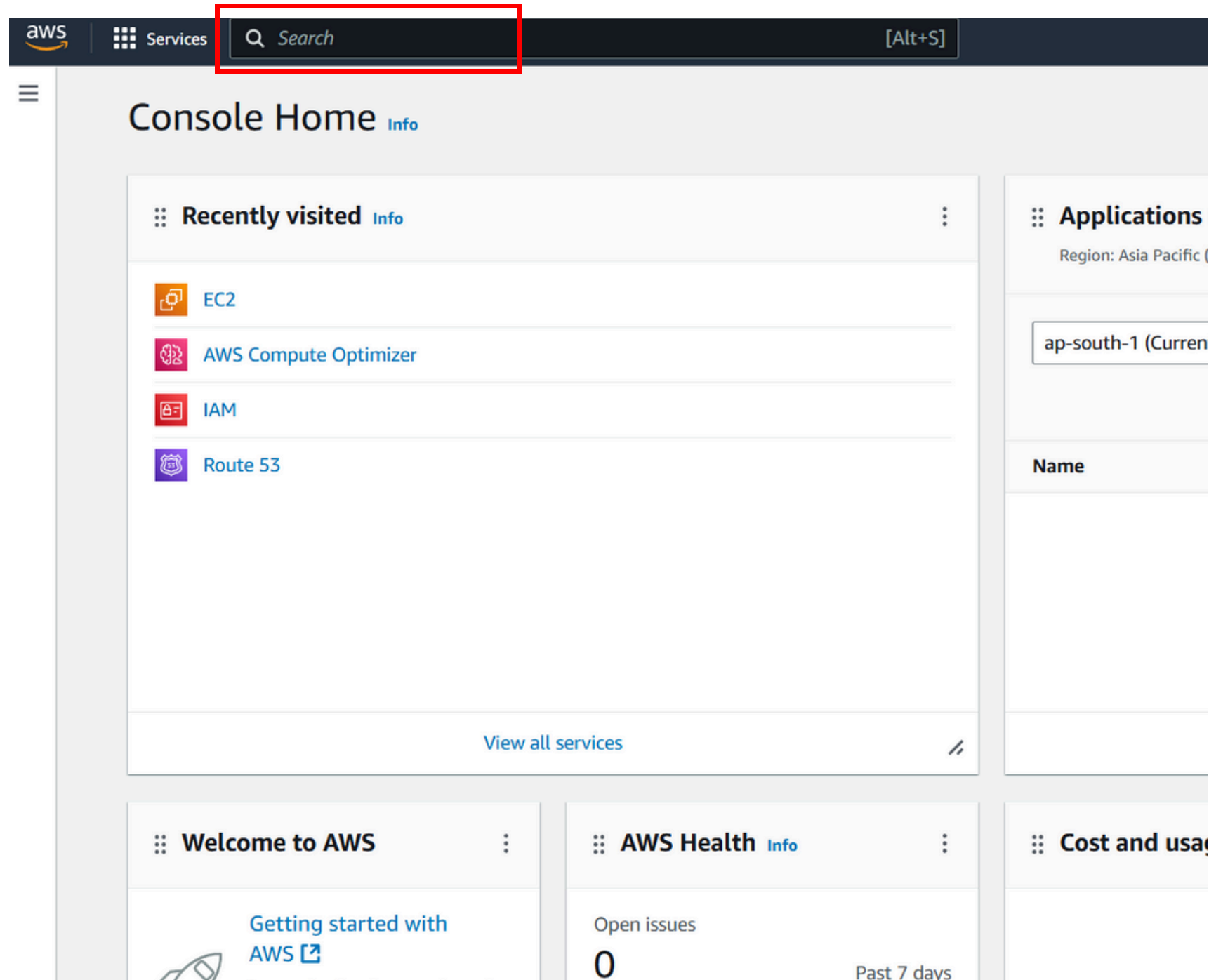
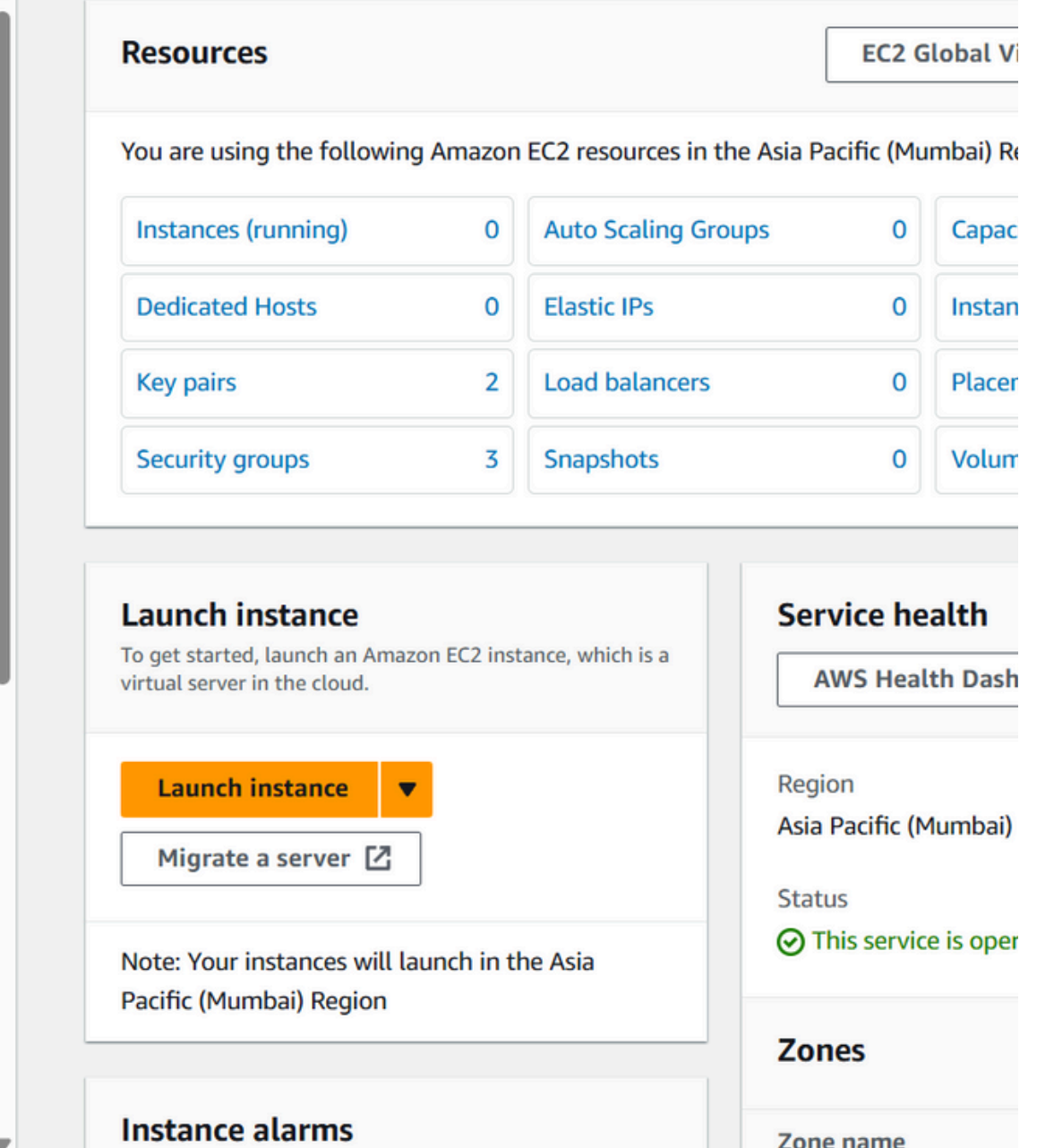
