Static Website Deployment On Amazon Linux Using HTTPD

A simple, step-by-step guide to deploying a static website on **an Amazon Linux EC2 instance** using **Apache HTTP Server** (httpd).
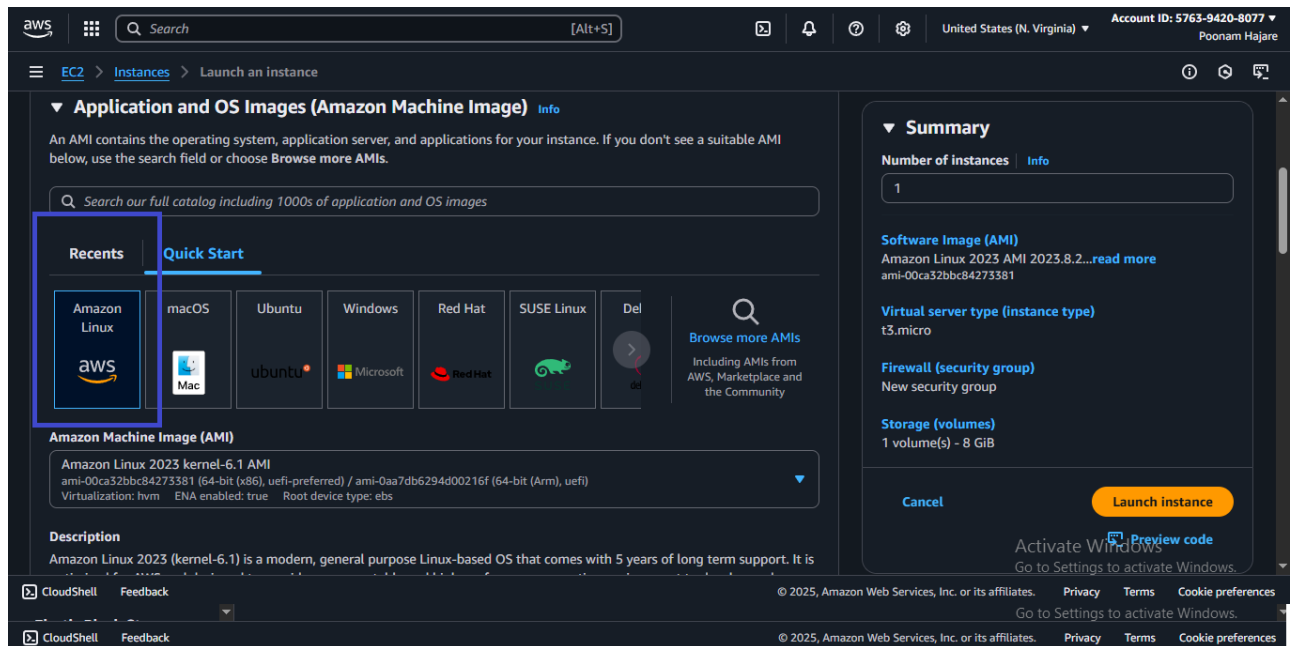
Prerequisites

1. An **AWS Account** and appropriate permission
2. A **key pair** (.pem file) for SSH access.
3. A basic static website (HTML, CSS, JS files) ready to deploy.

