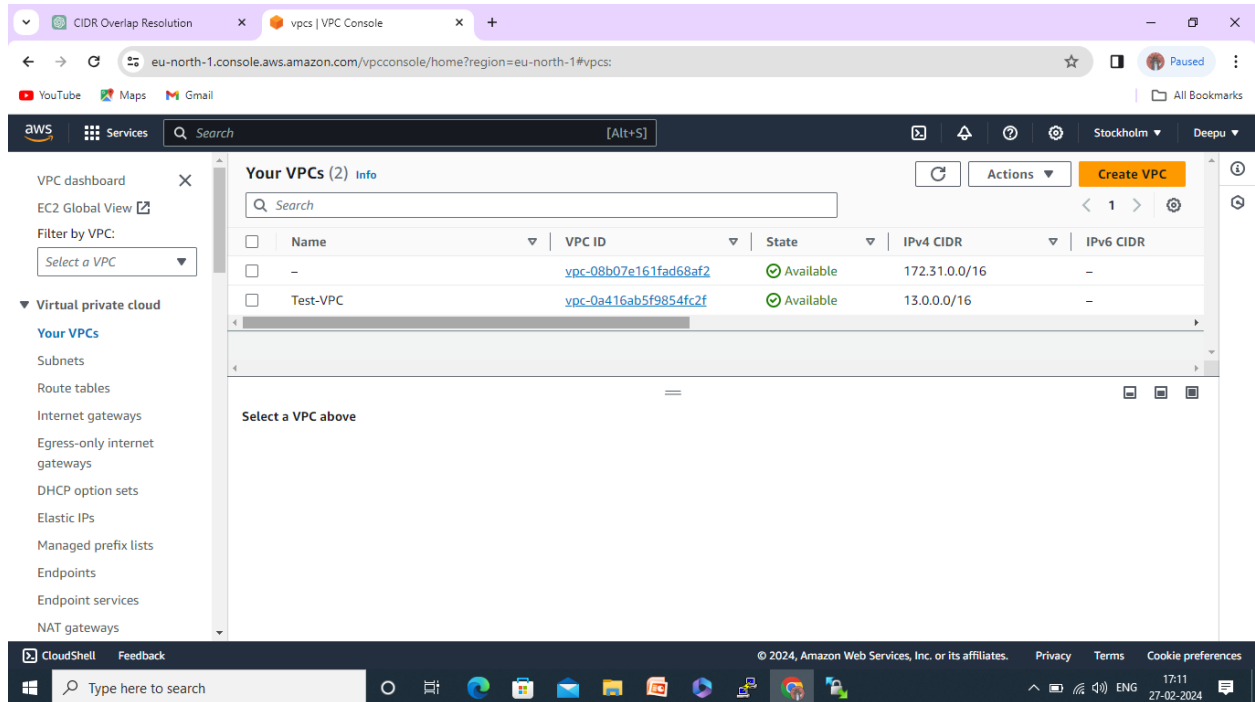
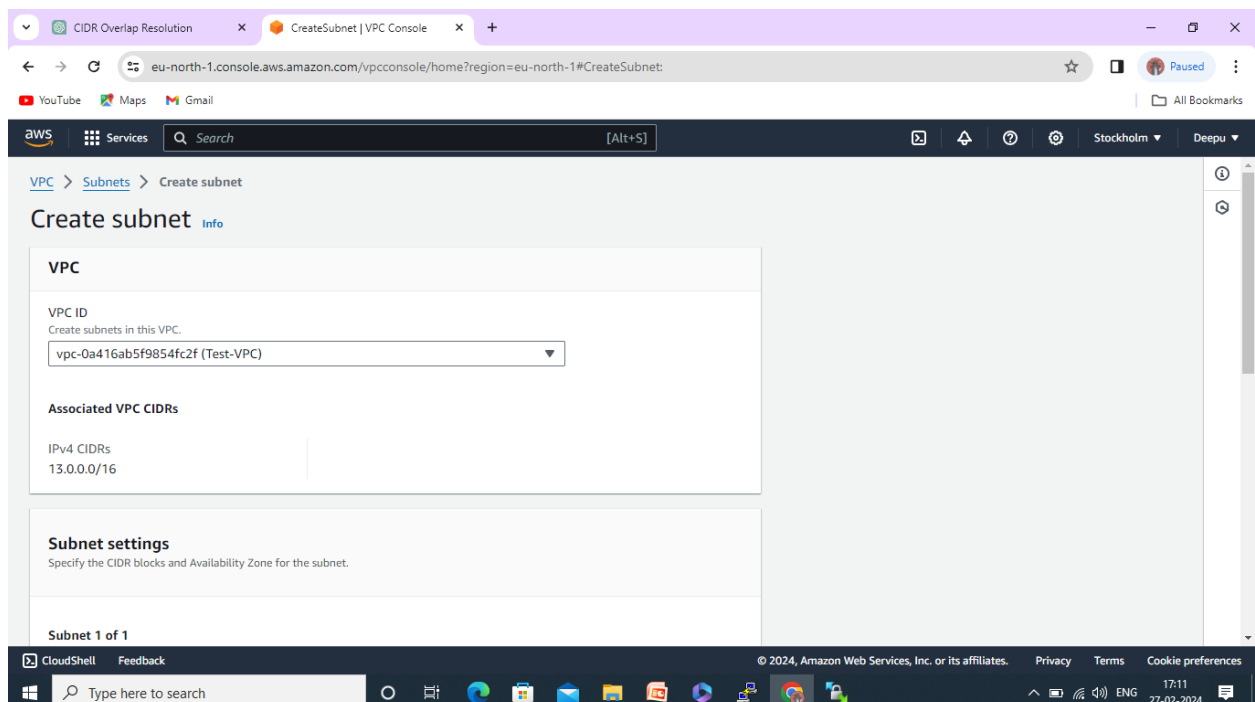


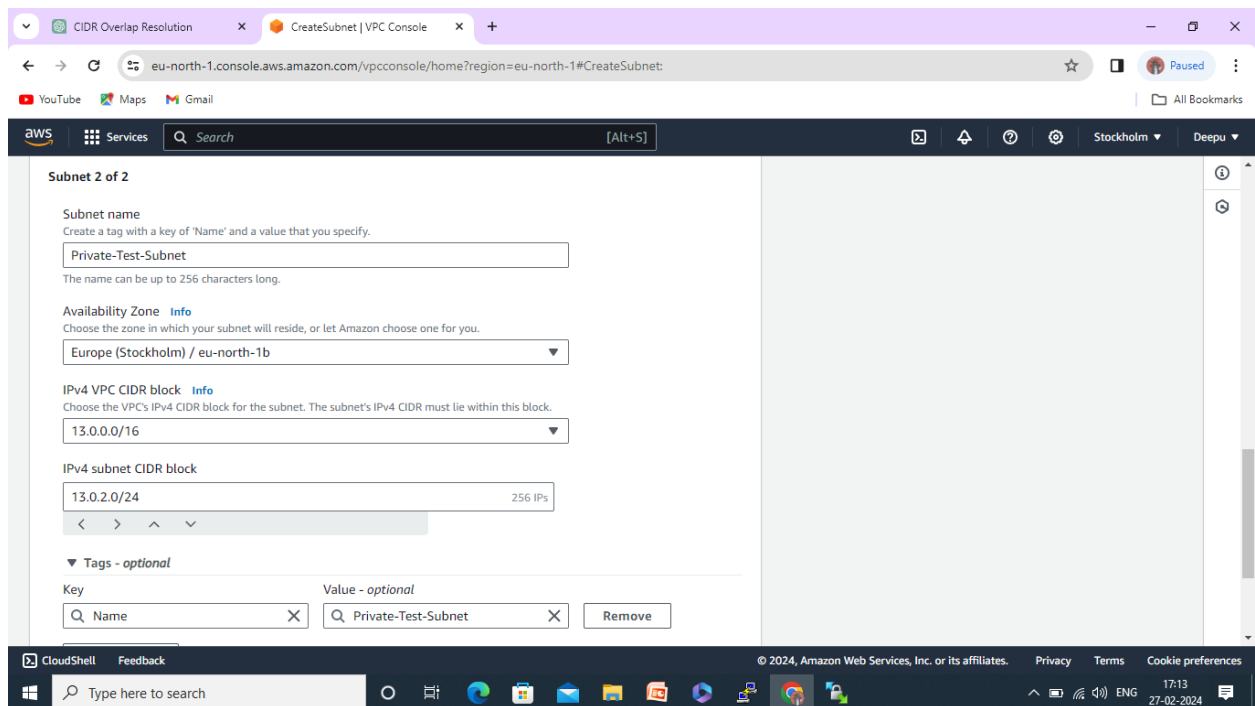
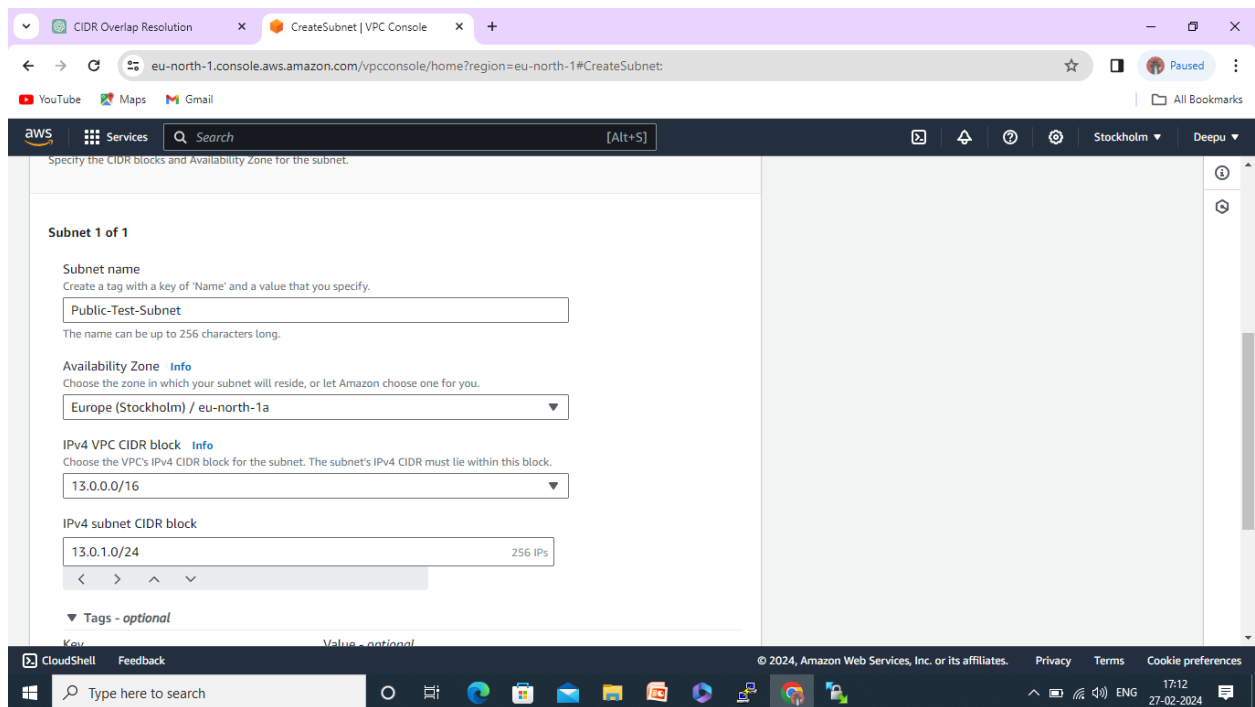
# Creating my own VPC

