sudo su

sudo apt update

sudo apt install openjdk-21-jdk -y

java -version  
  
**//(op needed to be like below if java is ready**

**openjdk version "21.0.26" 2025-01-21  
  
)//**

**Add Jenkins GPG key:**

curl -fsSL https://pkg.jenkins.io/debian/jenkins.io.key | sudo tee \

/usr/share/keyrings/jenkins-keyring.asc > /dev/null  
  
  
  
**//(if already ADD Jenkins GPG key did try to check it jenkin GPG added or not by below key (or) because of the dev/null the above code didn’t get any output to check wheter it workerd or not use below code**ls -l /usr/share/keyrings/jenkins-keyring.asc **it will show output as**-rw-r--r-- 1 root root 1234 Mar 9 10:00 /usr/share/keyrings/jenkins-keyring.asc **)//**

**Add Jenkins repository:**

echo deb [signed-by=/usr/share/keyrings/jenkins-keyring.asc] \

https://pkg.jenkins.io/debian binary/ | sudo tee \

/etc/apt/sources.list.d/jenkins.list > /dev/null  
  
/(**because of the dev/null the above code didn’t get any output to check wheter it workerd or not use below code**  
  
cat /etc/apt/sources.list.d/jenkins.list  
  
**ouput will like as:**  
deb [signed-by=/usr/share/keyrings/jenkins-keyring.asc] https://pkg.jenkins.io/debian binary/ **)//**

**Step 4: Install Jenkins**

sudo apt update

sudo apt install jenkins -y

**//(**version checking of Jenkins

jenkins –version

**op**  
2.500  
**)//**

**Step 5: Start Jenkins service**

sudo systemctl start jenkins

**Ensure Jenkins starts on boot:**

sudo systemctl enable jenkins

**Step 6: Check Jenkins status**

sudo systemctl status Jenkins

**Step 7: Open Jenkins in your browser**

Jenkins runs on port 8080 by default. To access it:

* Get your public IP address of your Ubuntu instance.  
  //(Check Public IP  
    
  curl ifconfig.me  
    
  op  
  [13.203.155.197root@ip-172-31-15-116](mailto:13.203.155.197root@ip-172-31-15-116):

In the above command u have to choose until  
13.203.155.197 -- ip address **)//**

* Open a web browser and navigate to http://<your-public-ip>:8080.  
  eg- http:// 13.203.155.197: 8080

**(if above process is not working)**

### Enable port 8080

Go to Security group – Edit inbound rule – Add custom TCP – (port range)🡪8080 – Save it

Go to chrome browser try http://<your-public-ip>:8080

**Step 8: Unlock Jenkins**

To unlock Jenkins for the first time:

1. Retrieve the initial admin password:
2. Paste this password into the web interface when prompted.

sudo cat /var/lib/jenkins/secrets/initialAdminPassword  
  
ensure Jenkins is running  
  
sudo systemctl status Jenkins

sudo systemctl start Jenkins  
  
f u entered into Jenkins try to stop Jenkins by the below command after finishing work  
sudo systemctl stop Jenkins

//