**# Update package list**

**sudo apt update**

**# Install Git**

**sudo apt install -y git**

**# Install Amazon Corretto 21 (Java 21)**

**sudo apt install -y wget gnupg**

**wget -O- https://apt.corretto.aws/corretto.key | sudo gpg --dearmor -o /usr/share/keyrings/corretto-archive-keyring.gpg**

**echo "deb [signed-by=/usr/share/keyrings/corretto-archive-keyring.gpg] https://apt.corretto.aws stable main" | sudo tee /etc/apt/sources.list.d/corretto.list**

**sudo apt update**

**sudo apt install -y java-21-amazon-corretto-jdk**

**# Install Maven manually**

**cd /opt**

**sudo wget https://dlcdn.apache.org/maven/maven-3/3.9.9/binaries/apache-maven-3.9.9-bin.tar.gz**

**sudo tar -xvzf apache-maven-3.9.9-bin.tar.gz**

**sudo rm apache-maven-3.9.9-bin.tar.gz**

**# Set environment variables**

**echo "export M2\_HOME=/opt/apache-maven-3.9.9" >> ~/.bashrc**

**echo "export M2=\$M2\_HOME/bin" >> ~/.bashrc**

**echo "export PATH=\$M2:\$PATH" >> ~/.bashrc**

**source ~/.bashrc**

**# Confirm setup**

**echo $M2\_HOME**

**1. Update the System**

bash

CopyEdit

sudo apt update && sudo apt upgrade -y

**✅ 2. Install Java (Jenkins requires Java 11+; we'll use Java 21 here)**

bash

CopyEdit

sudo apt install -y openjdk-21-jdk

Check Java installation:

bash

CopyEdit

java -version

**✅ 3. Add Jenkins Repository and Key**

bash

CopyEdit

sudo apt install -y wget gnupg fontconfig

# Import the GPG key

wget -q -O - https://pkg.jenkins.io/debian-stable/jenkins.io-2023.key | \

sudo gpg --dearmor -o /usr/share/keyrings/jenkins-keyring.gpg

# Add the Jenkins repository

echo "deb [signed-by=/usr/share/keyrings/jenkins-keyring.gpg] https://pkg.jenkins.io/debian-stable binary/" | \

sudo tee /etc/apt/sources.list.d/jenkins.list > /dev/null

**✅ 4. Install Jenkins**

bash

CopyEdit

sudo apt update

sudo apt install -y jenkins

**✅ 5. Start and Enable Jenkins**

bash

CopyEdit

sudo systemctl daemon-reexec

sudo systemctl enable jenkins

sudo systemctl start jenkins

Check Jenkins status:

bash

CopyEdit

sudo systemctl status jenkins

**✅ 6. Access Jenkins**

Open a browser and go to:

cpp

CopyEdit

http://<your-server-ip>:8080

**✅ 7. Get Initial Admin Password**

bash

CopyEdit

sudo cat /var/lib/jenkins/secrets/initialAdminPassword