## 1. Creating vpc as Test vpc

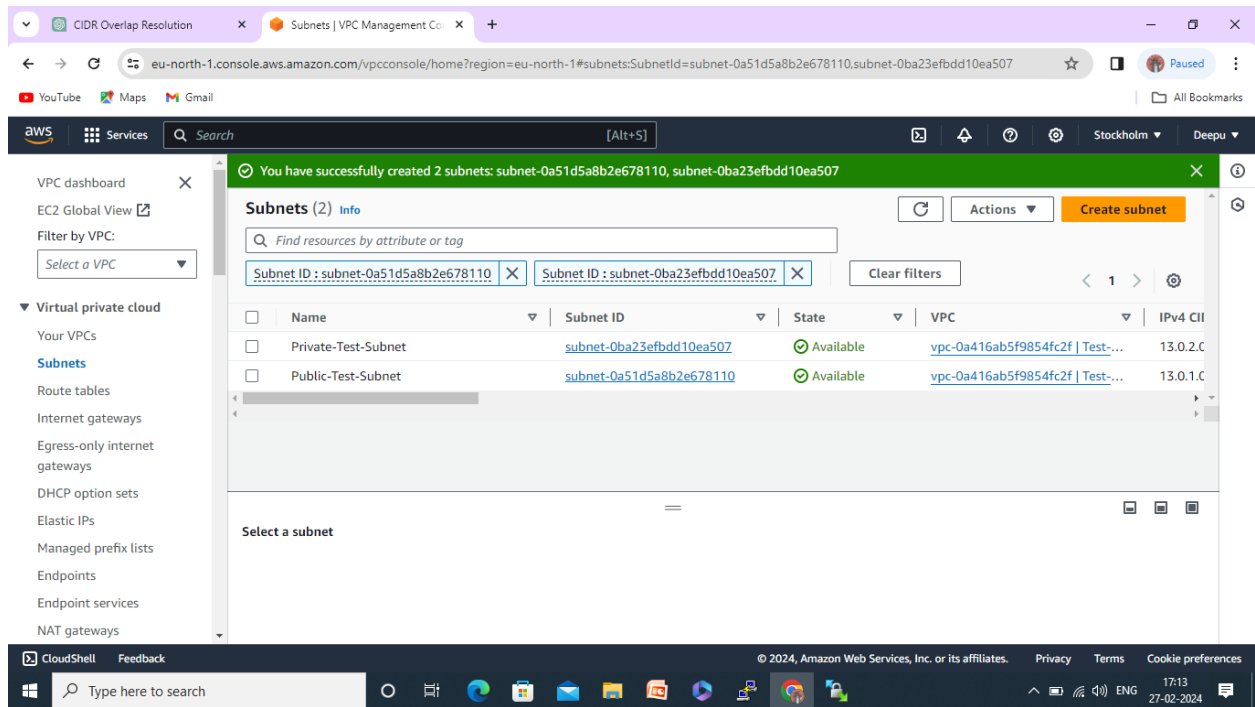


## 2. Creating a Public and Private subnets for different availability zones by assigning different CIDR blocks.

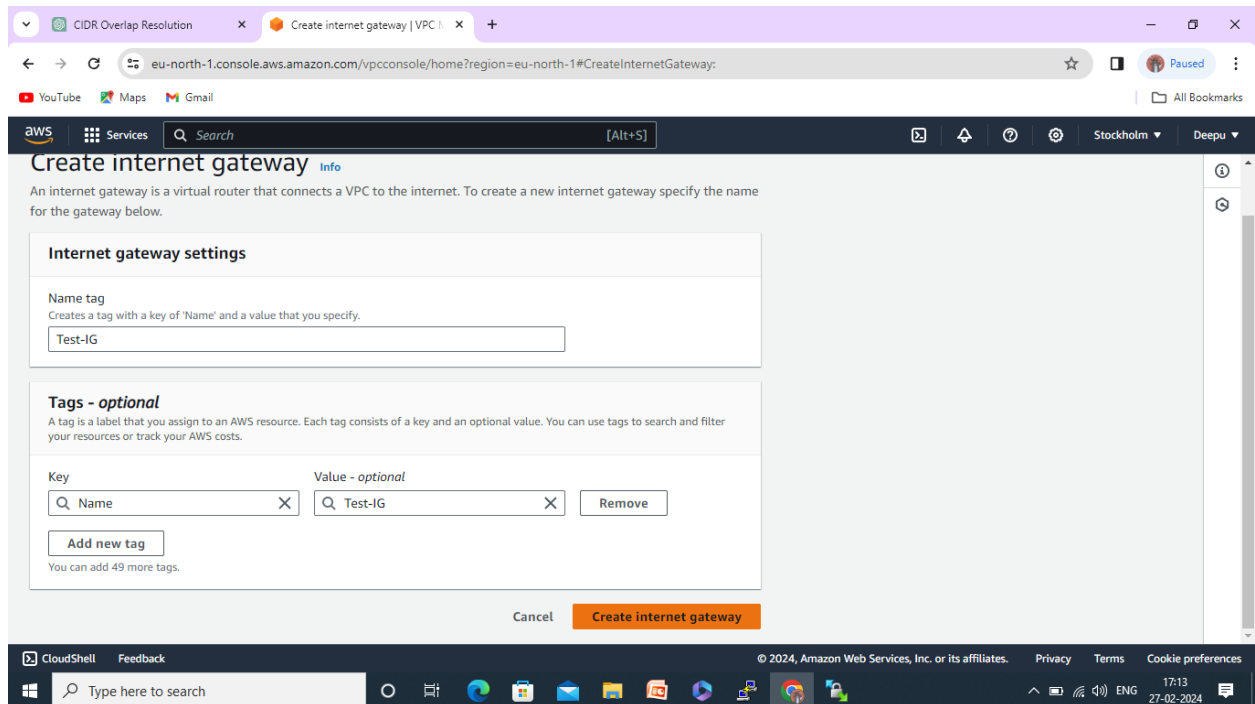




**Subnets created below:**



### 3. Creating a Internet Gateway & Attach it to the VPC



# Attaching the created Internet gateway with the Test VPC

The screenshot shows the AWS VPC console interface. The breadcrumb navigation is **VPC > Internet gateways > igw-0c4bd4da0f81be063**. The main heading is **igw-0c4bd4da0f81be063 / Test-IG**. The **Details** tab is active, showing the following information:

Internet gateway ID	State	VPC ID	Owner
igw-0c4bd4da0f81be063	Detached	-	730331

The **Tags** section shows a single tag:

Key	Value
Name	Test-IG

An **Actions** menu is open on the right, with the following options: **Attach to VPC** (highlighted), **Detach from VPC**, **Manage tags**, and **Delete**.

