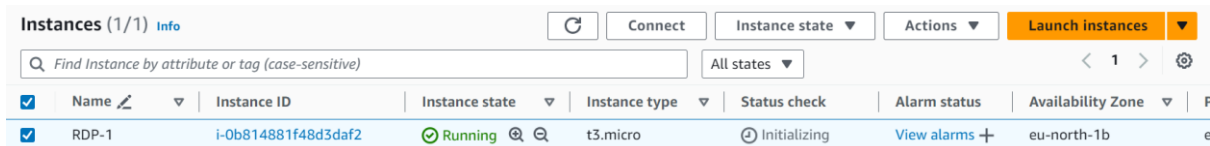


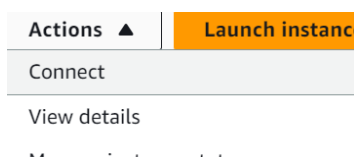
LAB -6: RDP CLIENT [WINDOWS]:

AIM: Is to connect to a **WINDOWS** client with the help of RDP in AWS.

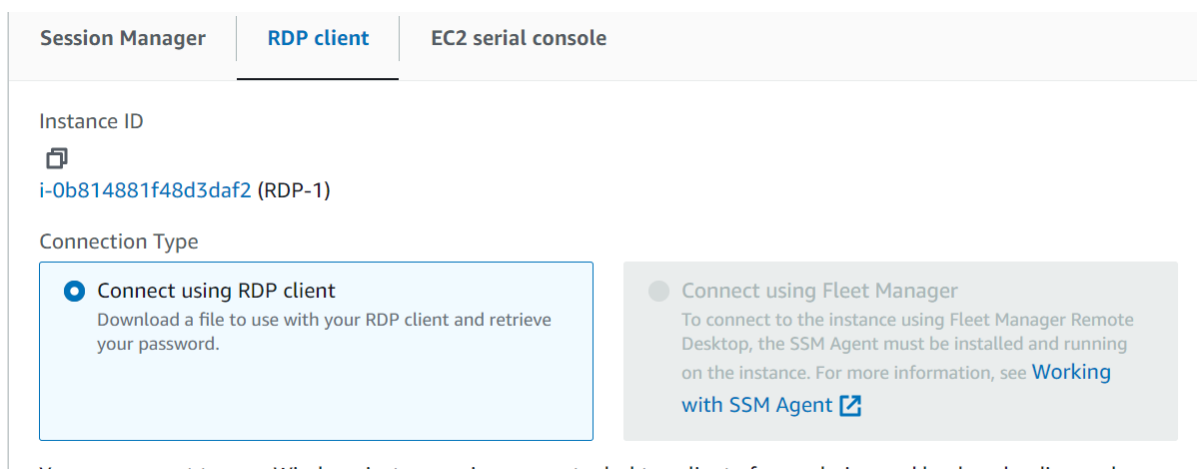
1. Open the Amazon EC2 console.



2. From the navigation pane, choose **Instances**.
3. Select the instance and then choose **Connect**.



4. On the **Connect to instance** page, choose the **RDP client** tab.



5. For **Username**, choose the default username for the Administrator account. The username you choose must match the language of the operating system (OS) contained in the AMI that you used to launch your instance. If there is no username in the same language as your OS, choose **Administrator (Other)**.
6. Choose **Get password**.
7. On the **Get Windows password** page, do the following:


- a. Choose **Upload private key file** and navigate to the private key (.pem) file that you specified when you launched the instance. Select the file and choose **Open** to copy the entire contents of the file to this window.
- b. Choose **Decrypt password**. The **Get Windows password** page closes, and the default administrator password for the instance appears under **Password**, replacing the **Get password** link shown previously.
- c. Copy the password and save it in a safe place. This password is required to connect to the instance.