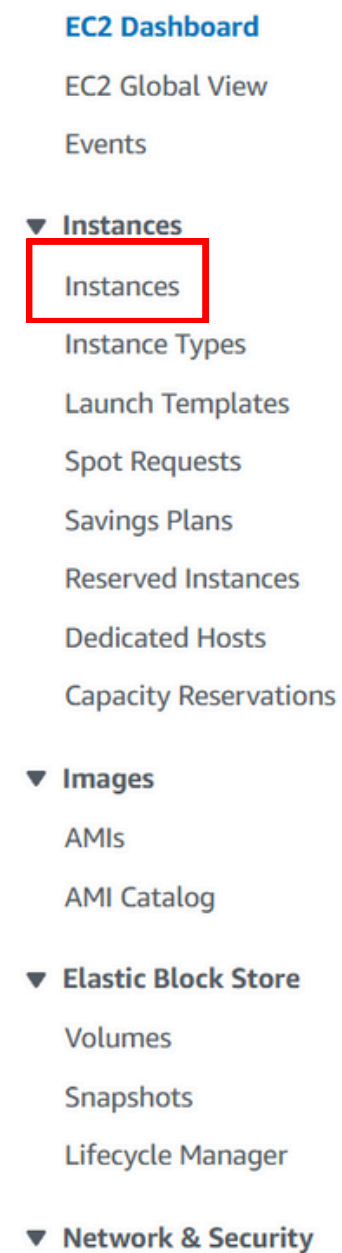


