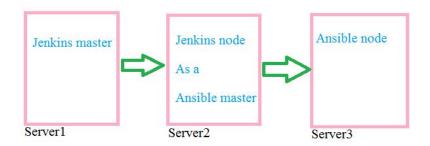
Project no:2

Q: Install tomcat server in ansible node through jenkins node using jenkins master?

This case we need 3 servers



Pre requisites:

Server1:

Take server ubuntu 16.04
Update the server(apt-get update)
Install java
Install maven
Install git
Install jenkins
Create user and give visudo permission for that user
Give ssh permission
Restart ssh(service ssh restart)

Server2:

Take server ubuntu 16.04
Update server
Install java
Install maven
Install git
Create user and give visudo permission for that user
Give ssh permission
Restart ssh(service ssh restart)
Configure ansible

Move to the user

\$ ssh-keygen

\$ ssh-copy-id < Ansible private ip>

\$ mkdir jenkins

\$ cd jenkins

Pull data which is available in git(tomcat available data in git)

Server3:

Take server ubuntu 16.04 Update server Create user and give visudo permission for that user Give ssh permission Restart ssh(service ssh restart)

Plugins:

- After installation completion go to jenkins master server and install plugins(ARTIFACTORY & ANSIBLE & PARAMETERIZED TRIGGER & BUILD PIPELINE)
- ARTIFACTORY PLUGIN FOR JFROG COMMUNICATION.
- ANSIBLE PLUGIN FOR ANSIBLE NODE COMMUNICATION.
- PARAMETERIZED TRIGGER FOR VARIABLE PURPOSE
- BUILD PIPELINE FOR SEE THE JOB PIPELINE FLOW

JFROG:

Jfrog

RedHat 8

t2.medium

PreRequisites:

Need Redhat 8 server

Instance type (t2.medium)

Port no:8081(custom Tcp)

Update the instance(yum)

Install java(yum install java-1.8.0-openjdk-devel)

Install wget

Configure Rpm:

wget https://bintray.com/jfrog/artifactory-pro-rpms/rpm -O bintray-jfrog-artifactory-pro-rpms.repo; sudo mv bintray-jfrog-artifactory-pro-rpms.repo /etc/yum.repos.d/;

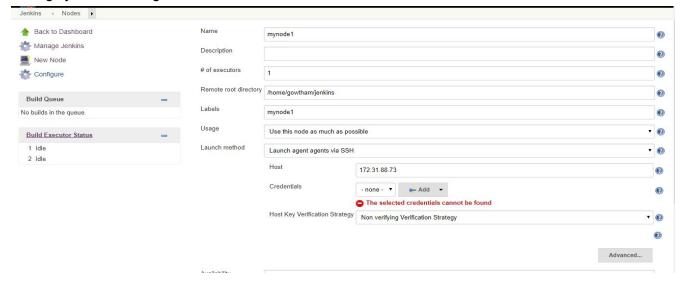
yum install jfrog-artifactory-pro

#After configuration type below command

systemctl start artifactory.service

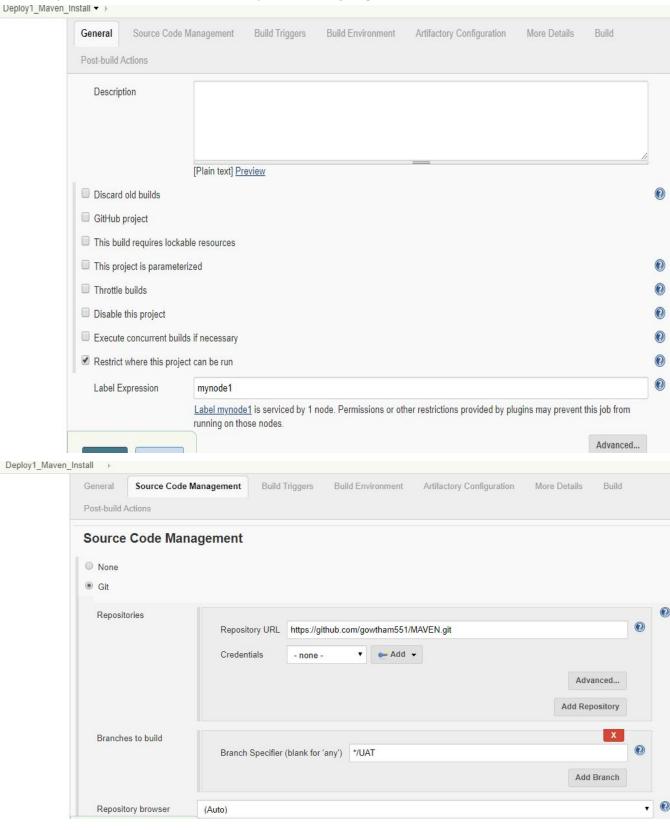
Step2:

