[root@jenkins ec2-user]# vi /etc/ssh/sshd\_config

[root@jenkins ec2-user]# **service sshd restart**

Redirecting to **Login with other than ec2-user and without pem**

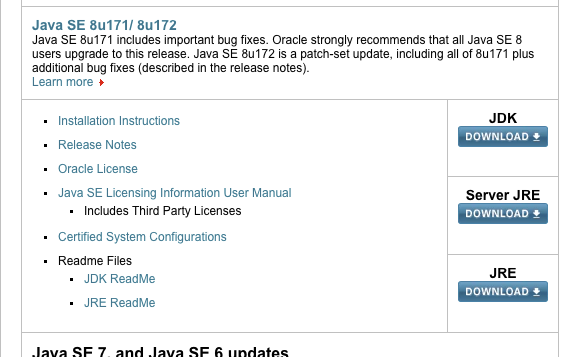
[root@jenkins ec2-user]# vi /etc/ssh/sshd\_config

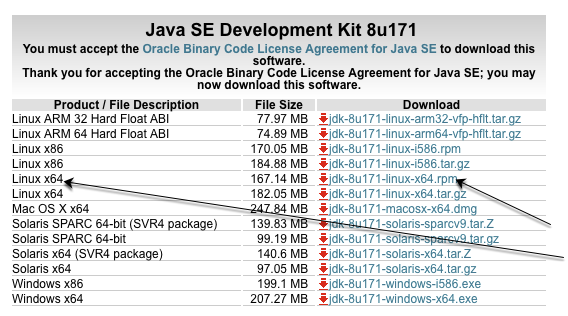
[root@jenkins ec2-user]# (65 , PasswordAuthentication yes)

/bin/systemctl restart sshd.service

[root@jenkins ec2-user]#

Download the java

/+++++++++++++++



wget --no-cookies --no-check-certificate --header "Cookie: gpw\_e24=http%3A%2F%2Fwww.oracle.com%2F; oraclelicense=accept-securebackup-cookie" "<http://download.oracle.com/otn-pub/java/jdk/8u171-b11/512cd62ec5174c3487ac17c61aaa89e8/jdk-8u171-linux-x64.rpm>"

**[root@jenkins ~]# cd /opt/**

[root@jenkins opt]# **ls -ltr**

total 0

[root@jenkins opt]# **pwd**

/opt

[root@jenkins opt]# **wget --no-cookies --no-check-certificate --header "Cookie: gpw\_e24=http%3A%2F%2Fwww.oracle.com%2F; oraclelicense=accept-securebackup-cookie" "http://download.oracle.com/otn-pub/java/jdk/8u171-b11/512cd62ec5174c3487ac17c61aaa89e8/jdk-8u171-linux-x64.rpm**"

-bash: wget: command not found

[root@jenkins opt]# **yum install wget -y**

[root@jenkins opt]#

**rpm -ivh jdk-8u171-linux-x64.rpm** **wget --no-cookies --no-check-certificate --header "Cookie: gpw\_e24=http%3A%2F%2Fwww.oracle.com%2F; oraclelicense=accept-securebackup-cookie" "http://download.oracle.com/otn-pub/java/jdk/8u171-b11/512cd62ec5174c3487ac17c61aaa89e8/jdk-8u171-linux-x64.rpm**"

[root@jenkins opt]# **rpm -ivh jdk-8u171-linux-x64.rpm**

Preparing... ################################# [100%]

Updating / installing...

1:jdk1.8-2000:1.8.0\_171-fcs ################################# [100%]

Unpacking JAR files...

tools.jar...

plugin.jar...

javaws.jar...

deploy.jar...

rt.jar...

jsse.jar...

charsets.jar...

localedata.jar...

[root@jenkins opt]# java -version

[root@jenkins opt]# **java -version**

java version "**1.8.0\_171"j**

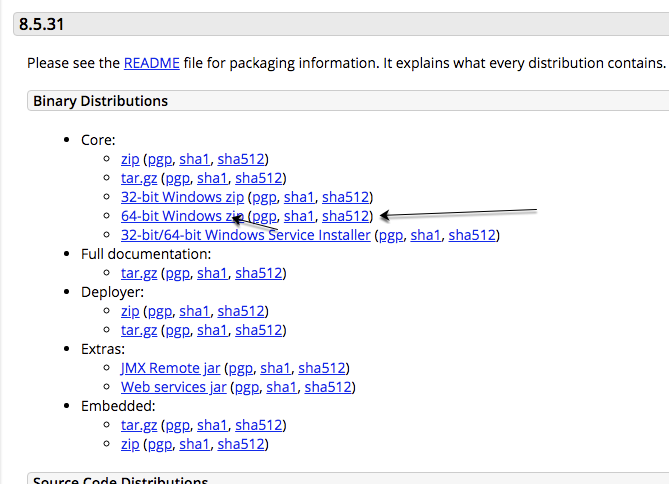
Java(TM) SE Runtime Environment (build 1.8.0\_171-b11)

Java HotSpot(TM) 64-Bit Server VM (build 25.171-b11, mixed mode)

[root@jenkins opt]#

Install the Tomcat

**wget --no-cookies --no-check-certificate --header "Cookie: gpw\_e24=http%3A%2F%2Fwww.oracle.com%2F; oraclelicense=accept-securebackup-cookie" "http://download.oracle.com/otn-pub/java/jdk/8u171-b11/512cd62ec5174c3487ac17c61aaa89e8/jdk-8u171-linux-x64.rpm**"



+

[root@jenkins opt]# **wget http://www-eu.apache.org/dist/tomcat/tomcat-8/v8.5.31/bin/apache-tomcat-8.5.31-windows-x64.zip**

unzip **apache-tomcat-8.5.31-windows-x64.zip**

[root@jenkins opt]# **unzip apache-tomcat-8.5.31-windows-x64.zip apache-tomcat-8.5.31-windows-x**

