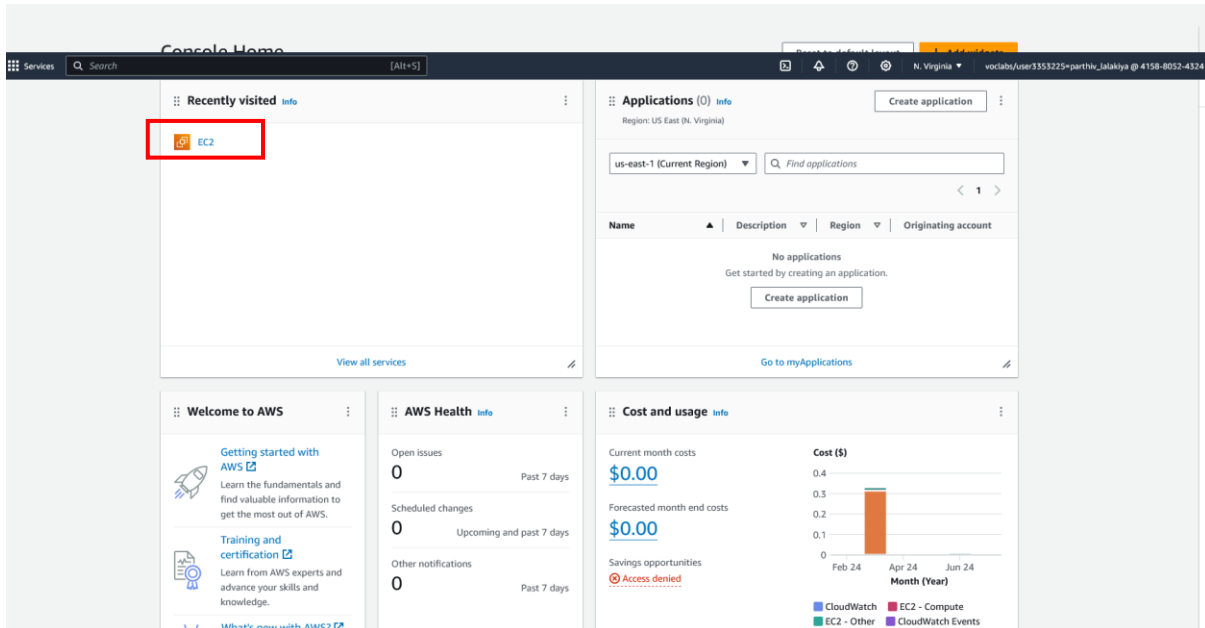


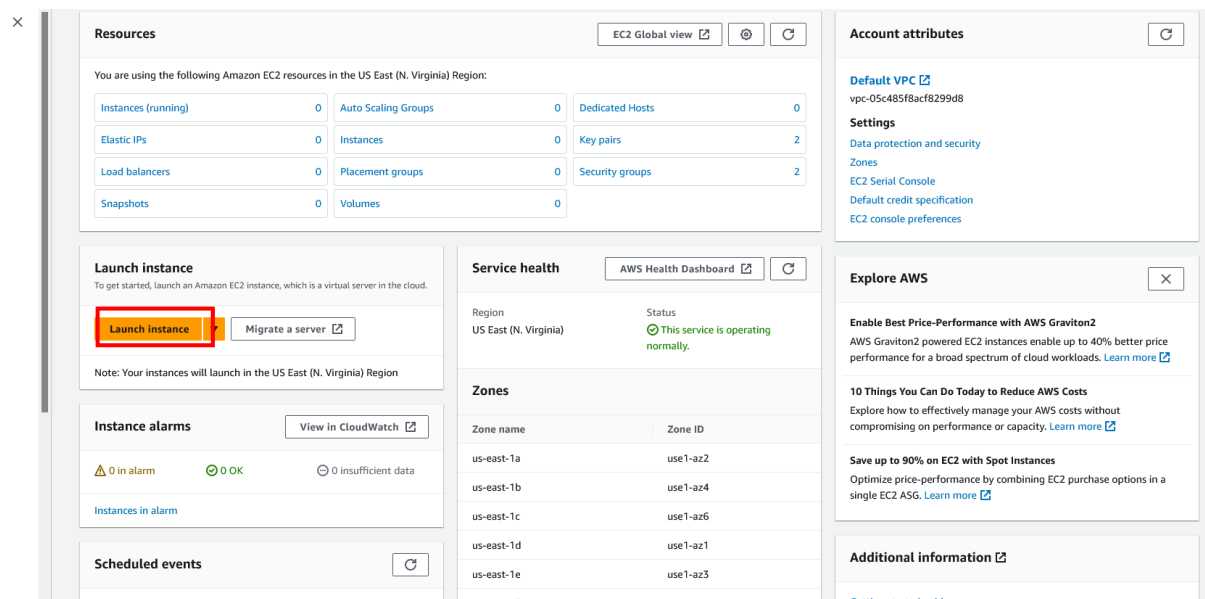
Practical 2:

Aim: To Configure EC2 Instance for Amazon Linux Using Aws

Step 1: Now We Select Ec2



Step 2: Now Click On Launch Instance



Step 3: Now we enter a name like mylinuxserver

EC2 > Instances > Launch an instance

Launch an instance [Info](#)

Amazon EC2 allows you to create virtual machines, or instances, that run on the AWS Cloud. Quickly get started by following the simple steps below.

Name and tags [Info](#)

Name

mylinuxserver [Add additional tags](#)

▼ Application and OS Images (Amazon Machine Image) [Info](#)

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. Search or Browse for AMIs if you don't see what you are looking for below

Search our full catalog including 1000s of application and OS images

[Quick Start](#)

Amazon Linux
aws

macOS
Mac

Ubuntu
ubuntu

Windows
Microsoft

Red Hat
Red Hat

SUSE Linux
SUSE

[Browse more AMIs](#)
Including AMIs from AWS, Marketplace and the Community

Amazon Machine Image (AMI)

▼ Summary

Number of instances [Info](#)

1

Software Image (AMI)

Amazon Linux 2023 AMI 2023.5.2...[read more](#)
ami-06c68f701d8090592

Virtual server type (instance type)

t2.micro

Firewall (security group)

New security group

Storage (volumes)

1 volume(s) - 8 GiB

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 750 hours of public IPv4 address usage per month, 30 GiB of EBS storage, 2 million I/Os, 1 GB of snapshots, and 100 GB of bandwidth to the internet.


Cancel [Launch instance](#) [Review commands](#)

Step 3: then select Amazon Linux

▼ Application and OS Images (Amazon Machine Image) [Info](#)

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. Search or Browse for AMIs if you don't see what you are looking for below

Quick Start




macOS

Ubuntu

Windows

Red Hat

SUSE Li

[Browse more AMIs](#)
Including AMIs from AWS, Marketplace and the Community

Amazon Machine Image (AMI)

Amazon Linux 2023 AMI

ami-06c68f701d8090592 (64-bit (x86), uefi-preferred) / ami-07832e309d3f756c8 (64-bit (Arm), uefi)
Virtualization: hvm ENA enabled: true Root device type: ebs

Free tier eligible ▼

Description

Amazon Linux 2023 is a modern, general purpose Linux-based OS that comes with 5 years of long term support. It is optimized for AWS and designed to provide a secure, stable and high-performance execution environment to develop and run your cloud applications.

Architecture

64-bit (x86) ▼

Boot mode

uefi-preferred

AMI ID

ami-06c68f701d8090592

Verified provider

▼ Summary

Number of instances [Info](#)

1

Software Image (AMI)

Amazon Linux 2023 AMI 2023.5.2...[read more](#)
ami-06c68f701d8090592

Virtual server type (instance type)

t2.micro

Firewall (security group)

New security group

Storage (volumes)

