

Experiment 5

Jenkins Master-Slave

Aim

To understand the Master-Slave methodology of Jenkins

Steps

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

New node

Node name

Type



Permanent Agent

Adds a plain, permanent agent to Jenkins. This is called "permanent" because it is always available, unlike other agent types such as dynamic provisioning. Select this type if no other agent types are available, such as virtual machines managed outside Jenkins, etc.

Create

- c. Provide the root directory path and label

Remote root directory ?

Labels ?

d. Provide Custom WorkDir path

Custom WorkDir path ?

/home/lazypunk/Desktop/COLLEGE/LAB/CICD/EXPERIMENTS/EXP5_JENKINS/stiffler

Internal data directory ?


remoting

e. Run the following commands at the location of root directory

```
lazypunk@pop-os:~/Desktop/COLLEGE/LAB/CICD/EXPERIMENTS/EXP5_JENKINS/stiffler$ pwd
/home/lazypunk/Desktop/COLLEGE/LAB/CICD/EXPERIMENTS/EXP5_JENKINS/stiffler
lazypunk@pop-os:~/Desktop/COLLEGE/LAB/CICD/EXPERIMENTS/EXP5_JENKINS/stiffler$ curl -sO http://localhost:8080/jnlpJars/agent.jar
lazypunk@pop-os:~/Desktop/COLLEGE/LAB/CICD/EXPERIMENTS/EXP5_JENKINS/stiffler$ java -jar agent.jar -jnlpUrl http://localhost:8080/comput
92e60fe0e632a32295d266c5204bf58246216066716f50202 -workDir "/home/lazypunk/Desktop/COLLEGE/LAB/CICD/EXPERIMENTS/EXP5_JENKINS/stiffler"
```




```
INFO: websocket connection open
Oct 26, 2023 7:58:59 PM hudson.remoting.jnlp.Main$CuiListener status
INFO: Connected
```

f. Your agent should be up and running

 **Stiffler**

Data obtained

2. Create another agent following the above steps

S	Name ↓	Architecture
	Built-In Node	Linux (amd64)
	jojo	Linux (amd64)
	Stiffler	Linux (amd64)
Data obtained		3.5 sec

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

		CICD-LAB-5 (jojo)
		CICD-LAB-5 (stiffler)