[root@jenkins opt]# **unzip64.zi**

-bash: unzip: command not found

[root@jenkins opt]# **yum install unzip -y**

root@jenkins opt]# **chown -R devopsadmin.devopsadmin apache-tomcat-8.5.31**

**[root@jenkins opt]# apache-tomcat-8.5.31**

**chown -R devopsadmin.devopsadmin apache-tomcat-8.5.31**

**[root@jenkins opt]# su - devopsadmin**

**Last login: Mon May 7 03:20:49 UTC 2018 from 103.15.250.11 on pts/0**

**[devopsadmin@jenkins ~]$ whoami**

***devopsadmin***

**[devopsadmin@jenkins ~]$**

[devopsadmin@jenkins opt]$ **mv apache-tomcat-8.5.31 tomcat**

mv: cannot move ‘apache-tomcat-8.5.31’ to ‘tomcat’: Permission denied

[devopsadmin@jenkins opt]$ **sudo mv apache-tomcat-8.5.31 tomcat**

[devopsadmin@jenkins opt]$

Start the tomcat

**cd tomcat/bin/**

[devopsadmin@jenkins bin]$ ./startup.sh

Using CATALINA\_BASE: /opt/tomcat

Using CATALINA\_HOME: /opt/tomcat

Using CATALINA\_TMPDIR: /opt/tomcat/temp

Using JRE\_HOME: /

Using CLASSPATH: /opt/tomcat/bin/bootstrap.jar:/opt/tomcat/bin/tomcat-juli.jar

Tomcat started.

[devopsadmin@jenkins bin]$

Check tomcat running or not

[devopsadmin@jenkins bin]$

**devopsa+ 21158 1 0 02:32 pts/0 00:00:04 //bin/java -Djava.util.logging.config.file=/opt/tomcat/conf/logging.properties -Djava.util.logging.manager=org.apache.juli.ClassLoaderLogManager -Djdk.tls.ephemeralDHKeySize=2048 -Djava.protocol.handler.pkgs=org.apache.catalina.webresources -Dorg.apache.catalina.security.SecurityListener.UMASK=0027 -Dignore.endorsed.dirs= -classpath /opt/tomcat/bin/bootstrap.jar:/opt/tomcat/bin/tomcat-juli.jar -Dcatalina.base=/opt/tomcat -Dcatalina.home=/opt/tomcat -Djava.io.tmpdir=/opt/tomcat/temp org.apache.catalina.startup.Bootstrap start**

devopsa+ 27337 26868 0 02:45 pts/1 00:00:00 grep --color=auto **tomcat**

[devopsadmin@jenkins bin]$

[devopsadmin@jenkins tomcat]$ netstat -anlp | grep ":8080"

(Not all processes could be identified, non-owned process info

will not be shown, you would have to be root to see it all.)

tcp6 0 0 ::**:8080** :::\* LISTEN 21158/java

[devopsadmin@jenkins tomcat]$

a=all

n=numeric

l=long list

p=process id

t=tcp

u=udp

[devopsadmin@jenkins tomcat]$ **netstat -tuanlp | grep ":8080"**

(Not all processes could be identified, non-owned process info

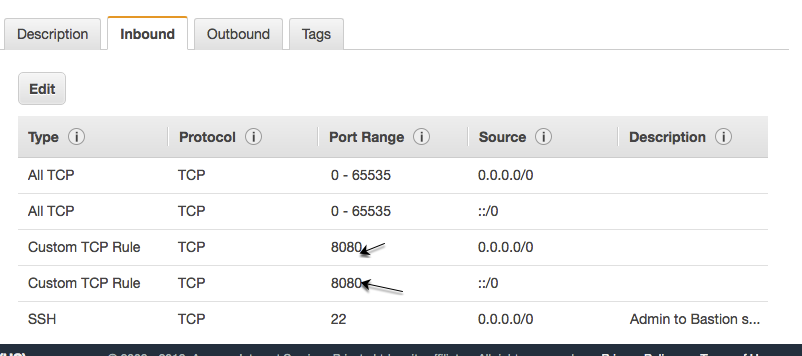
will not be shown, you would have to be root to see it all.)

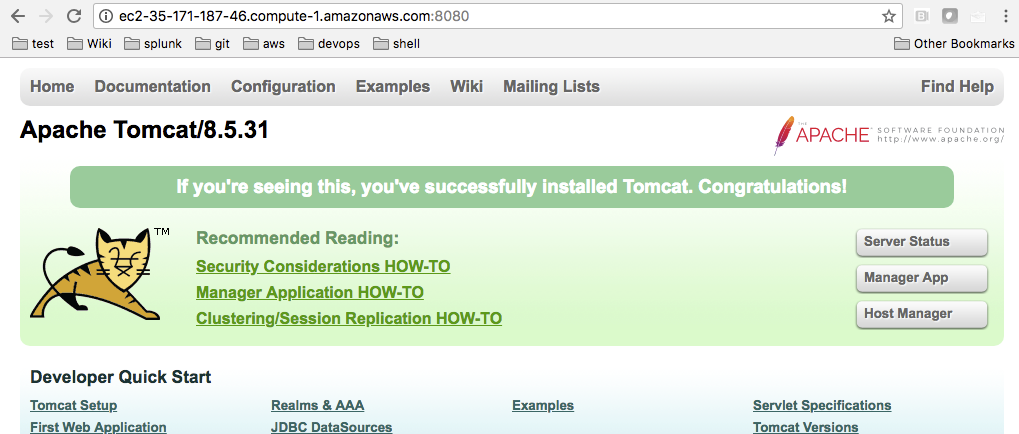
tcp6 0 0 ::**:8080** :::\* LISTEN 21158/java

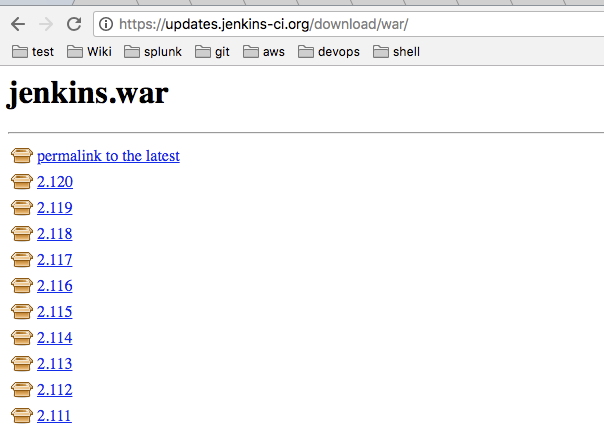
[devopsadmin@jenkins tomcat]$

[devopsadmin@jenkins tomcat]$ **curl http://localhost:8080**

Change the jenkins machine security group , 8080 port from anywhere.