RDP-1

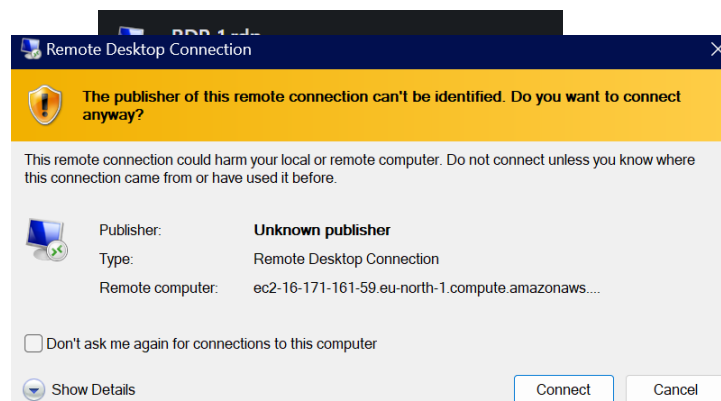
Private key

Either upload your private key file or copy and paste its contents into the field below.

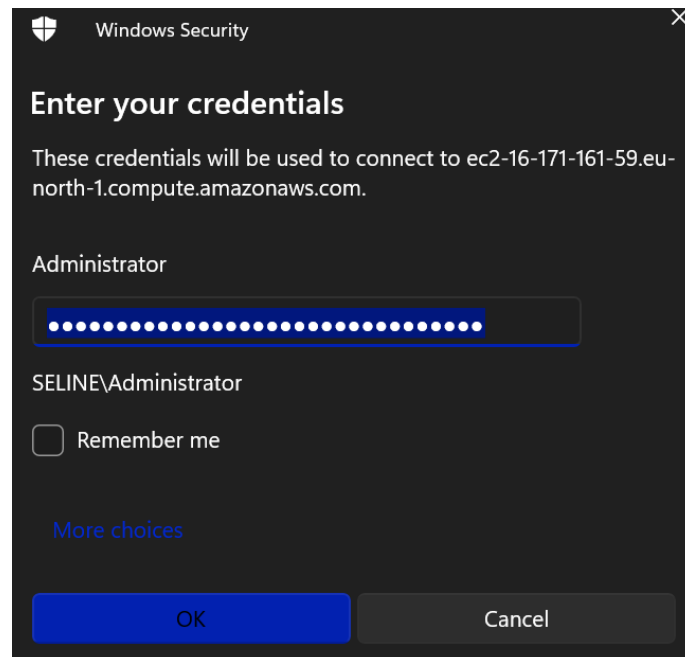
 **Upload private key file**

✓ RDP-1.pem
1.678KB

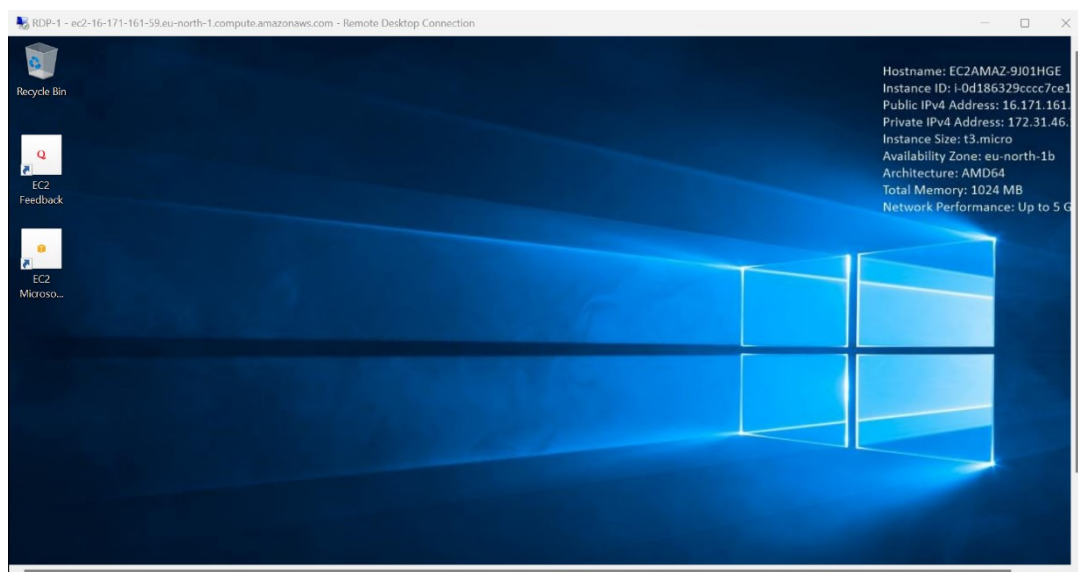
8. Choose **Download remote desktop file**. Your browser prompts you to either open or save the RDP shortcut file. When you have finished downloading the file, choose **Cancel** to return to the **Instances** page.
 1. If you opened the RDP file, you'll see the **Remote Desktop Connection** dialog box.
 2. If you saved the RDP file, navigate to your downloads directory, and open the RDP file to display the dialog box.
9. You might get a warning that the publisher of the remote connection is unknown. Choose **Connect** to continue to connect to your instance.



