Deploy Jenkins Application on an EC2 Instance

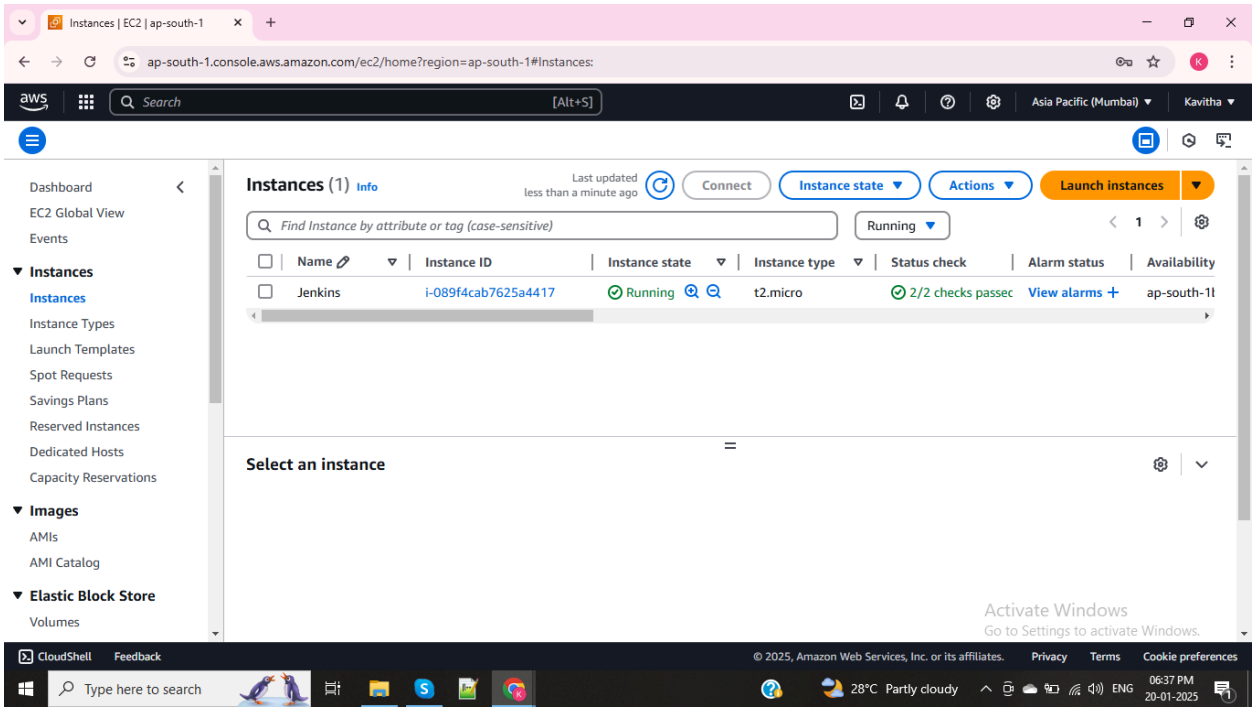
Step 1: Launch an EC2 Instance

1. Log in to the AWS Management Console.

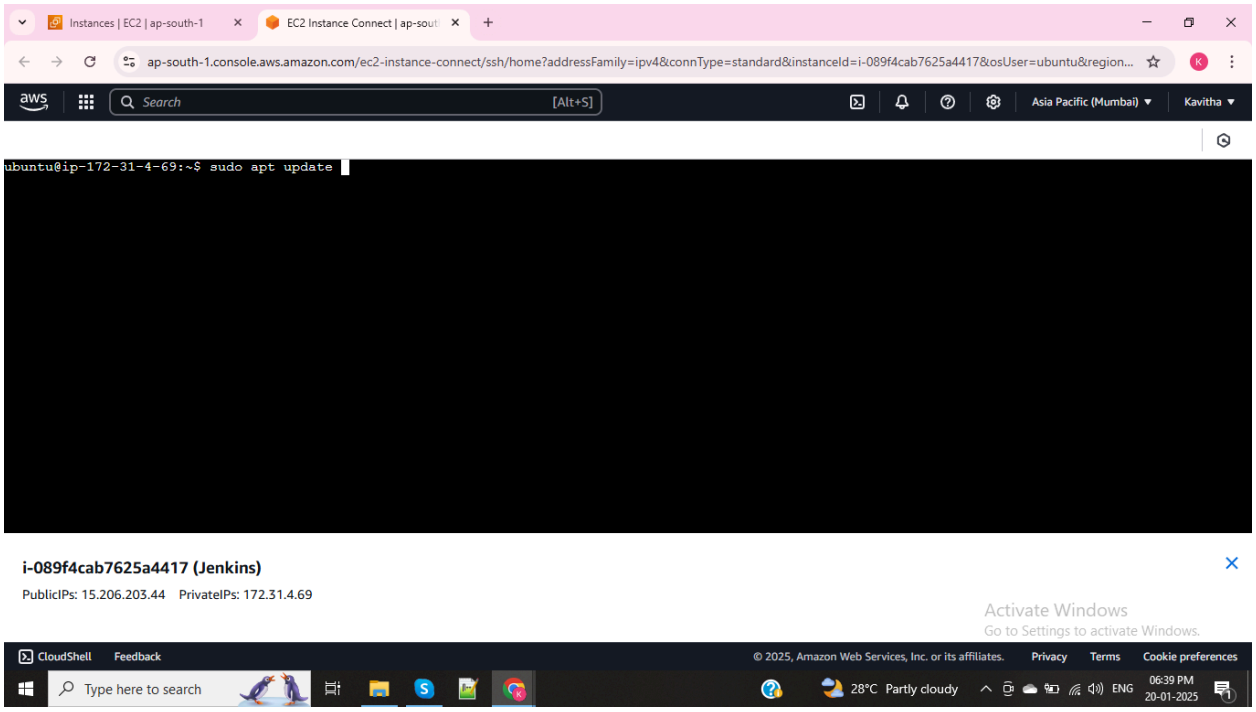
2. Navigate to EC2 → Instances → Launch Instances.

3. Configure the instance:

- **AMI**: Choose an Amazon Machine Image (AMI) with a supported OS like Amazon Ubuntu
- **Instance Type**: t2. micro
- **Key Pair**: Choose an existing key pair or create a new one for SSH access.
- Click **Launch**.