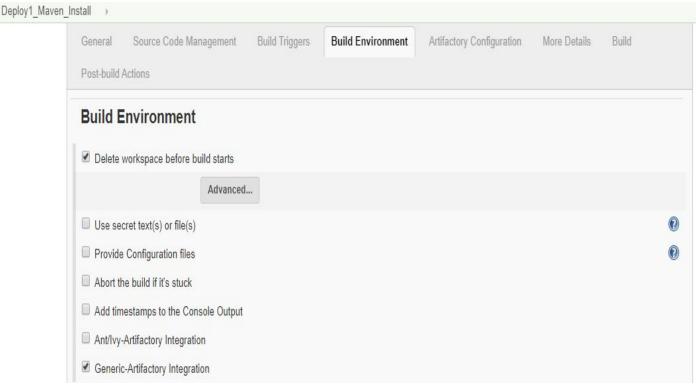
- 1. (Manage nodes)
- After all configuration process move to jenkins master and open in webbrowser
- Configure node
- Manage jenkins/manage node

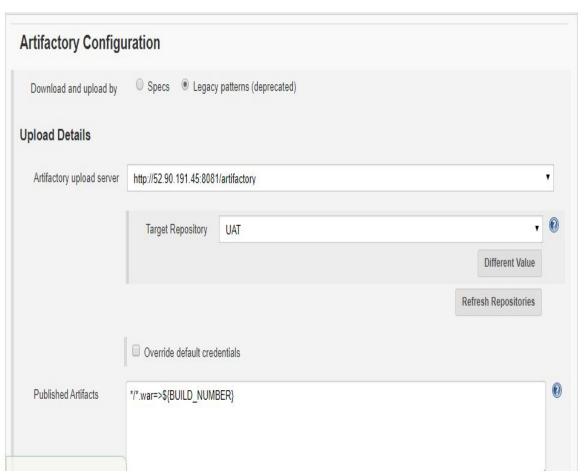


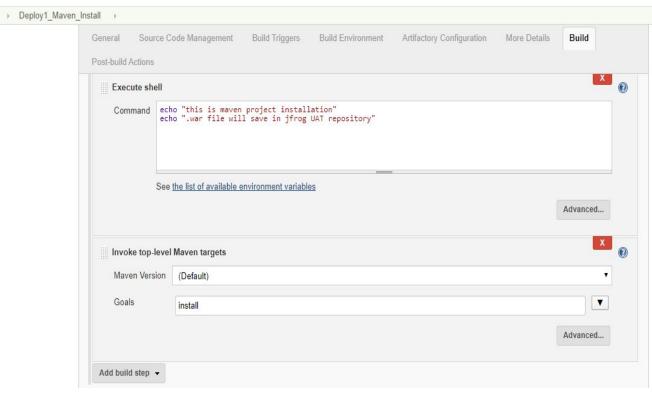
- The above "Remote root directory" path is ansible master path
- Host is jenkins node as a ansible master "private ip"
- Change host key verification strategy is "Non verifying verification strategy"

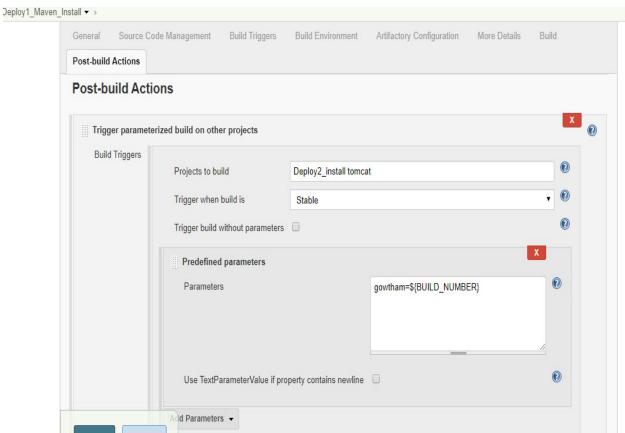
2. Create a job for install maven and deploy .war file in jfrog