10. Choose **Yes** when asked if we want to connect despite certificate errors.
11. Enter the **password** you have saved earlier.



12. Your Windows desktop is connected through RDP client



LAB -7: CONNECT TO CLIENT USING PuTTY:

AIM: Is to connect to a LINUX [CLIENT] using PuTTY and PuTTY GEN.

1. Create instances with Ubuntu platform and .pem key pair.

Instances (2) Info							
<div>Find Instance by attribute or tag (case-sensitive)</div>							
Running							
<input type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	A
<input type="checkbox"/>	LINUX	i-08ea9aa0884b63323	Running	t3.micro	Initializing	View alarms +	ei

2. In PuTTY GEN, open the .pem file and **Save private Key**.

PuTTY Key Generator

File Key Conversions Help

Key

Public key for pasting into OpenSSH authorized_keys file:

ssh-rsa
AAAAB3NzaC1yc2EAAAADAQABAAQCb6xcKVZdD3rif/1mkzLzY2Jfo2VkiVfBQAIbRNTcpFM7vWYsjxDeNf
d28rN5tsRp4qETEL2IZYT6SnW1FZAyV2rt
+NmM5xu5D1zSxgh3rl50Jcqfay/og/4wcE3AMD97hMKPUzpvHlg4bH4bXusk
+aTvAlJAatabsICTfiPcH1FoJVjROxGYzBuGWYa+Ka+fypODXLvY1mb6tc5KXawDoq2w

Key fingerprint: ssh-rsa 2048 SHA256:2qldnKq/NXNxMj5qQJN+tOSpAX6zZdtDRljv0CGNld0

Key comment: imported-openssh-key

Key passphrase:

Confirm

Actions

Generate a public/private key pair

Load an existing private key file

Save the generated key

Generate

Load

Save public key

Save private key

Parameters

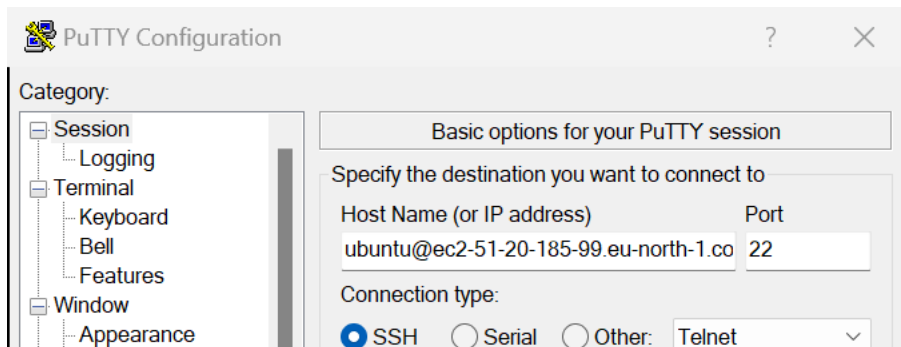
Type of key to generate:

Number of bits in a generated key:

