



Parshvanath Charitable Trust's
A. P. SHAH INSTITUTE OF TECHNOLOGY
(Approved by AICTE New Delhi & Govt. of Maharashtra, Affiliated to University of Mumbai)
(Religious Jain Minority)

Department of Information Technology

Academic Year: 2021-22

Semester: V

Class / Branch: IT

Subject: DevOps Lab

Name of Instructor: Neha Deshmukh

Name of Student: Soham Dalvi

Student ID: 21104010

Date of Performance: 12/10/23

Date of Submission: 12/10/23

Experiment No. 6

Aim: To understand Jenkins Master-Slave Architecture and scale your Jenkins standalone implementation by implementing slave nodes

Output :

```
apsit@apsit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~$ cd Desktop/  
apsit@apsit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~/Desktop$ mkdir Soham_slave  
apsit@apsit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~/Desktop$ ls | grep So  
Soham_slave
```

Name ?

Soham_slave

Description ?

this is exp6

Plain text [Preview](#)

Number of executors ?

1

Remote root directory ?

/home/apsit/Desktop/Soham_slave

Launch method ?

Launch agent by connecting it to the controller

☐ Disable WorkDir ?

Custom WorkDir path ?

/home/apsit/Desktop/Soham_slave

Internal data directory ?

remoting

☐ Fail if workspace is missing ?

☐ Use WebSocket ?

Advanced ▾

Availability ?

Keep this agent online as much as possible

Description

jaojfospiejpsorhgidurgaipurhgiuhrg

Plain text [Preview](#)

- ☐ Discard old builds ?
- ☐ This project is parameterized ?
- ☐ Throttle builds ?
- ☐ Execute concurrent builds if necessary ?
- ☒ Restrict where this project can be run ?

Label Expression ?

Soham_slave

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

Advanced ▾

Build Steps

≡ **Execute shell** ?



Command

See [the list of available environment variables](#)

```
echo " slave is running "
```

Advanced ▾

Add build step ▾

```

apsit@apsit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~$ curl -sO http://localhost:8080/jnlpJars/agent.jar
java -jar agent.jar -jnlpUrl http://localhost:8080/computer/Soham%SFslave/jenkins-agent.jnlp -workDir "/home/apsit/Desktop/Soham_slave"
Oct 12, 2023 2:47:24 PM org.jenkinsci.remoting.engine.WorkDirManager initializeWorkDir
INFO: Using /home/apsit/Desktop/Soham_slave/remoting as a remoting work directory
Oct 12, 2023 2:47:24 PM org.jenkinsci.remoting.engine.WorkDirManager setupLogging
INFO: Both error and output logs will be printed to /home/apsit/Desktop/Soham_slave/remoting
Oct 12, 2023 2:47:24 PM hudson.remoting.jnlp.Main createEngine
INFO: Setting up agent: Soham_slave
Oct 12, 2023 2:47:24 PM hudson.remoting.Engine startEngine
INFO: Using Remoting version: 3148.v532a_7e715ee3
Oct 12, 2023 2:47:24 PM org.jenkinsci.remoting.engine.WorkDirManager initializeWorkDir
INFO: Using /home/apsit/Desktop/Soham_slave/remoting as a remoting work directory
Oct 12, 2023 2:47:24 PM hudson.remoting.jnlp.Main$CuiListener status
INFO: Locating server among [http://localhost:8080/]
Oct 12, 2023 2:47:24 PM org.jenkinsci.remoting.engine.JnlpAgentEndpointResolver resolve
INFO: Remoting server accepts the following protocols: [JNLP4-connect, Ping]
Oct 12, 2023 2:47:24 PM hudson.remoting.jnlp.Main$CuiListener status
INFO: Agent discovery successful
Agent address: localhost
Agent port: 37297
Identity: 09:9e:3a:e2:3b:bb:42:67:dc:80:b1:17:fd:b6:20:90
Oct 12, 2023 2:47:24 PM hudson.remoting.jnlp.Main$CuiListener status
INFO: Handshaking
Oct 12, 2023 2:47:24 PM hudson.remoting.jnlp.Main$CuiListener status
INFO: Connecting to localhost:37297
Oct 12, 2023 2:47:24 PM hudson.remoting.jnlp.Main$CuiListener status
INFO: Trying protocol: JNLP4-connect
Oct 12, 2023 2:47:24 PM org.jenkinsci.remoting.protocol.impl.BIONetworkLayer$Reader run
INFO: Waiting for ProtocolStack to start.
Oct 12, 2023 2:47:24 PM hudson.remoting.jnlp.Main$CuiListener status
INFO: Remote identity confirmed: 09:9e:3a:e2:3b:bb:42:67:dc:80:b1:17:fd:b6:20:90
Oct 12, 2023 2:47:24 PM hudson.remoting.jnlp.Main$CuiListener status
INFO: Connected

```



Console Output

```

Started by user unknown or anonymous
Running as SYSTEM
Building remotely on Soham_slave in workspace /home/apsit/Desktop/Soham_slave/workspace/Dl_exp6
[Dl_exp6] $ /bin/sh -xe /tmp/jenkins15539217968338826894.sh
+ echo slave is running
slave is running
Finished: SUCCESS

```

Conclusion : In this experiment we have implemented as master and slave architecture and scaled our first jenkins in standalone implementation by implementing slave nodes and creating a folder in the workplace.