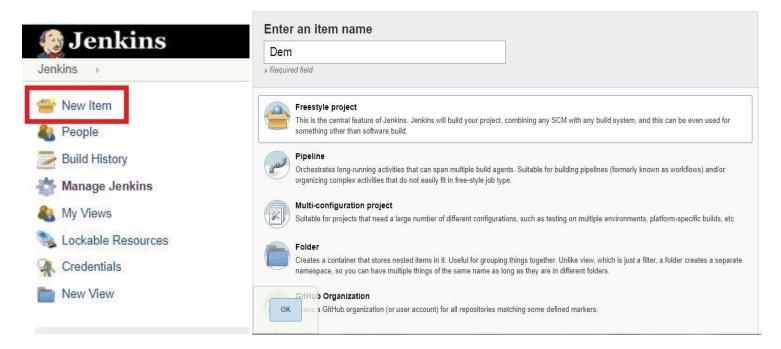
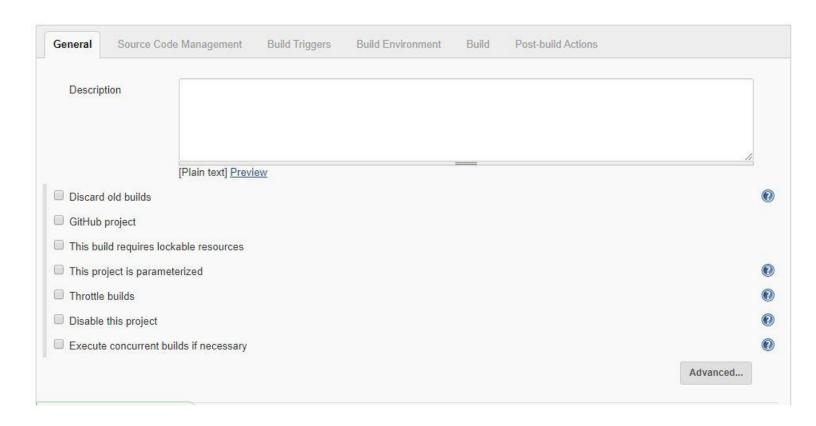
Jenkins LAB

Windows .Net Deployment

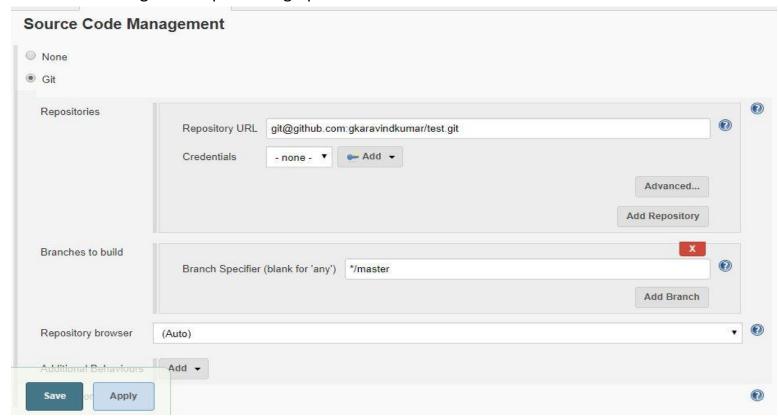
Step1: Click 'new item' in the dashboard. It will redirect to wizard provide 'item name' and type of project select 'Freestyle Project'.



Step2: Once the freestyle project wizard open provide the description.



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**.

```
Execute shell

Command

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 unzip $JOB_NAME-$BUILD_NUMBER unzip $JOB_NAME-$BUILD_NUMBER unzip $JOB_NAME-$BUILD_NUMBER unzip $JOB_NAME-$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"

See the list of available environment variables

Advanced...
```