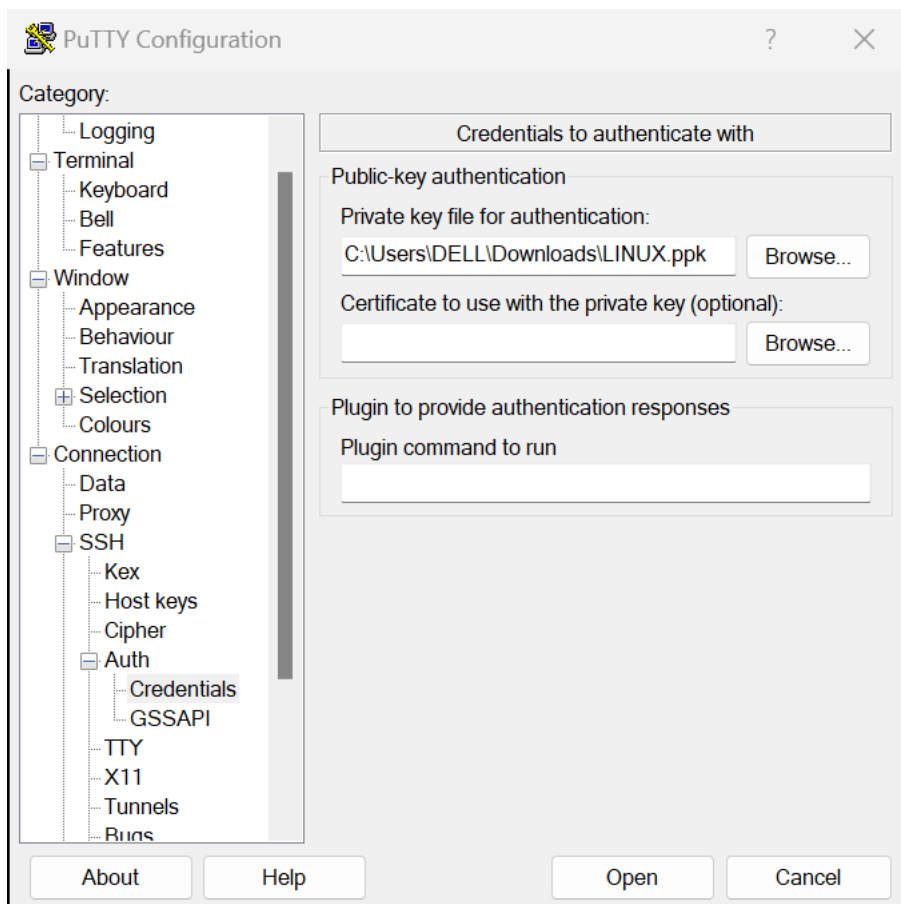
☒ RSA ☐ DSA ☐ ECDSA ☐ EdDSA ☐ SSH-1 (RSA)

2048

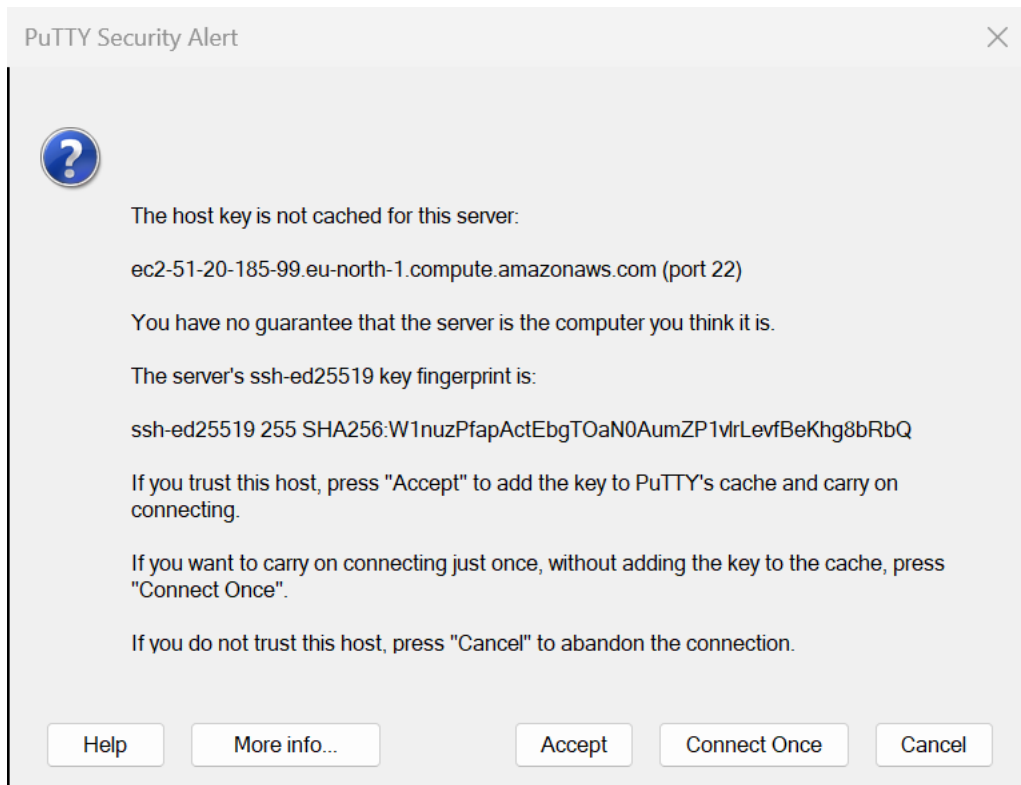
3. Open PuTTY and select **Session** and in **Host Name** do enter **instance-user-name@instance-public-dns-name**.
Here, instance username is ubuntu



