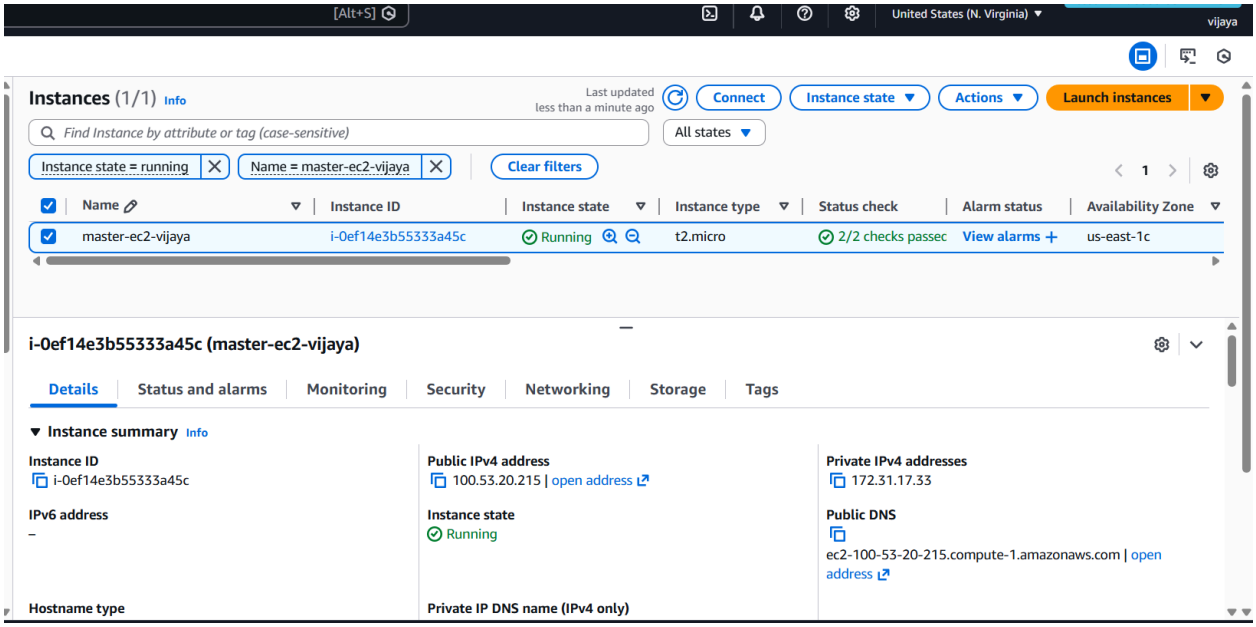
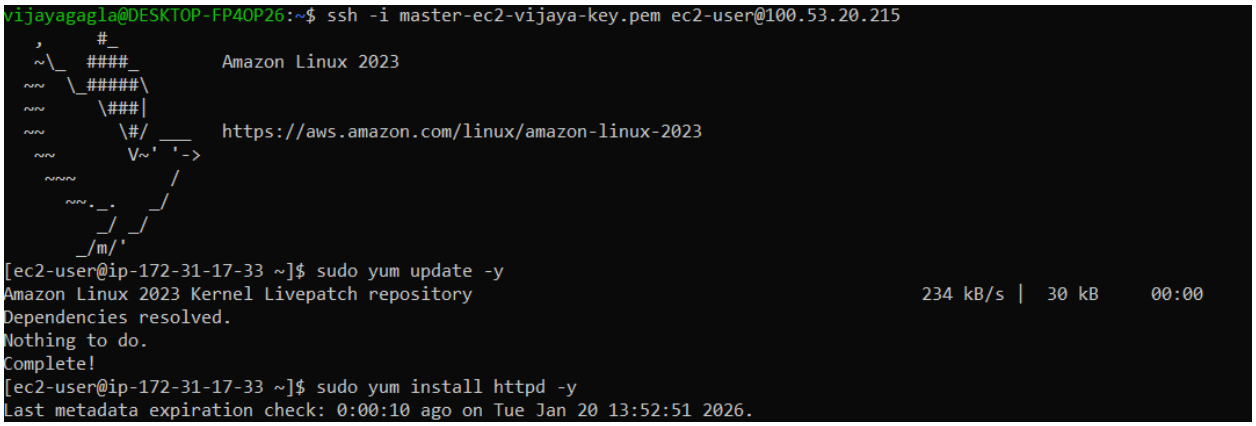
# LAB | Create custom AMI and copy to a different region

