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Setting Up a Plex Media Server on AWS

Introduction:

Plex Media Server is a popular media management and streaming platform that allows users to organize and access their digital content from anywhere. It serves as a central hub for storing, organizing, and streaming media files such as movies, TV shows, music, photos, and videos. Users can access their Plex libraries on various devices, including smart TVs, computers, smartphones, and streaming devices like Roku and Amazon Fire TV.

Benefits of Hosting Plex on AWS:

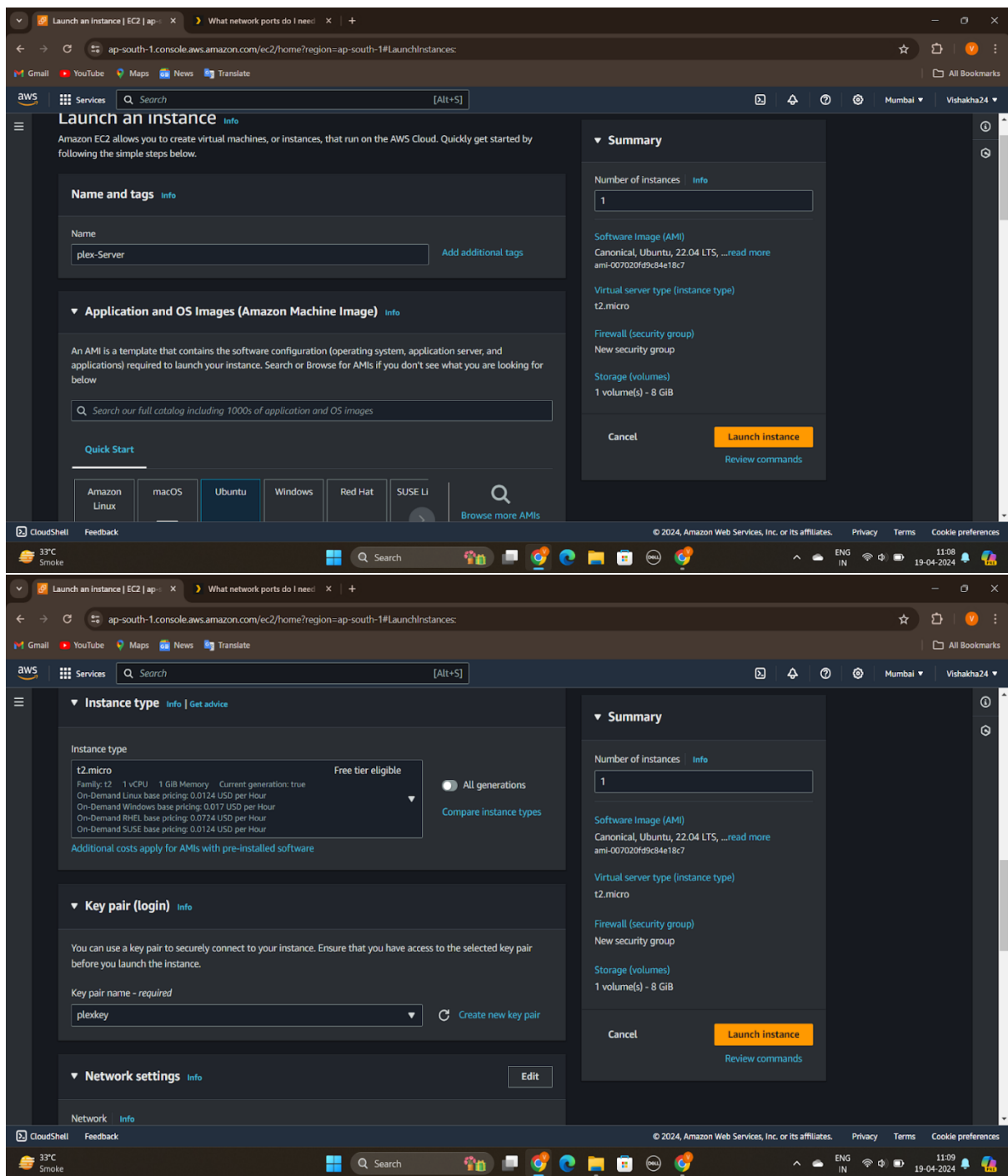
AWS provides a scalable infrastructure that allows you to easily scale your Plex server resources up or down based on demand. Whether you're serving a few users or a large audience, AWS can handle the workload. AWS offers high availability and reliability, ensuring that your Plex server remains accessible and performs optimally at all times. With AWS's global network of data centers, you can minimize downtime and ensure uninterrupted access to your media libraries.