1 volume(s) - 8 GiB

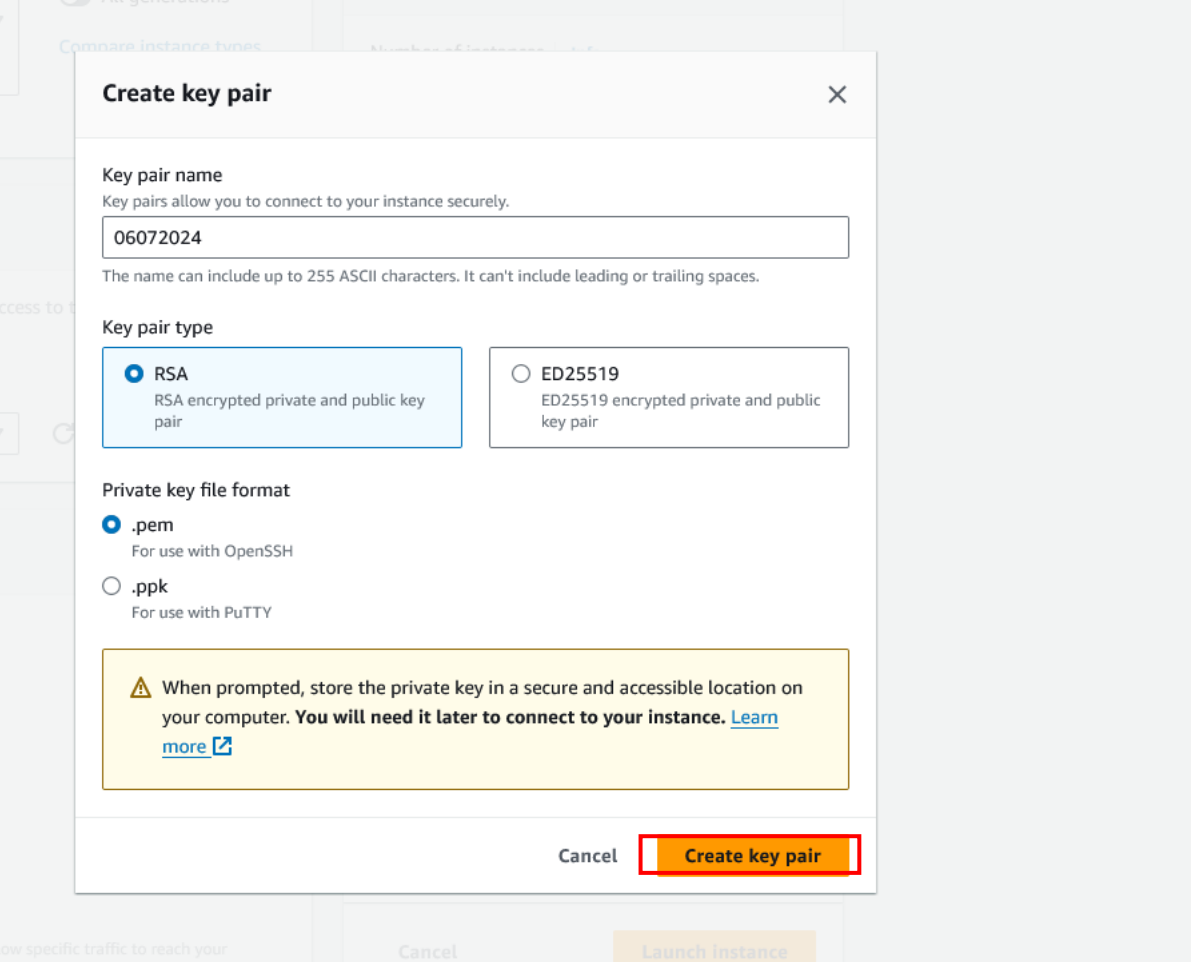
Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 750 hours of public IPv4 address usage per month, 30 GiB of EBS storage, 2 million IOs, 1 GB of snapshots, and 100 GB of bandwidth to the internet.

Cancel

Launch instance

[Review commands](#)

Step 4: now we create key pair like 06072024



The screenshot shows the 'Create key pair' dialog box in the AWS Management Console. The dialog has a title bar with a close button (X). It contains the following sections:

- Key pair name:** A text input field containing '06072024'. Below the field is a note: 'The name can include up to 255 ASCII characters. It can't include leading or trailing spaces.'
- Key pair type:** Two radio button options:
 - ☒ **RSA**
RSA encrypted private and public key pair
 - ☐ **ED25519**
ED25519 encrypted private and public key pair
- Private key file format:** Two radio button options:
 - ☒ **.pem**
For use with OpenSSH
 - ☐ **.ppk**
For use with PuTTY
- Warning box:** A yellow box with a warning icon and text: 'When prompted, store the private key in a secure and accessible location on your computer. **You will need it later to connect to your instance.** [Learn more](#)

Step 5: here we select allow SSH traffic from by default and configure storage is select 8 GiB

Step 6: now click on Launch instance

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

We'll create a new security group called 'launch-wizard-2' with the following rules:

