




MASTER SLAVE SETUP


1. Access Jenkins Console [https:// serverip:8080](https://serverip:8080)
2. Under Jenkins Dashboard click on “**Manage Jenkins**” and in the next screen click on “**Manage Nodes**”


Jenkins ▶


 [New Item](#)


 [People](#)


 [Build History](#)


 [Project Relationship](#)


 [Check File Fingerprint](#)

 [Manage Jenkins](#)


 [Lockable Resource](#) Manage Jenkins


 [Credentials](#)



















 [New View](#)

Build Queue 

No builds in the queue.

Build Executor Status 

All **GofBuildView** 

S	W	Name ↓
		CICD_Pipeline1
		CICID_Pipeline2
		Gof_Build
		Gof_Deploy
		Gof_Test
		Master_Slavetest
		mvn_app
		Parameterized build
		Parameterized Trigger

Jenkins ▸



Check your resource utilization and see if you



Jenkins CLI

Access/manage Jenkins from your shell, or fro



Script Console

Executes arbitrary script for administration/tro



Manage Nodes and Clouds

Add, remove, conf Manage Nodes and Clouds S

3. Give the Node Name, Select Permanent Agent and perform the below steps as given in the screenshot. Once done, Click Save.



Jenkins

Jenkins ▸ Nodes ▸



[Back to Dashboard](#)



[Manage Jenkins](#)



New Node



[Configure Clouds](#)



[Node Monitoring](#)

Build Queue

No builds in the queue.

Build Executor Status

Node name

☒ Permanent Agent

Adds a plain, permanent agent as dynamic provisioning. Selected agent managed outside Jenkins, etc.

☐ Copy Existing Node

Copy from

OK

Fill the below details

Remote Directory : Path on the Slave node where the job executes

Labels: It's a grouping of Nodes (Ex: UAT nodes, PROD nodes, Training etc)

Name	SlaveNode
Description	
# of executors	2
Remote root directory	/var/jenkins
Labels	TrainingDomain
Usage	Only build jobs with label expressions matching
Launch method	Launch agent by connecting it to the master
	<input type="checkbox"/> Disable WorkDir
Custom WorkDir path	
Internal data directory	remoting
	<input type="checkbox"/> Fail if workspace is
	<input checked="" type="checkbox"/> Use WebSocket


[Save](#)

Jenkins > Nodes >

 [Back to Dashboard](#)



 [Manage Jenkins](#)

 [New Node](#)

 [Configure Clouds](#)

 [Node Monitoring](#)

Build Queue

S	Name ↓	Architecture	Clock Difference	Free Disk Space
	master	Linux (amd64)	In sync	6.22 GB
	SlaveNode		N/A	N/A
	Data obtained	4 ms	5 min 1 sec	5 min 1 se


4. Click on the SlaveNode and download the agent.jar on your system as shown below and copy into the slave node under Jenkins



Agent SlaveNode

Mark this node temporarily offline

Connect agent to Jenkins one of these ways:

-  **Launch** Launch agent from browser
- Run from agent command line:

```
java -jar agent.jar -jnlpUrl http://3.84.145.85:8080/computer/SlaveNode/slave-agent.jnlp -secret  
5900dd143cd544eddf9a87f19c59d73d3bf5b67897a6f4c064f517b4f91fa75a -workDir "/var/jenkins"
```

Run from agent command line, with the secret stored in a file:

```
echo 5900dd143cd544eddf9a87f19c59d73d3bf5b67897a6f4c064f517b4f91fa75a > secret-file  
java -jar agent.jar -jnlpUrl http://3.84.145.85:8080/computer/SlaveNode/slave-agent.jnlp -secret @secret-file -workDir  
"/var/jenkins"
```

Labels

[TrainingDomain](#)

Projects tied to SlaveNode

None

5. Use wget command to download the file under Jenkins directory

```
[root@ip-172-31-82-130 jenkins]# wget http://3.84.145.85:8080/jnlpJars/agent.jar  
--2020-05-03 14:58:25-- http://3.84.145.85:8080/jnlpJars/agent.jar  
Connecting to 3.84.145.85:8080... connected.  
HTTP request sent, awaiting response... 200 OK  
Length: 1522914 (1.5M) [application/java-archive]  
Saving to: 'agent.jar'  
  
agent.jar                               100%[=====]  
2020-05-03 14:58:25 (69.2 MB/s) - 'agent.jar' saved [1522914/1522914]  
  
[root@ip-172-31-82-130 jenkins]# ls -ltr  
total 1488  
-rw-r--r-- 1 root root 1522914 May  3 14:44 agent.jar
```

6 Execute below command to establish connection between master and slave node.

```
java -jar agent.jar -jnlpUrl  
http://3.84.145.85:8080/computer/SlaveNode/slave-agent.jnlp -workDir  
"/var/jenkins"
```

7. Now you can see Slave Node is online on the Jenkins Console

8. Let us now execute Sample Job on Slave Node as given below

1. Under Jenkins Dashboard, Click on New Item
2. Name the project as Master_Slave Setup and choose Pipeline as the project type
3. Add below script in Pipeline Tab

```
pipeline {  
    agent {label 'TrainingDomain'}  
  
    stages {  
        stage('Hello') {  
            steps {  
                sh 'touch hello.txt'  
            }  
        }  
    }  
}
```

4. Click on Apply and Build the Job
5. You can see the below output which says its executed on Slave Node

```
Started by user unknown or anonymous  
Running in Durability level: MAX_SURVIVABILITY  
[Pipeline] Start of Pipeline  
[Pipeline] node  
Running on SlaveNode in /var/jenkins/workspace/Master_Slavetest  
[Pipeline] {  
[Pipeline] stage  
[Pipeline] { (Hello)  
[Pipeline] sh  
+ touch hello.txt  
[Pipeline] }  
[Pipeline] // stage  
[Pipeline] }  
[Pipeline] // node  
[Pipeline] End of Pipeline  
Finished: SUCCESS
```