## **GIT Server**

- 1) Open CentOS Machine "gitserver" as shared in DATA.
- 2) Add following entries to /etc/hosts [[ sudo vi /etc/hosts ]] <IP Address> gitserver
- 3) For Creating Remote Repository[[Creating GIT Repository with "gituser" as ADMIN]]==>
- a) sudo groupadd dev
- b) sudo useradd -G dev -d /home/gituser -m -s /bin/bash gituser
- c) sudo passwd gituser
- d) sudo yum install git
- e) su gituser

As gituser ==>

- f) mkdir hello.git
- g) cd hello.git/
- h) git --bare init
- i) cd ..
- j) mkdir hello-test.git
- k) cd hello-test.git/
- I) git --bare init
- 4) Switch to Developer User(wfuser) Directory==>
- a) git config --global user.name "Sagar Mehta"
- b) git config --global user.email "sagar.mehta@atgensoft.com"
- c) git config --global core.editor vim
- d) git config --list
- e) ssh-keygen
- f) ssh-copy-id -i ~/.ssh/id\_rsa.pub gituser@gitserver
- g) Copy hello & hello-test directories to Users' Home
- h) cd hello
- i) git init; git add.
- j) git commit -m "Initial Commit" -a
- k) git log
- I) git remote add origin gituser@gitserver:hello.git

- m) git push origin master
- n) cd ../hello-test
- o) git init; git add.
- p) git commit -m "Initial Commit" -a
- q) git log
- r) git remote add origin gituser@gitserver:hello-test.git
- s) git push origin master

## Jenkins Server

- 1) Open CentOS Machine "jenkinsserver" as shared in DATA.
- 2) Add following entries to /etc/hosts [[ sudo vi /etc/hosts ]]
  - <IP Address> jenkinsserver
  - <IP Address> gitserver
  - <IP Address> ansibleserver
- 3) sudo yum install git
- 4) sudo wget http://repos.fedorapeople.org/repos/dchen/apache-maven/epel-apache-maven.repo -O /etc/yum.repos.d/epel-apache-maven.repo
- 5) sudo yum install apache-maven
- 6) sudo wget -O /etc/yum.repos.d/jenkins.repo http://pkg.jenkins-ci.org/redhat/jenkins.repo
- 7) sudo rpm --import http://pkg.jenkins-ci.org/redhat/jenkins-ci.org.key
- 8) sudo yum install jenkins
- 9) sudo chkconfig jenkins on
- 10) sudo service jenkins start
- 11) sudo yum install -y docker
- 12) sudo service docker start
- 13) sudo chkconfig docker on
- 14) sudo usermod -aG dockerroot jenkins; sudo usermod -aG dockerroot wfuser
- 15) sudo groupadd docker
- 16) sudo usermod -aG docker jenkins; sudo usermod -aG docker wfuser

- 17) sudo service docker restart
- 18) sudo passwd jenkins
- 19) Change

jenkins:x:496:493:Jenkins Continuous Integration Server:/var/lib/jenkins:/bin/false

to

jenkins:x:496:493:Jenkins Continuous Integration Server:/var/lib/jenkins:/bin/bash

- 20) sudo init 6 [[Reboot Your VM ]]
- 21) Finally, after the installation is complete you can visit the following Address in your browser http://your-ip-address:8080
- 22) Building Web App Jobs ==>
- a) Create A Free Style Project(helloBUILD)
- b) Add GIT remote url in browser "gituser@gitserver:hello.git"
- c) Invoke Top Level Maven targets

Goals ==> clean package

POM ==> pom.xml

- d) su jenkins
- e) cd /var/lib/jenkins/jobs/<JOBNAME>
- f) git config --global user.name "Sagar Mehta"
- g) git config --global user.email "sagar.mehta@atgensoft.com"
- h) git init
- i) git remote add origin ssh://gituser@gitserver/hello.git
- j) git remote set-url origin gituser@gitserver:hello.git

- k) cd
- I) ssh-keygen
- m) ssh-copy-id -i ~/.ssh/id\_rsa.pub gituser@gitserver
- n) ssh-copy-id -i ~/.ssh/id\_rsa.pub root@ansibleserver
- o) Create A Free Style Project(helloTEST)
- p) Build Triggers ==> Build After helloBUILD
- g) GIT URL ==> gituser@gitserver:hello-test.git
- r) Build Environment ==> Delete workspace before build starts
- s) Build ==>
- t) Execute Shell -->
- u) docker run -itd -v /var/lib/jenkins/workspace/helloBUILD/target/hello.war:/usr/local/tomcat/weba pps/hello.war -p 9090:8080 --name helloWebApp tomcat
- v) Invoke Top Level Maven Targets -->
- w) clean verify
- x) Execute Shell -->
- y) docker kill helloWebApp; docker rm helloWebApp
- 23) Install Performance Plugin -- Manage Jenkins --> Manage Plugins --> Performance
- 24) Down in Post-build Actions check the Publish Performance test result report checkbox.
- 25) For Source Data files specify \*\*/\*.jtl
- 26) Also under Post-build Actions check the Archive the artifacts

checkbox.

- 27) Under Files to archive specify \*\*/\*jtl-report.html. This will keep a copy of the html formatted reports for each build so you can look at them in Jenkins.
- 28) Create A Free Style Project(helloDEPLOY)
- a) Build Triggers ==> Build After helloTEST
- b) Build Environment ==> Delete workspace before build starts
- c) Build ==>

Execute Shell -->

scp /var/lib/jenkins/workspace/helloBUILD/target/hello.war
root@ansibleserver:/etc/ansible/files/