Step1: Launch an EC2 Instance

1. Sign in to the **AWS Management Console** and go to the **EC2 Dashboard**.

2. Click **Launch Instance**.
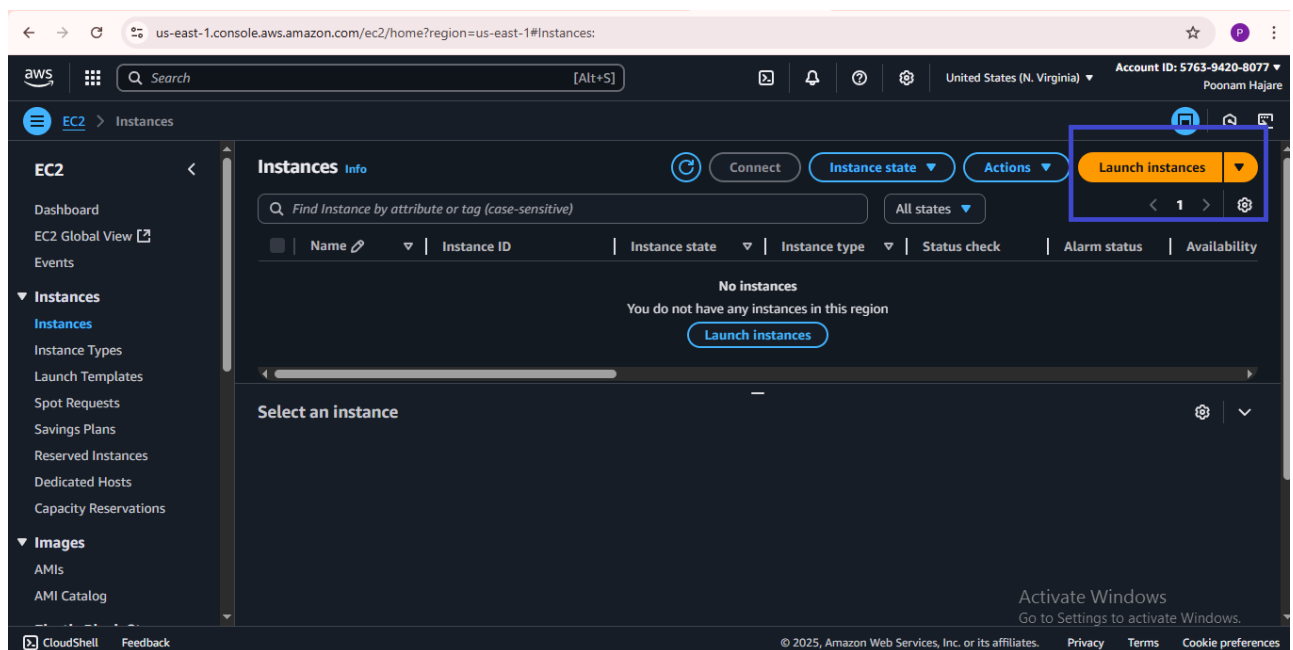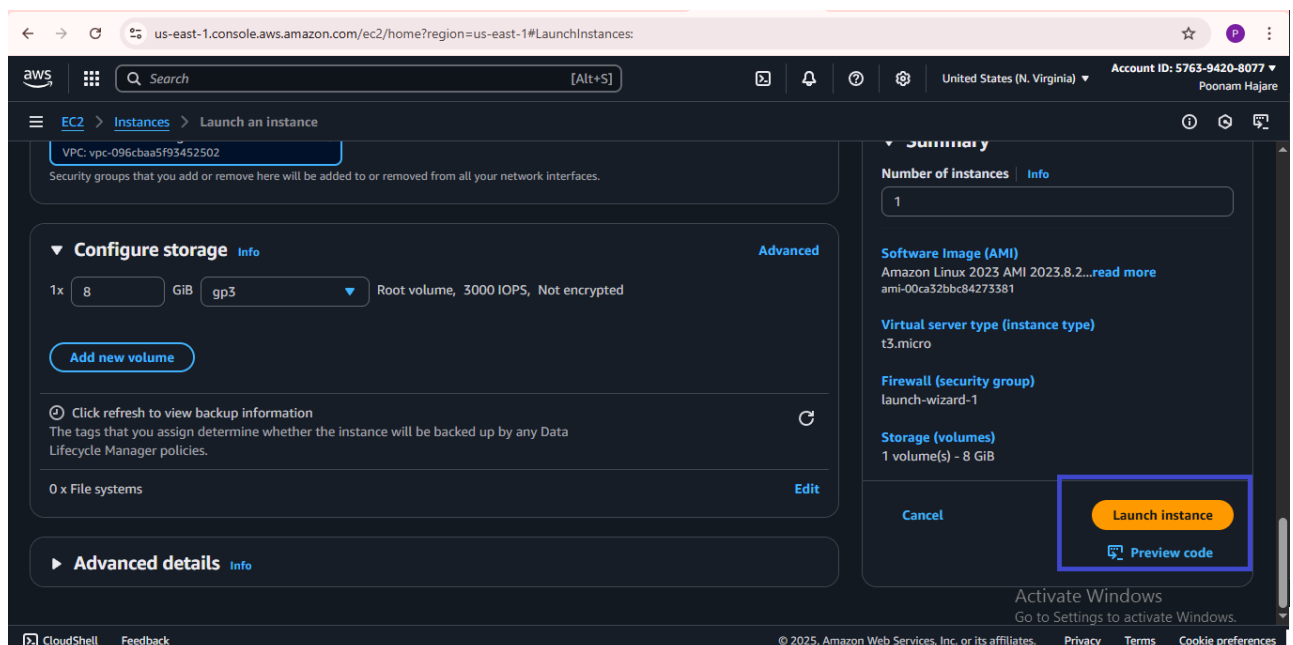

3. Choose the **Amazon Linux 2 AMI**.