Let's create an EC2 instance in windows and
connect with Linux Virtual Machine...



Search for **EC2** in search bar



Select **instances**

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

[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

Recents

Quick Start

Amazon Linux

aws

macOS

Mac

Ubuntu

ubuntu

Windows

Microsoft

Red Hat

Red Hat

SUSE Li

SUSE

[Browse more AMIs](#)

Including AMIs from AWS, Marketplace and the Community

Name the instance and select
Amazon Linux

Amazon Machine Image (AMI)

Amazon Linux 2023 AMI ami-078264b8ba71bc45e (64-bit (x86), uefi-preferred) / ami-0fb541d129e55767e (64-bit (Arm), uefi) Virtualization: hvm ENA enabled: true Root device type: ebs	Free tier eligible
<input type="text" value="Q "/>	
Amazon Linux 2023 AMI ami-078264b8ba71bc45e (64-bit (x86), uefi-preferred) / ami-0fb541d129e55767e (64-bit (Arm), uefi) Virtualization: hvm ENA enabled: true Root device type: ebs	Free tier eligible ✓
Amazon Linux 2 AMI (HVM) - Kernel 5.10, SSD Volume Type ami-0d1622042e957c247 (64-bit (x86)) / ami-08b1636362efe25e1 (64-bit (Arm)) Virtualization: hvm ENA enabled: true Root device type: ebs	Free tier eligible
Amazon Linux 2 LTS with SQL Server 2019 Standard ami-07d34981bf0a46e29 (64-bit (x86)) Virtualization: hvm ENA enabled: true Root device type: ebs	
Amazon Linux 2 LTS with SQL Server 2017 Standard ami-0912a00f7b66b1683 (64-bit (x86)) Virtualization: hvm ENA enabled: true Root device type: ebs	
Amazon Linux 2 with .NET 6, PowerShell, Mono, and MATE Desktop Environment ami-00e52cd80f25edd3c (64-bit (x86)) Virtualization: hvm ENA enabled: true Root device type: ebs	Free tier eligible
Deep Learning OSS Nvidia Driver AMI GPU PyTorch 2.3 (Amazon Linux 2) ami-05f8f761b2a1f1267 (64-bit (x86)) Virtualization: hvm ENA enabled: true Root device type: ebs	
Deep Learning OSS Nvidia Driver AMI GPU TensorFlow 2.16 (Amazon Linux 2) ami-0909ee5edf3349b6d (64-bit (x86)) Virtualization: hvm ENA enabled: true Root device type: ebs	
Deep Learning Base OSS Nvidia Driver AMI (Amazon Linux 2) ami-08228bac5e22fd312 (64-bit (x86)) Virtualization: hvm ENA enabled: true Root device type: ebs	

You can view all the available free
AMI's. Select **Free tier eligible AMI**.

Create key pair

×

Key pair name

Key pairs allow you to connect to your instance securely.

linux_key

The name can include up to 255 ASCII characters. It can't include leading or trailing spaces.

Key pair type

☒ RSA
RSA encrypted private and public key pair

☐ ED25519
ED25519 encrypted private and public key pair

Private key file format

☐ .pem
For use with OpenSSH

☒ .ppk
For use with PuTTY

⚠ 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](#)

Cancel

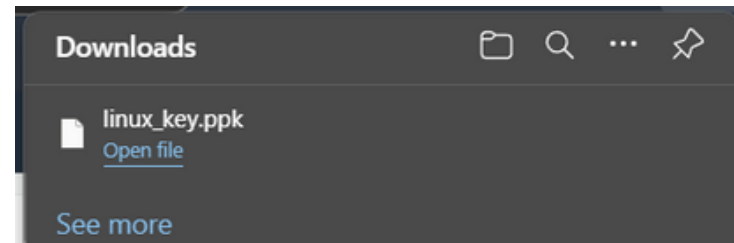
Create key pair

Select **create new key pair**. I chose “linux_key” as key pair name.

While creating new key pair:

- Select **.ppk** file format which can be uploaded in **putty** emulator to launch Linux VM.
- key pair name must be new from existing key pair.

After all selection click on **Create key pair**.



A **.ppk** file format will be downloaded.

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-078264b8ba71bc45e

Username

ec2-user

Verified provider

You can see the username as **ec2-user**. A default username for Linux.