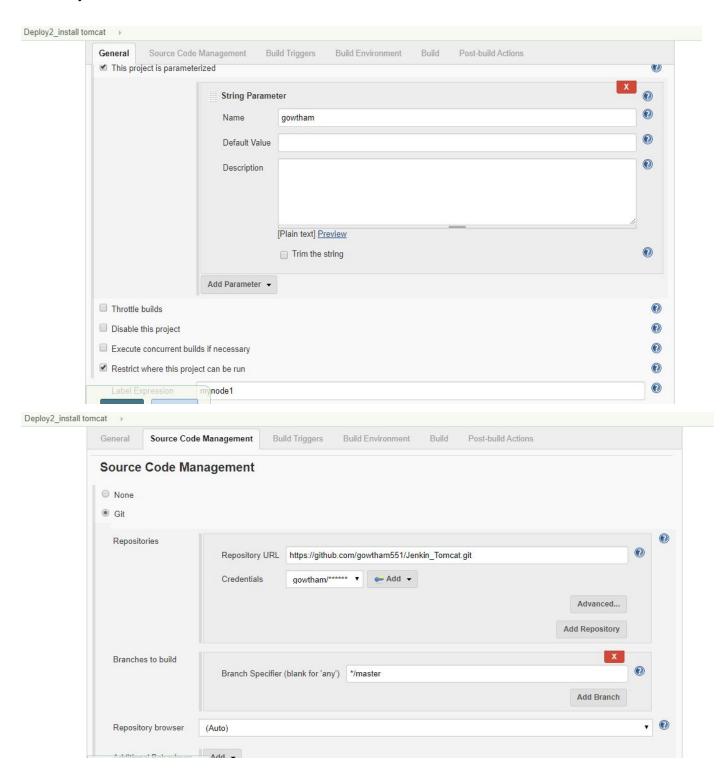


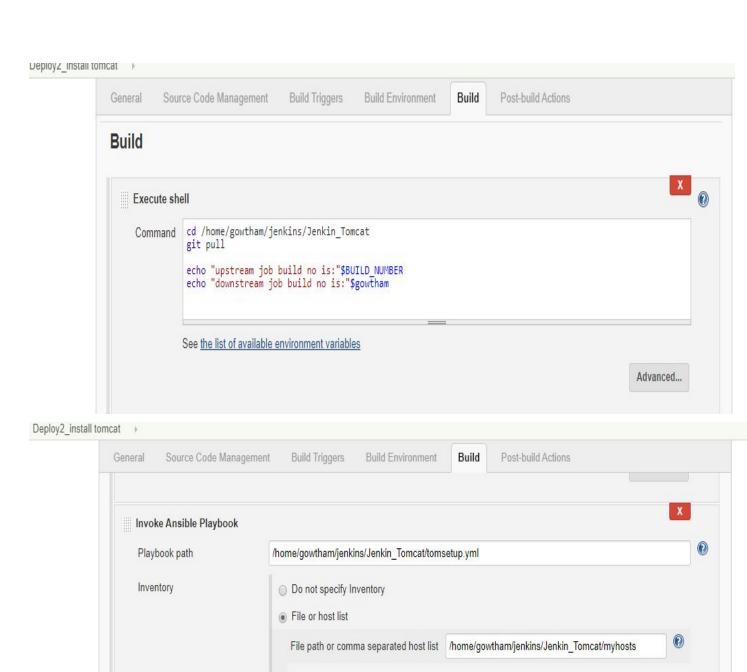






3. Create job for install tomcat in ansible node





Inline content

- none -

- none - ▼

Add -

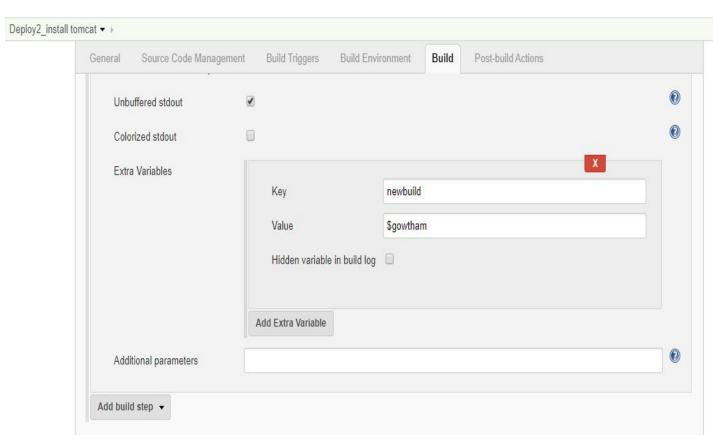
→ Add →

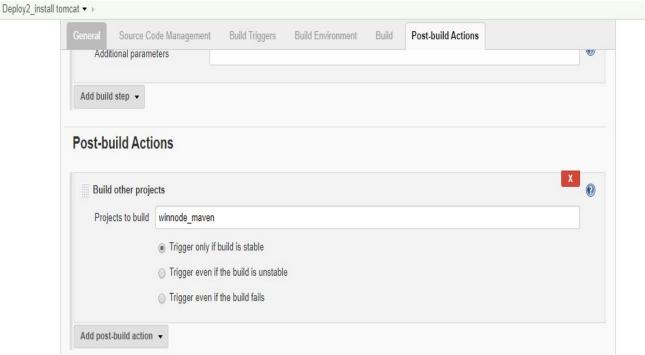
Host subset

Credentials

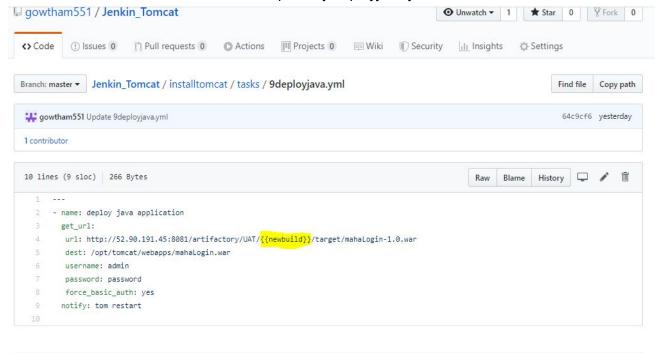
Vault Credentials

0





Give the variable name new build in Git repository deployjava.yml



Step3:

Windows Node

Pre Requisites:

Microsoft Windows Server 2016 Base

Install chocolatey

Set-ExecutionPolicy Bypass -Scope Process -Force; iex ((New-Object

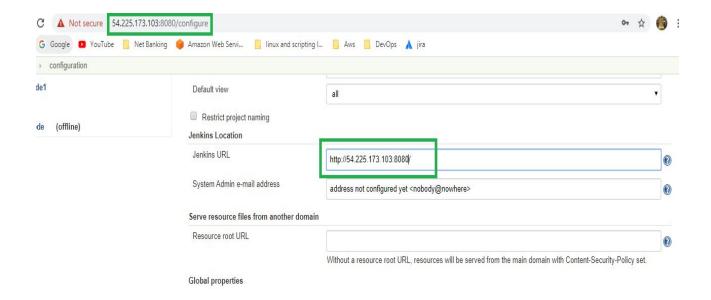
System.Net.WebClient).DownloadString('https://chocolatey.org/install.ps1'))