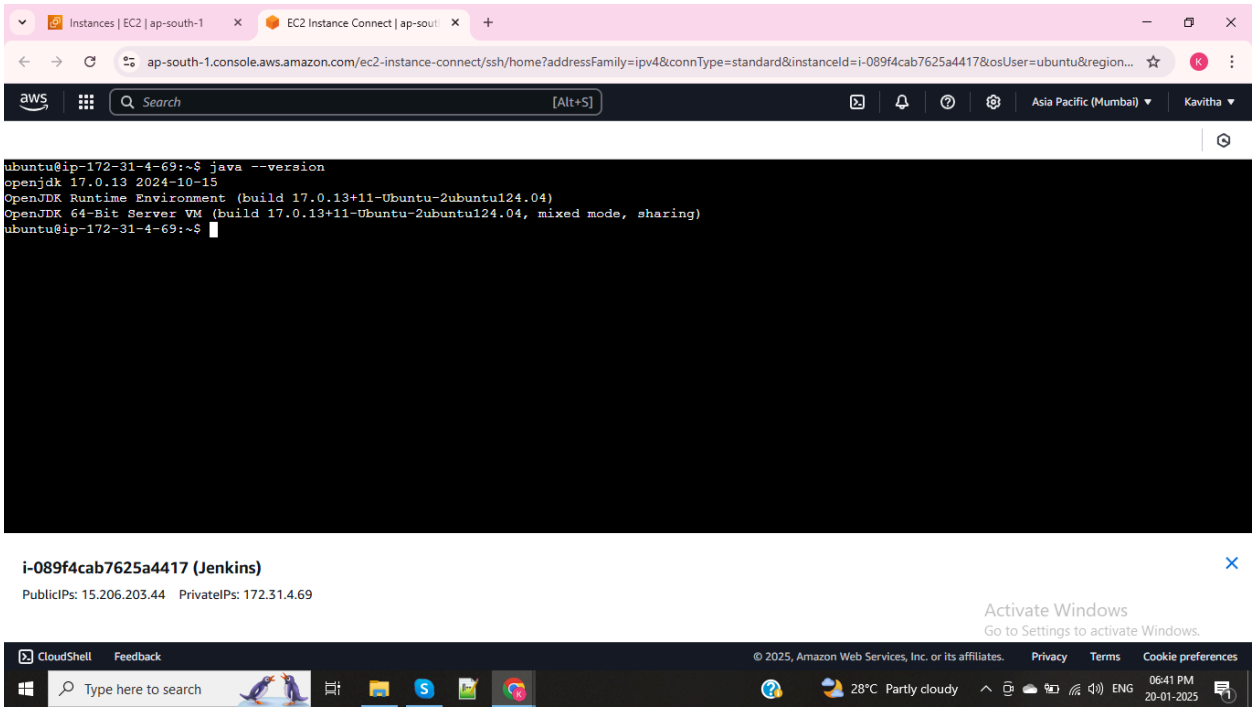


Step 2: Connect to the EC2 Instance --> Update the packages: sudo apt update -y

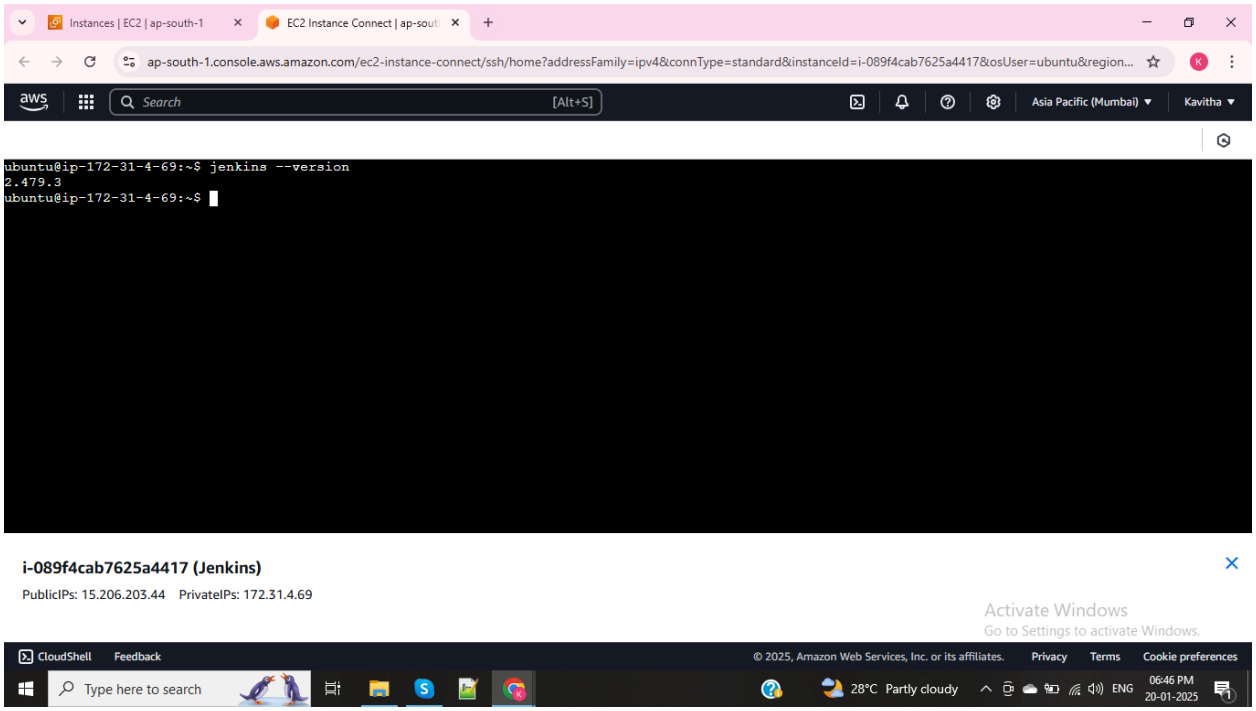


Step 3: Install Java: sudo apt install openjdk-17-jdk

