# **Jenkins Installation on Linux (Ubuntu)**

* Login to AWS Console
* Create EC2 Instance with Ubuntu AMI
* Login to EC2 Instance from Git Bash or any other terminal
* Execute below Commands
* This is the Debian package repository of Jenkins to automate installation and upgrade. To use this repository, first add the key to your system:

curl -fsSL https://pkg.jenkins.io/debian/jenkins.io-2023.key | sudo tee \

/usr/share/keyrings/jenkins-keyring.asc **>** /dev/null

* Then add a Jenkins apt repository entry:

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

* Update your local package index, then finally install Jenkins:

sudo apt-get update -y

sudo apt-get install fontconfig openjdk-11-jre -y

* Install Jenkins

sudo apt-get install jenkins -y

* Start the Jenkins

sudo service jenkins start

* Install Git and Maven

sudo apt-get install git maven -y

* Add port no 8080 in Security group 🡪 Inbound Rules
* Open Browser and type
  + <publicip>:8080
* Jenkins will be opened in a browser
  + Unlock the Jenkins by following the instructions

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

* + - copy the password and paste
  + Install suggested Plugins
  + Create admin user
  + Then your Jenkins is ready

# **Jenkins Installation on Linux (Redhat)**

* **Login to AWS Console**
* **Create EC2 Instance with RedHat EL AMI**
* **Login to EC2 from Git Bash OR Terminal in case of mac**

**Sudo su**

**yum install java-11-openjdk wget git -y**

Set Java\_HOME Environment Variable by following below instructions

file $(which java)

file /etc/alternatives/java

Copy the path of the Java installation directory (Upto bin i.e bin not included) and set as JAVA\_HOME

vi /etc/profile

export JAVA\_HOME=<Java-Installation-Directory>

export PATH=$JAVA\_HOME/bin:$PATH:$MAVEN\_HOME/bin

source /etc/profile

cd /opt

wget https://dlcdn.apache.org/maven/maven-3/3.8.6/binaries/apache-maven-3.8.6-bin.tar.gz

tar xvzf apache-maven-3.8.6-bin.tar.gz

vi /etc/profile

export MAVEN\_HOME=<Maven Installation Directory>

source /etc/profile

sudo wget -O /etc/yum.repos.d/jenkins.repo https://pkg.jenkins.io/redhat-stable/jenkins.repo

sudo rpm --import <https://pkg.jenkins.io/redhat-stable/jenkins.io.key>

sudo yum install jenkins -y

* + if any errors and Jenkins is not installed then execute below command
  + sudo yum install jenkins --nobest

sudo service jenkins start

sudo chkconfig jenkins on

sudo yum install maven -y

* Add port no 8080 in Security group 🡪 Inbound Rules
* Open Browser and type
  + <publicip>:8080
* Jenkins will be opened in a browser
  + Unlock the Jenkins by following the instructions

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

* + - copy the password and paste
  + Install suggested Plugins
  + Create admin user
  + Then your Jenkins is ready
* To Change the Jenkins port
  + cd /etc/sysconfig
  + vi Jenkins
  + Change Jenkins\_port value
  + Restart Jenkins service