☒ Allow SSH traffic from
Helps you connect to your instance
Anywhere
0.0.0.0/0

☐ Allow HTTPS traffic from the internet
To set up an endpoint, for example when creating a web server

☐ Allow HTTP traffic from the internet
To set up an endpoint, for example when creating a web server

⚠ Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

▼ **Configure storage** [Info](#) Advanced

1x 8 GiB gp3 Root volume (Not encrypted)

📘 Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage

Add new volume

🕒 Click refresh to view backup information

▼ **Summary**

Number of instances [Info](#)

1

Software Image (AMI)

Amazon Linux 2023 AMI 2023.5.2...[read more](#)
ami-06c68f701d8090592

Virtual server type (instance type)

t2.micro

Firewall (security group)

New security group

Storage (volumes)

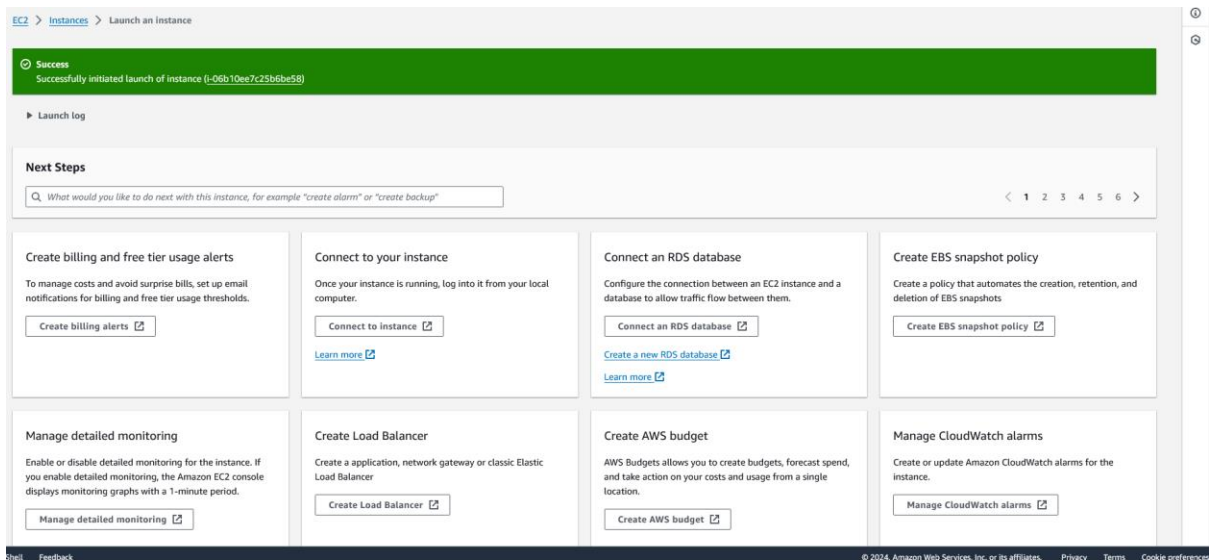
1 volume(s) - 8 GiB

📘 **Free tier:** In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 750 hours of public IPv4 address usage per month, 30 GiB of EBS storage, 2 million IOs, 1 GB of snapshots, and 100 GB of bandwidth to the internet.

