

# Experiment 5

## Jenkins Master-Slave

### Aim

To understand the Master-Slave methodology of Jenkins

### Steps

#### 1. Create a Slave Node on Jenkins

- Go to Dashboard > Manage Jenkins > Nodes > New Node
- Give a name to the node, select Permanent Agent & click Create

#### New node

Node name

Type

☒ Permanent Agent

- Provide the root directory path & label

Remote root directory ?

Labels ?

- Provide Custom WorkDir path

Custom WorkDir path ?



Internal data directory ?

- Run the following commands at the location of root directory




```
→ viper curl -sO http://localhost:8080/jnlpJars/agent.jar
→ viper java -jar agent.jar -jnlpUrl http://localhost:8080/computer/viper/jenkins-agent.jnlp -secret 3c6c8978d103bab64fd8ca17e81bf7651d7444ca0cada8fa90c84816aab1aafd -workDir "/home/ayroid/Documents/Work/College/SEM5/CICD/lab/HiteshSir/exp5/viper"
```

```
Oct 06, 2023 5:01:18 PM hudson.remoting.jnlp.Main$CuiListener status
INFO: Remote identity confirmed: 12:f1:a0:a1:1c:4f:86:84:fc:d6:c6:36:bb:99:5c:2d
Oct 06, 2023 5:01:18 PM hudson.remoting.jnlp.Main$CuiListener status
INFO: Connected
```

f. Your agent should be up and running

Build Queue	 Built-In Node	Linux (amd64)	In sync	327.55 GB	4.00 GB	327.55 GB
	 viper		N/A	N/A	N/A	N/A
	last checked 25 sec 25 sec 25 sec 25 sec 25 sec					

2. Create another agent following the above steps

Node Monitoring	 Built-In Node	Linux (amd64)	In sync	327.55 GB	4.00 GB	327.55 GB
	 viper	Linux (amd64)	In sync	327.55 GB	4.00 GB	327.55 GB
	 yoru	Linux (amd64)	In sync	327.55 GB	4.00 GB	327.55 GB
	last checked 1 min 50 sec 1 min 50 sec 1 min 50 sec 1 min 50 sec 1 min 50 sec					

3. Create a Maven Project Pipeline and restrict it to run on one of the agents

Post Steps

Build Settings

Post-build Actions

☒ Restrict where this project can be run

Label Expression

viper

Label viper matches 1 node. Permissions or other restrictions provided by plugins may further reduce that list.

4. Run a build to verify the pipeline

Manage Jenkins			CICD-LAB5-AGENT-1	2 min 21 sec #1	N/A	16 sec	
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5. Create another Maven Project Pipeline on the 2nd agent

Post Steps

Build Settings

Post-build Actions

☒ Restrict where this project can be run

Label Expression

yoru

Label yoru matches 1 node. Permissions or other restrictions provided by plugins may further reduce that list.

6. Run a build to verify both the agents

 Manage Jenkins

 My Views





CICD-LAB5-AGENT-1

22 sec  
#2

N/A

7.9 sec







CICD-LAB5-AGENT-2

22 sec  
#1

N/A

14 sec