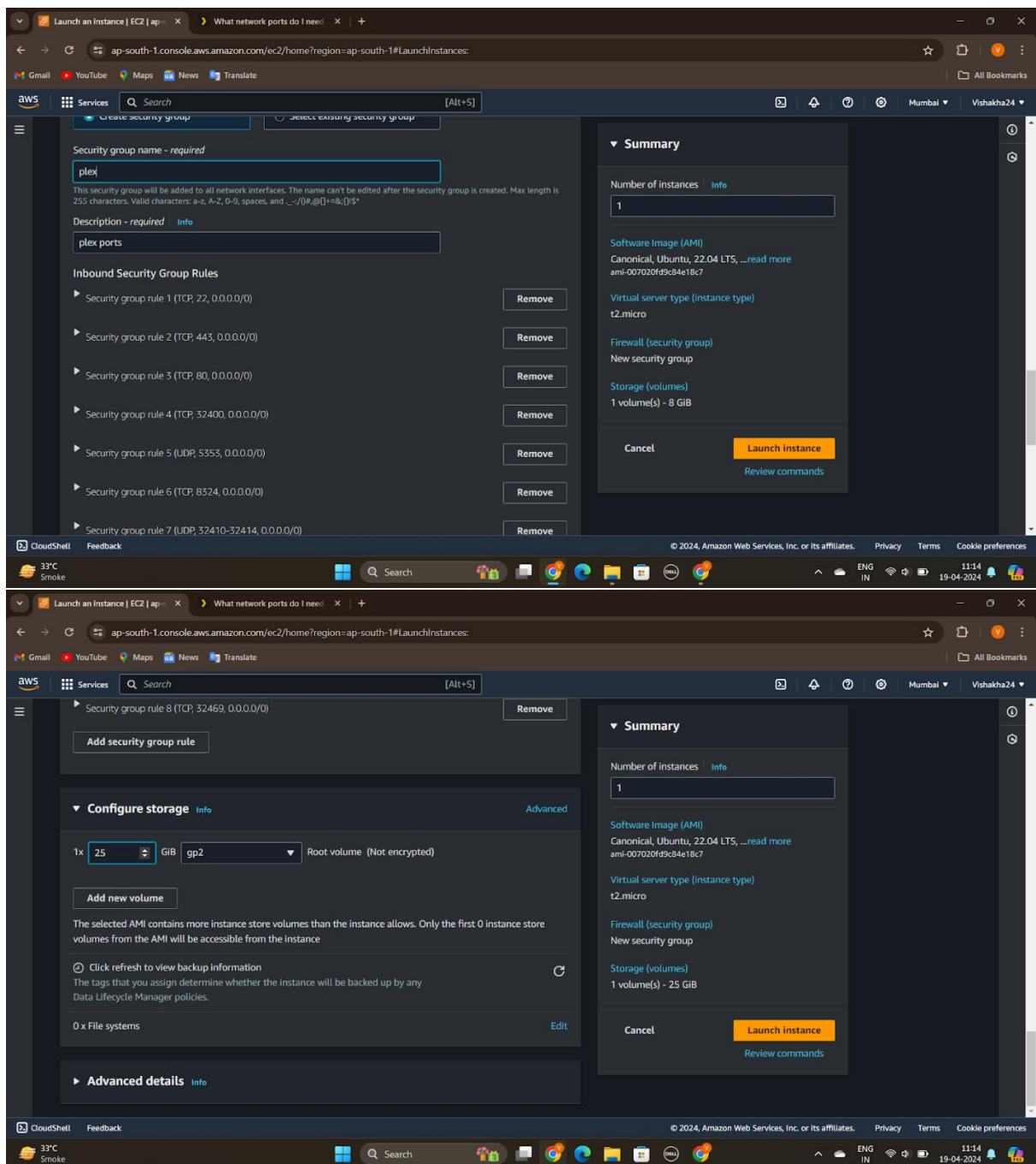
Prerequisites:

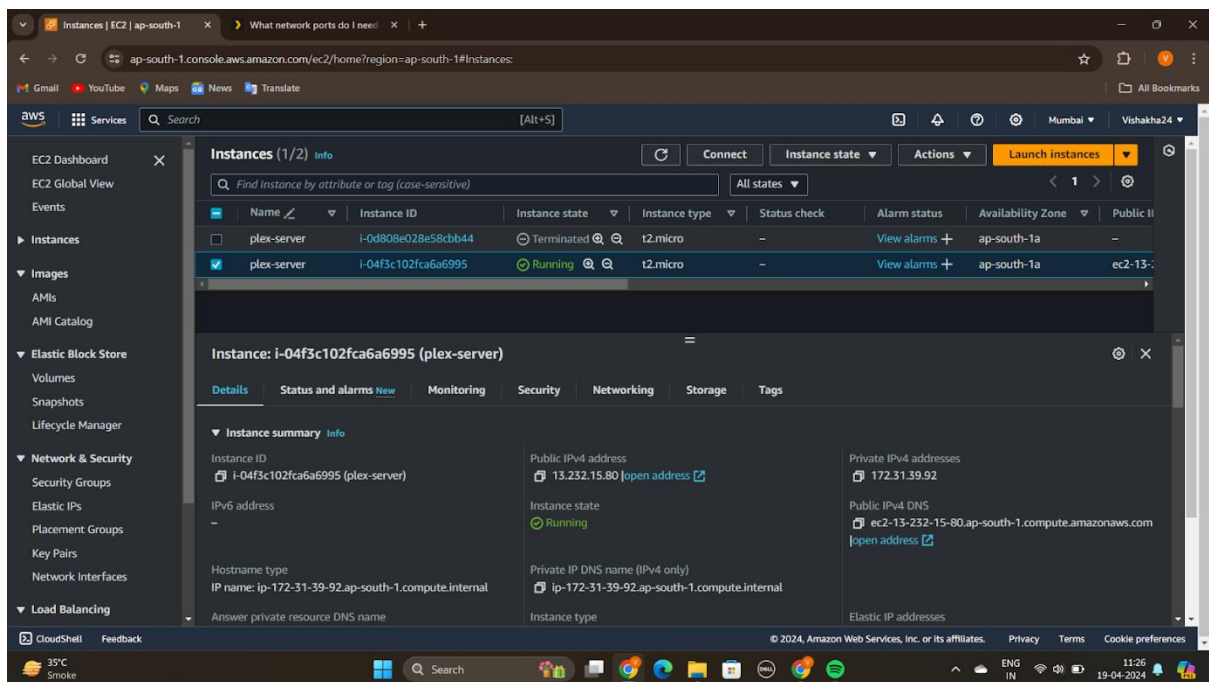
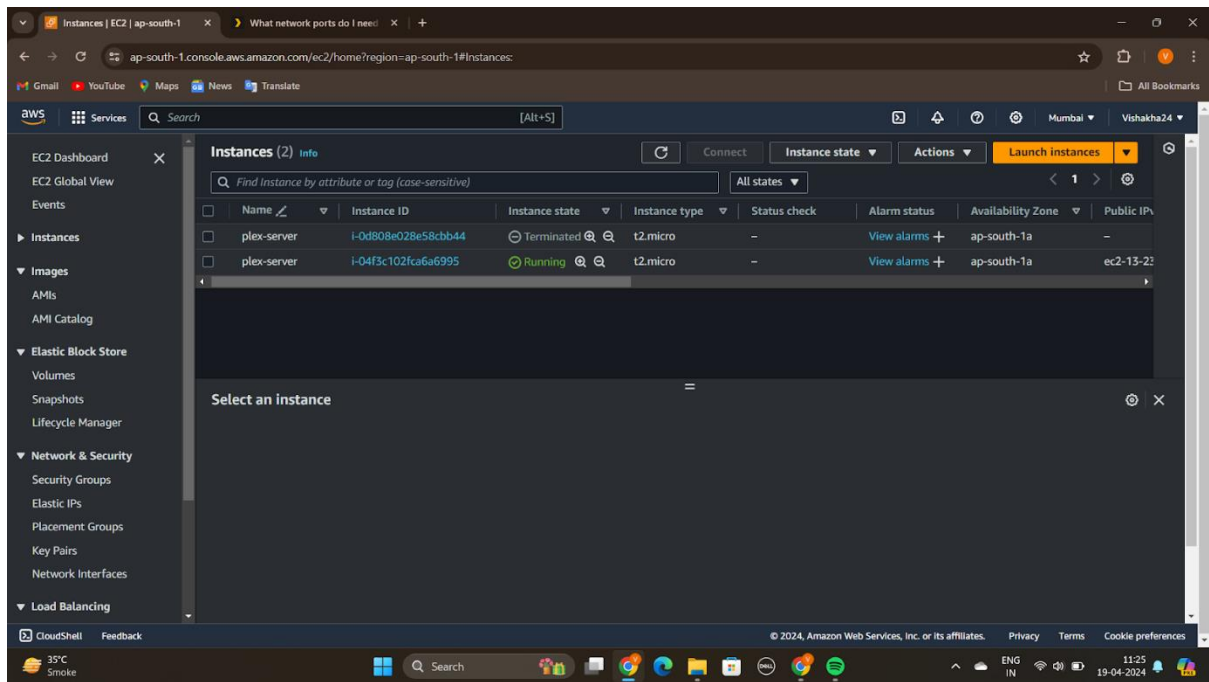
- AWS account
- Basic understanding of AWS services (EC2, S3, etc.)
- Familiarity with Plex Media Server and its requirements

Step 1: Creating an EC2 Instance

1. Sign in to the AWS Management Console
2. Launch an EC2 instance with Amazon Linux 2 AMI
3. Configure security groups to allow SSH (port 22) and Plex (port 32400) traffic and mentioned in <https://support.plex.tv/articles/201543147-what-network-ports-do-i-need-to-allow-through-my-firewall/>
4. Select key pair
5. Launch instance