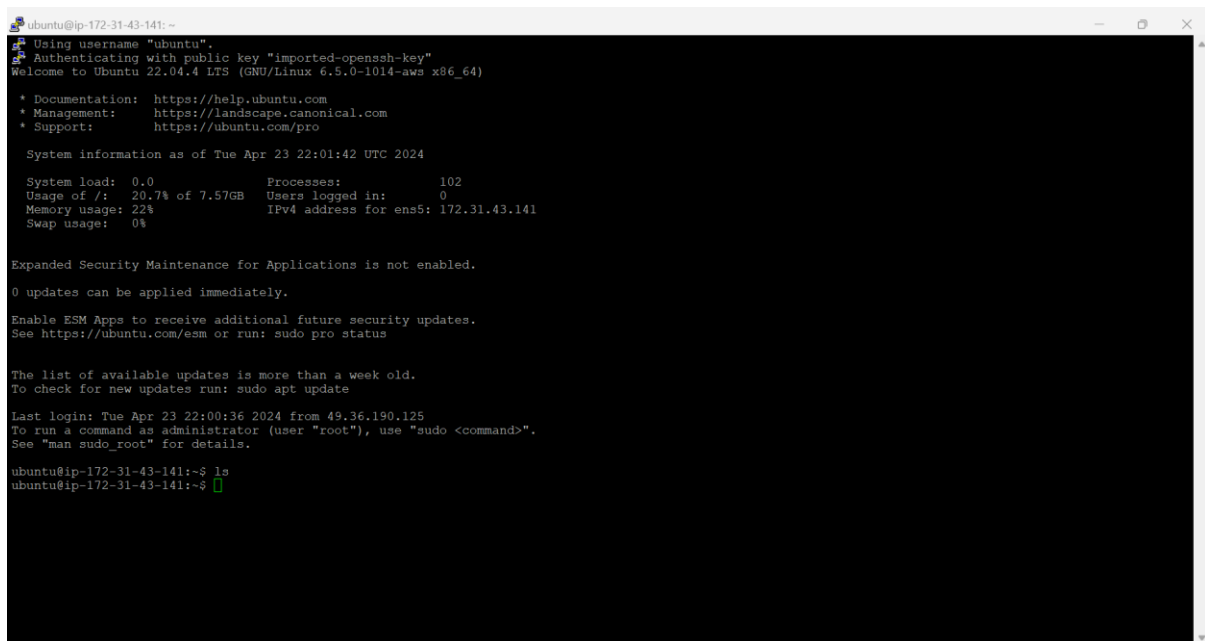
4. Go to **CONNECTIONS – SSH – Auth** and in **Private key file for authentication**, open the .ppk file you have downloaded



5. Click on **Open**.



6. Click on **Accept/ Connect Once**.



7. Your client has started running.

LAB 8: NAT:

AIM: Is to connect to a NAT INSTANCE.

1. Create VPC for NAT Instance

VPC settings

Resources to create [Info](#)

Create only the VPC resource or the VPC and other networking resources.