The screenshot shows the **Attach to VPC (igw-0c4bd4da0f81be063)** wizard in the AWS VPC console. The breadcrumb navigation is **VPC > Internet gateways > Attach to VPC (igw-0c4bd4da0f81be063)**. The main heading is **Attach to VPC (igw-0c4bd4da0f81be063)**. The **VPC** section contains the following text:

Attach an internet gateway to a VPC to enable the VPC to communicate with the internet. Specify the VPC to attach below.

**Available VPCs**  
Attach the internet gateway to this VPC.

A search box contains the text **vpc-0a416ab5f9854fc2f**.

At the bottom, there is a section for the **AWS Command Line Interface command**, and two buttons: **Cancel** and **Attach internet gateway**.

## 4. Creating Routing table, one as Public & One as Private by associating the appropriate subnets to it.

The screenshot shows the AWS Management Console 'Create route table' page. The browser tabs include 'CIDR Overlap Resolution' and 'CreateRouteTable | VPC Console'. The URL is 'eu-north-1.console.aws.amazon.com/vpconsole/home?region=eu-north-1#CreateRouteTable:'. The page title is 'Create route table' with an 'Info' link. A description states: 'A route table specifies how packets are forwarded between the subnets within your VPC, the internet, and your VPN connection.'

**Route table settings**

**Name - optional**  
Create a tag with a key of 'Name' and a value that you specify.  
Public-Route-Table

**VPC**  
The VPC to use for this route table.  
vpc-0a416ab5f9854fc2f (Test-VPC)

**Tags**  
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** **Value - optional**

Name Public-Route-Table Remove

Add new tag

You can add 49 more tags

The bottom of the screenshot shows the Windows taskbar with the search bar and various application icons.

The screenshot shows the AWS Management Console 'Create route table' page. The browser tabs include 'CIDR Overlap Resolution' and 'CreateRouteTable | VPC Console'. The URL is 'eu-north-1.console.aws.amazon.com/vpconsole/home?region=eu-north-1#CreateRouteTable:'. The page title is 'Create route table' with an 'Info' link. A description states: 'A route table specifies how packets are forwarded between the subnets within your VPC, the internet, and your VPN connection.'

**Route table settings**

**Name - optional**  
Create a tag with a key of 'Name' and a value that you specify.  
Private-Route-Table

**VPC**  
The VPC to use for this route table.  
vpc-0a416ab5f9854fc2f (Test-VPC)

**Tags**  
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** **Value - optional**

Name Private-Route-Table Remove

The bottom of the screenshot shows the Windows taskbar with the search bar and various application icons.

# Subnet Association with there appropriate subnets

CIDR Overlap Resolution

RouteTables | VPC Console

eu-north-1.console.aws.amazon.com/vpcconsole/home?region=eu-north-1#RouteTables:vpclid=vpc-0a416ab5f9854fc2f

YouTube Maps Gmail

Stockholm Deepu

VPC dashboard

EC2 Global View

Filter by VPC:

Select a VPC

vpc-0a416ab5f9854fc2f

Test-VPC

Owner: 730335589786

Virtual private cloud

Your VPCs

Subnets

Route tables

Internet gateways

Egress-only internet gateways

DHCP option sets

Elastic IPs

Managed prefix lists

Route tables (1/3)

Find resources by attribute or tag

VPC: vpc-0a416ab5f9854fc2f

Clear filters

1

	Name	Route table ID	Explicit subnet associ...	Edge associations	Main
<input type="checkbox"/>	-	rtb-07cd1eaedf87e0ef6	-	-	Yes
<input checked="" type="checkbox"/>	Public-Route-Table	rtb-0d1d5c200696fe683	-	-	No
<input type="checkbox"/>	Private-Route-Table	rtb-0ff88b1c5a9bcd48f	-	-	No

rtb-0d1d5c200696fe683 / Public-Route-Table

Details Routes Subnet associations Edge associations Route propagation Tags

Explicit subnet associations (0)

Find subnet association

1

Name	Subnet ID	IPv4 CIDR	IPv6 CIDR
------	-----------	-----------	-----------

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Type here to search

17:16 27-02-2024

CIDR Overlap Resolution

EditRouteTableSubnetAssociations

eu-north-1.console.aws.amazon.com/vpcconsole/home?region=eu-north-1#EditRouteTableSubnetAssociations:RouteTableId=rtb-0d1d5c200696fe683

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Stockholm Deepu

VPC > Route tables > rtb-0d1d5c200696fe683 > Edit subnet associations

Edit subnet associations

Change which subnets are associated with this route table.

Available subnets (1/2)

Filter subnet associations

1

	Name	Subnet ID	IPv4 CIDR	IPv6 CIDR	Route table ID
<input type="checkbox"/>	Private-Test-Subnet	subnet-0ba23efbdd10ea507	13.0.2.0/24	-	Main (rtb-07cd1eaedf87e0ef6)
<input checked="" type="checkbox"/>	Public-Test-Subnet	subnet-0a51d5a8b2e678110	13.0.1.0/24	-	Main (rtb-07cd1eaedf87e0ef6)

Selected subnets

subnet-0a51d5a8b2e678110 / Public-Test-Subnet

Cancel Save associations

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Type here to search

17:16 27-02-2024

CIDR Overlap Resolution x Route tables | VPC Management x +

eu-north-1.console.aws.amazon.com/vpcconsole/home?region=eu-north-1#RouteTables:vpclid=vpc-0a416ab5f9854fc2f

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aws Services Search [Alt+S] Stockholm Deepu

VPC dashboard x  
EC2 Global View  
Filter by VPC:  
Select a VPC

Virtual private cloud  
Your VPCs  
Subnets  
Route tables  
Internet gateways  
Egress-only internet gateways  
DHCP option sets  
Elastic IPs  
Managed prefix lists  
Endpoints  
Endpoint services  
NAT gateways

Route tables (1/3) Info

Find resources by attribute or tag

VPC: vpc-0a416ab5f9854fc2f Clear filters

	Name	Route table ID	Explicit subnet associ...	Edge associations	Main
<input type="checkbox"/>	-	rtb-07cd1eae8f87e0ef6	-	-	Yes
<input type="checkbox"/>	Public-Route-Table	rtb-0d1d5c200696fe683	subnet-0a51d5a8b2e678...	-	No
<input checked="" type="checkbox"/>	Private-Route-Table	rtb-0ff88b1c5a9bcd48f	-	-	No

rtb-0ff88b1c5a9bcd48f / Private-Route-Table

Details Routes Subnet associations Edge associations Route propagation Tags

Explicit subnet associations (0)

Find subnet association

Name	Subnet ID	IPv4 CIDR	IPv6 CIDR
------	-----------	-----------	-----------

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Type here to search

**5.Editing the Public route tables's route alone and mapping the created Test-IGW, and not the Private and leaving it as it is.**

CIDR Overlap Resolution x EditRoutes | VPC Console x +

eu-north-1.console.aws.amazon.com/vpcconsole/home?region=eu-north-1#EditRoutes:RouteTableId=rtb-0d1d5c200696fe683

YouTube Maps Gmail All Bookmarks

aws Services Search [Alt+S] Stockholm Deepu

VPC > Route tables > rtb-0d1d5c200696fe683 > Edit routes

Edit routes

Destination	Target	Status	Propagated
13.0.0.0/16	local	Active	No
0.0.0.0/0	Internet Gateway	-	No

Remove

Add route

Use: "igw-"

