**Build Scenario:**

Jenkins CI Server

+ GIT

(Slave)

Build Server (MAVEN)

+ GIT

TOMCAT

App Server ( + GIT) (Slave)

GITHUB – SCM Remote repo

Jfrog Artifactory (Centralized repo)

Atlassian Jira

**Infrastructure setup:**

* Jenkins installed on a Linux VM installed with GIT and Java JDK 1.8.
* Linux VM installed with MAVEN, GIT and Java JDL 1.8
* Linux VM installed with TOMCAT server, GIT and Java 1.8.
* Cloud VM instance installed with JIRA server.
* Cloud VM installed with Artifactory repository server.
* Install GIT, MAVEN and Tomcat Plug-in on the Jenkins server.
* Install Jira and Artifactory plugin on Jenkins.

**Jenkins JOB setup**

**Job 1:**

* Create a build job on Jenkins. Configure it to run on MAVEN Build server.
* This Job should fetch the project repository from the remote repo to the local repo.
* Run MVN build goals with clean and Package arguments.
* Upload / export artifacts to the Artifactory server.

**Job 2:**

* Create a job in Jenkins and configure it to run on TOMCAT server that’s been added as a slave.
* Download Artifacts from Artifactory server using wget or similar command and
* Restart the TOMCAT engine so as to extract the application package archive.