4. Select an instance type (e.g., `t3.micro` for free tier).

5. select the key pair you have created.

6. In **Security Group**, allow:

    ○ SSH (port 22) from your IP.
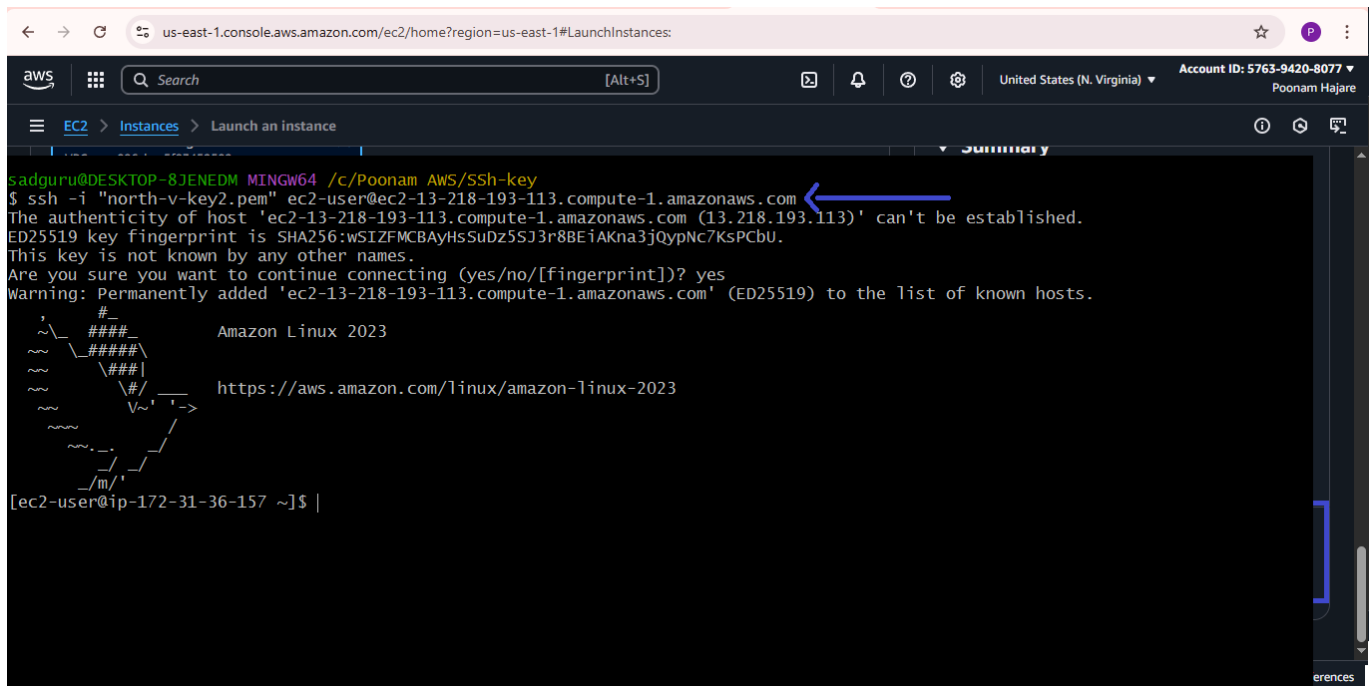   ○ HTTP (port 80) from anywhere.