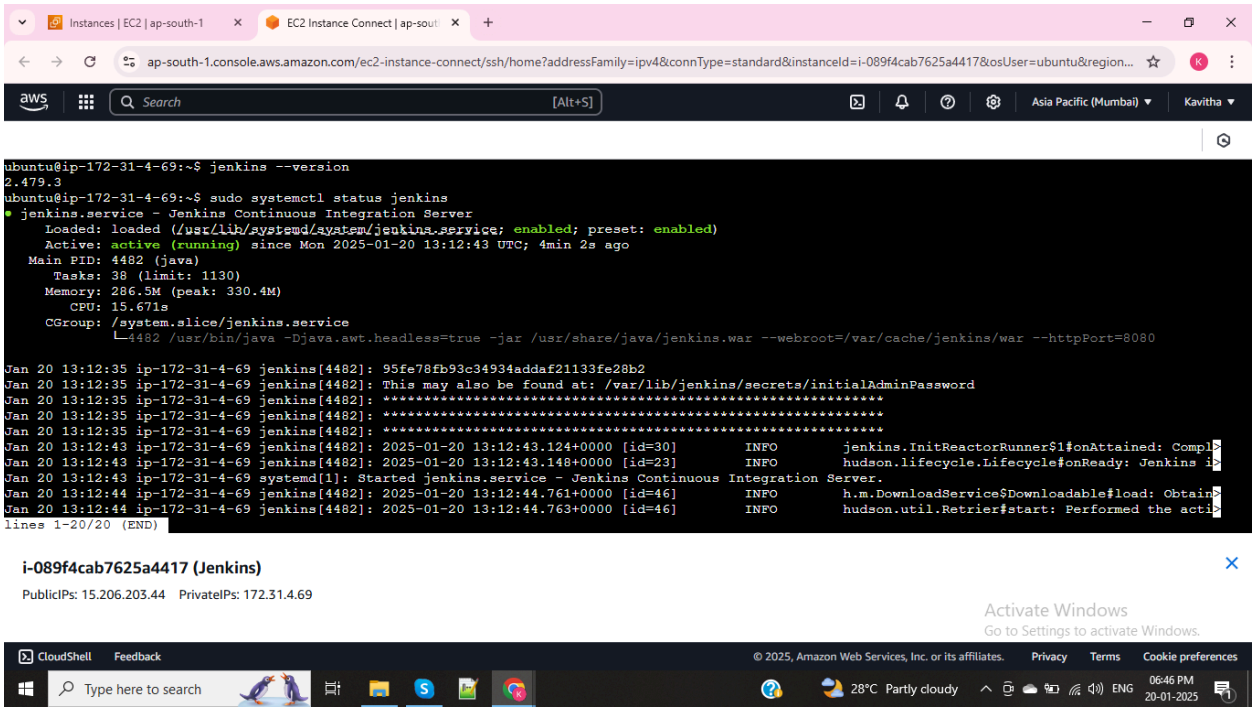
Java is a prerequisite for installing and running Jenkins because Jenkins is written in Java and operates as a Java application.



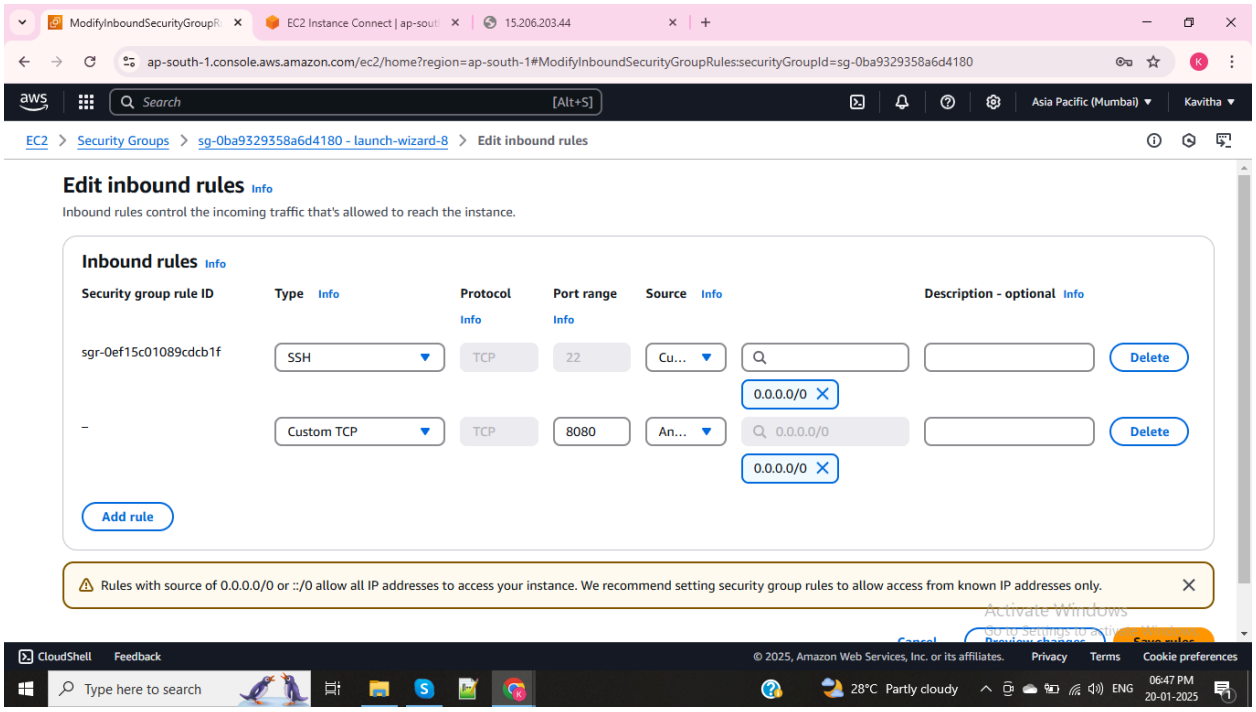
Step 4: Install Jenkins --> enable and start jenkins with the help of --> **sudo systemctl enable jenkins & sudo systemctl start jenkins** and For checking jenkins installed --> **jenkins --version**