[devopsadmin@jenkins opt]$ pwd

/opt

[devopsadmin@jenkins opt]$ **c**

mkdir: cannot create directory ‘apps’: Permission denied

[devopsadmin@jenkins opt]$ s**udo mkdir apps**

[devopsadmin@jenkins opt]$ ls -ltr

total 182096

-rw-r--r--. 1 root root 175262413 Apr 3 18:05 jdk-8u171-linux-x64.rpm

-rw-r--r--. 1 root root 11202116 Apr 27 20:47 apache-tomcat-8.5.31-windows-x64.zip

drwx------. 9 devopsadmin devopsadmin 160 Apr 27 21:26 tomcat

drwxr-xr-x. 2 root root 6 May 9 02:51 apps

[devopsadmin@jenkins opt]$ **sudo chown -R devopsadmin:devopsadmin apps**

[devopsadmin@jenkins opt]$ cd apps/

[devopsadmin@jenkins apps]$ pwd

/opt/apps

[devopsadmin@jenkins apps]$

**wget**

[devopsadmin@jenkins apps]$ **https://updates.jenkins-ci.org/download/war/2.118/jenkins.war**

Pwd

/opt/apps

cp jenkins.war /opt/tomcat/webapps/

cp jenkins.war ../tomcat/webapps

/home/devopsadmin

[devopsadmin@jenkins apps]$ **ls -ltr**

total 72944

-rw-rw-r--. 1 devopsadmin devopsadmin 74693820 Apr 23 00:21 jenkins.war

[devopsadmin@jenkins apps]$ **cp jenkins.war /opt/tomcat/webapps/**

[devopsadmin@jenkins apps]$ **ls -ltr /opt/tomcat/webapps/**

total 72956

drwx------. 3 devopsadmin devopsadmin 4096 Apr 27 21:24 ROOT

drwx------. 5 devopsadmin devopsadmin 103 Apr 27 21:25 manager

drwx------. 5 devopsadmin devopsadmin 87 Apr 27 21:25 host-manager

drwx------. 6 devopsadmin devopsadmin 83 Apr 27 21:25 examples

drwx------. 14 devopsadmin devopsadmin 4096 Apr 27 21:25 docs

-rw-rw-r--. 1 devopsadmin devopsadmin 74693820 May 9 02:54 **jenkins.war**

drwxr-x---. 11 devopsadmin devopsadmin 4096 May 9 02:54 **jenkins**

[devopsadmin@jenkins apps]$ pwd

/opt/apps

[devopsadmin@jenkins apps]$

Access the jenkins page

Go to the devopsadmin home directory

Cd

Cd ~

Cd /home/devopsadmin

[devopsadmin@jenkins ~]$ pwd

**/home/devopsadmin**

[devopsadmin@jenkins ~]$

[devopsadmin@jenkins ~]$ ls -ltra

total 20

-rw-r--r--. 1 devopsadmin devopsadmin 231 Sep 26 2017 .bashrc

-rw-r--r--. 1 devopsadmin devopsadmin 193 Sep 26 2017 .bash\_profile

-rw-r--r--. 1 devopsadmin devopsadmin 18 Sep 26 2017 .bash\_logout

drwxr-xr-x. 4 root root 41 May 2 02:44 ..

drwx------. 2 devopsadmin devopsadmin 57 May 3 02:45 .ssh

drwxrwxr-x. 2 devopsadmin devopsadmin 181 May 3 03:30 scripts

-rw-------. 1 devopsadmin devopsadmin 1653 May 7 03:29 .bash\_history

drwxr-x---. 2 devopsadmin devopsadmin 40 May 9 02:32 .oracle\_jre\_usage

drwx------. 6 devopsadmin devopsadmin 151 May 9 02:54 .