7. Launch the instance with your key pair.

Step 2: Connect to the Instance

```
Use your terminal (Git bash)to connect:
ssh -i /path/to/your-key.pem ec2-user@YOUR_EC2_PUBLIC_DNS
```

Step 3: Update your system and Install Apache webserver

```
sudo yum update -y
sudo yum install httpd -y
```


Step 4: Start,enable and status the Apache Service

```
sudo systemctl start httpd
sudo systemctl enable httpd
sudo systemctl status httpd
```

```
[ec2-user@ip-172-31-46-77 ~]$ sudo systemctl start httpd  <———
[ec2-user@ip-172-31-46-77 ~]$ sudo systemctl enable httpd  <———
Created symlink /etc/systemd/system/multi-user.target.wants/httpd.service → /usr/lib/systemd/system/httpd.service.
[ec2-user@ip-172-31-46-77 ~]$ sudo systemctl status httpd  <———
● httpd.service - The Apache HTTP Server
     Loaded: loaded (/usr/lib/systemd/system/httpd.service; enabled; preset: disabled)
     Active: active (running) since Fri 2025-08-29 16:34:54 UTC; 27s ago
       Docs: man:httpd.service(8)
   Main PID: 25641 (httpd)
     Status: "Total requests: 0; Idle/Busy workers 100/0;Requests/sec: 0; Bytes served/sec:   0 B/sec"
      Tasks: 177 (limit: 1057)
     Memory: 13.3M
        CPU: 81ms
     CGroup: /system.slice/httpd.service
             ├─25641 /usr/sbin/httpd -DFOREGROUND
             ├─25642 /usr/sbin/httpd -DFOREGROUND
             ├─25643 /usr/sbin/httpd -DFOREGROUND
             ├─25644 /usr/sbin/httpd -DFOREGROUND
             └─25645 /usr/sbin/httpd -DFOREGROUND

Aug 29 16:34:54 ip-172-31-46-77.ec2.internal systemd[1]: Starting httpd.service - The Apache HTTP Server...
Aug 29 16:34:54 ip-172-31-46-77.ec2.internal httpd[25641]: Server configured, listening on: port 80
Aug 29 16:34:54 ip-172-31-46-77.ec2.internal systemd[1]: Started httpd.service - The Apache HTTP Server.
[ec2-user@ip-172-31-46-77 ~]$ |



Installed Size: 6.9 M
Downloading Packages:
(1/12): apr-util-openssl-1.6.3-1.amzn2023.0.1.x86_64.rpm                  416 kB/s | 17 kB    00:00
(2/12): apr-1.7.5-1.amzn2023.0.4.x86_64.rpm                              2.8 MB/s | 129 kB   00:00
(3/12): apr-util-1.6.3-1.amzn2023.0.1.x86_64.rpm                         1.9 MB/s | 98 kB    00:00
```