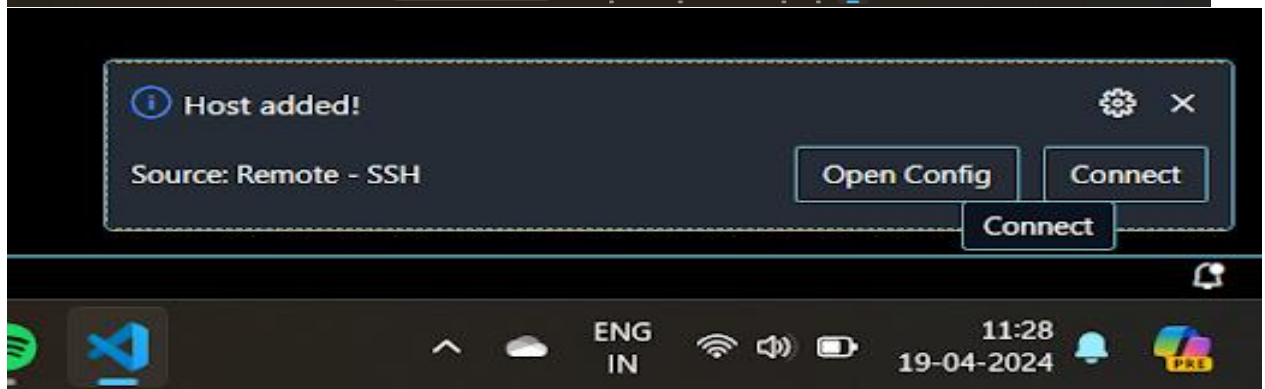
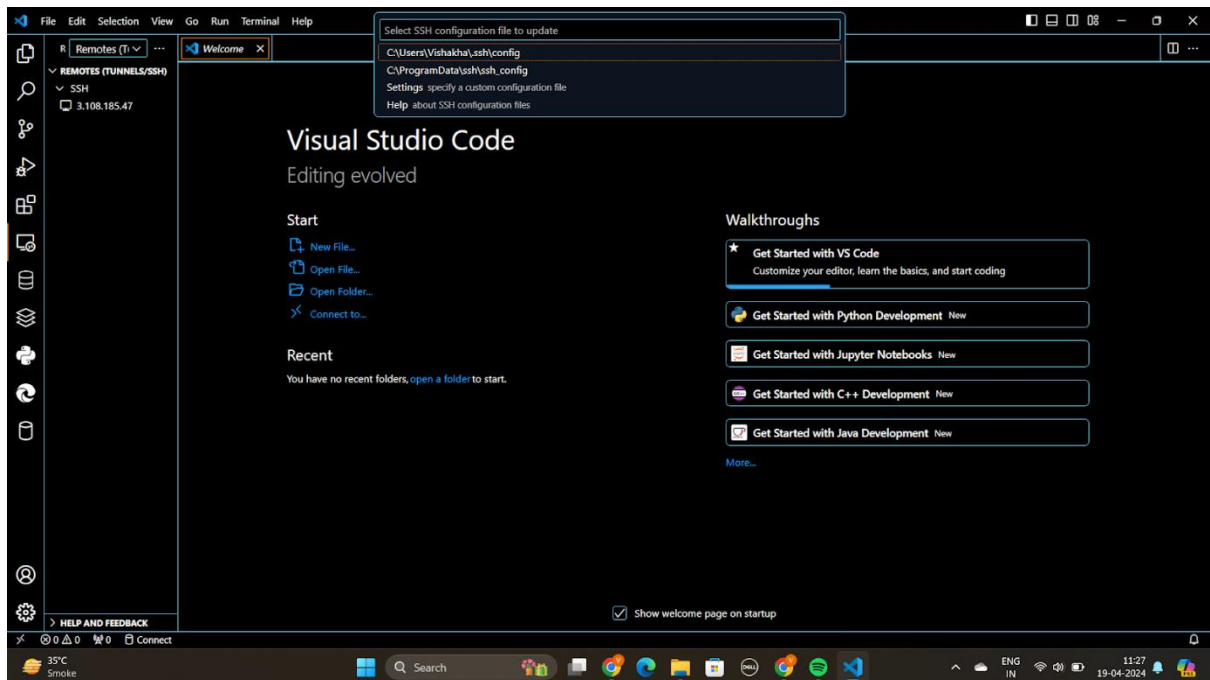
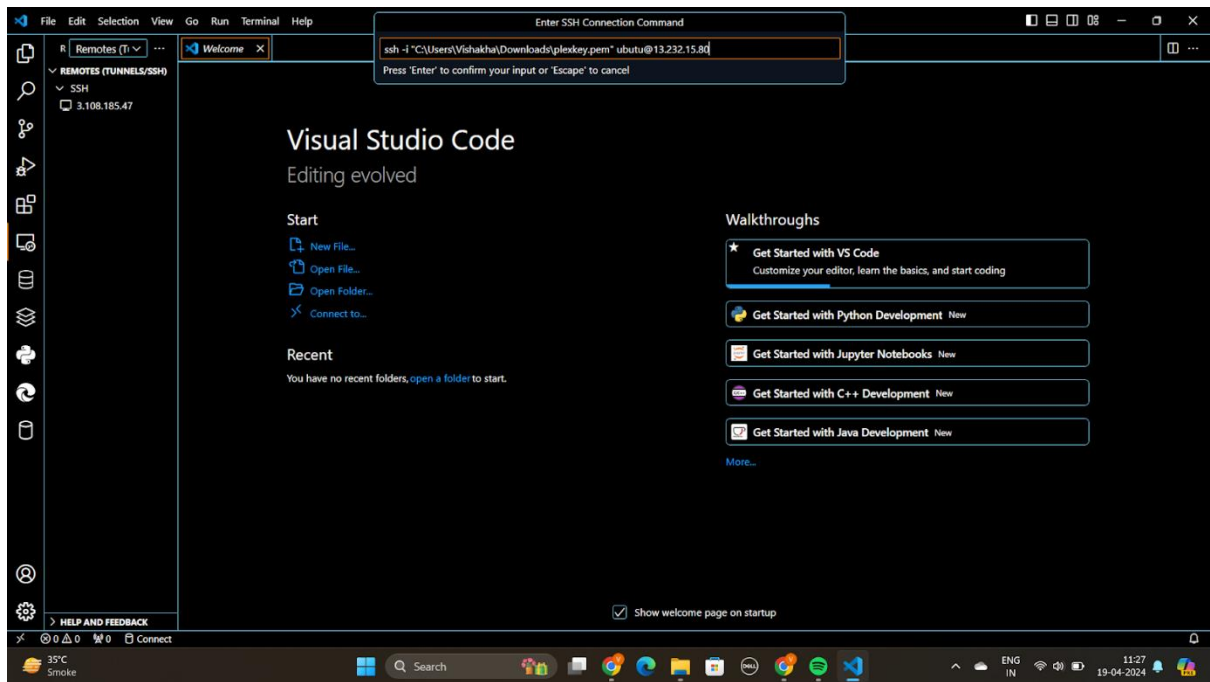