In reality we will use **EIP** so no need to configure every time

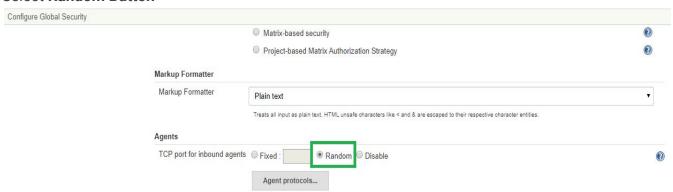
Install java

Install maven

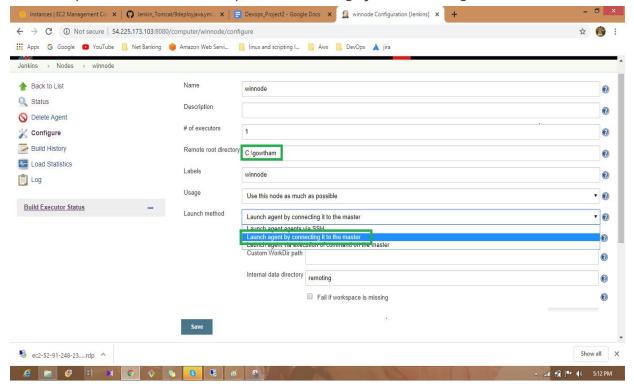
Install google chrome



If you will configure windows node first adjust in manage jenkins/configure global security Select **Random Button**



After completion of the above step move to manage jenkins/manage nodes



Here Remote root directory path **windows host ".jar"** file configured path For windows node launch method we have to select "**2nd option**"

- Here windows node configuration we have 2 processes
 - 1. .jar format
 - 2. .jnlp format (java ws ./slave.agent.jnlp)