drwxr-x---. 10 devopsadmin devopsadmin 4096 May 9 02:54 **.jenkins**

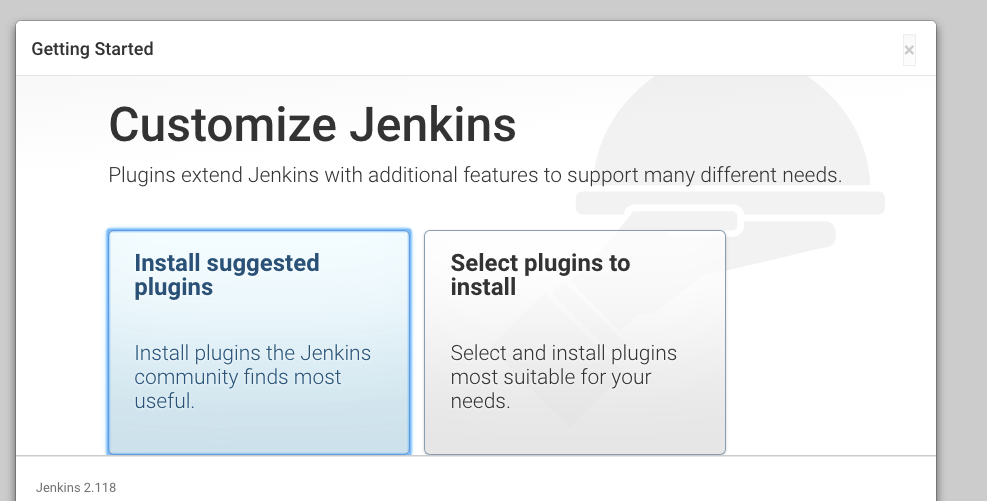
[devopsadmin@jenkins ~]$

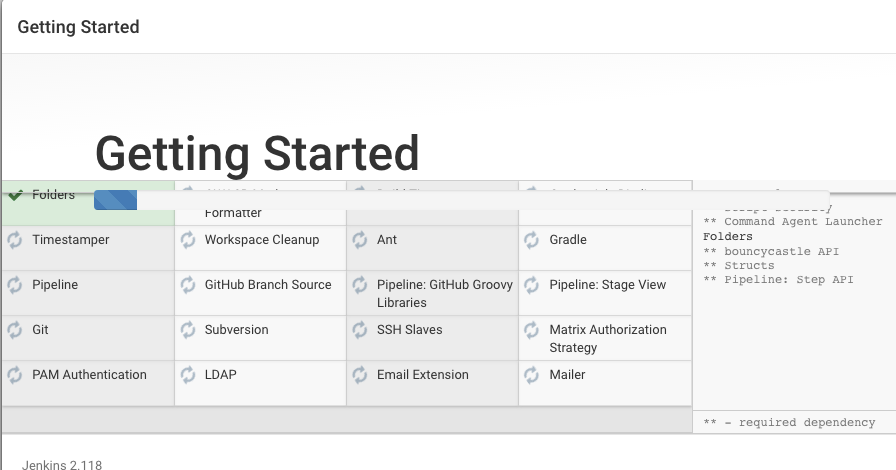


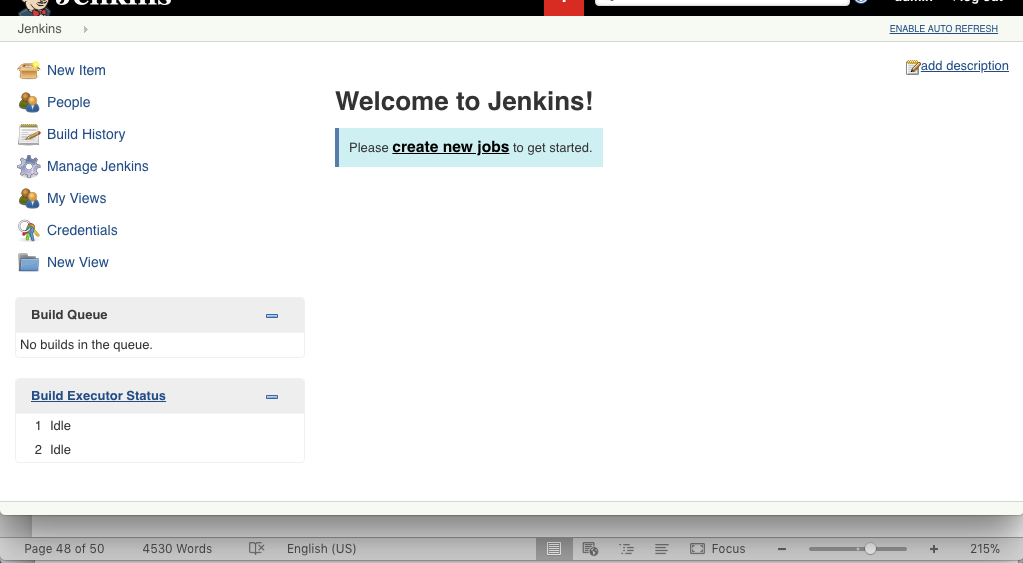
[devopsadmin@jenkins ~]$ **cat /home/devopsadmin/.jenkins/secrets/initialAdminPassword**

