java -jar jenkins.war --httpPort=9090

username : laxman

password: Laxman1436@

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What is Build & Deployment

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1) Take source code from git repo

2) Compile & Package that code

3) Perform Code Review

4) Upload Build Artifact to Nexus

5) Create Docker Image

6) Create Container

==========

Application Environments

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1) DEV

2) SIT

3) UAT

4) PILOT

5) PROD

=> Build and Deployment process in all these environments is difficult and time taking process.

=> To avoid the challenges involved in Manual Build and Deployment process we are going for JENKINS.

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Jenkins

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=> Jenkins is used to automate build and deployment process

=> Jenkins is a CI CD software

=> CI CD means continuous integration & Continuous deployment

=> Jenkins Software developed by using Java language (To run jenkins java is mandatory).

=> Jenkins Server Runs on Port : 8080

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Jenkins Setup

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1) Create Ubuntu VM in AWS Cloud

2) Connect to Ubuntu VM using MobaXterm

```
$ curl -fsSL https://pkg.jenkins.io/debian/jenkins.io-2023.key | sudo tee \
   /usr/share/keyrings/jenkins-keyring.asc > /dev/null

$ 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

$ sudo apt-get update

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

$ sudo apt-get install jenkins

$ sudo apt-get update

$ sudo apt-get install jenkins
```

Note: Enable 8080 port number in security group

=> Access Jenkins Server using below URL

URL : http://public-ip:8080/

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