**Problem : I couldnt use the Connect feature in the console, so had to create the keys and access the machines using SSH from a linux terminal.**

## Launch an EC2 Instance and Install Software



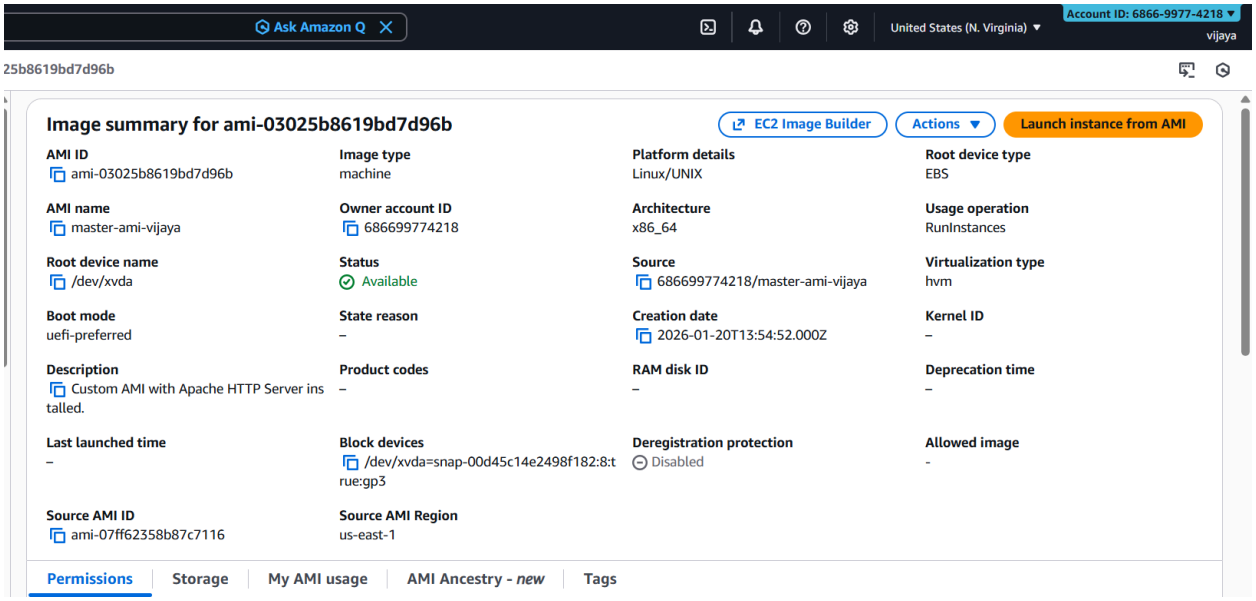




## Install the Apache HTTP Server (`httpd`).

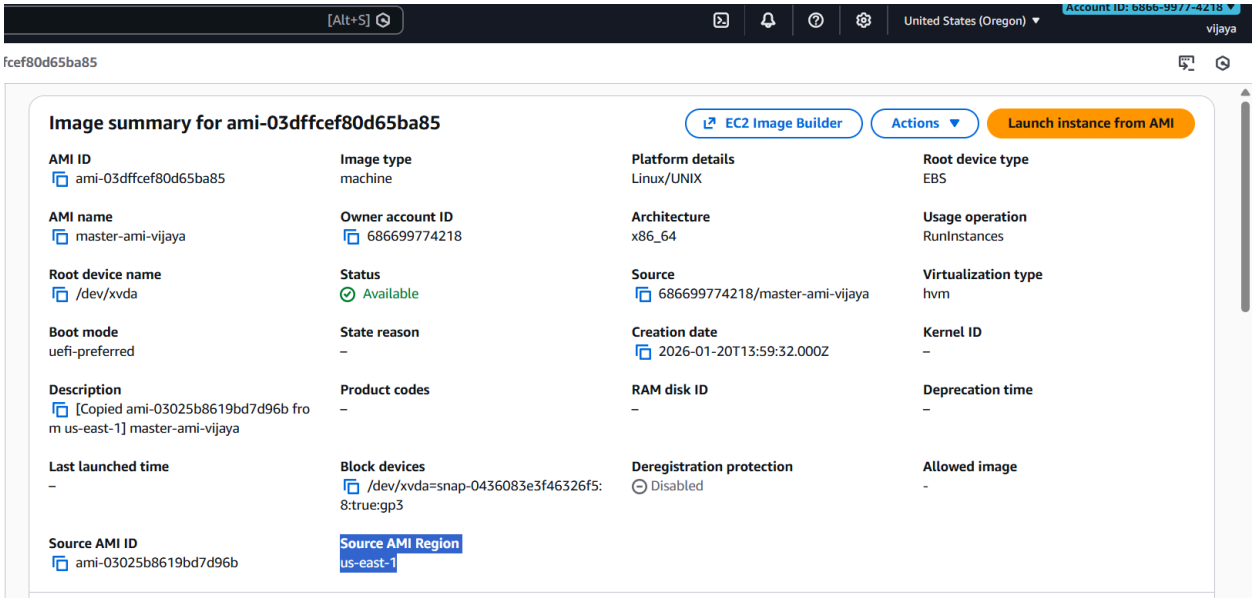
```
[ec2-user@ip-172-31-17-33 ~]$ sudo systemctl start httpd
[ec2-user@ip-172-31-17-33 ~]$ sudo systemctl enable httpd
Created symlink /etc/systemd/system/multi-user.target.wants/httpd.service → /usr/lib/systemd/system/httpd.service.
[ec2-user@ip-172-31-17-33 ~]$ systemctl status httpd
● httpd.service - The Apache HTTP Server
     Loaded: loaded (/usr/lib/systemd/system/httpd.service; enabled; preset: disabled)
     Active: active (running) since Tue 2026-01-20 13:53:08 UTC; 15s ago
       Docs: man:httpd.service(8)
   Main PID: 10322 (httpd)
     Status: "Total requests: 0; Idle/Busy workers 100/0;Requests/sec: 0; Bytes served/sec:   0 B/sec"
      Tasks: 177 (limit: 1120)
     Memory: 12.9M
        CPU: 60ms
     CGroup: /system.slice/httpd.service
             ├─10322 /usr/sbin/httpd -DFOREGROUND
             ├─10432 /usr/sbin/httpd -DFOREGROUND
             ├─10437 /usr/sbin/httpd -DFOREGROUND
             ├─10438 /usr/sbin/httpd -DFOREGROUND
             └─10439 /usr/sbin/httpd -DFOREGROUND

Jan 20 13:53:08 ip-172-31-17-33.ec2.internal systemd[1]: Starting httpd.service - The Apache HTTP Server...
Jan 20 13:53:08 ip-172-31-17-33.ec2.internal systemd[1]: Started httpd.service - The Apache HTTP Server.
Jan 20 13:53:08 ip-172-31-17-33.ec2.internal httpd[10322]: Server configured, listening on: port 80
```