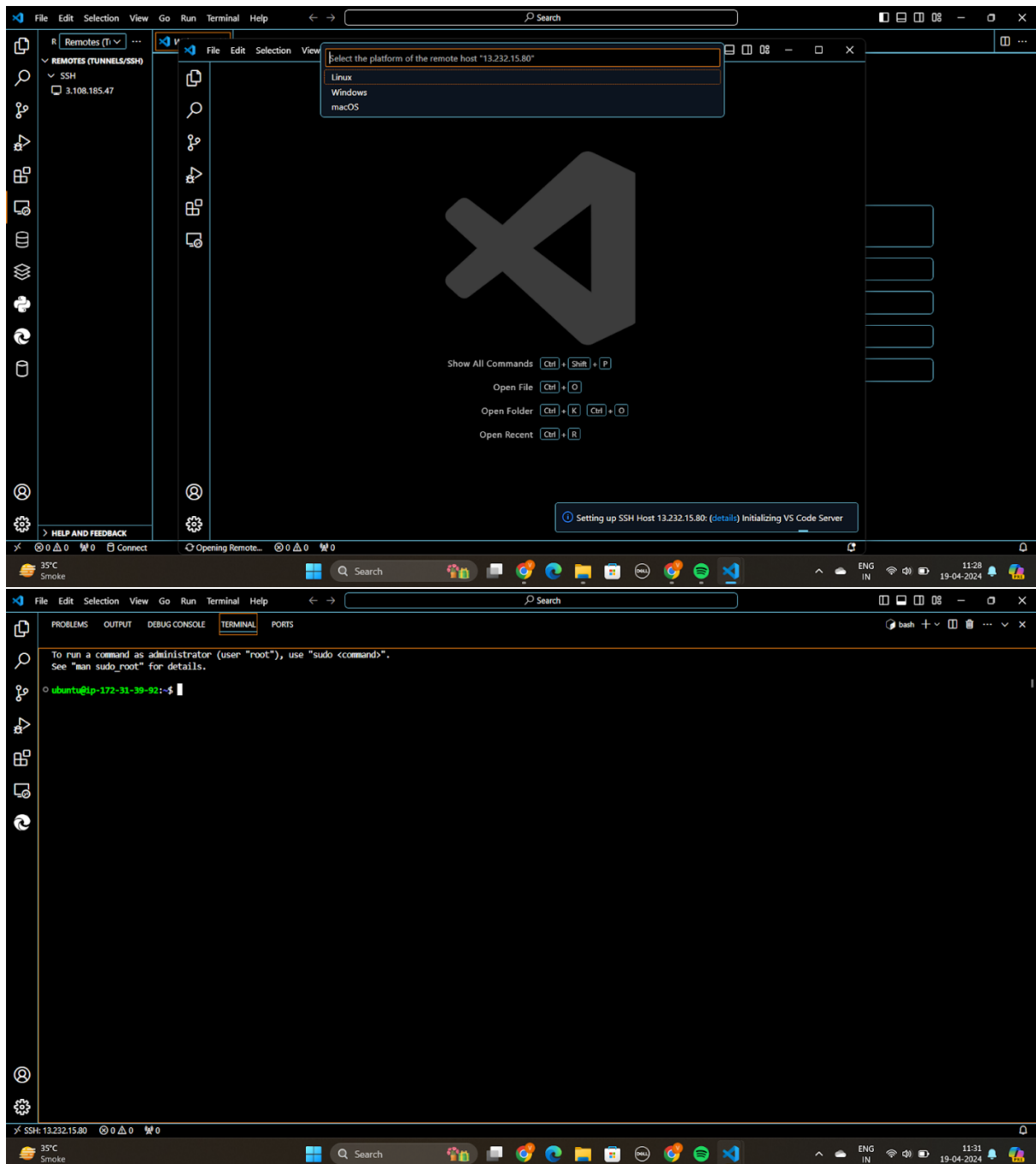




Step 2: Setting Up SSH Connection in Visual Studio Code

- Install the "Remote - SSH" extension in Visual Studio Code
- Connect to the EC2 instance using Visual Studio Code's SSH extension
- Code ssh -l path to the key ubuntu@ip address





