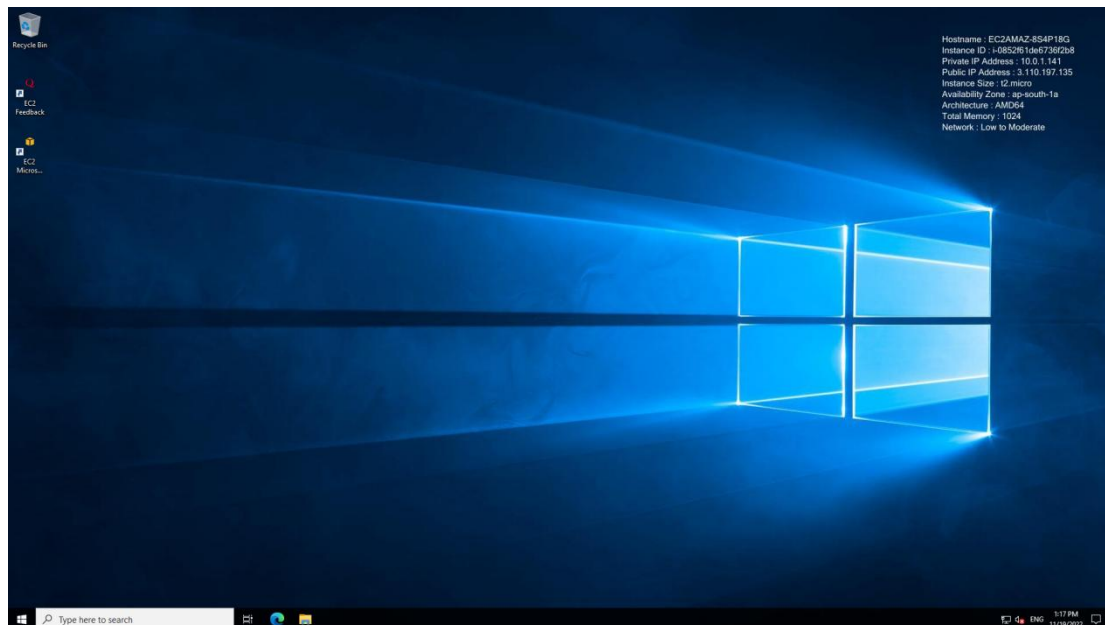
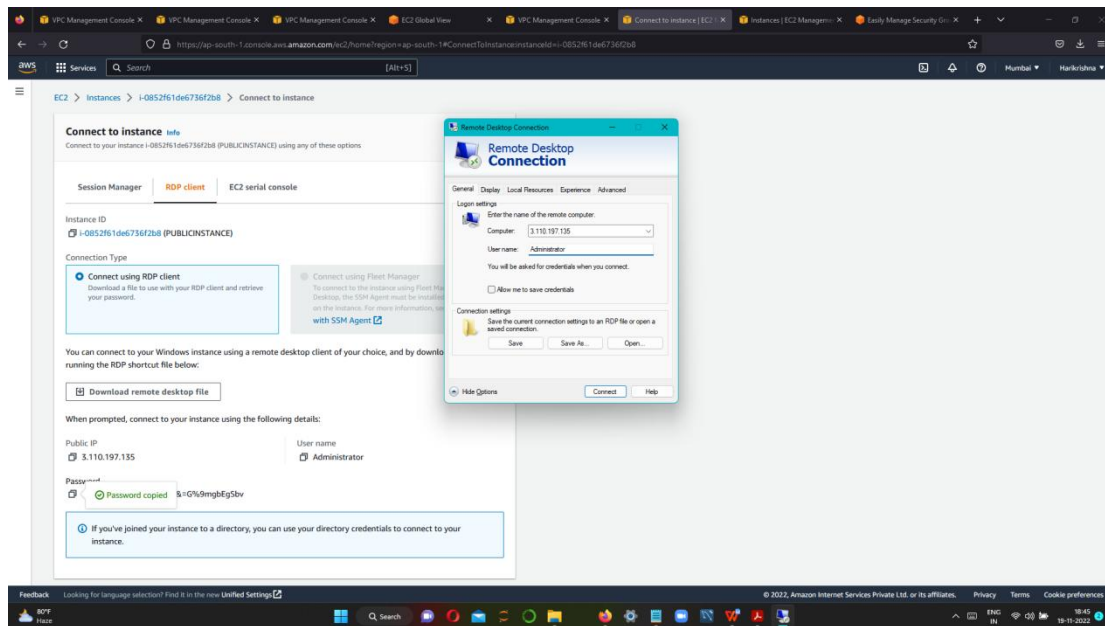
EDIT NETWORK SETTINGS