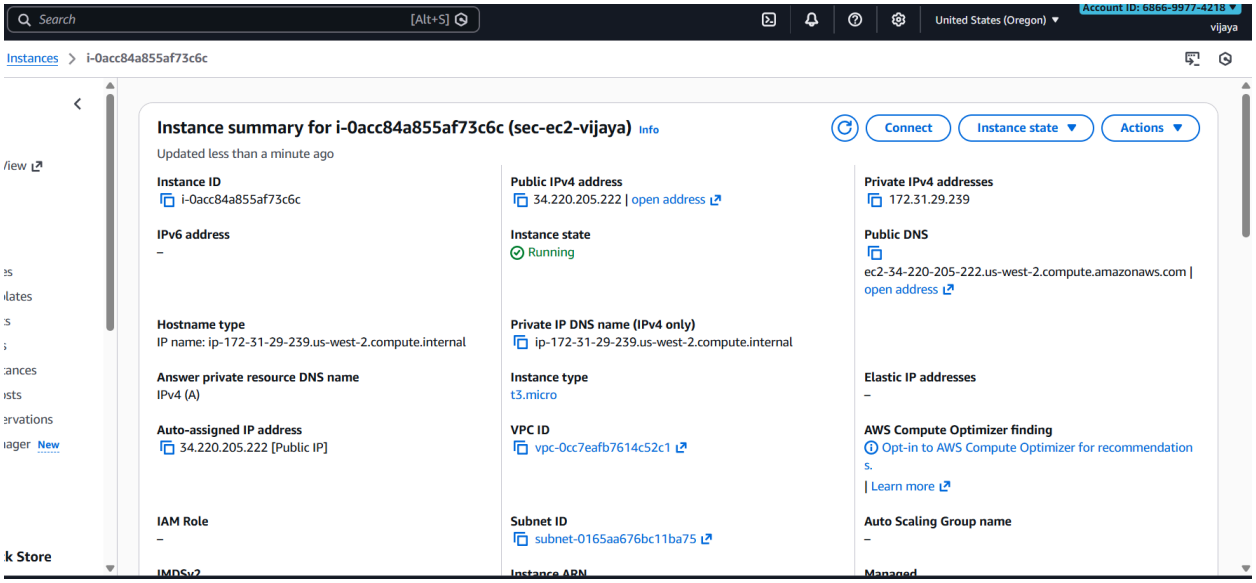
## 2. Create a Custom AMI




## 3. Copy the AMI to Another Region




# Deploy an EC2 Instance from the Copied AMI




# 5. Verify Installation on the New Instance

```
The authenticity of host '34.220.205.222 (34.220.205.222)' can't be established.
ED25519 key fingerprint is SHA256:3fgEmrb2T1tOGsKsRY8mtZl8Ut33nAdCwrWWXKycupk.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '34.220.205.222' (ED25519) to the list of known hosts.
   ,     #_
   ~\_  ####_        Amazon Linux 2023
  ~~  \_#####\
  ~~     \###|
  ~~       \#/ ___   https://aws.amazon.com/linux/amazon-linux-2023
   ~~       V~' '->
    ~~~         /
      ~~._.   _/
         _/ _/
       _/m/'
Last login: Tue Jan 20 13:52:19 2026 from 46.59.137.222
```

```
ec2-user@ip-172-31-29-239 ~]$ systemctl status httpd
● httpd.service - The Apache HTTP Server
     Loaded: loaded (/usr/lib/systemd/system/httpd.service; enabled; preset: disabled)
     Active: active (running) since Tue 2026-01-20 14:17:43 UTC; 4min 56s ago
       Docs: man:httpd.service(8)
   Main PID: 1407 (httpd)
     Status: "Total requests: 0; Idle/Busy workers 100/0;Requests/sec: 0; Bytes served/sec:   0 B/sec"
      Tasks: 177 (limit: 1067)
     Memory: 18.5M
        CPU: 392ms
     CGroup: /system.slice/httpd.service
             ├─1407 /usr/sbin/httpd -DFOREGROUND
             ├─1479 /usr/sbin/httpd -DFOREGROUND
             ├─1480 /usr/sbin/httpd -DFOREGROUND
             ├─1490 /usr/sbin/httpd -DFOREGROUND
             └─1509 /usr/sbin/httpd -DFOREGROUND

an 20 14:17:41 ip-172-31-17-33.ec2.internal systemd[1]: Starting httpd.service - The Apache HTTP Server...
an 20 14:17:43 ip-172-31-17-33.ec2.internal systemd[1]: Started httpd.service - The Apache HTTP Server.
an 20 14:17:43 ip-172-31-17-33.ec2.internal httpd[1407]: Server configured, listening on: port 80
```