60c2405227c14ae2bbbadc242bd13d6e

[devopsadmin@jenkins ~]$

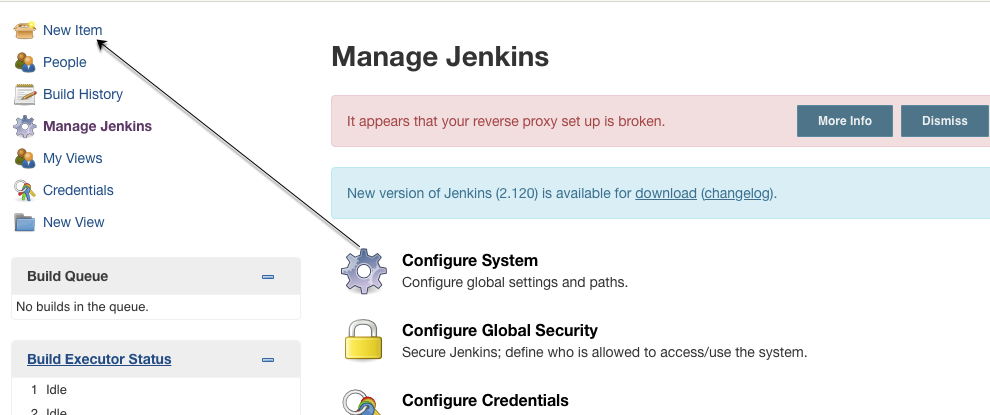


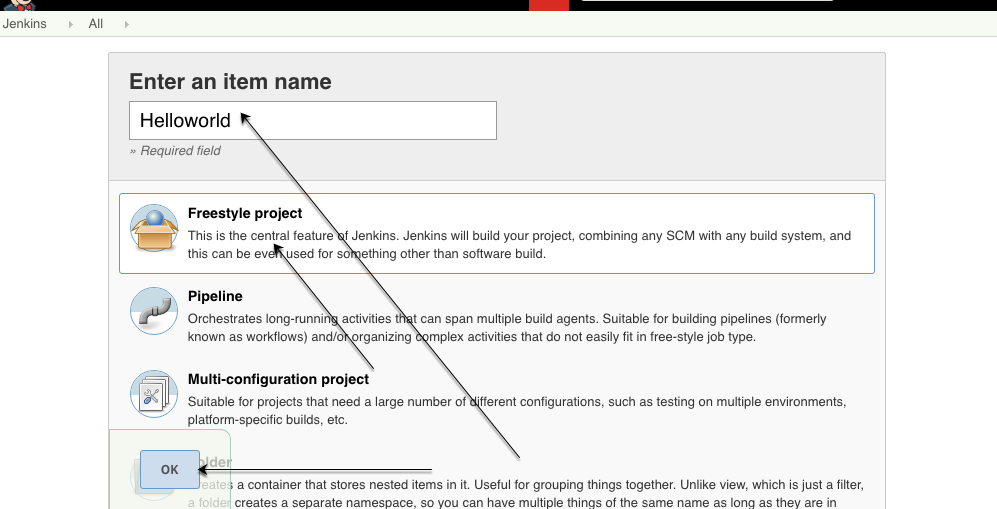




Create a Helloworld

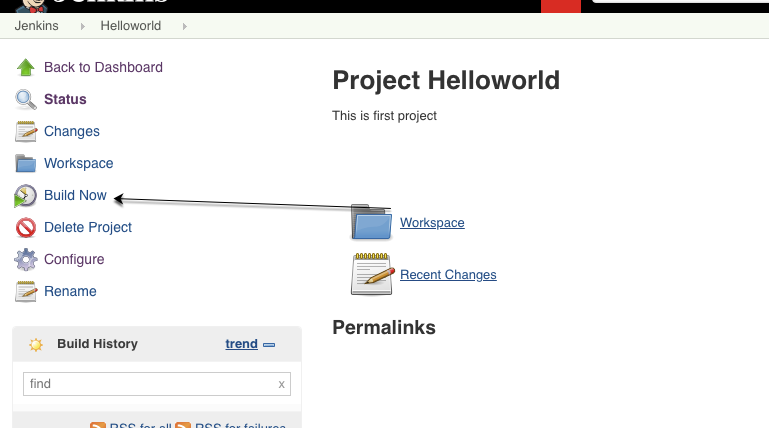
HelloWorld

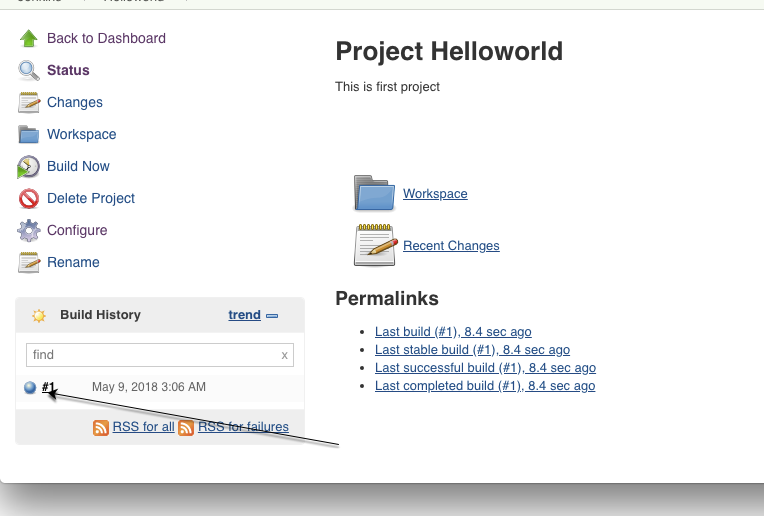




After creating the job in the Build section ---> Execute Shell

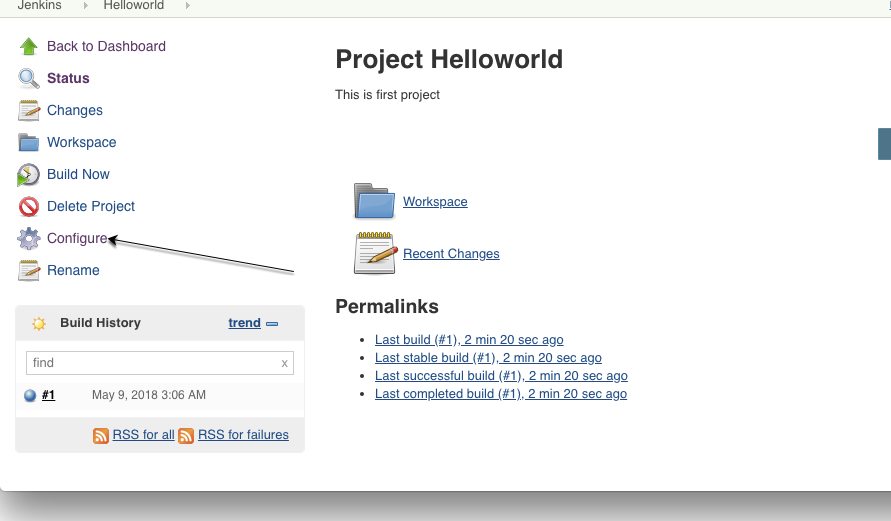


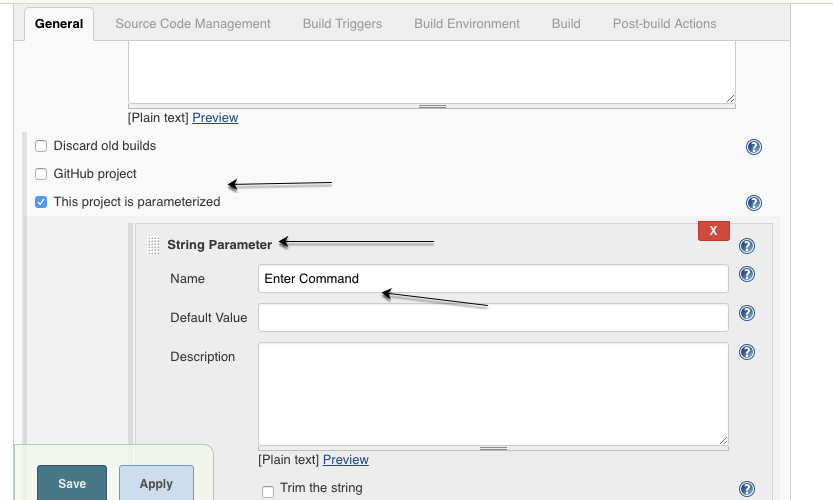


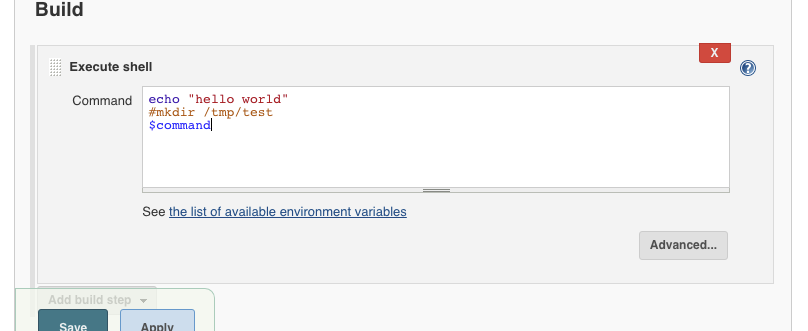


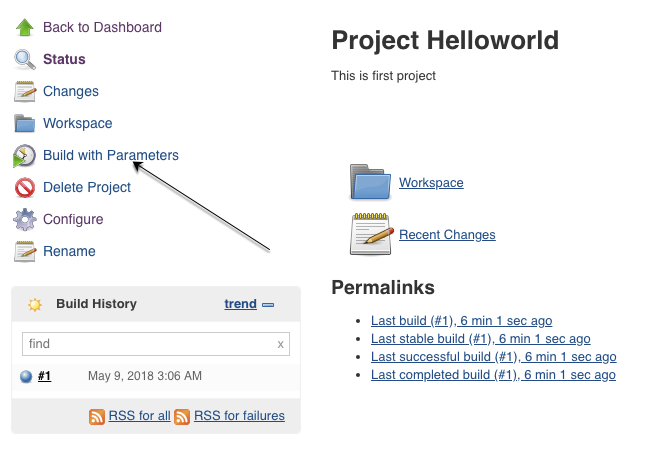


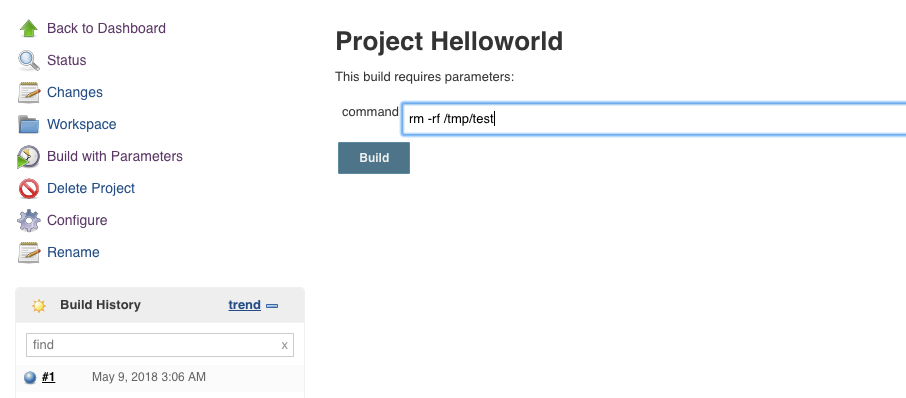
Make the Job as parameterised











Linux root user id is : 0

First process is : systemd and its number is 1.

2) Job

Build Section

#connecting to apache server.Since i have name ssh for apache it looks in jenkins /etc/hosts

**ssh apache "hostname"**

#Above command connects to apache server with devopsadmin

#Since Jenkins is running with devopsadmin user

#Configure the password less setup for devopsadmin user from jenkisn to apache.

[devopsadmin@jenkins ~]$ **ps -ef | grep -i httpd**

devopsa+ 14159 13852 0 03:28 pts/4 00:00:00 **grep --color=auto -i httpd**

[devopsadmin@jenkins ~]$

[devopsadmin@jenkins ~]$ ps -ef | grep -i httpd | grep -v grep

[devopsadmin@jenkins ~]$ ps -ef | grep -i httpd

devopsa+ 15134 13852 0 03:30 pts/4 00:00:00 grep --color=auto -i **httpd**

[devopsadmin@jenkins ~]$ ps -ef | grep -i httpd | **grep -v grep**

[devopsadmin@jenkins ~]$

[devopsadmin@jenkins scripts]$ vi servicecheck.sh

[devopsadmin@jenkins scripts]$ ./servicecheck.sh

Enter service to check

tomcat

tomcat service running, everything is fine

[devopsadmin@jenkins scripts]$ sh -x servicecheck.sh

+ echo 'Enter service to check'

Enter service to check

+ read SERVICE

java

+ ps -ef

+ grep -v grep

+ grep java

+ echo 'java service running, everything is fine'

java service running, everything is fine

**[devopsadmin@jenkins scripts]$ cat servicecheck.sh**

#!/bin/sh

echo "Enter service to check"

read SERVICE

\*#SERVICE='httpd'

if ps -ef | grep -v grep | grep $SERVICE > /dev/null

then

echo "$SERVICE service running, everything is fine"

else

echo "$SERVICE is not running"

fi

[devopsadmin@jenkins scripts]$

2)Aapche Deploy

3)Nginx Deploy

AapcheDeploy.sh

#!/bin/sh

echo "Enter service to check"

#read $SERVICE

SERVICE='httpd'