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

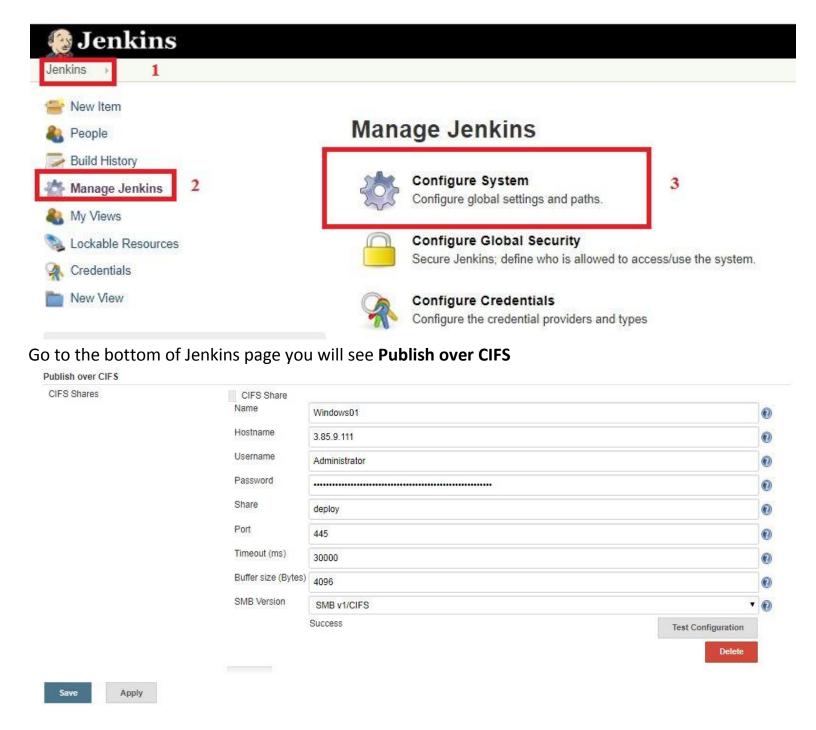
```
git archive HEAD --format=zip > $JOB_NAME-$BUILD_NUMBER-archive.zip cp -r $JOB_NAME-$BUILD_NUMBER-archive.zip /build cd /build/ mkdir $JOB_NAME-$BUILD_NUMBER unzip $JOB_NAME-$BUILD_NUMBER-archive.zip -d $JOB_NAME-$BUILD_NUMBER #Unit Testing echo "unit testing started" if grep 'master' /build/$JOB_NAME-$BUILD_NUMBER/index.php; 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.

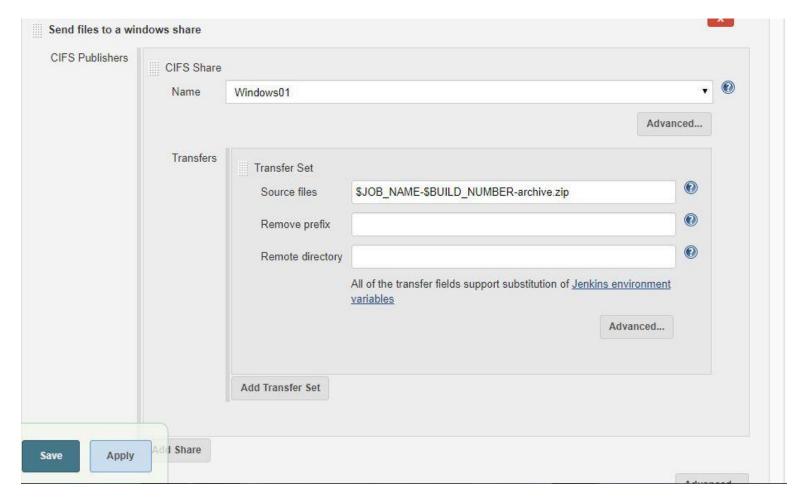
To add ssh host install Publish over ssh plugin.

Go to Jenkins → Manage Jenkins → Configure systems



Provide username Password, Open Port 445 and create the folder deploy and share in n/w.

Step-8: Once you added the server in configure systems then return to your Build plan and now in Build options select "**Send files to windows share**". You will see the host added there in scroll down list, select your server.



Step-9: Go to windows server (web server)

Install 7 zip and open ssh to invoke the script from Jenkins server.

Go to the location c:\users\<username>\ and create build.bat file and use the below deployment steps in script.

```
set PATH=C:\Program
Files\OpenSSH\bin;C:\Windows\system32;C:\Windows\C:\Windows\System32\Wbem;C:\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\Sys
```

Step 10: Invoke the bat script from Jenkins using open ssh command.

sshpass -p "<password>" ssh -o StrictHostKeyChecking=no username@<ipaddress> "./build.bat"



Run the build option and check the deployment.