▼ Configure storage [Info](#)

[Advanced](#)

1x

8

GiB

gp3

Root volume (Not encrypted)

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



[Add new volume](#)

- **8 gb** Root volume will be configure in case of Linux
- **30 gb** Root volume will be configure in case of Windows

▼ Summary

Number of instances [Info](#)

1

Software Image (AMI)

Amazon Linux 2023 AMI 2023.5.2...[read more](#)
ami-078264b8ba71bc45e

Virtual server type (instance type)

t2.micro

Firewall (security group)

New security group

Storage (volumes)

1 volume(s) - 8 GiB

i **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, **x**

Cancel

Launch instance

[Review commands](#)

You can now see the Summary of instance and can **Launch the Instance**.

✔ Success

Successfully initiated launch of instance (i-0ffee2ac8982a3316)

You will be able to see popup saying **Successfully initiated**.

Instances (1/2) [Info](#)

Last updated less than a minute ago

All states ▼

<input type="checkbox"/>	Name ↗	Instance ID	Instance state ▼	Instance type ▼	Status checks ▼
<input checked="" type="checkbox"/>	vj_linux	i-009c31f3b477360df	✔ Running + -	t2.micro	✔ 2/2 checks passed
<input type="checkbox"/>	Linux	i-0ffee2ac8982a3316	⊖ Terminated + -	t2.micro	-

Once created select the instance (my case **vj_linux**)

i-0ffee2ac8982a3316 (vj_linux)

Details

Status and alarms

Monitoring

Security

Networking

Storage

Tags

Status checks [Info](#)

Status checks detect problems that may impair i-0ffee2ac8982a3316 (vj_linux) from running your applications.

System status checks

⌚ Initializing

Instance status checks

⌚ Initializing

You will be able to see the **Status** of the instance.

Instances (1/2) [Info](#)

Last updated less than a minute ago [Refresh](#) [Connect](#) [Instance state](#) [Actions](#) [Launch instances](#)

[All states](#)

	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS
<input checked="" type="checkbox"/>	vj_linux	i-009c31f3b477360df	Running	t2.micro	2/2 checks passed	View alarms	ap-south-1b	ec2-3-108-217-229.ap-...
<input type="checkbox"/>	Linux	i-0fee2ac8982a3316	Terminated	t2.micro	-	View alarms	ap-south-1b	-

Once instance get activated you can view the status **Running** and **2/2 checks passed**

Instances (1/2) [Info](#)

Last updated less than a minute ago [Refresh](#) [Connect](#) [Instance state](#) [Actions](#) [Launch instances](#)

[All states](#)

	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS
<input checked="" type="checkbox"/>	vj_linux	i-009c31f3b477360df	Running	t2.micro	2/2 checks passed	View alarms	ap-south-1b	ec2-3-108-217-229.ap-...
<input type="checkbox"/>	Linux	i-0fee2ac8982a3316	Terminated	t2.micro	-	View alarms	ap-south-1b	-

Click on **connect** button to connect instance with the **Linux VM**

[EC2 Instance Connect](#) | [Session Manager](#) | [SSH client](#) | [EC2 serial console](#)

Port 22 (SSH) is open to all IPv4 addresses
 Port 22 (SSH) is currently open to all IPv4 addresses, indicated by 0.0.0.0/0 in the inbound rule in [your security group](#). For increased security, consider restricting access to only the EC2 Instance Connect service IP addresses for your Region: 13.233.177.0/29. [Learn more](#).

Instance ID

Connection Type

☒ **Connect using EC2 Instance Connect**
 Connect using the EC2 Instance Connect browser-based client, with a public IPv4 or IPv6 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 IPv4 address**

☐ IPv6 address

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.

[Cancel](#) [Connect](#)

You can be able to view:

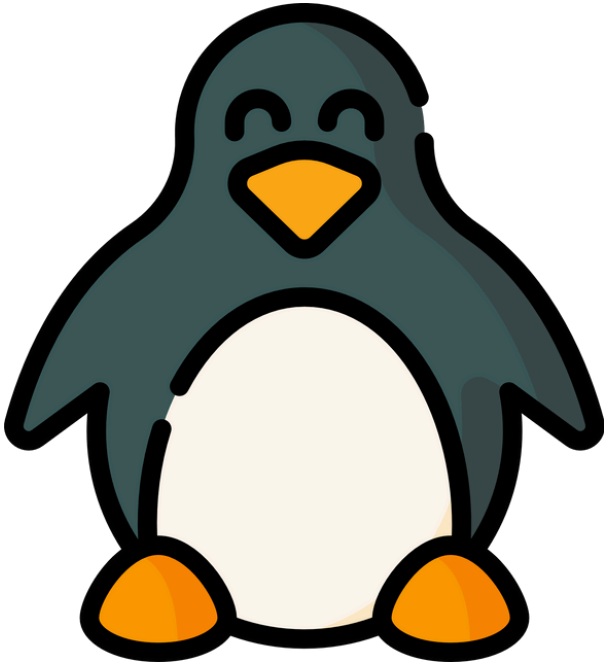
- Instance ID and
- public ID
- Username

