Experiment 5 Working with Jenkins Agents

Objective: Running a Maven Project on a Jenkins Slave Agent.

- 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

| New node Node name | |
|---------------------|--|
| | |
| Туре | |
| 1999 | Permanent Agent |
| | Adds a plain, permanent agent to Jenkins. This is called "permanent" because Jenkins doesn't provide higher level of integration with these agents, such as dynamic provisioning. Select this type if no other agent types apply — for example such as when you are adding a physical computer, virtual machines managed outside Jenkins, etc. |
| | ovide the root directory path and label. |
| | ote root directory ? |
| /ho | ome/psyche/jenkins/agent1 |
| Labe | ls ? |
| Age | ent1 |
| • | elect Launch Method and custom Work Dir Path |
| Laur | nch agent by connecting it to the controller |
| | Disable WorkDir ? |
| (| Custom WorkDir path ? |
| 11 | /home/psyche/jenkins/agent1 |

(e) Run the provided command to the location of the root directory.

```
psyche@pop-os:~/jenkins/agent1$ curl -s0 http://localhost:8080/jnlpJars/agent.ja
r;java -jar agent.jar -jnlpUrl http://localhost:8080/computer/Agent1/jenkins-age
nt.jnlp -secret 6c20fbe393e8e84dbe5b26b0388a4254a3d28eef6921564c5d16b9d4c4aa6620
-workDir "/home/psyche/jenkins/agent1"
Oct 17, 2023 9:25:20 PM org.jenkinsci.remoting.engine.WorkDirManager initializeW
orkDir
INFO: Using /home/psyche/jenkins/agent1/remoting as a remoting work directory
Oct 17, 2023 9:25:21 PM org.jenkinsci.remoting.engine.WorkDirManager setupLoggin
```

(f) Agent should be up and running now.



2. Create a Maven Project and Restrict it to running on the Agents created.



3. Run the build to verify pipeline is running on Agent1:



Running as SYSTEM

Building remotely on Agent1 (slave1) in workspace /home/psyche/jenkins/agent1/workspace/CICDLab5-Slave1

Selected Git installation does not exist. Using Default

The recommended git tool is: NONE

No credentials specified