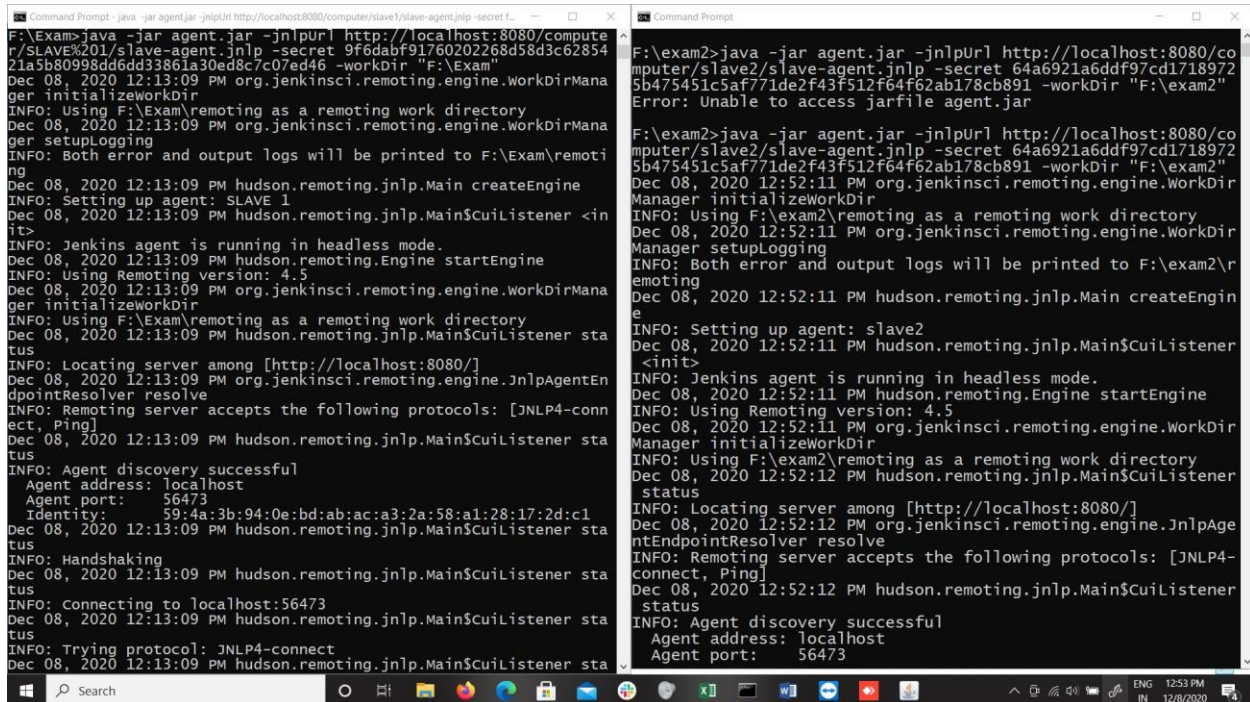


Implementing Master/Slave Architecture in Jenkins and Create 1 Master and 2 Slaves in Jenkins

- Run both the Slave on CMD



```
F:\Exam>java -jar agent.jar -jnlpUrl http://localhost:8080/computer/slave1/slave-agent.jnlp -secret 9f6dabf91760202268d58d3c6285421a5b80998dd6dd33861a30ed8c7c07ed46 -workDir "F:\Exam"
Dec 08, 2020 12:13:09 PM org.jenkinsci.remoting.engine.WorkDirManager initializeWorkDir
INFO: Using F:\Exam\remoting as a remoting work directory
Dec 08, 2020 12:13:09 PM org.jenkinsci.remoting.engine.WorkDirManager setupLogging
INFO: Both error and output logs will be printed to F:\Exam\remoting
Dec 08, 2020 12:13:09 PM hudson.remoting.jnlp.Main createEngine
Dec 08, 2020 12:13:09 PM hudson.remoting.jnlp.Main$CuiListener <init>
INFO: Jenkins agent is running in headless mode.
Dec 08, 2020 12:13:09 PM hudson.remoting.Engine startEngine
INFO: Using Remoting version: 4.5
Dec 08, 2020 12:13:09 PM org.jenkinsci.remoting.engine.WorkDirManager initializeWorkDir
INFO: Using F:\Exam\remoting as a remoting work directory
Dec 08, 2020 12:13:09 PM hudson.remoting.jnlp.Main$CuiListener status
INFO: Locating server among [http://localhost:8080/]
Dec 08, 2020 12:13:09 PM org.jenkinsci.remoting.engine.JnlpAgentEndpointResolver resolve
INFO: Remoting server accepts the following protocols: [JNLP4-connect, Ping]
Dec 08, 2020 12:13:09 PM hudson.remoting.jnlp.Main$CuiListener status
INFO: Agent discovery successful
Agent address: localhost
Agent port: 56473
Identity: 59:4a:3b:94:0e:bd:ab:ac:a3:2a:58:a1:28:17:2d:c1
Dec 08, 2020 12:13:09 PM hudson.remoting.jnlp.Main$CuiListener status
INFO: Handshaking
Dec 08, 2020 12:13:09 PM hudson.remoting.jnlp.Main$CuiListener status
INFO: Connecting to localhost:56473
Dec 08, 2020 12:13:09 PM hudson.remoting.jnlp.Main$CuiListener status
INFO: Trying protocol: JNLP4-connect
Dec 08, 2020 12:13:09 PM hudson.remoting.jnlp.Main$CuiListener status

F:\exam2>java -jar agent.jar -jnlpUrl http://localhost:8080/computer/slave2/slave-agent.jnlp -secret 64a6921a6ddf97cd17189725b475451c5af771de2f43f512f64f62ab178cb891 -workDir "F:\exam2"
Error: Unable to access jarfile agent.jar

F:\exam2>java -jar agent.jar -jnlpUrl http://localhost:8080/computer/slave2/slave-agent.jnlp -secret 64a6921a6ddf97cd17189725b475451c5af771de2f43f512f64f62ab178cb891 -workDir "F:\exam2"
Dec 08, 2020 12:52:11 PM org.jenkinsci.remoting.engine.WorkDirManager initializeWorkDir
INFO: Using F:\exam2\remoting as a remoting work directory
Dec 08, 2020 12:52:11 PM org.jenkinsci.remoting.engine.WorkDirManager setupLogging
INFO: Both error and output logs will be printed to F:\exam2\remoting
Dec 08, 2020 12:52:11 PM hudson.remoting.jnlp.Main createEngine
INFO: Setting up agent: slave2
Dec 08, 2020 12:52:11 PM hudson.remoting.jnlp.Main$CuiListener <init>
INFO: Jenkins agent is running in headless mode.
Dec 08, 2020 12:52:11 PM hudson.remoting.Engine startEngine
INFO: Using Remoting version: 4.5
Dec 08, 2020 12:52:11 PM org.jenkinsci.remoting.engine.WorkDirManager initializeWorkDir
INFO: Using F:\exam2\remoting as a remoting work directory
Dec 08, 2020 12:52:12 PM hudson.remoting.jnlp.Main$CuiListener status
INFO: Locating server among [http://localhost:8080/]
Dec 08, 2020 12:52:12 PM org.jenkinsci.remoting.engine.JnlpAgentEndpointResolver resolve
INFO: Remoting server accepts the following protocols: [JNLP4-connect, Ping]
Dec 08, 2020 12:52:12 PM hudson.remoting.jnlp.Main$CuiListener status
INFO: Agent discovery successful
Agent address: localhost
Agent port: 56473
```