After all these steps you are good to go...Click on **Connect** button to launch Linux VM.


```

      #_
    ~\  #####_      Amazon Linux 2023
  ~~ \_ #####\
  ~~   \####|
  ~~     \#/      https://aws.amazon.com/linux/amazon-linux-2023
    ~~~   V~' '->
      ~~~
        ~~.-.-
          _/_
            _/_
              _/m/'
Last login: Tue Oct  8 09:06:34 2024 from 13.233.177.3
[ec2-user@ip-172-31-6-117 ~]$

```



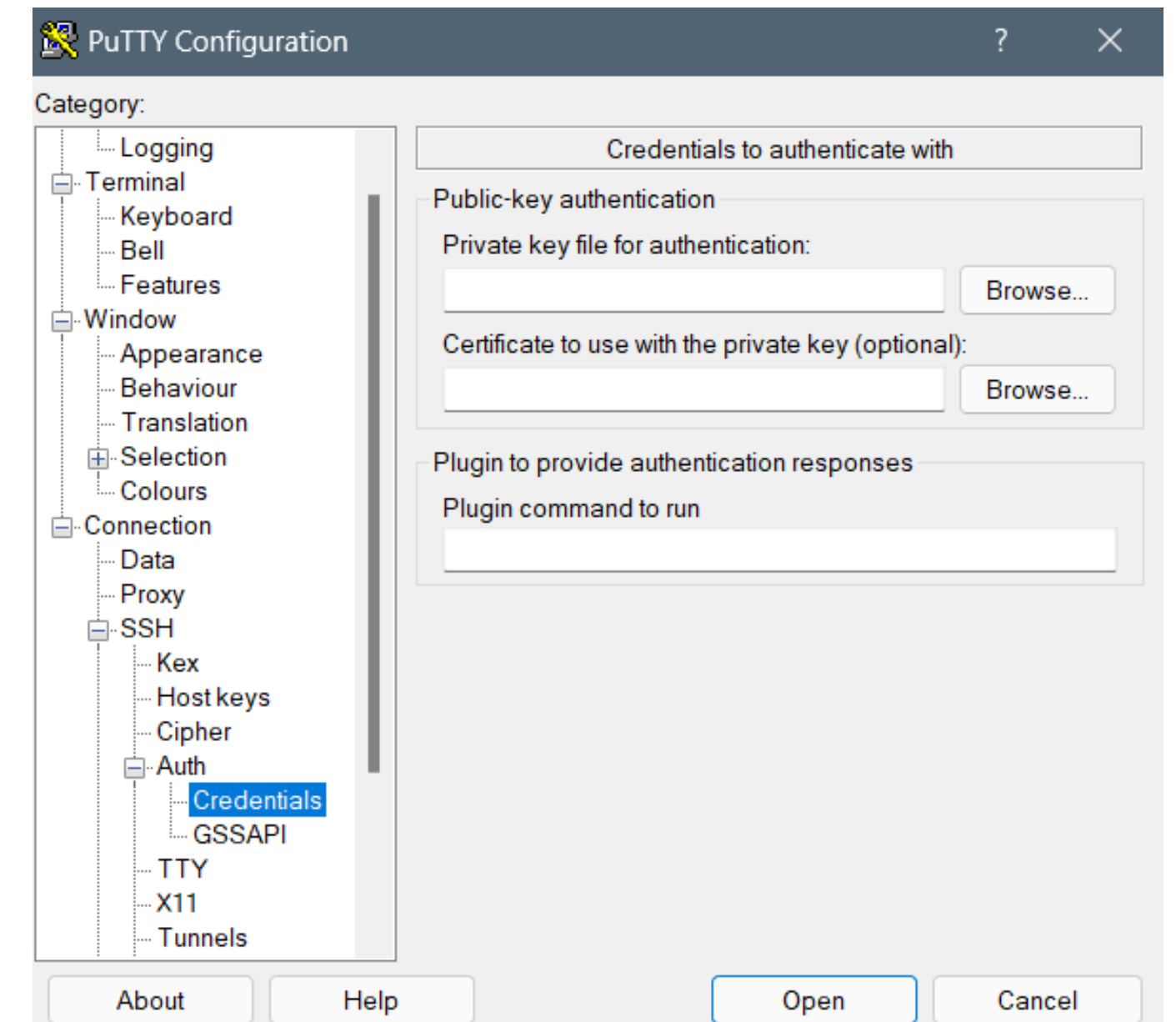
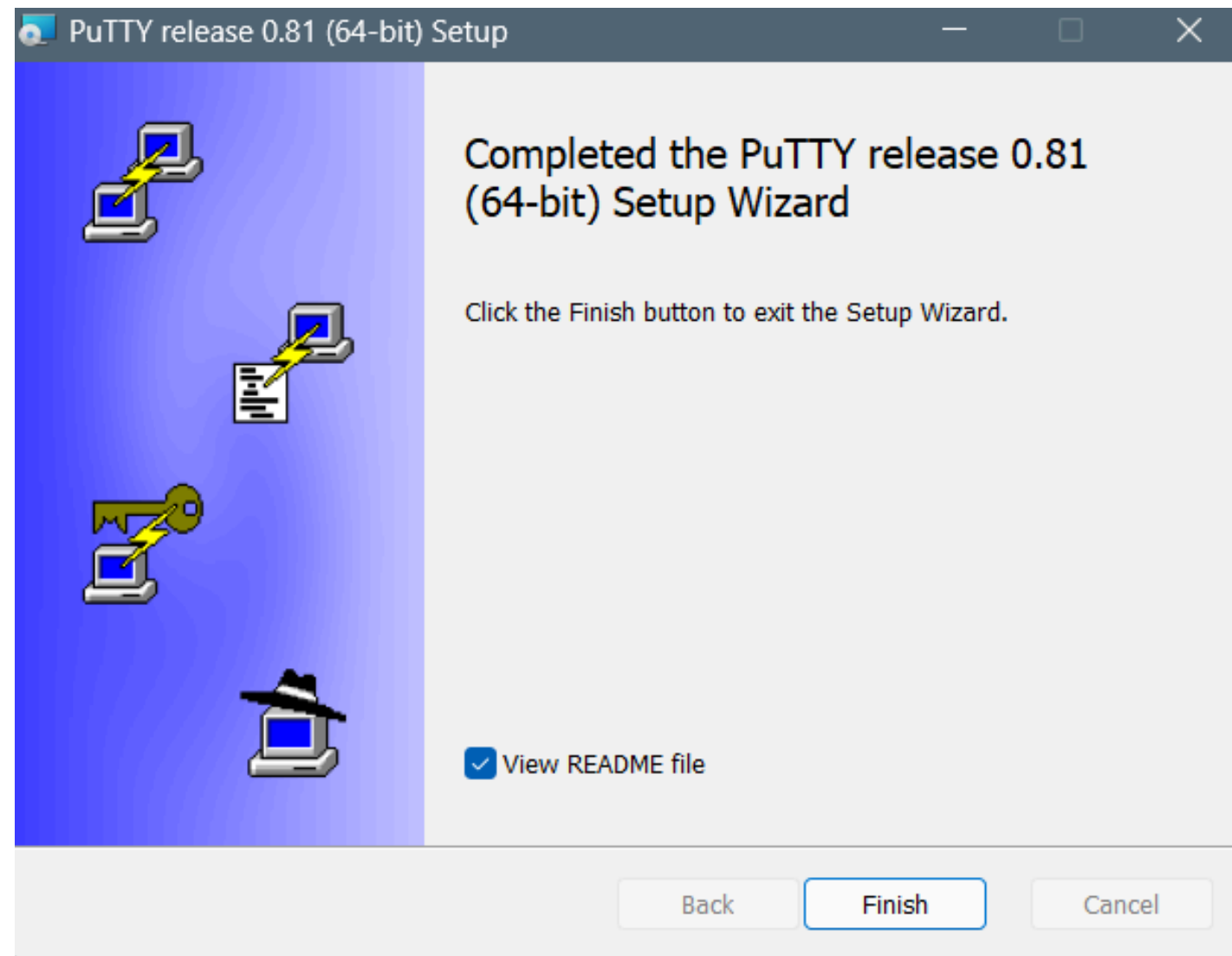
Linux Virtual Machine

i-009c31f3b477360df (vj_linux)

PublicIPs: 3.108.217.229 PrivateIPs: 172.31.6.117



Let's now connect from windows to Linux VM via
Putty emulator



Once you install putty, open putty a window appears..

