======================================
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
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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.
====== Jenkins ======
=> 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
========= Jenkins Setup =========

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/
