

Install Jenkins on AWS EC2 (Amazon Linux 2023)

Jenkins is an open-source automation server that facilitates continuous integration and continuous delivery (CI/CD) by automating the building, testing, and deployment of software projects. It offers a web-based interface for easudo systemctl enable jenkins

sudo systemctl start jenkins configuration, supports a wide range of plugins for integration with various tools, and plays a key role in optimizing and streamlining the software development lifecycle.

Prerequisites

1. EC2 Instance
 - With Internet Access
 - Security Group with Port 8080 open for internet
2. java-17-amazon-corretto

Install Java

1. We will be using java-17-amazon-corretto

```
sudo dnf install java-17-amazon-corretto -y
```

2. Confirm Java Version and set the java_home

```
java -version
ls /usr/lib/jvm/
vi ~/.bashrc
export JAVA_HOME=/usr/lib/jvm/java-17-amazon-corretto
export PATH=$PATH:$JAVA_HOME/bin

source ~/.bashrc

java -version
```

3. *The output should be something like this,*

```
[root@~]# java -version
openjdk version "1.8.0_151"
OpenJDK Runtime Environment (build 1.8.0_151-b12)
OpenJDK 64-Bit Server VM (build 25.151-b12, mixed mode)
```

Install Jenkins

You can install jenkins using the rpm or by setting up the repo. We will set up the repo so that we can update it easily in the future.

Get the latest version of jenkins from <https://pkg.jenkins.io/redhat-stable/> and install

```
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-2023.key

sudo dnf install jenkins -y
```

Start Jenkins

```
sudo systemctl enable jenkins

sudo systemctl start jenkins
```

Accessing Jenkins

By default jenkins runs at port 8080, You can access jenkins at

<http://YOUR-SERVER-PUBLIC-IP:8080>

Configure Jenkins

- The default Username is `admin`
- Grab the default password
- Password Location: `/var/lib/jenkins/secrets/initialAdminPassword`
- Skip Plugin Installation; *We can do it later*
- Change admin password
 - Admin > Configure > Password
- Configure `java` path
 - Manage Jenkins > Global Tool Configuration > JDK
- Create another admin user id