Step 5: Create Your First Web Page

1.Go to the web root directory:
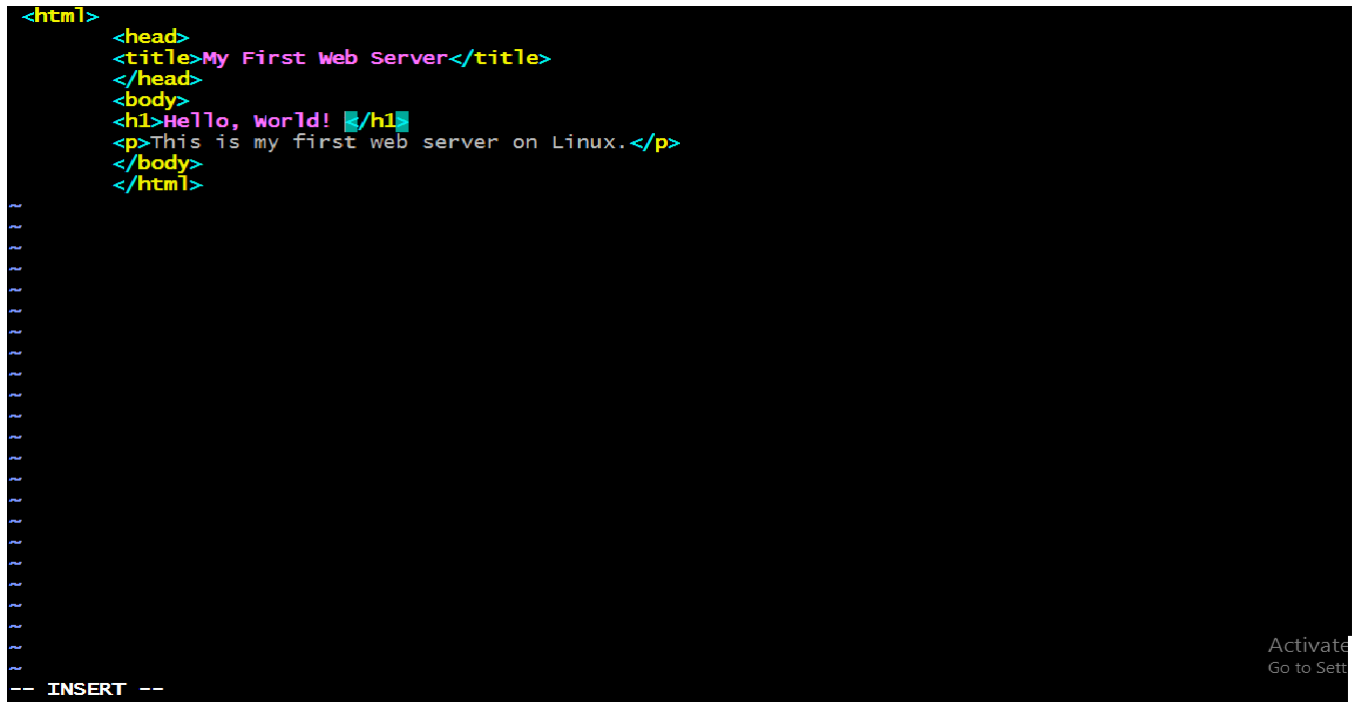
```
cd /var/www/html
```

2.Create an index.html file:

```
sudo vim index.html
```

```
[ec2-user@ip-172-31-46-77 ~]$ cd /var/www/html <———————
[ec2-user@ip-172-31-46-77 html]$ sudo vim index.html <———
[ec2-user@ip-172-31-46-77 html]$ |
```

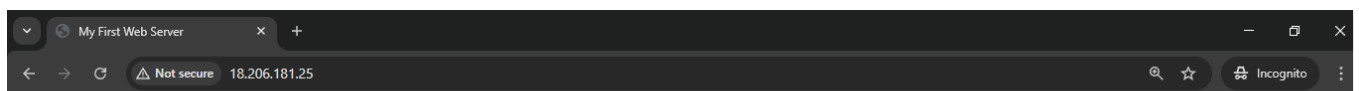3.Add the following content:

```
<html>
<head>
<title>My First Web Server</title>
</head>
<body>
<h1>Hello, World! </h1>
<p>This is my first web server on Linux.</p>
</body>
</html>
```


Step 6: Check results

Open your browser and enter your server's public IP

Hello, World!

This is my first web server on Linux.

Conclusion:

I successfully hosted my first website on Linux using Apache.