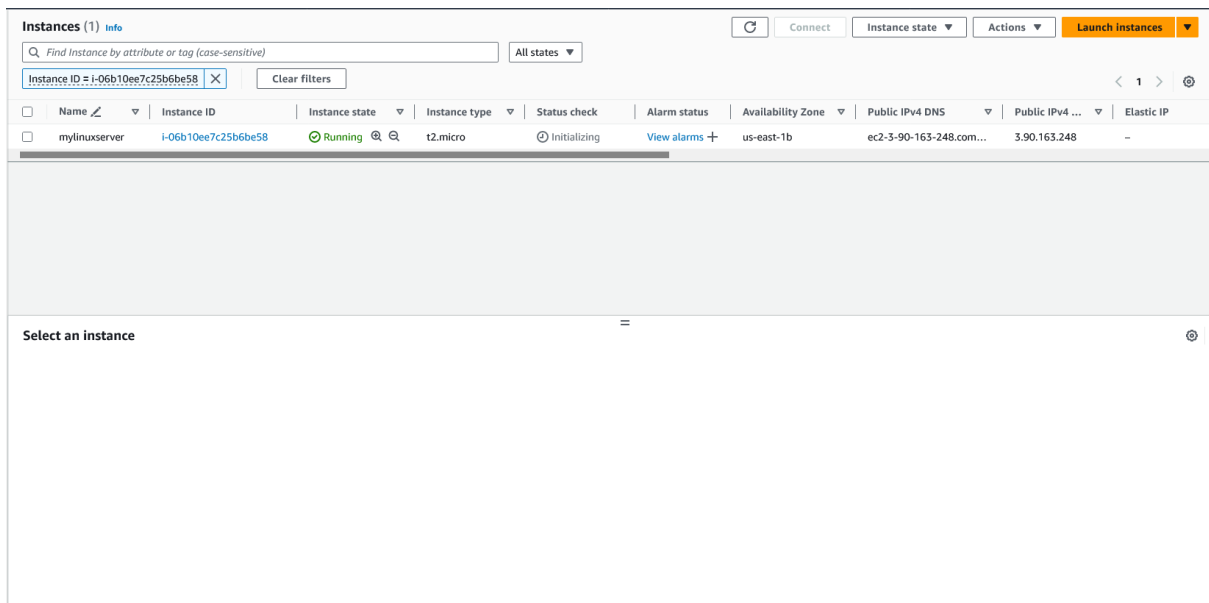
Cancel

Launch instance

[Review commands](#)



Step 7: now we wait until status check is installing



instances (1) info

Find Instance by attribute or tag (case-sensitive)

All states

Instance ID

Clear filters

Refresh

Connect

Instance state

Actions

Launch instances

<input type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 ...	Elastic IP
<input type="checkbox"/>	mylinuxserver	i-06b10ee7c25b6be58	Running	t2.micro	2/2 checks passed	View alarms	us-east-1b	ec2-3-90-163-248.com...	3.90.163.248	-

Select an instance

Step 8: now we select the mylinuxserver and click on connect button

Instances (1/1) info

Find Instance by attribute or tag (case-sensitive)

All states

Instance ID

Clear filters

Refresh

Connect

Instance state

Actions

Launch instances

<input checked="" type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 ...	Elastic IP
<input checked="" type="checkbox"/>	mylinuxserver	i-06b10ee7c25b6be58	Running	t2.micro	2/2 checks passed	View alarms	us-east-1b	ec2-3-90-163-248.com...	3.90.163.248	-

i-06b10ee7c25b6be58 (mylinuxserver)

Details

Status and alarms

Monitoring

Security

Networking

Storage

Tags

▼ Instance summary info

Instance ID
 i-06b10ee7c25b6be58 (mylinuxserver)

IPv6 address
-

Hostname type
IP name: ip-172-31-19-35.ec2.internal

Answer private resource DNS name
IPv4 (A)

Auto-assigned IP address

Public IPv4 address
 3.90.163.248 | [open address](#)

Instance state
 Running

Private IP DNS name (IPv4 only)
 ip-172-31-19-35.ec2.internal

Instance type
t2.micro

VPC ID

Private IPv4 addresses
 172.31.19.35

Public IPv4 DNS
 ec2-3-90-163-248.compute-1.amazonaws.com | [open address](#)

Elastic IP addresses
-

AWS Compute Optimizer finding

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Step 9: in this connect to instance us select ec2 instance connect

EC2 > Instances > i-06b10ee7c25b6be58 > Connect to instance

Connect to instance [Info](#)

Connect to your instance i-06b10ee7c25b6be58 (mylinuxserver) using any of these options

EC2 Instance Connect

Session Manager

SSH client

EC2 serial console

Instance ID
i-06b10ee7c25b6be58 (mylinuxserver)

Connection Type

☒ **Connect using EC2 Instance Connect**
Connect using the EC2 Instance Connect browser-based client, with a public IPv4 address.

☐ **Connect using EC2 Instance Connect Endpoint**
Connect using the EC2 Instance Connect browser-based client, with a private IPv4 address and a VPC endpoint.

Public IP address
3.90.163.248

Username
Enter the username defined in the AMI used to launch the instance. If you didn't define a custom username, use the default username, ec2-user.

ec2-user

Note: In most cases, the default username, ec2-user, is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI username.