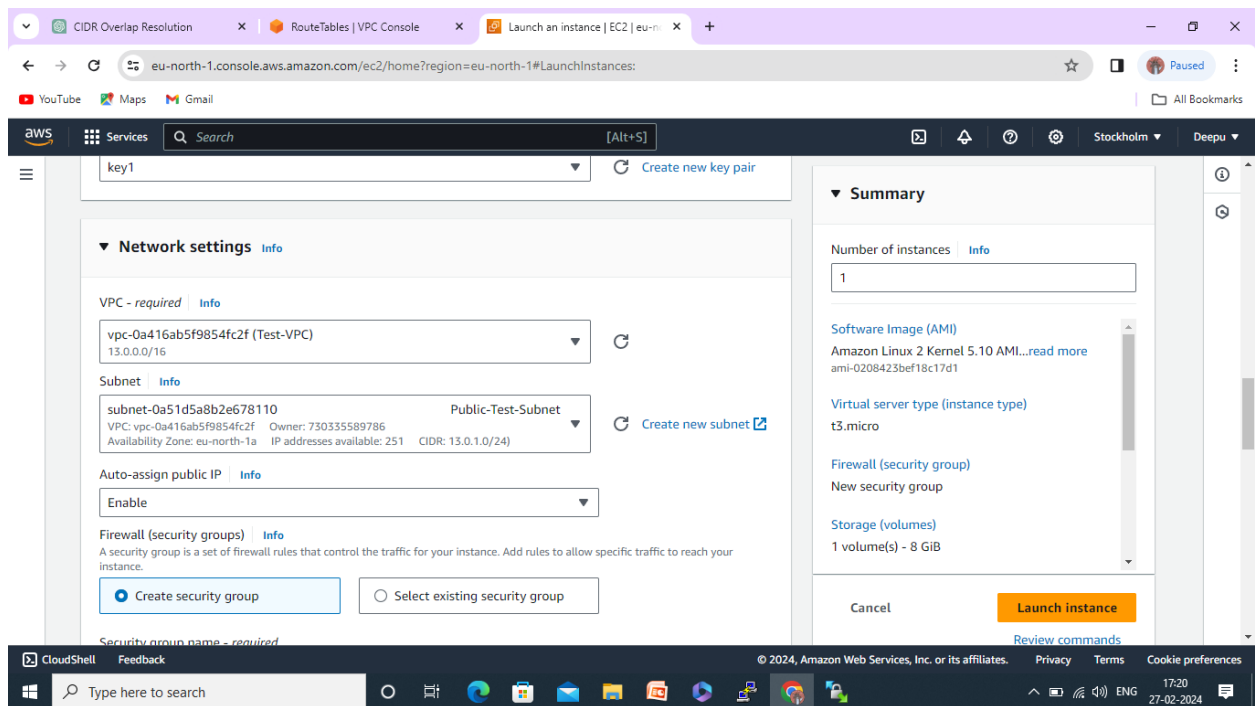
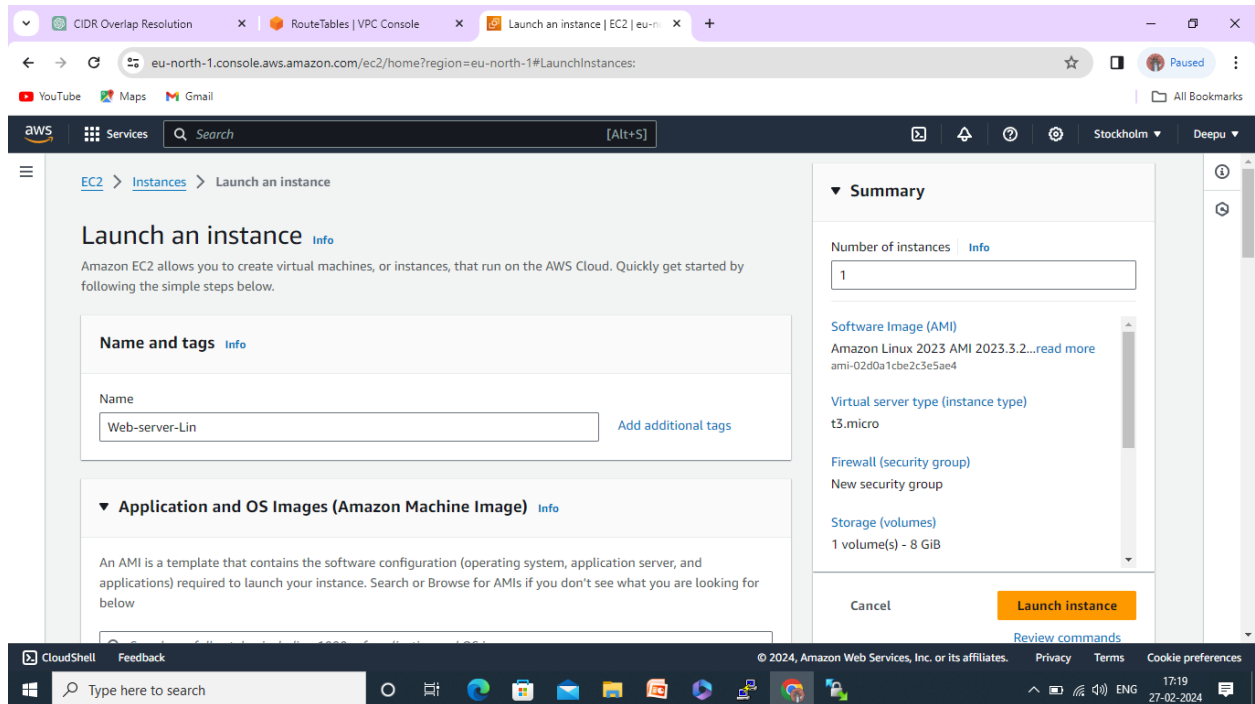
igw-0c4bd4da0f81be063 (Test-IG)

