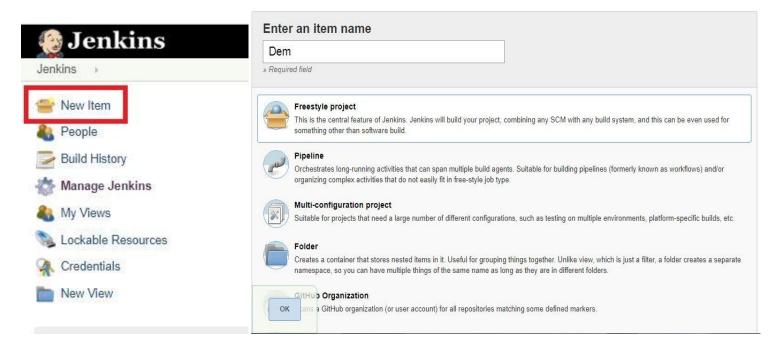
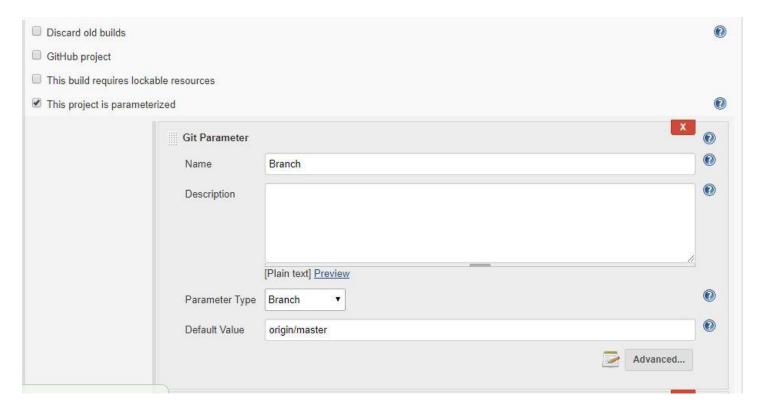
PARAMETER BUILD

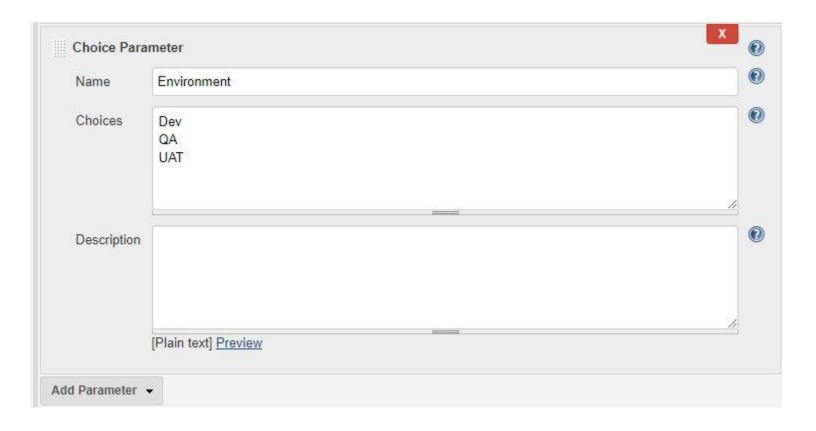
We can get input from deployer and use the value as variable in project

Step1: Click 'new item' in the dashboard. It will redirect to wizard provide 'item name' and type of project select 'Freestyle Project'.

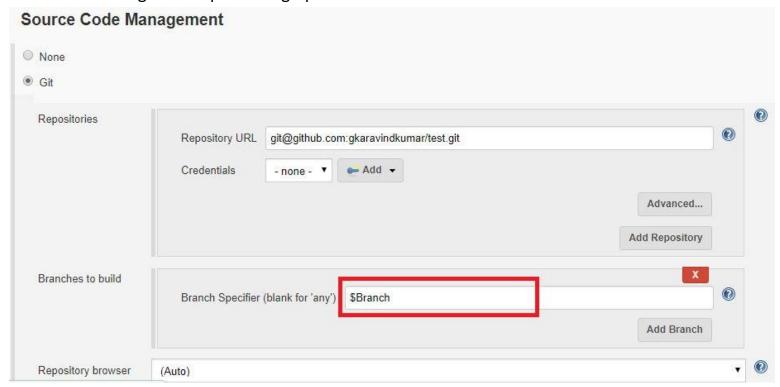


Step2: Once the freestyle project wizard open provide the description and add the parameter required here we used Git parameter and Environment.