STEP 9 CREATE PUBLIC AND PRIVATE INSTANCE



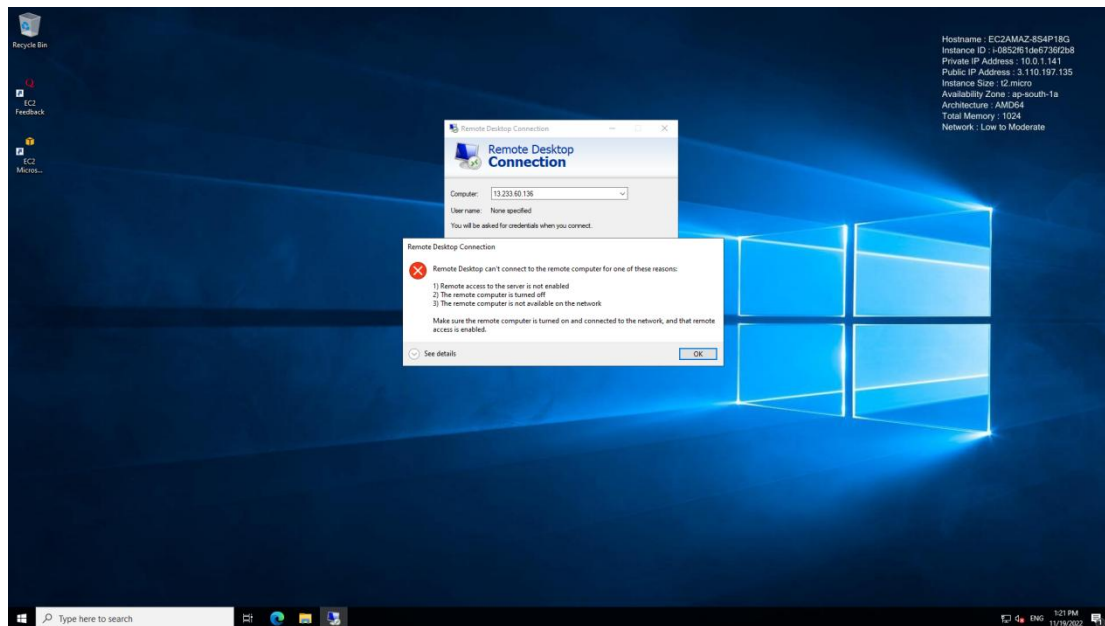
NOW WE CAN CHECK PUBLIC INSTANCE IS GETTING INTERNET ACCESS OR NOT.