if ps -ef | grep -v grep | grep $SERVICE > /dev/null

then

echo "$SERVICE service running, everything is fine"

sudo rm -rf /var/www/html/\*

echo "Deleted the content"

echo "Downloading the webstie cotent"

cd /opt/

sudo wget https://github.com/gangireddydanam/s3-to-ec2/archive/master.zip

sudo unzip master.zip

cd s3-to-ec2-master

sudo cp -r \* /var/www/html/

else

echo "$SERVICE is not running"

fi

4)MavenBuild

Pre-req:

Git

Github

Maven

wget http://www-eu.apache.org/dist/maven/maven-3/3.5.3/binaries/apache-maven-3.5.3-bin.zip

Build: /opt/apache-maven-3.5.3/bin/mvn clean package

5)MavenDeploy

Build:

**cp /home/devopsadmin/.jenkins/workspace/maven\_deploy/target/spring3-mvc-maven-xml-hello-world-1.0-SNAPSHOT.war /opt/tomcat/webapps/maven.war**

6)**springjava-build**

**Purpose: Generates a war file . (target/artifact/binary/package)**

**Project Type: maven**

<https://github.com/kliakos/sparkjava-war-example>

Goto /tmp folder

mkdir github

Clone the repo into local.

git clone <https://github.com/kliakos/sparkjava-war-example.git>

+

Goto your github account create a repo with [sparkjava-war-example](https://github.com/kliakos/sparkjava-war-example.git)

(copy those commands into your notepad)

Goto your cloned repo.

cd /tmp/github/sparkjava-war-example

Sample file adding to local repo:

[devopsadmin@jenkins sparkjava-war-example]$ **touch test**

[devopsadmin@jenkins sparkjava-war-example]$ ls -ltr

total 8

drwxrwxr-x. 3 devopsadmin devopsadmin 18 May 14 03:27 src

-rw-rw-r--. 1 devopsadmin devopsadmin 572 May 14 03:27 README.md

-rw-rw-r--. 1 devopsadmin devopsadmin 1440 May 14 03:27 pom.xml

-rw-rw-r--. 1 devopsadmin devopsadmin 0 May 14 03:32 test

[devopsadmin@jenkins sparkjava-war-example]$ **git status**

# On branch master

# Untracked files:

# (use "git add <file>..." to include in what will be committed)

#

# test

nothing added to commit but untracked files present (use "git add" to track)

[devopsadmin@jenkins sparkjava-war-example]$ **git add .**

[devopsadmin@jenkins sparkjava-war-example]$ **git status**

# On branch master

# Changes to be committed:

# (use "git reset HEAD <file>..." to unstage)

#

# new file: test

#

[devopsadmin@jenkins sparkjava-war-example]$ **git commit -m "i have added test"**

\*\*\* Please tell me who you are.