You have insufficient IAM permissions to connect to an instance using EC2 Instance Connect
To connect to an instance via EC2 Instance Connect, you must have an attached IAM policy that grants the following permissions:

- ec2-instance-connect:SendSSHPublicKey
- ec2:DescribeInstances

Consider restricting access to specific EC2 instances using ec2:osuser condition, or specific resource tag.

Step 10: now click on connect button.

Instance ID


 i-06b10ee7c25b6be58 (mylinuxserver)

Connection Type

☒ **Connect using EC2 Instance Connect**
Connect using the EC2 Instance Connect browser-based client, with a public IPv4 address.


☐ **Connect using EC2 Instance Connect Endpoint**
Connect using the EC2 Instance Connect browser-based client, with a private IPv4 address and a VPC endpoint.


Public IP address

 3.90.163.248

Username

Enter the username defined in the AMI used to launch the instance. If you didn't define a custom username, use the default username, ec2-user.

 **Note:** In most cases, the default username, ec2-user, is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI username.

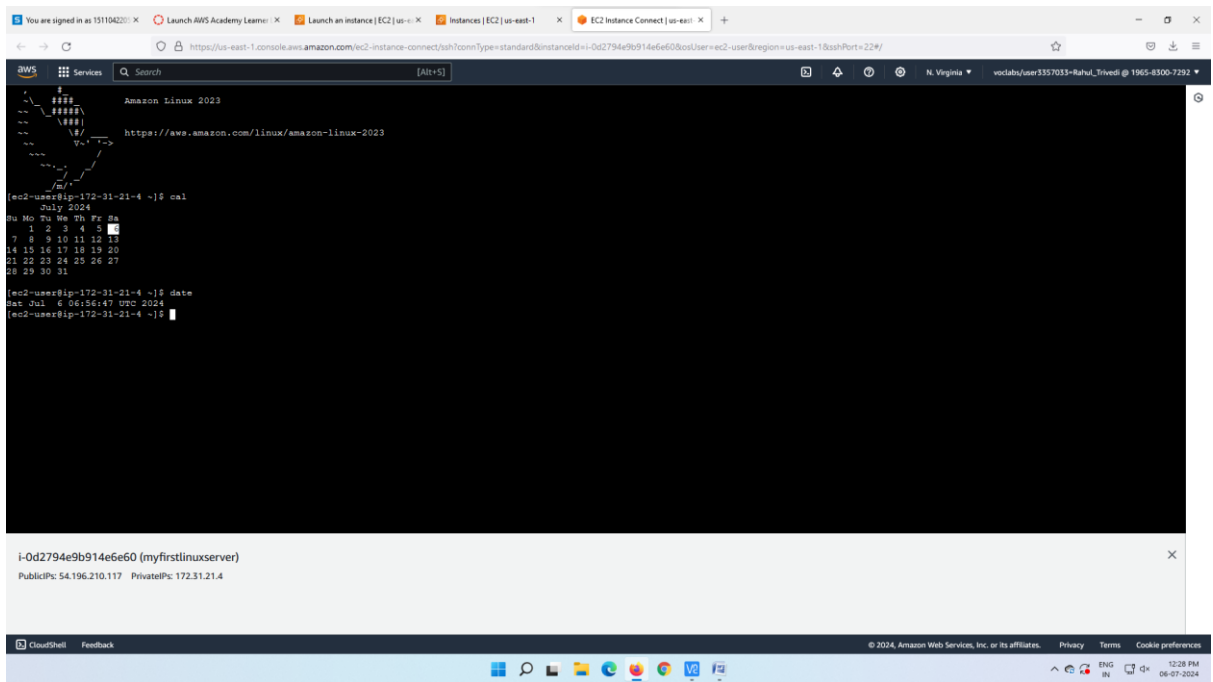
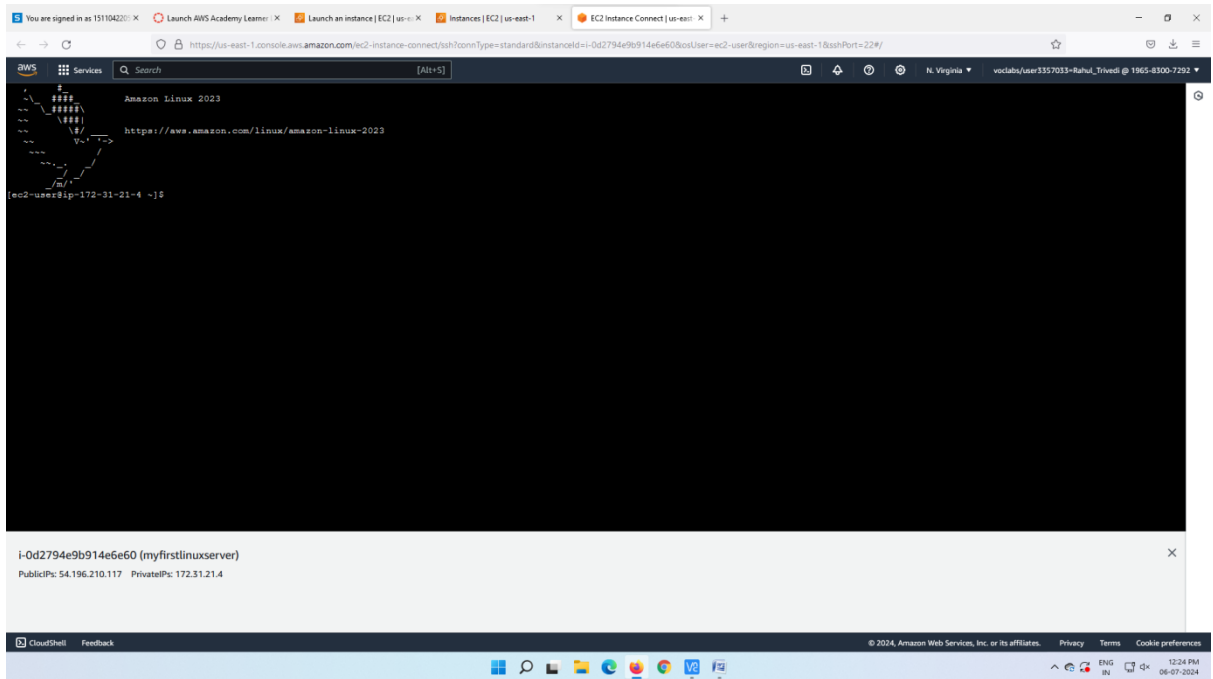
 **You have insufficient IAM permissions to connect to an instance using EC2 Instance Connect**
To connect to an instance via EC2 Instance Connect, you must have an attached IAM policy that grants the following permissions:

- ec2-instance-connect:SendSSHPublicKey
- ec2:DescribeInstances

Consider restricting access to specific EC2 instances using ec2:osuser condition, or specific resource tag. Visit [IAM Console](#) to verify if you have above permissions. For more information about IAM policy examples, see [Grant IAM permissions for EC2 Instance Connect](#).

Cancel

Connect



Step 11: finally we terminate this instance

Instances (1/1) Info

Find Instance by attribute or tag (case-sensitive) All states

Instance ID Clear filters

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
myfirstlinux	i-04ce585b87d797a89	Running	t2.micro	2/2 checks passed	View alarms	us-east-1b

Actions

- Stop instance
- Start instance
- Reboot instance
- Hibernate instance
- Terminate instance

Launch Instances

i-04ce585b87d797a89 (myfirstlinux)

Details | Status and alarms | Monitoring | Security | Networking | Storage | Tags

▼ Instance summary Info

Instance ID i-04ce585b87d797a89 (myfirstlinux)	Public IPv4 address 3.87.240.210 open address	Private IPv4 addresses 172.31.22.102
IPv6 address -	Instance state Running	Public IPv4 DNS ec2-3-87-240-210.compute-1.amazonaws.com open address
Hostname type IP name: ip-172-31-22-102.ec2.internal	Private IP DNS name (IPv4 only) ip-172-31-22-102.ec2.internal	Elastic IP addresses -
Answer private resource DNS name IPv4 (A)	Instance type t2.micro	AWS Compute Optimizer finding
Auto-assigned IP address	VPC ID	

Terminate instance?

⚠ On an EBS-backed instance, the default action is for the root EBS volume to be deleted when the instance is terminated. Storage on any local drives will be lost.

Are you sure you want to terminate these instances?

Instance ID	Termination protection
i-04ce585b87d797a89 (myfirstlinux)	Disabled

To confirm that you want to terminate the instances, choose the terminate button below. Instances with termination protection enabled will not be terminated. Terminating the instance cannot be undone.

Cancel **Terminate**

Shot Copied
Your shot has been copied to the clipboard. Press Ctrl-V to paste.