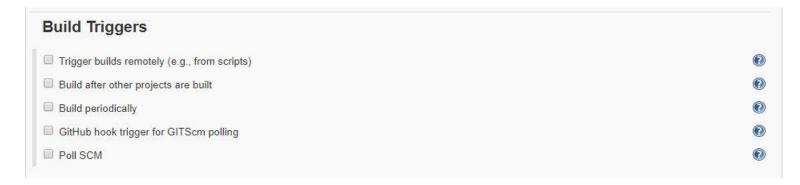




Step-3: Enter the source code details. (Refer the old freestyle project document for Git integration). Here we need to get the input from git parameter.



Step-4: Use Build Triggers this if needed (we have separate Lab document on Build triggers)

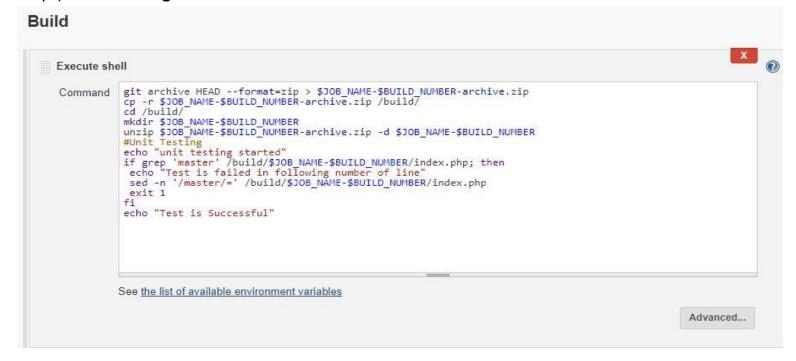


Step-5: We can use the Build Environment option if needed



Step-6: In Build option we have multiple options, I select "**Execute shell**" to execute a shell script. This script will bring the build artifacts from GIT to our Jenkins server and place those artifacts in folder **/build** and extract the artifacts then run **Unit Testing**.

Unit testing will fail if index.php have any word as master (demo testing you can add your own script). If **unit testing fails the build will fail**.



Demo Script here(Make our own script based on your environment)

```
git archive HEAD --format=zip > $JOB_NAME-$BUILD_NUMBER-archive.zip
cp -r $JOB_NAME-$BUILD_NUMBER-archive.zip /build
cd /build/
mkdir $JOB_NAME-$BUILD_NUMBER
unzip $JOB_NAME-$BUILD_NUMBER-archive.zip -d $JOB_NAME-$BUILD_NUMBER
#Unit Testing
echo "unit testing started"
if grep 'master' /build/$JOB_NAME-$BUILD_NUMBER/index.php; then
echo "Test is failed in following number of line"
sed -n '/master/=' /build/$JOB_NAME-$BUILD_NUMBER/index.php
exit 1
fi
echo "Test is Successful"
```

Step-7: Moving forward to deployment we need to add hosts/server in Jenkins (web servers where we are going to do the deployments).