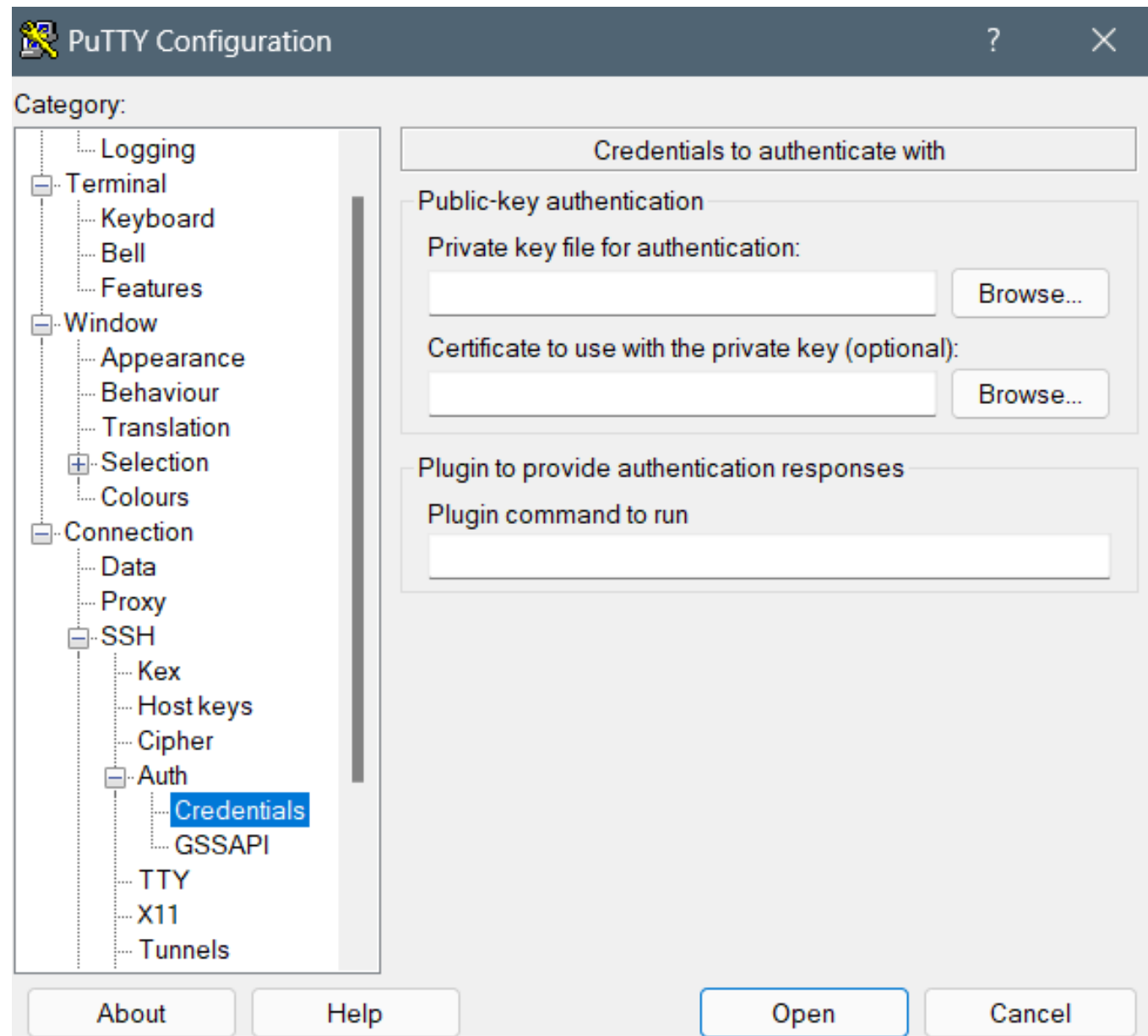
Putty emulator

The screenshot displays the AWS Management Console's EC2 Instances page. At the top, there's a header with 'Instances (1/2)' and an 'Info' link. Below this is a search bar and a filter dropdown set to 'All states'. A table lists two instances: 'vj_linux' (ID: i-009c31f3b477360df, state: Running, type: t2.micro) and 'Linux' (ID: i-0fee2ac8982a3316, state: Terminated, type: t2.micro). The details for the 'vj_linux' instance are shown below the table, including its Instance ID, IPv6 address, Hostname type, and Auto-assigned IP address (3.108.217.229 [Public IP]).

