node('master')

{

stage('Continuous Download')

{

git 'https://github.com/sunildevops77/maven.git'

}

stage('Continuous build')

{

sh label: '', script: 'mvn package'

}

stage('Continuous Deployment')

{

sh label: '', script: 'scp /home/ubuntu/.jenkins/workspace/ScriptedPipeline/webapp/target/webapp.war ubuntu@172.31.21.16:/var/lib/tomcat8/webapps/qaenv.war'

}

stage('Continuous Testing')

{

sh label: '', script: 'echo "Testing Passed"'

}

stage('Continuous Delivery')

{

sh label: '', script: 'scp /home/ubuntu/.jenkins/workspace/ScriptedPipeline/webapp/target/webapp.war ubuntu@172.31.28.16:/var/lib/tomcat8/webapps/prodenv.war'

}

}

Terraform install

Git hub account log in? Overview … org and repo??? Process….Blue prints

Console – Git bash?

Cent OS? Or Ubuntu

CMF

Ansible

Jenkins – Pipeline Declarative or Scripted

Where do we have requirements and how daily work assigned

stage 'git checkout'

git '<git repo url>'

stage 'SonarQube Analysis'

sh 'mvn sonar:sonar -Dsonar.projectKey=<project ley> -Dsonar.organization=<org key> -Dsonar.host.url=https://sonarcloud.io'

stage 'compile'

sh 'mvn clean compile'

stage 'test'

sh 'mvn test'

stage 'package'

sh 'mvn package'

stage 'artifacts'

archiveArtifacts 'target/\*.war'

stage ('upload .jar to nexus')

sh 'curl -v -u admin:admin123 --upload-file target/\*.war <http://3.129.68.223:8081/nexus/content/repositories/snapshots/>'

}

node ("webserver")---This is required to deploy artifact to webserver(tomcat)

{

stage ('Download \*.war to nexus')

sh 'curl -O <http://3.129.68.223:8081/nexus/content/repositories/snapshots/DevOps-Training.war>'

input 'Pipeline has paused and needs your input before proceeding'

stage 'deploy war on WebServer node'

sh 'sudo cp DevOps-Training.war /var/lib/tomcat8/webapps/'

}

MAVEN

Jdk 1.8 or above shld be downloaded in order to download MAVEN

What is vulnerability

What is maven global server?

What is Maven local repository.

What is Maven?

It is product of apache.

All the open source communities like Jenkins, tomcat, mysql etc upload their updated API's into maven global server ( search.maven.org )

Developers connect to the maven global server, download those

API that are necessary for the project development and store them in Maven local repository.

All developers connect to maven local repository and perform the development activity.

In this way, the code is stored separately in github. and API's required for code development are stored in maven local repository.

This will help in protecting the code from any threats/viruses that might be present in the API's.

Maven is also a build tool. Where it can compile the programs and create a artifact.

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Installing Maven

In google -- jdk 1.8 download

Download and Install

Where jdk is installed?

C:\Program Files\Java\jdk1.8.0\_281

Copy the path of jdk

This PC --> properties -- Advanced system settings --> advanced tab---> Environment variables --> system variables -- new

Variable name - JAVA\_HOME

Variable value - C:\Program Files\Java\jdk1.8.0\_281

Ok

+++++++++++++++

Now, go to "path" variable --- Edit -- click on new button

C:\Program Files\Java\jdk1.8.0\_281\bin

Ok

++++++++++++

Download apache Maven

In files section

download bin.zip version and extract

++++++++++++++++++

Again, create new environment variable

Variable name - M2\_HOME

Variable value -

C:\Users\admin\Downloads\apache-maven-3.8.1-bin\apache-maven-3.8.1

Ok

Now, go to "path" variable --- Edit -- click on new button

C:\Users\admin\Downloads\apache-maven-3.8.1-bin\apache-maven-3.8.1\bin

Ok --> Ok

How to check maven is configured or not?

Open command prompt

> mvn --version

++++++++++++++

stage 'git checkout'

git '<git repo url>'

stage 'SonarQube Analysis'

sh 'mvn sonar:sonar -Dsonar.projectKey=<project ley> -Dsonar.organization=<org key> -Dsonar.host.url=https://sonarcloud.io'

stage 'compile'

sh 'mvn clean compile'

stage 'test'

sh 'mvn test'

stage 'package'

sh 'mvn package'

stage 'artifacts'

archiveArtifacts 'target/\*.war'

stage ('upload .jar to nexus')

sh 'curl -v -u admin:admin123 --upload-file target/\*.war <http://3.129.68.223:8081/nexus/content/repositories/snapshots/>'

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node ("webserver")---This is required to deploy artifact to webserver(tomcat)

{

stage ('Download \*.war to nexus')

sh 'curl -O <http://3.129.68.223:8081/nexus/content/repositories/snapshots/DevOps-Training.war>'

input 'Pipeline has paused and needs your input before proceeding'

stage 'deploy war on WebServer node'

sh 'sudo cp DevOps-Training.war /var/lib/tomcat8/webapps/'

}