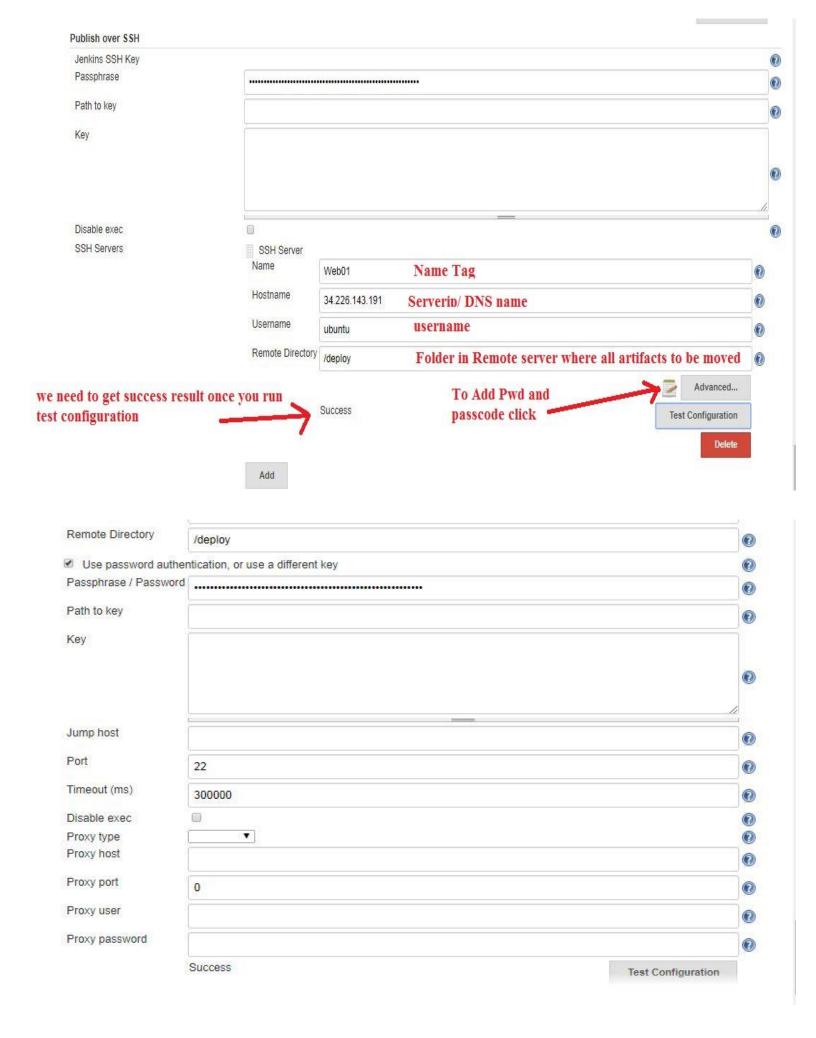
To Add ssh host/ Server we need to add plugins (Publish over ssh). Take a look at Jenkins environment setup document for adding plugins.

To add ssh host install Publish over ssh plugin.

Go to Jenkins → Manage Jenkins → Configure systems

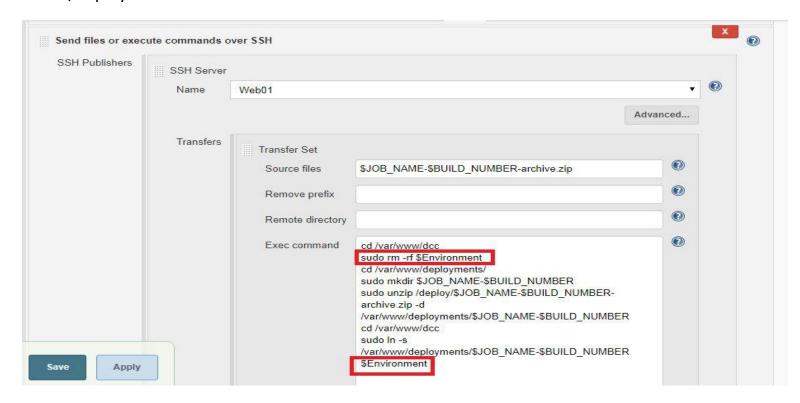


Go to the bottom of Jenkins page you will see Publish over SSH



Step-8: Once you added the server in configure systems then return to your Build plan and now in Build options select "**Send files or execute commands over ssh**". You will see the host added there in scroll down list, select your server and other options and "**Execute shell**" which should be executed in remote server.

In the script we need to get the value from Environment parameter so that the script will create/deploy the environment.





The above script will extract the source artifacts from /deploy to /deployments/\$JOB_NAME-\$BUILD_NUMBER and then create simlink (softlink) \$Environment inside dcc which pointing to /deployments/\$JOB_NAME-\$BUILD_NUMBER so that current version will be loaded in site.

Now click Build with Parameter option and run the build