Cancel Preview Save changes

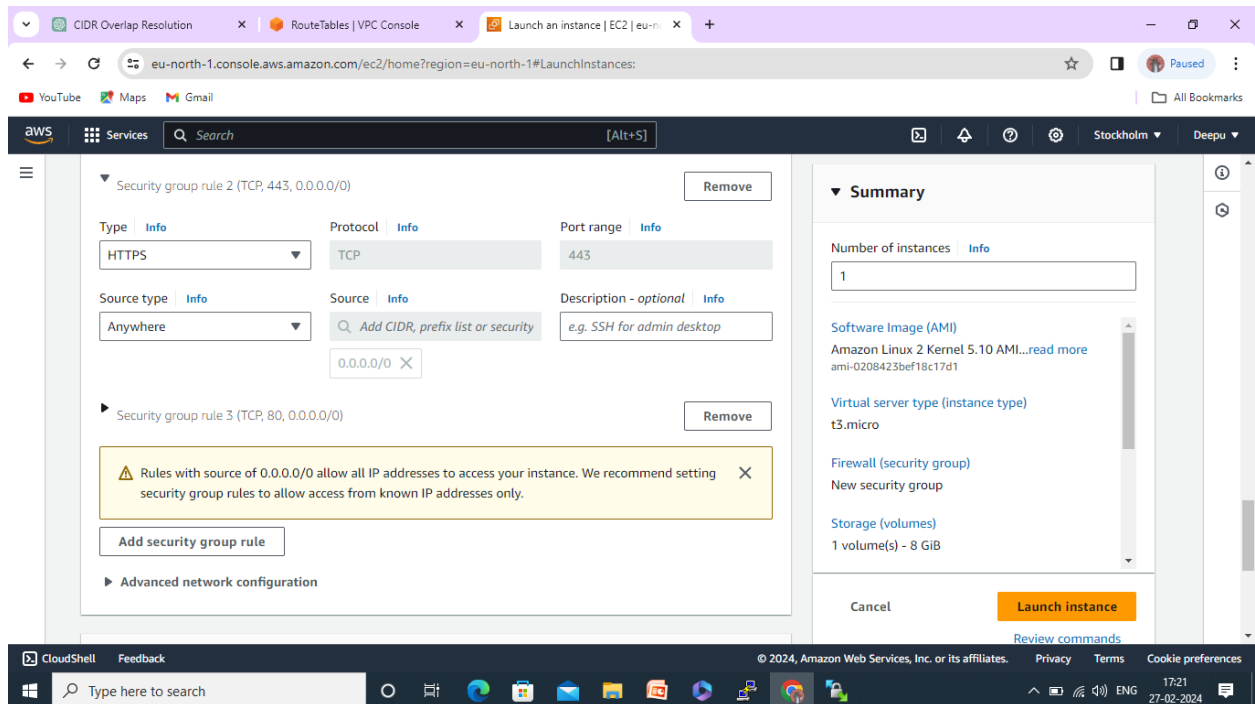
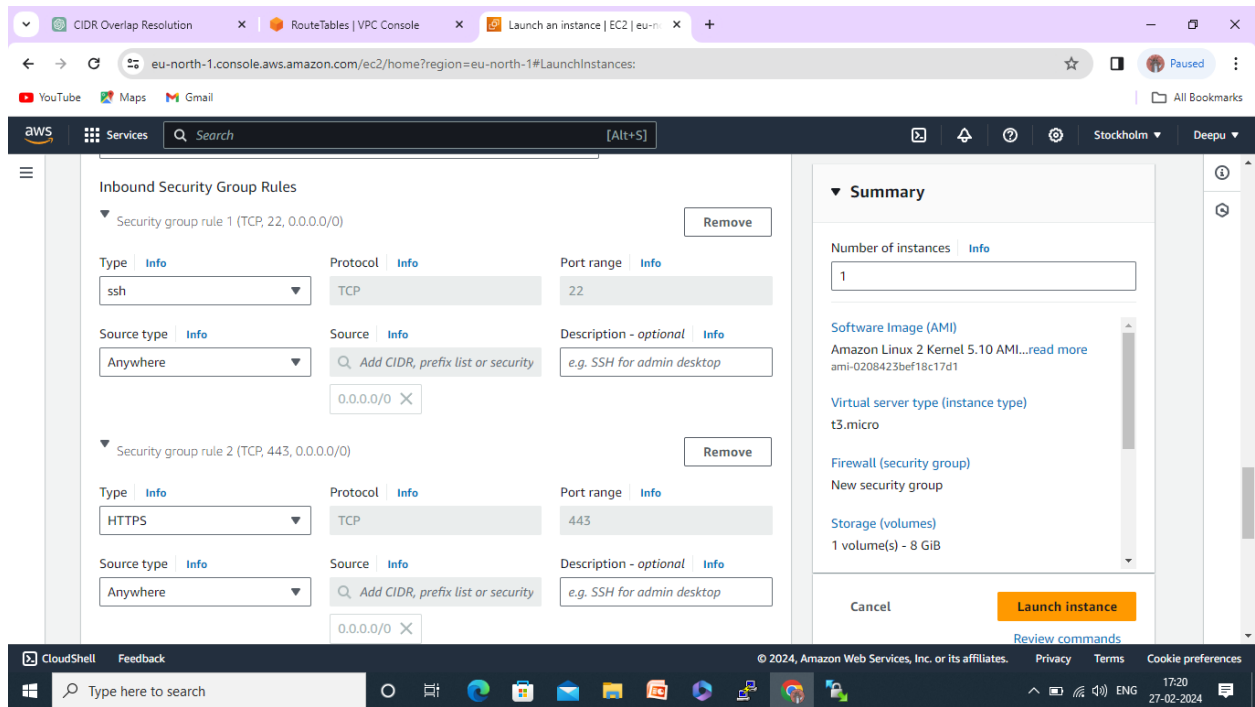
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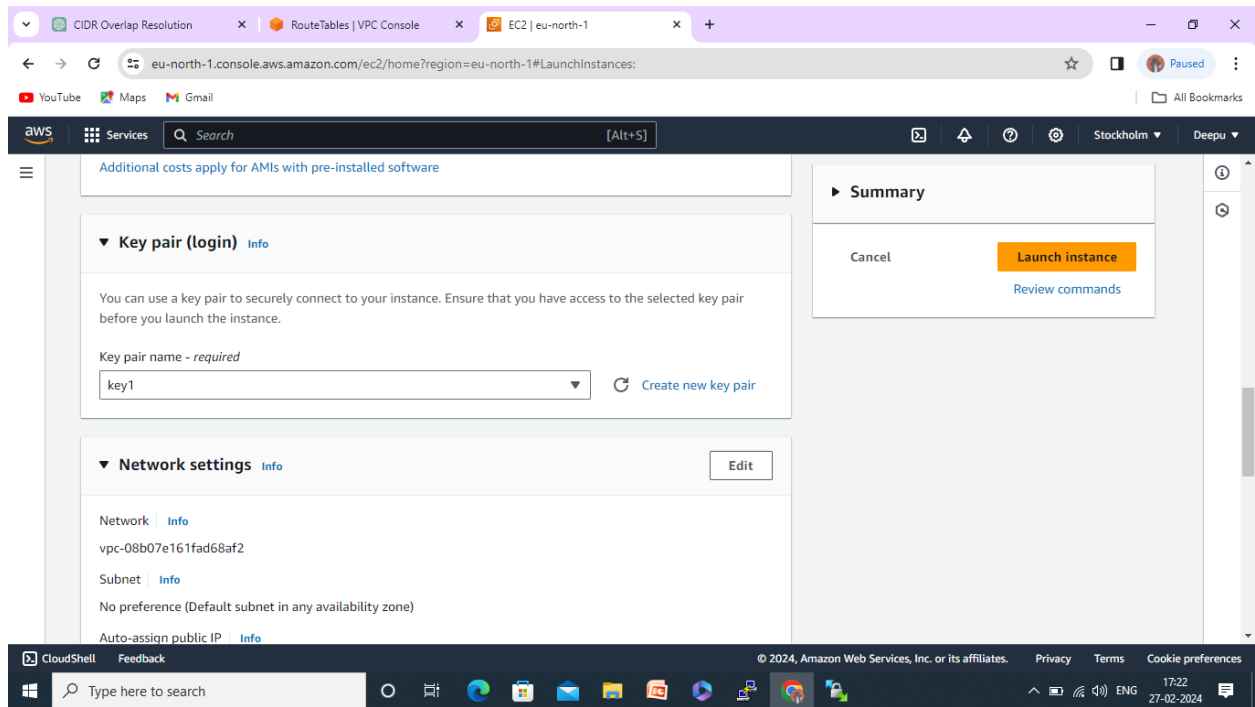
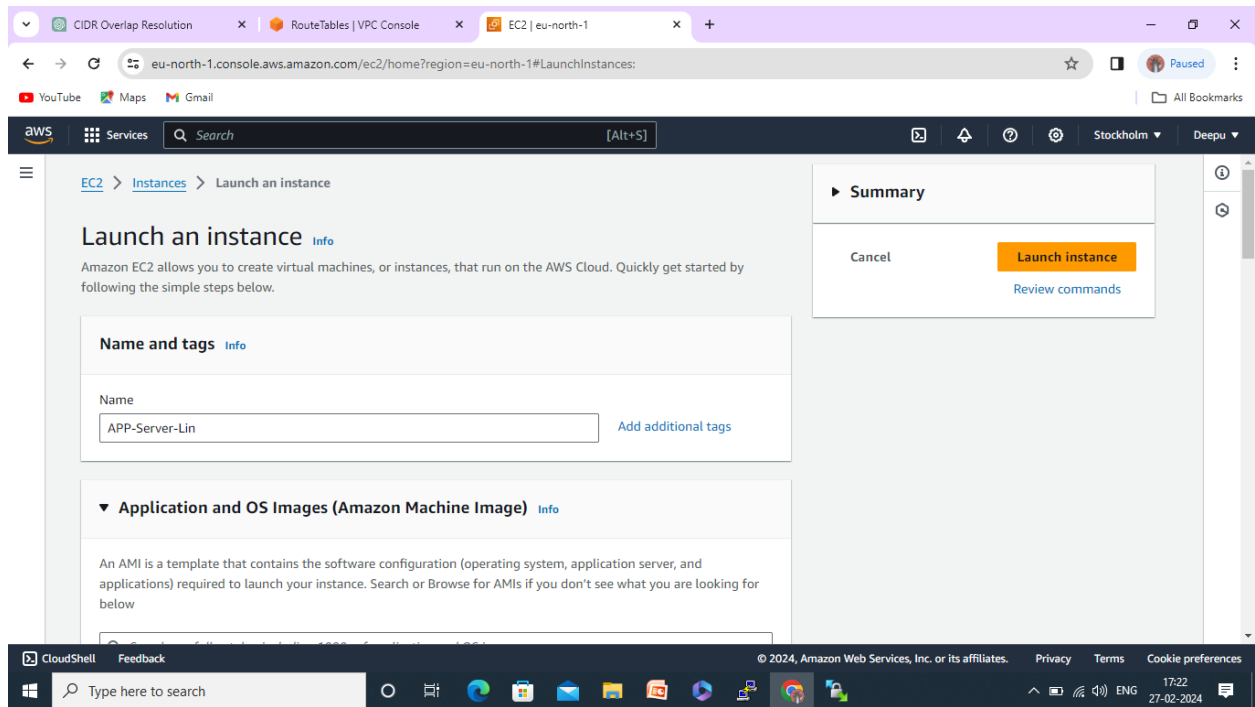
Type here to search