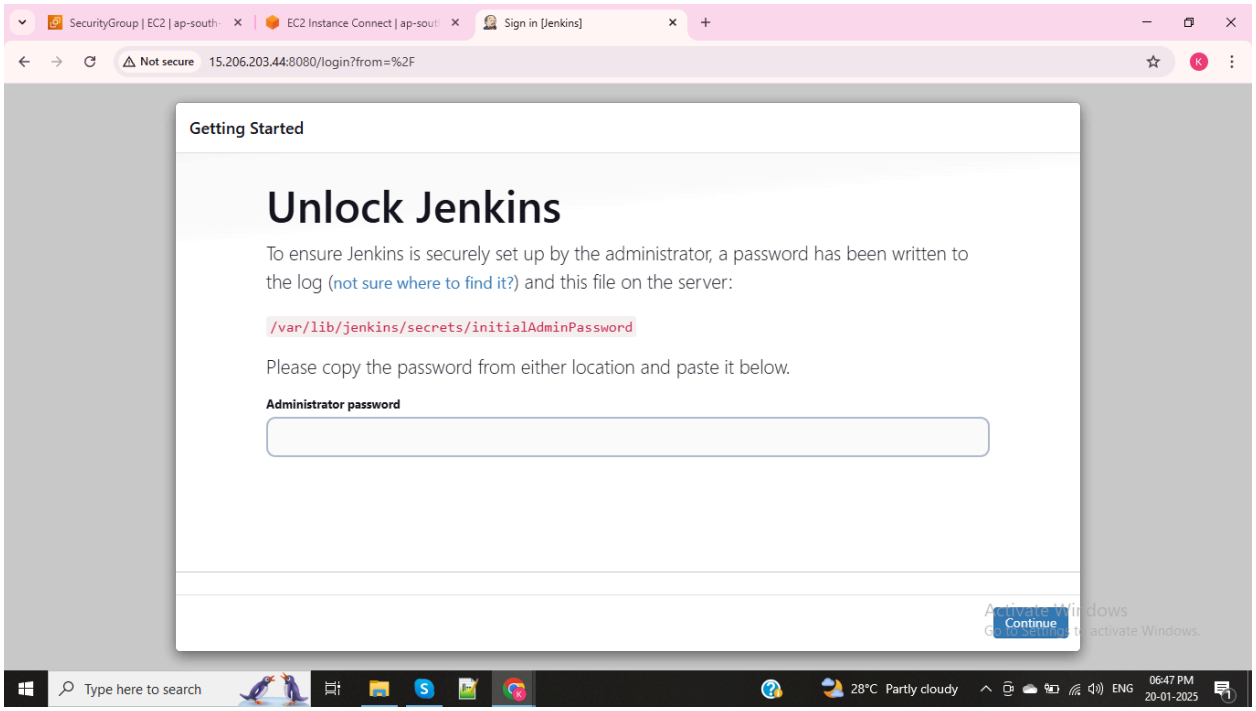
For checking the status: sudo systemctl status jenkins