☐ VPC only

☒ VPC and more

Name tag auto-generation [Info](#)

Enter a value for the Name tag. This value will be used to auto-generate Name tags for all resources in the VPC.

☒ Auto-generate

project

IPv4 CIDR block [Info](#)

Determine the starting IP and the size of your VPC using CIDR notation.

10.0.0.0/16

65,536 IPs

Number of Availability Zones (AZs) [Info](#)

Choose the number of AZs in which to provision subnets. We recommend at least 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

2. Create security groups

Basic details

Security group name [Info](#)

NAT

Name cannot be edited after creation.

Description [Info](#)

Allows SSH access to developers

VPC [Info](#)

vpc-09b4de018bd7bb287 (project-vpc)

Inbound rules [Info](#)

Type Info	Protocol Info	Port range Info	Source Info
All traffic	All	All	Any...

3. Launch an Instance with the following details

VPC - required [Info](#)

vpc-09b4de018bd7bb287 (project-vpc)

10.0.0.0/16

Subnet [Info](#)

subnet-07ee637930f36db0c

project-subnet-public2-eu-north-1b

VPC: vpc-09b4de018bd7bb287 Owner: 211125607676

Availability Zone: eu-north-1b IP addresses available: 4091 CIDR: 10.0.16.0/20

Create new subnet

Auto-assign public IP [Info](#)

Enable

Additional charges apply when outside of free tier allowance

Firewall (security groups) [Info](#)

A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.

Create security group

Select existing security group

Common security groups [Info](#)

Select security groups

NAT sg-02d2857d71752b445 X

VPC: vpc-09b4de018bd7bb287

Compare security group rules

4. Select the instance and click on **NETWORKING – CHANGE SOURCE/DESTINATION CHECK**.

The screenshot shows the AWS Management Console interface for an EC2 instance. At the top, there are buttons for 'Connect', 'Instance state', and 'Actions'. The 'Actions' menu is open, displaying a list of options: 'Connect', 'View details', 'Manage instance state', 'Instance settings', 'Networking' (highlighted), 'Security', 'Image and templates', and 'Monitor and troubleshoot'. A sub-menu for 'Networking' is also open, showing options like 'Attach network interface', 'Detach network interface', 'Connect RDS database', 'Disaster recovery for your instances', 'Change source/destination check' (highlighted), 'Disassociate Elastic IP address', 'Manage IP addresses', and 'Manage ENA Express'. The instance details shown include 't3.micro' as the instance type and 'Initializing' as the status.

Change Source / destination check

The source / destination check ensures that the instance is the source or destination of all the traffic it sends and receives. Each EC2 instance performs source and destination checks by default. [Learn more](#)

Instance ID



i-01ec0b8142119176d (NAT)

Network interface



eni-0f9756a4de6786023

Source / destination checking

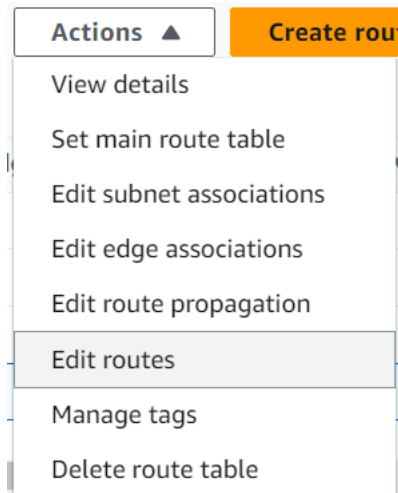
Stop to allow your instance to send and receive traffic when the source or destination is not itself.

☒ Stop

Cancel

Save

5. Go to **Route Tables** in VPC.
6. Select **Edit Routes**.



7. Select **0.0.0.0/0 – NAT GATEWAY**

Destination	Target	Status
pl-c3aa4faa	vpce-009f5e1902a82f33b	✓ Active
10.0.0.0/16	local	✓ Active
Q 0.0.0.0/0 X	NAT Gateway	-
	Q nat-0105b3062cf759dfa X	

8. CLICK ON EDIT
9. Have successfully launched **NAT INSTANCE**.