Present By Amit Ganvir



What is Jenkins

- Jenkins is open source tool
- OIt is integration tool so we can integrate many of tools with Jenkins like git, maven, ansible, docker, AWS, kubernets, Sonarqube, JFROG and etc..
- Jenkins is java based web application
- Default port of Jenkins is 8080
- Jenkins is an open source Continuous Integration(CI)(and Continuous Delivery(CD) Tool

Advantages of Jenkins

- Open source and platform independent
- Extended plugins so there are more the Lac plugin so we can just download plugin and integrate with Jenkins.
- Increase Efficiency
- Reduce Time
- We can achieve CI/CD with help of Jenkins
- OJenkins also used master slave architecture so when there are high load on server it will automatically redirect to slave

How can we install Jenkins

- 1. WAR/JAR and deploy
- 2. You can use packaging
- 3. Jenkins Installer
- 4. Docker Container

Similar Tools like Jenkins in Market

- 1. Bamboo
- 2. TeamCity
- 3. Aws Code Deploy
- 4. Azure Code Deploy
- 5. Circle Cl
- 6. GITLAB

Continuous Integration Tools









Jenkins Buddy Bamboo













Prequisite of Install Jenkins

- 1. Windows 7 or Upper / Windows server 2008 or later
- Recommended 2 GB of RAM
- 3. JAVA installation required before we configure Jenkins

Go to Jenkins official site

Link: https://www.jenkins.io/download/#downloading-jenkins

Installation of Jenkins on Ubuntu

Step1: Install Required packages

```
# sudo apt install default-jre -y
# java --version
# sudo apt install default-jdk -y
# javac -version
# which java
```

```
# vim /etc/environment

JAVA_HOME="/usr/lib/jvm/java-11-openjdk-amd64"

# source /etc/environment
# echo $JAVA_HOME
# java --version
```

Step2: Install Jenkins package

apt install git -y

```
# wget -q -O - https://pkg.jenkins.io/debian-stable/jenkins.io.key | sudo apt-key add -
# sh -c 'echo deb https://pkg.jenkins.io/debian-stable binary/ >
/etc/apt/sources.list.d/jenkins.list'
# apt-get update -y
# apt-get install Jenkins -y
# apt install git -y
```

Step3: To Start your docker service

systemctl start jenkins

Step4: To Enable your docker service

systemctl enable jenkins

Step5: To Check service status

systemctl status jenkins

Data Availabe in Github Repository

https://github.com/amitganvir23/devops-session



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