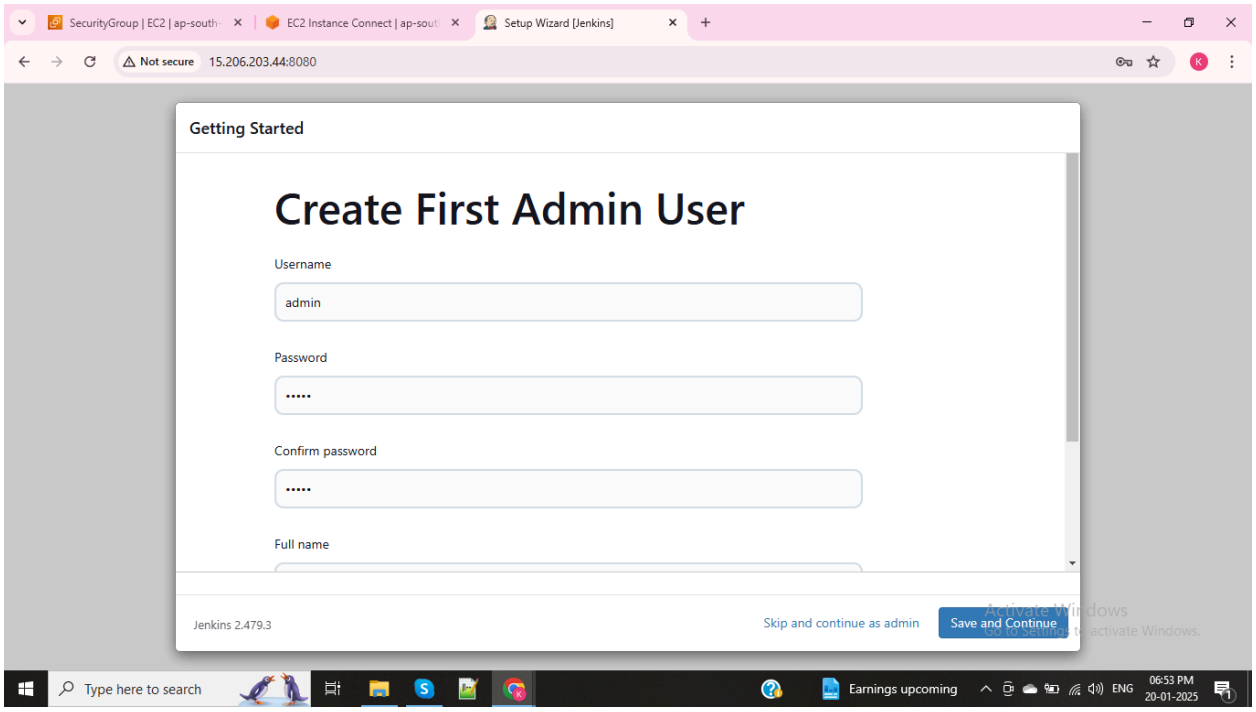
Before deploy an application in web server, Have to enable and open the port **8080** for display the jenkins application in web server.