Run

git config --global user.email "you@example.com"

git config --global user.name "Your Name"

to set your account's default identity.

Omit --global to set the identity only in this repository.

fatal: empty ident name (for <devopsadmin@jenkins.(none)>) not allowed

[devopsadmin@jenkins sparkjava-war-example]$ **git config --global user.email gangireddydanam@gmail.com**

[devopsadmin@jenkins sparkjava-war-example]$ **git config --global user.name gangireddydanam**

[devopsadmin@jenkins sparkjava-war-example]$ **git commit -m "i have added test"**

[master 786ac58] i have added test

1 file changed, 0 insertions(+), 0 deletions(-)

create mode 100644 test

[devopsadmin@jenkins sparkjava-war-example]$

[devopsadmin@jenkins sparkjava-war-example]$ **git remote add origin https://github.com/gangireddydanam/sparkjava-war-example.git**

fatal: remote origin already exists.

[devopsadmin@jenkins sparkjava-war-example]$ ls -ltra

Goto /tmp/github/sparkjava-war-example/.git

Vi config

[devopsadmin@jenkins .git]$ cat config

[core]

repositoryformatversion = 0

filemode = true

bare = false

logallrefupdates = true

[remote "origin"]

**url = https://github.com/gangireddydanam/sparkjava-war-example.git**

fetch = +refs/heads/\*:refs/remotes/origin/\*

[branch "master"]

remote = origin

merge = refs/heads/master

[devopsadmin@jenkins .git]$

[devopsadmin@jenkins sparkjava-war-example]$ **git push -u origin master**

Username for 'https://github.com': gangireddydanam

Password for 'https://gangireddydanam@github.com':

Counting objects: 23, done.

Compressing objects: 100% (17/17), done.

Writing objects: 100% (23/23), 2.76 KiB | 0 bytes/s, done.

Total 23 (delta 6), reused 0 (delta 0)

remote: Resolving deltas: 100% (6/6), done.

To https://github.com/gangireddydanam/sparkjava-war-example.git

\* [new branch] master -> master

Branch master set up to track remote branch master from origin.

[devopsadmin@jenkins sparkjava-war-example]$

Check after push in Github and your code need to be present.

Copy your project repo url. https://github.com/gangireddydanam/sparkjava-war-example.git

Goto the jenkins job

Create the job name: spring-java-build

**Project Type:** FreeStyle Project

**General section** : Github

**Source Code Management** : git and provide the url

https://github.com/gangireddydanam/sparkjava-war-example.git

Build: Execute Shell

Execute the command : /opt/maven/bin/**mvn clean package**

**Note: Install the maven before.**

Click Apply and save.

Steps to verify job:

Check the jenkin running user( jenkin installed in tomcat , check tomcat running user).

[devopsadmin@jenkins ~]$ **ps -ef | grep tomcat**

**devopsa+** 1779 1 0 May09 ? 00:08:32 /usr/bin/java -Djava.util.logging.config.file=/opt/**tomcat**/conf/logging.properties -Djava.util.logging.manager=org.apache.juli.ClassLoaderLogManager -Djdk.tls.ephemeralDHKeySize=2048 -Djava.protocol.handler.pkgs=org.apache.catalina.webresources -Dorg.apache.catalina.security.SecurityListener.UMASK=0027 -Dignore.endorsed.dirs= -classpath /opt/**tomcat**/bin/bootstrap.jar:/opt/**tomcat**/bin**tomcat**-juli.jar -Dcatalina.base=/opt/**tomcat** -Dcatalina.home=/opt/**tomcat** -Djava.io.tmpdir=/opt/**tomcat**/temp org.apache.catalina.startup.Bootstrap start

devopsa+ 3143 3110 0 03:47 pts/1 00:00:00 grep --color=auto **tomcat**

[devopsadmin@jenkins ~]$

Goto the devopsadmin home directory.

Cd +Enter

Cd ~

Cd /home/devopsadmin

Run the ls -ltra

[devopsadmin@jenkins .jenkins]$ ls -ltr

total 64

-rw-r-----. 1 devopsadmin devopsadmin 64 May 7 05:36 secret.key

-rw-r-----. 1 devopsadmin devopsadmin 0 May 7 05:36 secret.key.not-so-secret

drwxr-x---. 2 devopsadmin devopsadmin 6 May 7 05:36 nodes

-rw-------. 1 devopsadmin devopsadmin 1712 May 7 05:36 identity.key.enc

drwxr-x---. 2 devopsadmin devopsadmin 24 May 7 05:36 userContent

drwxr-x---. 3 devopsadmin devopsadmin 19 May 7 05:36 logs

-rw-r-----. 1 devopsadmin devopsadmin 94 May 7 05:36 jenkins.CLI.xml

-rw-r-----. 1 devopsadmin devopsadmin 370 May 7 05:37 hudson.plugins.git.GitTool.xml

drwxr-x---. 2 devopsadmin devopsadmin 6 May 7 05:37 workflow-libs

drwxr-x---. 74 devopsadmin devopsadmin 8192 May 7 05:38 plugins

drwxr-x---. 3 devopsadmin devopsadmin 20 May 7 05:38 users

-rw-r-----. 1 devopsadmin devopsadmin 190 May 7 05:38 jenkins.model.JenkinsLocationConfiguration.xml

-rw-r-----. 1 devopsadmin devopsadmin 5 May 7 05:39 jenkins.install.UpgradeWizard.state

-rw-r-----. 1 devopsadmin devopsadmin 5 May 7 05:39 jenkins.install.InstallUtil.lastExecVersion

drwx------. 4 devopsadmin devopsadmin 4096 May 7 05:43 secrets

-rw-r-----. 1 devopsadmin devopsadmin 130 May 9 17:26 queue.xml.bak

-rw-r-----. 1 devopsadmin devopsadmin 156 May 9 17:40 hudson.model.UpdateCenter.xml