Step 3: Creating the install.sh Script

- Open a terminal in Visual Studio Code connected to the EC2 instance
- Create a new file named install.sh
- Write the installation script for Plex Media Server
- Run the shell

```
File Edit Selection View Go Run Terminal Help
nanos 6.2 install.sh
//bin/bash
sudo apt update && sudo apt full-upgrade -y
echo deb https://downloads.plex.tv/repo/deb public main | sudo tee /etc/apt/sources.list.d/plexmediaserver.list
curl https://downloads.plex.tv/plex-keys/PlexSign.key | sudo apt-key add -
sudo apt install apt-transport-https unzip -y
sudo apt update
sudo apt install plexmediaserver
sudo systemctl status plexmediaserver

To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

ubuntu@ip-172-31-39-92:~$ nano install.sh
ubuntu@ip-172-31-39-92:~$ sudo chmod +x install.sh
ubuntu@ip-172-31-39-92:~$ ./install.sh
Hit:1 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy InRelease
Get:2 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates InRelease [119 kB]
Get:3 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports InRelease [109 kB]
Get:4 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 Packages [14.1 MB]
Get:5 http://security.ubuntu.com/ubuntu jammy-security InRelease [110 kB]
Get:6 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy/universe Translation-en [5652 kB]
Get:7 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 c-n-f Metadata [286 kB]
Get:8 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy/multiverse amd64 Packages [217 kB]
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Get:11 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 Packages [1597 kB]
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Get:16 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/universe Translation-en [244 kB]
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Get:21 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/main amd64 Packages [67.1 kB]
Get:22 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/main Translation-en [11.0 kB]
Get:23 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/main amd64 c-n-f Metadata [388 B]