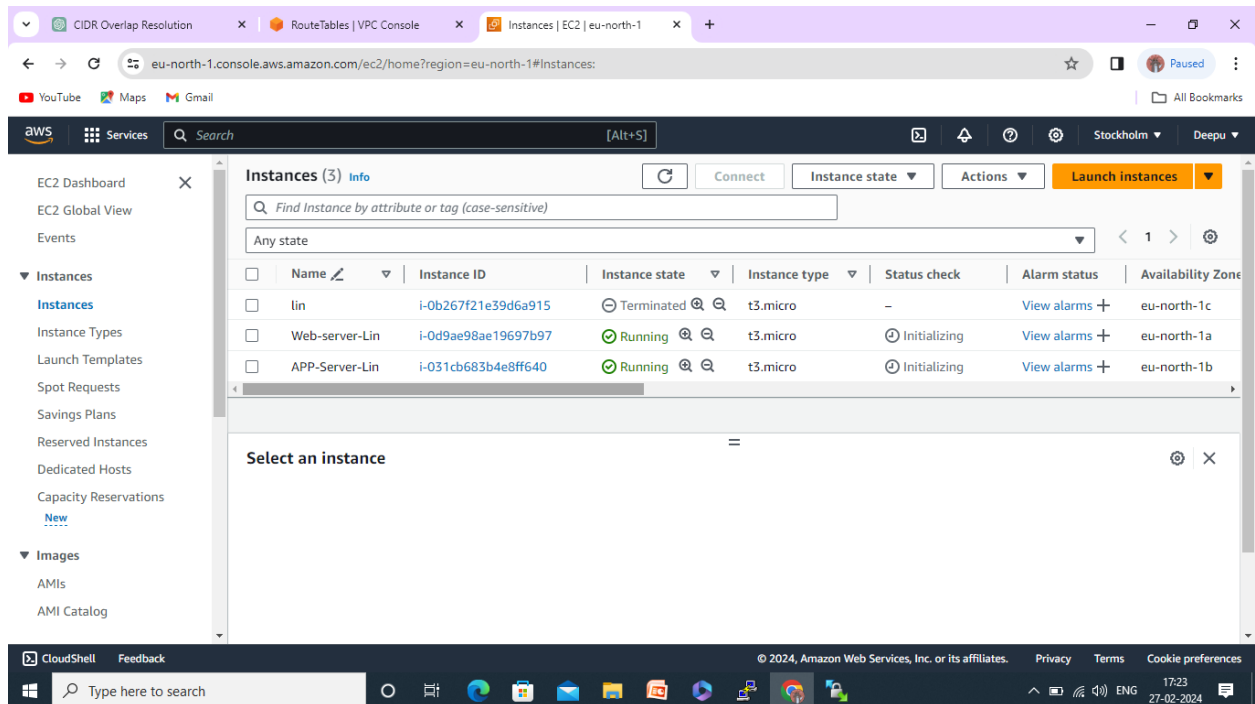
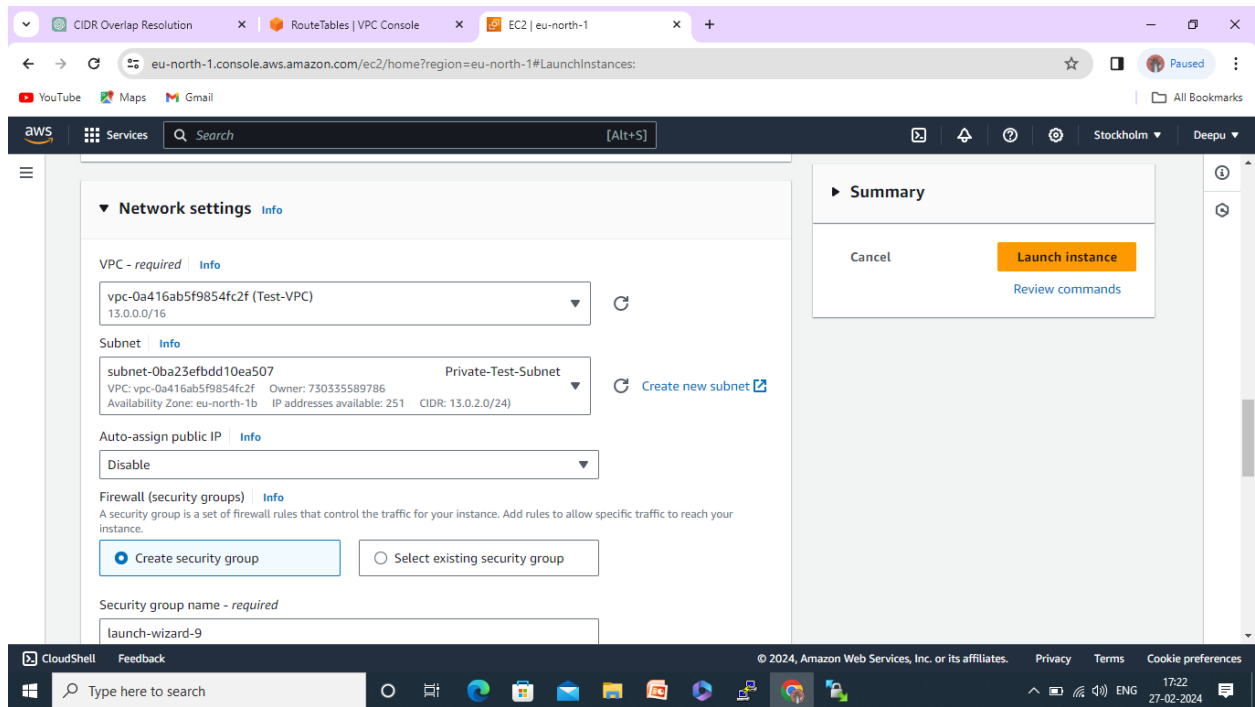
## 6. Creating Two EC2S one in Public and one in Private subnets with proper security groups.











## 7. Copying the security group to another EC2 in Private subnet

The screenshot shows the AWS Management Console for the eu-north-1 region. The breadcrumb navigation is EC2 > Security Groups > sg-0650b948c51de84b8 - launch-wizard-9. The main heading is 'sg-0650b948c51de84b8 - launch-wizard-9'. The 'Details' section contains the following information:

Security group name	Security group ID	Description	VPC ID
launch-wizard-9	sg-0650b948c51de84b8	launch-wizard-9 created 2024-02-27T11:52:02.678Z	vpc-0a416ab5f9854fc2f

Owner	Inbound rules count	Outbound rules count
730335589786	1 Permission entry	1 Permission entry

Below the details, there are tabs for 'Inbound rules', 'Outbound rules', and 'Tags'. The 'Inbound rules' tab is selected, showing 'Inbound rules (1)'. At the bottom of the console, there is a taskbar with various application icons and a search bar.

The screenshot shows the 'Edit inbound rules' page for the security group sg-0650b948c51de84b8 - launch-wizard-9. The breadcrumb navigation is EC2 > Security Groups > sg-0650b948c51de84b8 - launch-wizard-9 > Edit inbound rules. The main heading is 'Edit inbound rules'. Below the heading, there is a table with the following columns: Security group rule ID, Type, Protocol, Port range, Source, and Description - optional. The table contains one rule:

Security group rule ID	Type	Protocol	Port range	Source	Description - optional
sgr-0cc9fbbeb33a98fbc	SSH	TCP	22	Cus... 0.0.0.0/0	

Below the table, there is a 'Delete' button and an 'Add rule' button. At the bottom of the console, there is a taskbar with various application icons and a search bar. A yellow warning banner at the bottom of the page states: 'Rules with source of 0.0.0.0/0 or ::/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.'

CIDR Overlap Resolution x RouteTables | VPC Console x ModifyInboundSecurityGroupRules x +

eu-north-1.console.aws.amazon.com/ec2/home?region=eu-north-1#ModifyInboundSecurityGroupRules:securityGroupId=sg-0650b948c51de84b8

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aws Services Search [Alt+S]

## Edit inbound rules Info

Inbound rules control the incoming traffic that's allowed to reach the instance.

### Inbound rules Info

Security group rule ID	Type <small>Info</small>	Protocol <small>Info</small>	Port range <small>Info</small>	Source <small>Info</small>	Description - optional <small>Info</small>	
sg-0cc9fbee33a98fbc	SSH	TCP	22	Cus...	0.0.0.0/0	Delete
-	All TCP	TCP	0 - 65535	Cus...	sg-02c3a8d406df6e8ba	Delete

Add rule

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Type here to search

CIDR Overlap Resolution x RouteTables | VPC Console x EC2 | eu-north-1 x +

eu-north-1.console.aws.amazon.com/ec2/home?region=eu-north-1#Instances:instanceState=running

YouTube Maps Gmail All Bookmarks

aws Services Search [Alt+S]

EC2 Dashboard

EC2 Global View

Events

▼ Instances

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Capacity Reservations

New

▼ Images

AMIs

AMI Catalog

### Instances (1/2) Info

Find instance by attribute or tag (case-sensitive)

Instance state = running

Any state

	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
<input checked="" type="checkbox"/>	Web-server-Lin	i-0d9ae98ae19697b97	Running	t3.micro	2/2 checks passed	View alarms +	eu-north-1a
<input type="checkbox"/>	APP-Server-Lin	i-031cb683b4e8ff640	Running	t3.micro	2/2 checks passed	View alarms +	eu-north-1b