-rw-r-----. 1 devopsadmin devopsadmin 907 May 9 17:40 nodeMonitors.xml

**-rw-r-----. 1 devopsadmin devopsadmin 1779 May 9 17:40 config.xml**

**drwxr-x---. 9 devopsadmin devopsadmin 123 May 9 17:43 workspace**

-rw-r-----. 1 devopsadmin devopsadmin 130 May 11 04:12 queue.xml

drwxr-x---. 2 devopsadmin devopsadmin 182 May 13 17:40 updates

**drwxr-x---. 11 devopsadmin devopsadmin 176 May 14 03:42 jobs**

[devopsadmin@jenkins .jenkins]$ pwd

/home/devopsadmin/.jenkins

[devopsadmin@jenkins .jenkins]$

drwxr-x---. 11 devopsadmin devopsadmin 176 May 14 03:42 **jobs**

[devopsadmin@jenkins .jenkins]$ pwd

/home/devopsadmin/.jenkins

[devopsadmin@jenkins .jenkins]$ ls -ltr jobs/

total 0

drwxr-x---. 3 devopsadmin devopsadmin 101 May 8 16:05 nginxjob

drwxr-x---. 3 devopsadmin devopsadmin 101 May 8 16:08 apachejob

drwxr-x---. 3 devopsadmin devopsadmin 101 May 9 16:18 helloworld

drwxr-x---. 3 devopsadmin devopsadmin 101 May 9 16:49 apache

drwxr-x---. 3 devopsadmin devopsadmin 101 May 9 17:04 nginx\_deploy

drwxr-x---. 3 devopsadmin devopsadmin 101 May 9 17:23 maven\_build

drwxr-x---. 3 devopsadmin devopsadmin 61 May 9 17:40 apache\_deploy

drwxr-x---. 3 devopsadmin devopsadmin 101 May 11 04:11 maven\_deploy

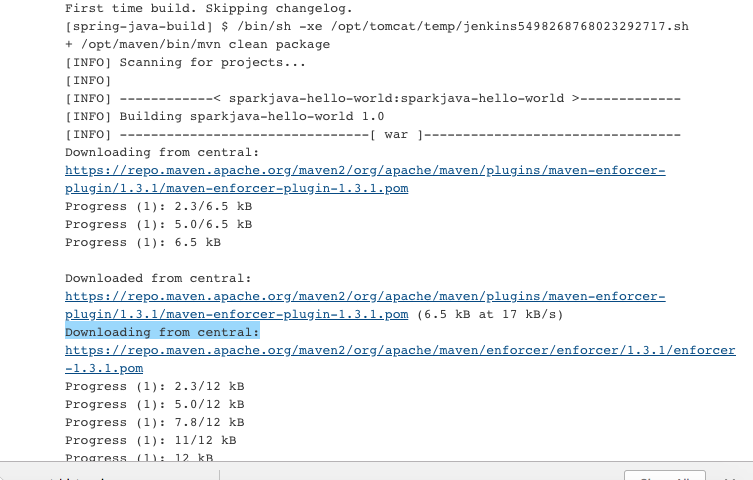
drwxr-x---. 3 devopsadmin devopsadmin 38 May 14 03:46 **spring-java-build**

[devopsadmin@jenkins .jenkins]$

**Run the job.**

**Goto the console output**

**Check plugins downloading location.**

****

**And search .war file .**

**Building war: /home/devopsadmin/.jenkins/workspace/spring-java-build/target/sparkjava-hello-world-1.0.war**

7)sping-java-deploy

Pre-req: ec2 with tomcat(java+tomcat)

Check your tomcat: http://<public ip >:8080

Connectivity between jenkins and tomact server.

Ping

Telnet tomcatpublicip 22

Setup passwrod less setup beween jenkins and tomcat.

[devopsadmin@**jenkins** ~]$ **ssh 172.31.85.37**

Last login: Wed May 9 18:48:52 2018 from ip-172-31-82-12.ec2.internal

[devopsadmin@**tomcat** ~]$

If Above command success full then you are good to go with the job.

Project step:

Name: sping-java-deploy

Project type; free-style-project

Build : Execute shell

**scp /home/devopsadmin/.jenkins/workspace/spring-java-build/target/sparkjava-hello-world-1.0.war devopsadmin@tomcat:/opt/tomcat/webapps/sparkjava.war**

Run the build

After build successfull.Test the tomcat url for the deployed war file.http://**34.226.246.192**:8080/sparkjava/hello

Incase build fail:

Ssh setup

Otther ec2-user

Check keys

**Setting up CI And CD**

[devopsadmin@jenkins java]$ ls -ltr

total 4

-rw-rw-r--. 1 devopsadmin devopsadmin 283 May 14 03:27 **HelloWorld.java**

[devopsadmin@jenkins java]$ pwd

**/tmp/github/sparkjava-war-example/src/main/java**

[devopsadmin@jenkins java]$

import spark.servlet.SparkApplication;

2

3 import static spark.Spark.get;

4

5 public class HelloWorld implements SparkApplication {

6 public static void main(String[] args) {

7 new HelloWorld().init();

8 }

9

10 @Override

11 public void init() {

12 get("/hello", (req, res) -> "Hello World");

13 **System.out.println("this is test");**

14 }

15 }

~

~

~

[devopsadmin@jenkins sparkjava-war-example]$ **pwd**

/tmp/github/sparkjava-war-example

[devopsadmin@jenkins sparkjava-war-example]$ **git status**

# On branch master

# Changes not staged for commit:

# (use "git add <file>..." to update what will be committed)

# (use "git checkout -- <file>..." to discard changes in working directory)

#

# modified: src/main/java/**HelloWorld.java**

#

no changes added to commit (use "git add" and/or "git commit -a")

[devopsadmin@jenkins sparkjava-war-example]$

webhooks:

When you push the code into SCM , it will trigger an event to jenkins(webhooks).(SCM to jenkins)

Or

Poll SCM:

Jenkins can poll SCM continuously to check if any changes at Jenkins. ( Jenkins to SCM)

Poll SCM:

Goto the jenkins build job-->configure section-->**Build Triggers ,**check **Poll SCM.**

Update as below.

\* \* \* \* \*

#min hour dayofmonth month weekofday

#0-59 0-23 1-31 1-12 0-6

Next to run the deploy job after build.

Goto **Post-build** action and select **Build other projects.**

**Goto the code.**

**/tmp/github/sparkjava-war-example/src/main/java**

**Vi HelloWorld.java**

**Add one line number at 14**

**System.out.println(“test1”);**

**Check the git status**

**Git add .**

**Git commit -m “comit”**

**Git status**

**Git push**

**Wait for cerrtain time and check your build will trigger.**

**Build job(CI)and Deplyment (CD).**

**Test cases:**

**Check the page wroking or not.**

**If works page , check helloworld.**

**If all OK.other wise build failed ( deploment)**

We will upload this war into Nexus