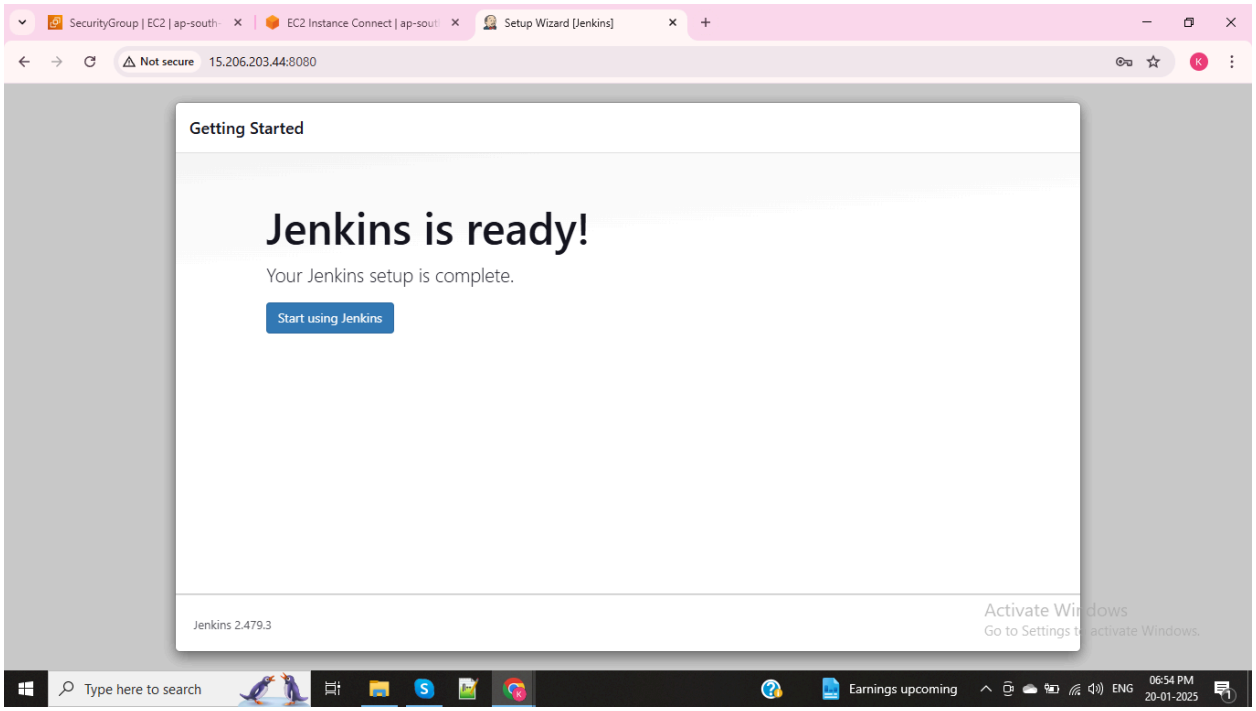
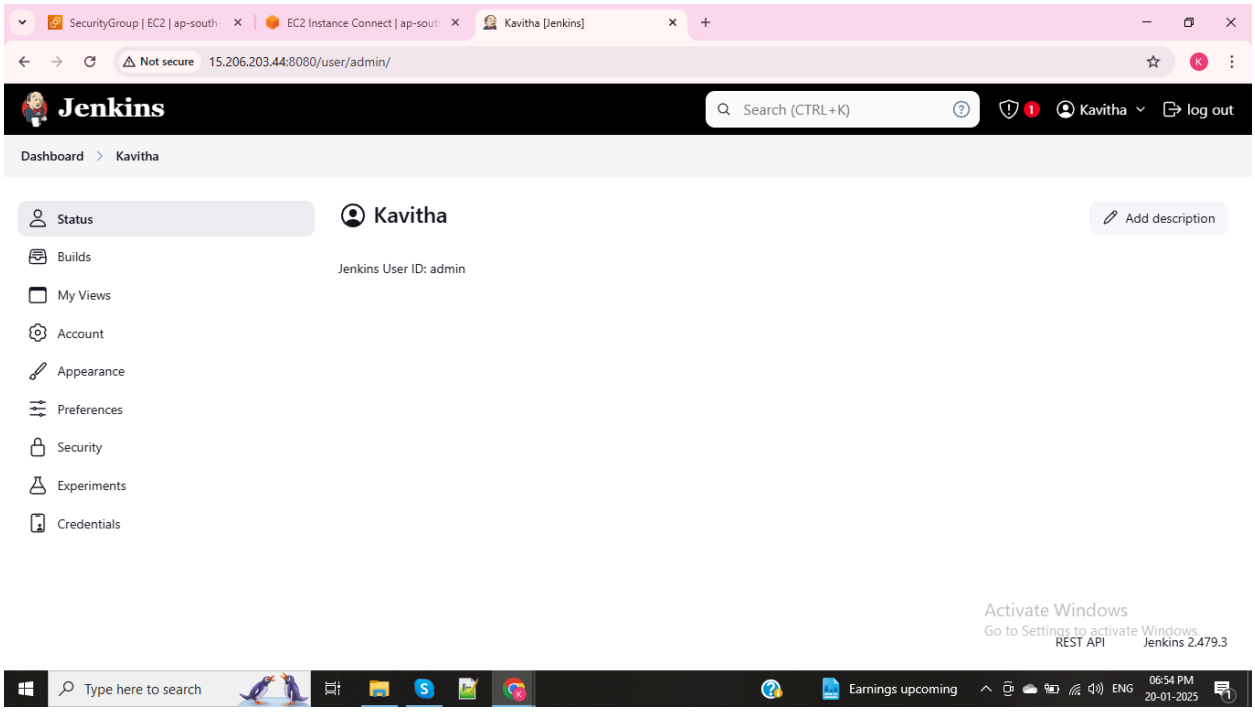
Now, To check the application is running in web server use public IP address of EC2 instance with port 8080 and **OUTPUT**



After Jenkins installed creating user to access jenkins



Jenkins is ready!



Dashboard of the Jenkins application