#### Instance: i-0d9ae98ae19697b97 (Web-server-Lin)

Details Status and alarms New Monitoring Security Networking Storage Tags

▼ Instance summary Info

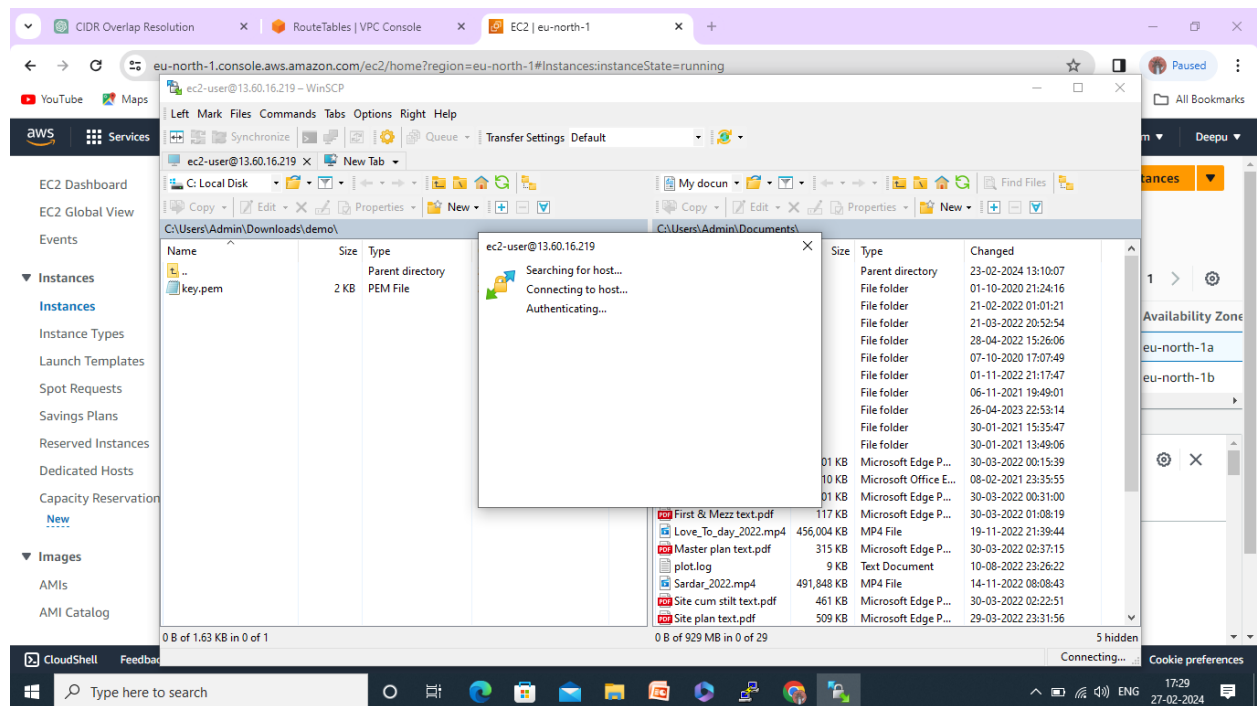
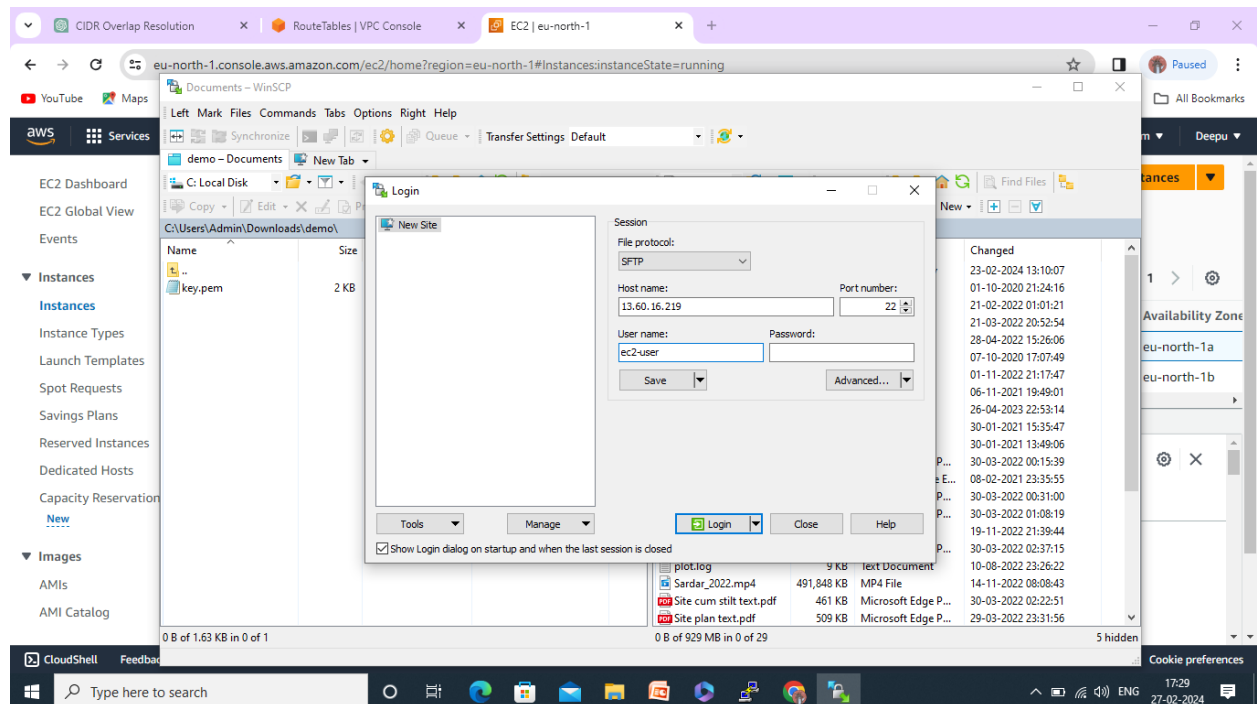
Instance ID	Public IPv4 address	Private IPv4 addresses
i-0d9ae98ae19697b97 (Web-server-Lin)	13.60.16.219 <a href="#">open address</a>	13.0.1.144
IPv6 address	Instance state	Public IPv4 DNS

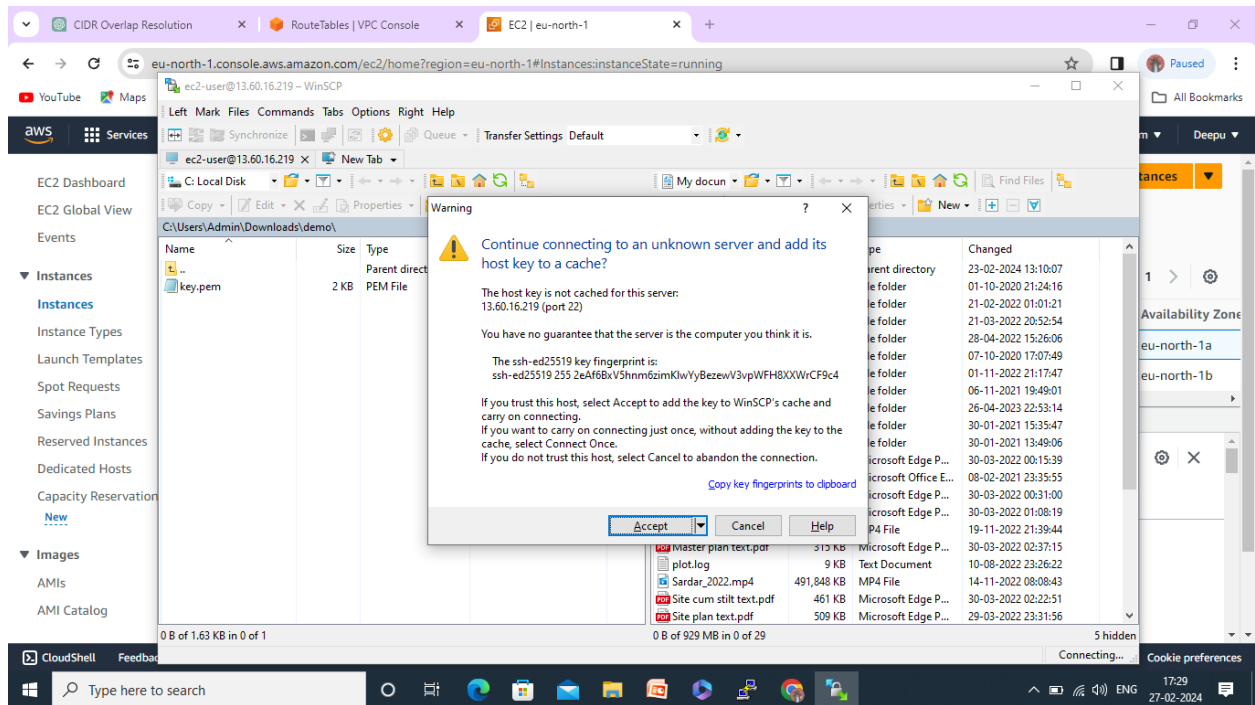
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Type here to search

Windows taskbar showing search bar, taskbar icons (Edge, Mail, File Explorer, etc.), and system tray (clock, network, volume).

# Copy pasting the ssh key file to the home directory of the private subnet EC2 machine by connecting with its ip in winscp





```
root@ip-13-0-1-144:~
[ec2-user@ip-13-0-1-144 ~]$ ls
key.pem
[ec2-user@ip-13-0-1-144 ~]$ sudo cp key.pem /root/
[ec2-user@ip-13-0-1-144 ~]$ sudo -i
[root@ip-13-0-1-144 ~]# cp key.pem /root/
cp: 'key.pem' and '/root/key.pem' are the same file
[root@ip-13-0-1-144 ~]# ls
key.pem
[root@ip-13-0-1-144 ~]#
```





## 9. Creating NAT Gateway with Elastic IP for the internet connection Public Subnet . And Mapping it to Private RT.

The screenshot displays the AWS Management Console interface for creating a NAT gateway. The browser tabs include 'CIDR Overlap Resolution', 'CreateNatGateway | VPC Conso', and 'EC2 | eu-north-1'. The URL is 'eu-north-1.console.aws.amazon.com/vpcconsole/home?region=eu-north-1#CreateNatGateway:'. The page title is 'Create NAT gateway' with an 'Info' link. Below the title, a description states: 'A highly available, managed Network Address Translation (NAT) service that instances in private subnets can use to connect to services in other VPCs, on-premises networks, or the internet.'

The 'NAT gateway settings' section includes the following fields:

- Name - optional:** A text input field containing 'MY-NAT'. A note below states: 'Create a tag with a key of 'Name' and a value that you specify. The name can be up to 256 characters long.'
- Subnet:** A dropdown menu showing 'subnet-0a51d5a8b2e678110 (Public-Test-Subnet)'. A note below states: 'Select a subnet in which to create the NAT gateway.'
- Connectivity type:** Two radio buttons, 'Public' (selected) and 'Private'. A note below states: 'Select a connectivity type for the NAT gateway.'
- Elastic IP allocation ID:** A dropdown menu showing 'eipalloc-0408ac6849a4e6640'. A note below states: 'Assign an Elastic IP address to the NAT gateway.'