Get:24 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/restricted amd64 c-n-f Metadata [116 B]
Get:25 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 Packages [28.4 kB]
Get:26 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/universe Translation-en [16.2 kB]
Get:27 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 c-n-f Metadata [644 B]
Get:28 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/multiverse amd64 c-n-f Metadata [116 B]
Get:29 http://security.ubuntu.com/ubuntu jammy-security/main amd64 Packages [1351 kB]
80% [4 Packages store 0 B] [29 Packages 2085 B/1351 kB 0%]
```



```
Service restarts being deferred:
/etc/needrestart/restart.d/dbus.service
systemctl restart getty@tty1.service
systemctl restart networkd-dispatcher.service
systemctl restart systemd-logind.service
systemctl restart unattended-upgrades.service
systemctl restart user@1000.service

No containers need to be restarted.

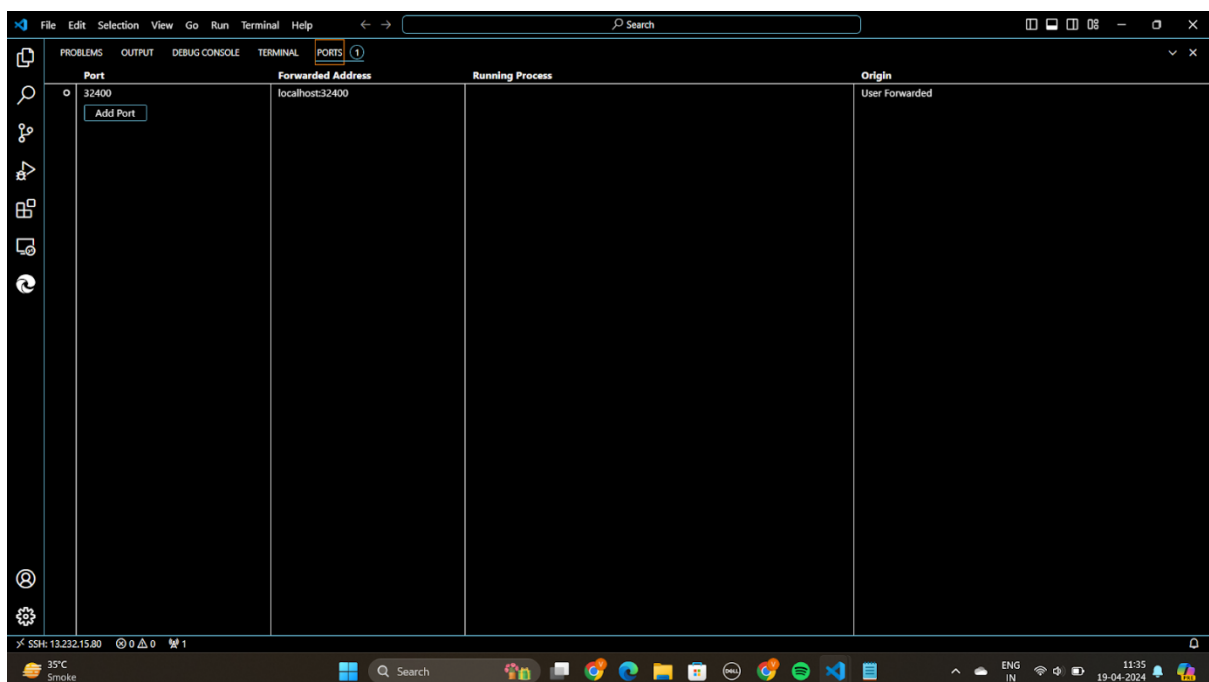
No user sessions are running outdated binaries.

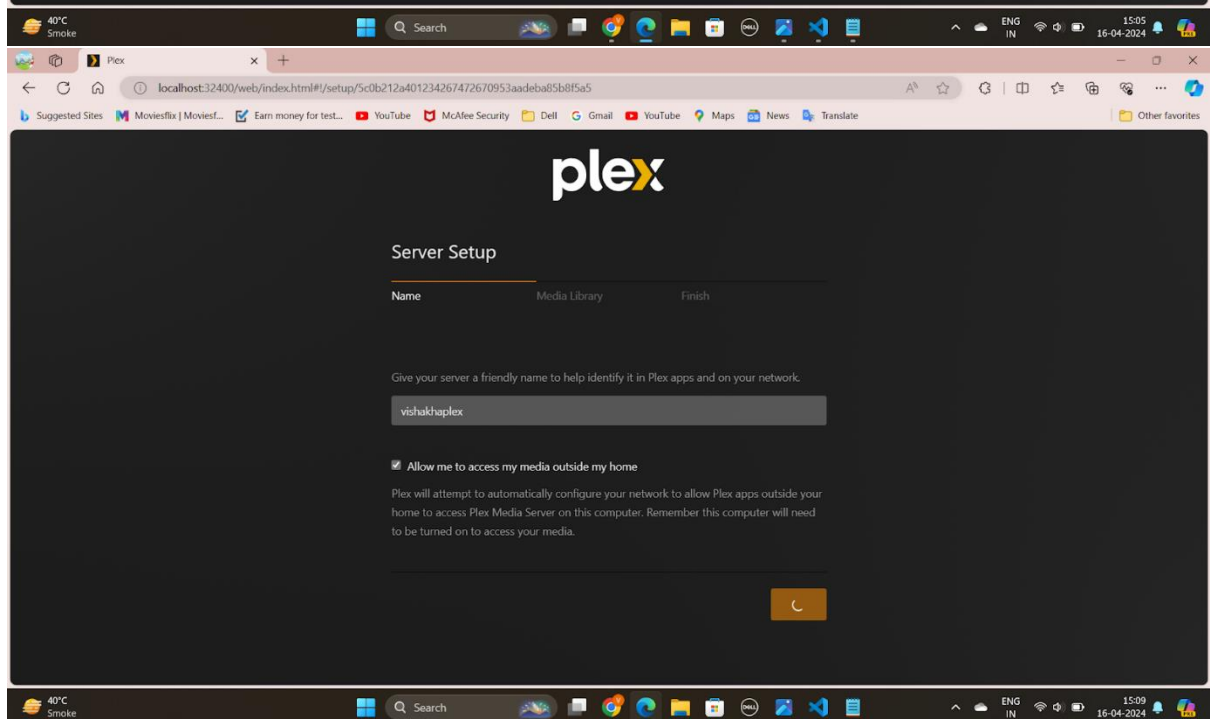
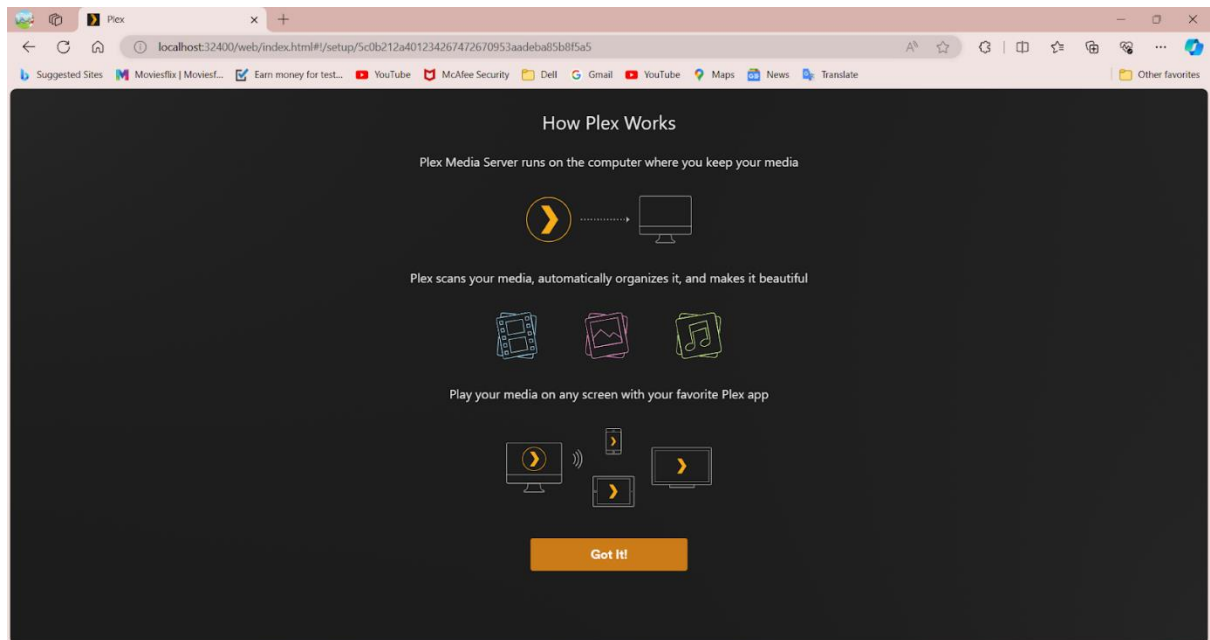
No VM guests are running outdated hypervisor (qemu) binaries on this host.
• plexmediaserver.service - Plex Media Server
   loaded: loaded (/lib/systemd/system/plexmediaserver.service; enabled; vendor preset: enabled)
   Active: active (running) since Fri 2024-04-19 06:05:09 UTC; 14s ago
   Process: 17306 ExecStartPre=/bin/sh -c /usr/bin/test -d "${PLEX_MEDIA_SERVER_APPLICATION_SUPPORT_DIR}" || /bin/mkdir -p "${PLEX_MEDIA_SERVER_APPLICATION_SUPPORT_DIR}" (code=exited, status=0/SUCCESS)
   Main PID: 17308 (Plex Media Serv)
   Tasks: 86 (limit: 1121)
   Memory: 171.9M
   CPU: 9.491s
   CGroup: /system.slice/plexmediaserver.service
           └─17308 /usr/lib/plexmediaserver/Plex Media Server"
               └─17420 "Plex Plug-in [com.plexapp.system]" /usr/lib/plexmediaserver/Resources/Plug-ins-c67dce28e/Framework.bundle/Contents/Resources/Versions/2/Python/bootstrap.py --server-version 1.40.2.8395-c67dce28e 32600
               └─17529 "/usr/lib/plexmediaserver/Plex Tuner Service" /usr/lib/plexmediaserver/Resources/Tuner/Private /usr/lib/plexmediaserver/Resources/Tuner/Shared 1.40.2.8395-c67dce28e 32600
