

WEEK-1

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SECTION : IT-A

Create Amazon AWS EC2 Linux instance with conceptual understanding of SSH client software protocol and keys.

The image displays three sequential screenshots of the AWS Management Console, illustrating the steps to launch an Amazon EC2 Linux instance.

Top Screenshot: Instances Dashboard
The 'Instances' page is shown with a search bar and filters. The 'Instance state' filter is set to 'running', resulting in 'No matching instances found'. The 'Launch instances' button is visible in the top right.

Middle Screenshot: Launch an instance wizard
The 'Launch an instance' wizard is open. The 'Name and tags' step is active, with the name 'e.g. My Web Server' entered. The 'Summary' panel on the right shows the configuration: 1 instance, Amazon Linux 2023.5.2 AMI, and t2.micro instance type.

Bottom Screenshot: Application and OS Images (Amazon Machine Image) selection
The 'Application and OS Images' step is shown. The 'Ubuntu Server 24.04 LTS (HVM), 550 Volume' AMI is selected. The 'Instance type' is set to 't2.micro'. The 'Summary' panel on the right shows the configuration: 1 instance, Ubuntu Server 24.04 LTS (HVM), ami-0a53db6fd757e38c7, and t2.micro instance type.

Bottom Screenshot: Create key pair wizard
The 'Create key pair' wizard is open. The 'Key pair name' is 'linuxec'. The 'Key pair type' is 'RSA' (RSA encrypted private and public key pair). The 'Private key file format' is 'ppk' (For use with PuTTY). A warning message states: '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.' The 'Create key pair' button is visible.

A screenshot of the AWS Management Console interface. The top navigation bar shows the AWS logo, 'Services' menu, a search bar with '[Alt+S]', and regional/user information for 'Mumbai' and 'Jayaditya'. The breadcrumb trail indicates the path: 'EC2 > Instances > Launch an instance'. A large green success banner displays a checkmark icon and the text 'Success' followed by 'Successfully initiated launch of instance [i-004e3a8f19f6d48c]'. Below the banner is a 'Launch log' link.

Services

EC2 > Instances > Elastic Launch > Connect to Instance

Connect to instance


Connect to your instance i-0d4e3a9f19f084c8c using any of these options

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: 13.255.177.0/29. [Learn more](#).

Instance ID
i-0d4e3a9f19f084c8c

Connection Type

☒ Connect using EC2 Instance Connect

☐ Connect using EC2 Instance Connect Endpoints

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

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

Public IPv4 address
13.252.61.190

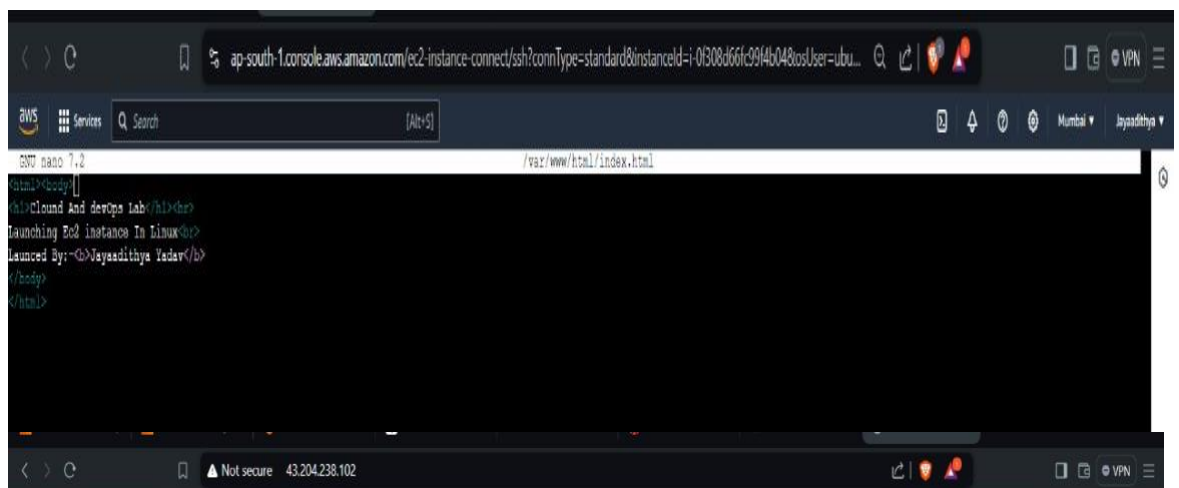
Username
Enter the username defined in the AMI used to launch the instance. If you didn't define a custom username, use the default username, ec2-user.

☒ 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

```
Sep 14 03:38:43 ip-172-31-3-62 systemd[1]: Starting apache2.service - The Apache HTTP Server...
Sep 14 03:38:43 ip-172-31-3-62 systemd[1]: Started apache2.service - The Apache HTTP Server.
ubuntu@ip-172-31-3-62:~$ sudo ufw allow 'Apache Full'
Rules updated
Rules updated (v6)
ubuntu@ip-172-31-3-62:~$ sudo ufw allow 'Apache Full'
Skipping adding existing rule
Skipping adding existing rule (v6)
ubuntu@ip-172-31-3-62:~$ sudo nano /var/www/html/index.html
ubuntu@ip-172-31-3-62:~$ sudo nano /var/www/html/index.html
ubuntu@ip-172-31-3-62:~$
```



Cloud And devOps Lab

Launching Ec2 instance In Linux
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