A green notification bar at the top of the console area states: 'Elastic IP address 51.21.54.56 (eipalloc-0408ac6849a4e6640) allocated.' Below the notification bar, the 'Allocate Elastic IP' button is visible. The 'Additional settings' section is collapsed, showing a 'Tags' section with a note: '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.'

The bottom of the screenshot shows the Windows taskbar with the search bar and various application icons. The system tray shows the date and time as '17:49 27-02-2024'.

CIDR Overlap Resolution Elastic IP addresses | VPC Console EC2 | eu-north-1

eu-north-1.console.aws.amazon.com/vpcconsole/home?region=eu-north-1#Addresses:

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VPC dashboard X EC2 Global View Filter by VPC: Select a VPC

Virtual private cloud Your VPCs Subnets Route tables Internet gateways Egress-only internet gateways DHCP option sets Elastic IPs Managed prefix lists Endpoints Endpoint services NAT gateways

### Elastic IP addresses (1/1)

Filter Elastic IP addresses

<input checked="" type="checkbox"/>	Name	Allocated IPv4 add...	Type	Allocation ID	Reverse DN
<input checked="" type="checkbox"/>	-	51.21.54.56	Public IP	eipalloc-0408ac6849a4e6640	-

View IP address usage and recommendations to release unused IPs with [Public IP insights](#).

51.21.54.56

Summary Tags

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Type here to search

CIDR Overlap Resolution RouteTables | VPC Console EC2 | eu-north-1

eu-north-1.console.aws.amazon.com/vpcconsole/home?region=eu-north-1#RouteTables:vpclid=vpc-0a416ab5f9854fc2f

YouTube Maps Gmail All Bookmarks

aws Services Search [Alt+S]

VPC dashboard X EC2 Global View Filter by VPC: Select a VPC

Virtual private cloud Your VPCs Subnets Route tables Internet gateways Egress-only internet gateways DHCP option sets Elastic IPs Managed prefix lists Endpoints Endpoint services NAT gateways

### Route tables (1/3) Info

Find resources by attribute or tag

VPC : vpc-0a416ab5f9854fc2f Clear filters

<input type="checkbox"/>	Name	Route table ID	Explicit subnet associ...	Edge associations	Main
<input type="checkbox"/>	-	rtb-07cd1eae8f87e0ef6	-	-	Yes
<input type="checkbox"/>	Public-Route-Table	rtb-0d1d5c200696fe683	subnet-0a51d5a8b2e678...	-	No
<input checked="" type="checkbox"/>	Private-Route-Table	rtb-0ff88b1c5a9bcd48f	subnet-0ba23efbddd10ea...	-	No

rtb-0ff88b1c5a9bcd48f / Private-Route-Table

Details Routes Subnet associations Edge associations Route propagation Tags

Routes (1)

Filter routes

Destination	Target	Status	Propagated
-------------	--------	--------	------------

CIDR Overlap Resolution

EditRoutes | VPC Console

EC2 | eu-north-1

eu-north-1.console.aws.amazon.com/vpcconsole/home?region=eu-north-1#EditRoutes:RouteTableId=rtb-0ff88b1c5a9bcd48f

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awsServicesSearch[Alt+S]

StockholmDeepu

VPCRoute tablesrtb-0ff88b1c5a9bcd48fEdit routes

Edit routes

Destination	Target	Status	Propagated
13.0.0.0/16	local	Active	No
0.0.0.0/0	NAT Gateway	-	No
	nat-05be04ec4b950668e		
	Use: "nat-05be04ec4b950668e"		
	nat-05be04ec4b950668e (MY-NAT)		

Add route

CancelPreviewSave changes

CloudShellFeedback

Type here to search

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17:5027-02-2024

CIDR Overlap Resolution

EditRoutes | VPC Console

EC2 | eu-north-1

eu-north-1.console.aws.amazon.com/vpcconsole/home?region=eu-north-1#EditRoutes:RouteTableId=rtb-0ff88b1c5a9bcd48f

YouTubeMapsGmail

awsServicesSearch[Alt+S]

StockholmDeepu

VPCRoute tablesrtb-0ff88b1c5a9bcd48fEdit routes

Edit routes

Destination	Target	Status	Propagated
13.0.0.0/16	local	Active	No
0.0.0.0/0	NAT Gateway	-	No
	nat-05be04ec4b950668e		
	Use: "nat-05be04ec4b950668e"		
	nat-05be04ec4b950668e (MY-NAT)		

Add route

CancelPreviewSave changes

CloudShellFeedback

Type here to search

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17:5027-02-2024

```
ec2-user@ip-13-0-2-115~  
64 bytes from 8.8.8.8: icmp_seq=9 ttl=54 time=4.08 ms  
64 bytes from 8.8.8.8: icmp_seq=10 ttl=54 time=4.05 ms  
64 bytes from 8.8.8.8: icmp_seq=11 ttl=54 time=4.11 ms  
c64 bytes from 8.8.8.8: icmp_seq=12 ttl=54 time=4.09 ms  
64 bytes from 8.8.8.8: icmp_seq=13 ttl=54 time=4.06 ms  
64 bytes from 8.8.8.8: icmp_seq=14 ttl=54 time=4.08 ms  
^C  
--- 8.8.8.8 ping statistics ---  
14 packets transmitted, 14 received, 0% packet loss, time 13015ms  
rtt min/avg/max/mdev = 4.044/4.072/4.118/0.018 ms  
[root@ip-13-0-1-144 ~]# ls  
key.pem  
[root@ip-13-0-1-144 ~]# chmod 600 key.pem  
[root@ip-13-0-1-144 ~]# ssh -i key.pem ec2-user@13.0.2.115  
The authenticity of host '13.0.2.115 (13.0.2.115)' can't be established.  
ECDSA key fingerprint is SHA256:4FUD9R9JvTYNUJNODLO9jCSMJW/UPY5lXa3xFnsJSmQ.  
ECDSA key fingerprint is MD5:be:b4:cd:3b:ed:c5:18:78:a9:dc:72:74:8e:b0:16:84.  
Are you sure you want to continue connecting (yes/no)? y  
Please type 'yes' or 'no': yes  
Warning: Permanently added '13.0.2.115' (ECDSA) to the list of known hosts.  
  
#####  
~\#####\ Amazon Linux 2  
~~\#####\  
~~\###| AL2 End of Life is 2025-06-30.  
~~ \#/ V~'|>  
~~~~ A newer version of Amazon Linux is available!  
~~~~_|_/_/  
~/m/' Amazon Linux 2023, GA and supported until 2028-03-15.  
https://aws.amazon.com/linux/amazon-linux-2023/  
[ec2-user@ip-13-0-2-115 ~]$
```

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```
ec2-user@ip-13-0-2-115~  
rtt min/avg/max/mdev = 4.044/4.072/4.118/0.018 ms  
[root@ip-13-0-1-144 ~]# ls  
key.pem  
[root@ip-13-0-1-144 ~]# chmod 600 key.pem  
[root@ip-13-0-1-144 ~]# ssh -i key.pem ec2-user@13.0.2.115  
The authenticity of host '13.0.2.115 (13.0.2.115)' can't be established.  
ECDSA key fingerprint is SHA256:4FUD9R9JvTYNUJNODLO9jCSMJW/UPY5lXa3xFnsJSmQ.  
ECDSA key fingerprint is MD5:be:b4:cd:3b:ed:c5:18:78:a9:dc:72:74:8e:b0:16:84.  
Are you sure you want to continue connecting (yes/no)? y  
Please type 'yes' or 'no': yes  
Warning: Permanently added '13.0.2.115' (ECDSA) to the list of known hosts.  
  
#####  
~\#####\ Amazon Linux 2  
~~\#####\  
~~\###| AL2 End of Life is 2025-06-30.  
~~ \#/ V~'|>  
~~~~ A newer version of Amazon Linux is available!  
~~~~_|_/_/  
~/m/' Amazon Linux 2023, GA and supported until 2028-03-15.  
https://aws.amazon.com/linux/amazon-linux-2023/  
[ec2-user@ip-13-0-2-115 ~]$ ping 8.8.8.8  
PING 8.8.8.8 (8.8.8.8) 56(84) bytes of data:  
64 bytes from 8.8.8.8: icmp_seq=1 ttl=54 time=4.81 ms  
64 bytes from 8.8.8.8: icmp_seq=2 ttl=54 time=4.51 ms  
64 bytes from 8.8.8.8: icmp_seq=3 ttl=54 time=4.49 ms  
64 bytes from 8.8.8.8: icmp_seq=4 ttl=54 time=4.55 ms  
64 bytes from 8.8.8.8: icmp_seq=5 ttl=54 time=4.58 ms  
64 bytes from 8.8.8.8: icmp_seq=6 ttl=54 time=4.49 ms  
64 bytes from 8.8.8.8: icmp_seq=7 ttl=54 time=4.51 ms
```