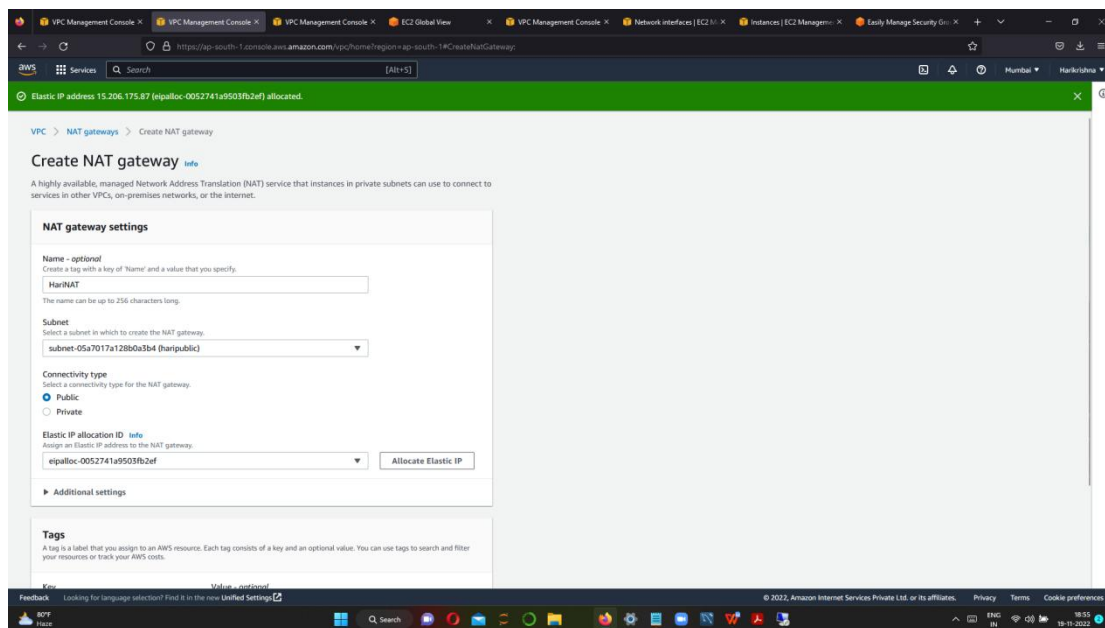
IN PUBLIC INSTANCE WE ARE GETTING INTERNET ACCESS

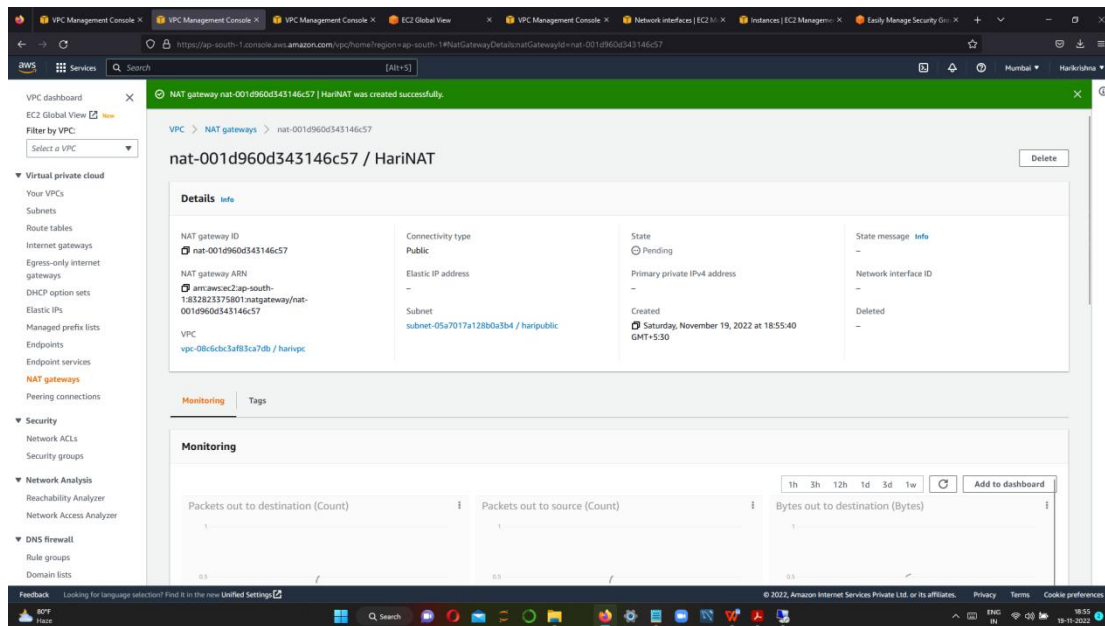
NOTE: IN PRIVATE INSTANCE WE DON'T HAVE PUBLIC IP,IF WE CONNECT PRIVATE FROM LOCAL PC,IT WILL GET ERROR

SO, TRY TO CONNECT PRIVATE INSTANCE VIA PUBLIC VIRTUAL MACHINE ,FOR THAT WE HAVE TO CREATE NAT

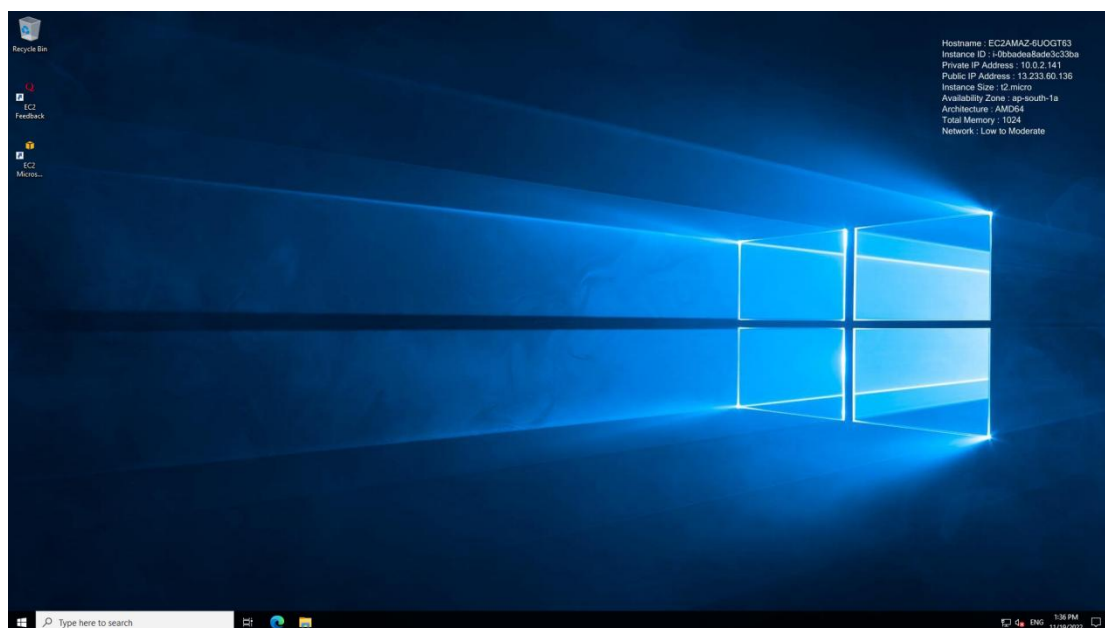


CREATING NAT GATEWAY





**AFTER NAT CREATION ,OPEN REMOTE DESKTOP CONNECTOR IN PUBLIC INSTANCE
PASTE PRIVATE IP ADDRESS & GIVE USERNAME AND PASSWORD
PRIVATE INSTANCE VIRTUAL WILL OPEN**



HERE WE HAVE INTERNET ACCESS FOR PRIVATE INSTANCE ALSO