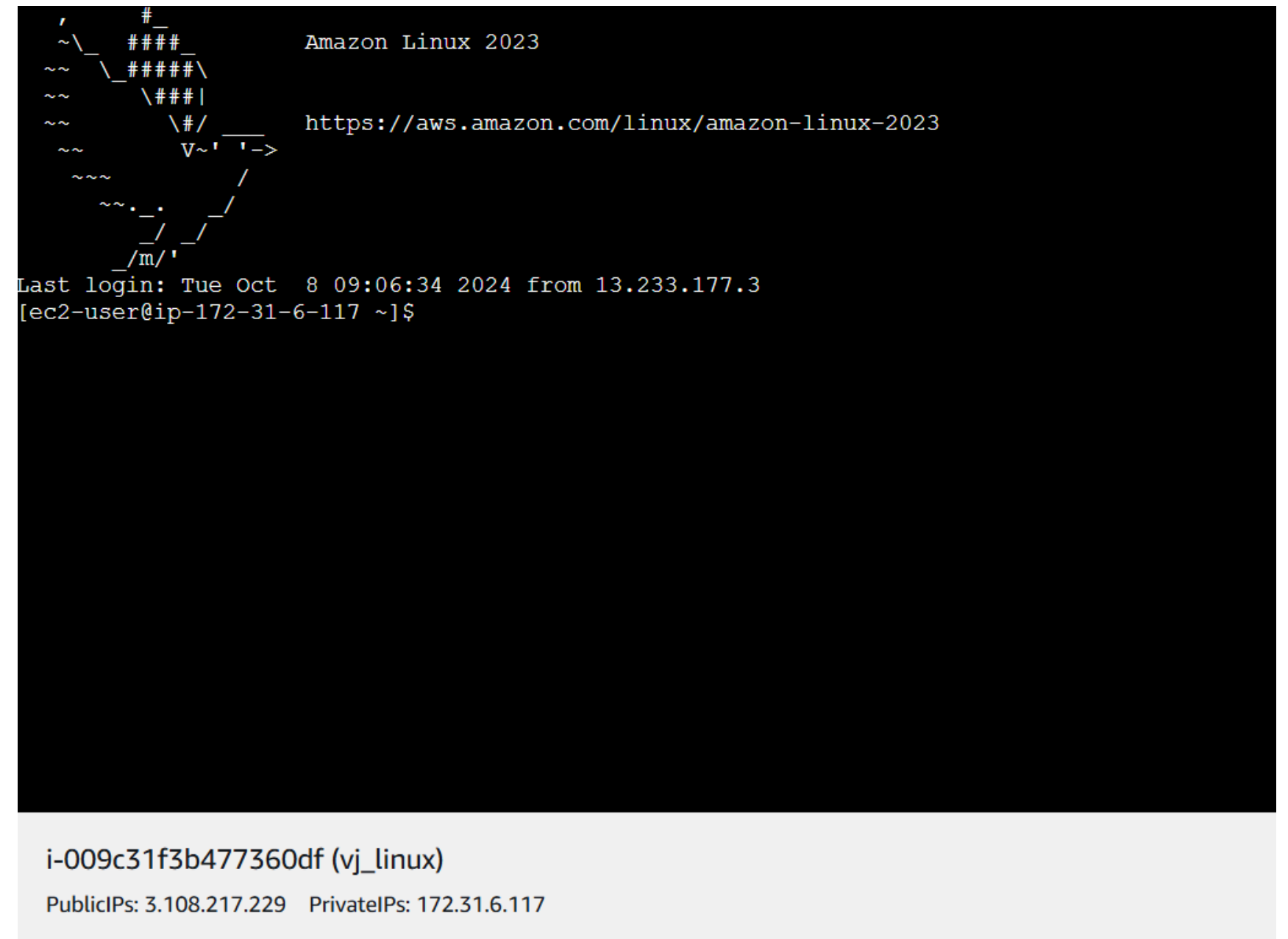
Overlaid on the console is a 'PuTTY Configuration' dialog box. The 'Session' category is selected in the left sidebar. The 'Basic options for your PuTTY session' tab is active, showing the 'Host Name (or IP address)' field set to '3.108.217.229' and the 'Port' set to '22'. The 'Connection type' is set to 'SSH'. The 'Close window on exit' options are 'Always', 'Never', and 'Only on clean exit' (selected).

Annotations include a red box around the 'Session' category in the PuTTY sidebar and a green box around the 'Public IPv4 address' field in the instance details, which contains the IP address '3.108.217.229' and a link to 'open address'.

- Initially under session, you should type the **Host name** or **IP address**.
- Ip address should be similar to Public IPv4 address as shown above.



- double click on **SSH**.
- double click on **Auth** and select **credentials...**
- Click on **Browse** button and select your key file



Finally, you can click on **open** to launch Linux VM.