               └─17546 "Plex Plug-in [com.plexapp.agents.lastfm]" /usr/lib/plexmediaserver/Resources/Plug-ins-c67dce28e/Framework.bundle/Contents/Resources/Versions/2/Python/bootstrap.py --server-version 1.40.2.8395-c67dce28e 32600
               └─17548 "Plex Plug-in [com.plexapp.agents.fanarttv]" /usr/lib/plexmediaserver/Resources/Plug-ins-c67dce28e/Framework.bundle/Contents/Resources/Versions/2/Python/bootstrap.py --server-version 1.40.2.8395-c67dce28e 32600
               └─17550 "Plex Plug-in [com.plexapp.agents.imdb]" /usr/lib/plexmediaserver/Resources/Plug-ins-c67dce28e/Framework.bundle/Contents/Resources/Versions/2/Python/bootstrap.py --server-version 1.40.2.8395-c67dce28e 32600

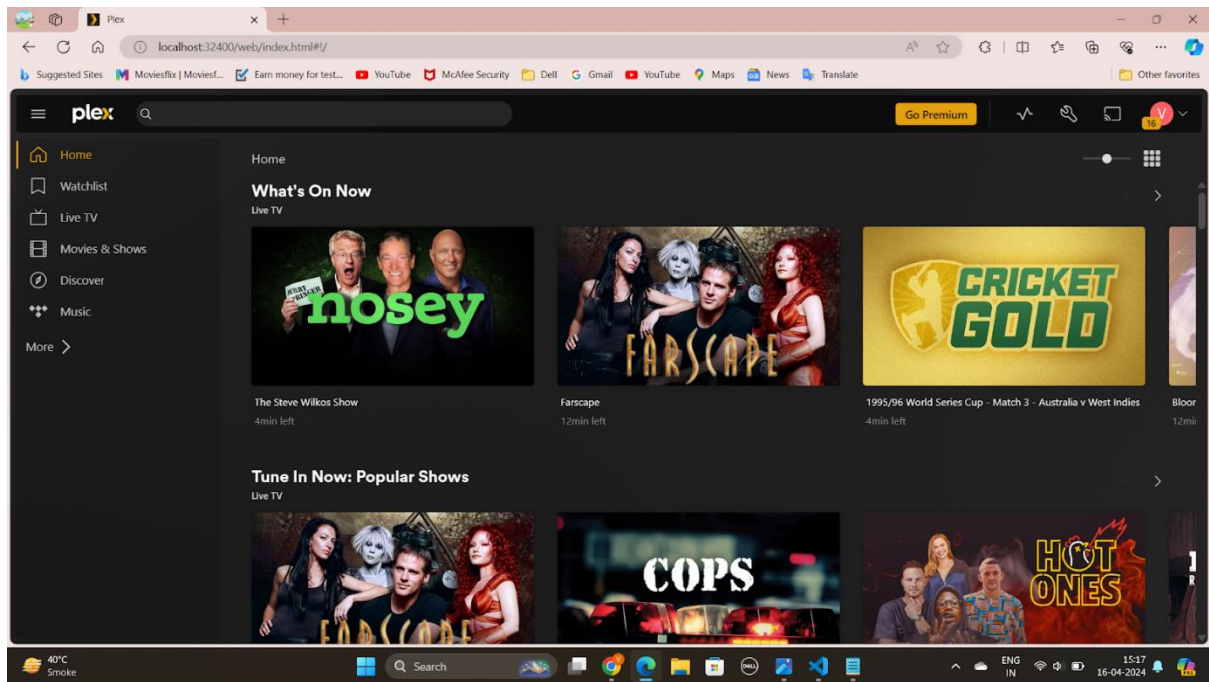
Apr 19 06:05:11 ip-172-31-39-92 Plex Media Server[17351]: --allowRetries arg Whether we will allow retries
Apr 19 06:05:11 ip-172-31-39-92 Plex Media Server[17351]: Session Health options:
Apr 19 06:05:11 ip-172-31-39-92 Plex Media Server[17351]: --sessionStatus arg Session health status (exited, crashed, or abnormal)
Apr 19 06:05:11 ip-172-31-39-92 Plex Media Server[17351]: --sessionStart arg Session start timestamp in UTC or epoch time
Apr 19 06:05:11 ip-172-31-39-92 Plex Media Server[17351]: --sessionDuration arg Session duration in seconds
Apr 19 06:05:11 ip-172-31-39-92 Plex Media Server[17351]: Common options:
Apr 19 06:05:11 ip-172-31-39-92 Plex Media Server[17351]: --userId arg User that owns this product
Apr 19 06:05:11 ip-172-31-39-92 Plex Media Server[17351]: --version arg Version of the product
Apr 19 06:05:11 ip-172-31-39-92 Plex Media Server[17351]: --sentryUrl arg Sentry URL to upload to
Apr 19 06:05:11 ip-172-31-39-92 Plex Media Server[17351]: --sentryKey arg Sentry Key for the project
```

Step 4 : Port Forwarding

- Go to the port section of vs code
- Forward the port number 32400
- Go to the web
- Your plex is setuped successfully







Setting up your Plex Media Server on AWS is just the beginning of an enjoyable movie streaming experience. Now that your server is up and running, you can start organizing your media library, adding your favorite movies, TV shows