Final Lab Experiment

The screenshot displays the Jenkins web interface in two parts. The top part shows the 'Nodes' page, and the bottom part shows the configuration page for a job named 'CICD_LAB_EXAM'.

Jenkins Nodes Page:

S	Name	Architecture	Clock Difference	Free Disk Space	Free Swap Space	Free Temp Space	Response Time
	master	Windows 10 (amd64)	In sync	26.44 GB	7.04 GB	26.44 GB	0ms
	slave1	Windows 10 (amd64)	In sync	752.27 GB	7.04 GB	26.44 GB	5ms
	slave2	Windows 10 (amd64)	In sync	752.27 GB	7.08 GB	26.44 GB	72ms

Below the table, a summary row shows: Data obtained, 2 min 26 sec, 2 min 26 sec, 2 min 26 sec, 2 min 25 sec, 2 min 26 sec, 2 min 26 sec. A 'Refresh status' button is located at the bottom right of the table.

Jenkins Build Queue:

No builds in the queue.

Jenkins Build Executor Status:

- master: 1 Idle
- slave1: 2 Idle
- slave2: 1 Idle

Jenkins Configuration Page (CICD_LAB_EXAM):

The configuration page is for the job 'CICD_LAB_EXAM'. It shows the 'General' tab with the following settings:

- Post-build Actions: ☐ This build requires lockable resources, ☐ This project is parameterized, ☐ Throttle builds, ☐ Disable this project, ☐ Execute concurrent builds if necessary, ☒ Restrict where this project can be run.
- Label Expression: slave1
- Source Code Management: ☒ Git
- Repository URL: https://github.com/mrsarthak001/CI-CD-1.git
- Repository Credentials: - none -

The 'Restrict where this project can be run' section shows a warning: 'No agent/cloud matches this label expression. Did you mean 'slave1' instead of 'sla'?'. The 'Repository Credentials' section shows a dropdown menu with '- none -' and an 'Add' button.

Final Lab Experiment

Back to Project

Status

Changes

Console Output

View as plain text

Edit Build Information

Delete build '#2'

Locked Resources

Git Build Data

No Tags

Redeploy Artifacts

See Fingerprints

Open Blue Ocean

Previous Build

Console Output

Started by user Sarthak Jain
Running as SYSTEM
(lockable-resources) acquired lock on []
Building remotely on **Slave1** in workspace G:\Study material\CICD\Slave1\workspace\CICD_LAB5
The recommended git tool is: NONE
No credentials specified
> C:\Program Files\Git\bin\git.exe rev-parse --is-inside-work-tree # timeout=10
Fetching changes from the remote Git repository
> C:\Program Files\Git\bin\git.exe config remote.origin.url https://github.com/hkshitesh/cicd_lab_b2.git # timeout=10
Fetching upstream changes from https://github.com/hkshitesh/cicd_lab_b2.git
> C:\Program Files\Git\bin\git.exe --version # timeout=10
> git --version # 'git version 2.28.0.windows.1'
> C:\Program Files\Git\bin\git.exe fetch --tags --force --progress -- https://github.com/hkshitesh/cicd_lab_b2.git +refs/heads/*:refs/remotes
/origin/* # timeout=10
> C:\Program Files\Git\bin\git.exe rev-parse "refs/remotes/origin/master^{commit}" # timeout=10
> C:\Program Files\Git\bin\git.exe rev-parse "refs/remotes/origin/origin/master^{commit}" # timeout=10
Checking out Revision 0c9e59cc30de5b2d6cfab0d07d1062de3d903e67 (refs/remotes/origin/master)
> C:\Program Files\Git\bin\git.exe config core.sparsecheckout # timeout=10
> C:\Program Files\Git\bin\git.exe checkout -f 0c9e59cc30de5b2d6cfab0d07d1062de3d903e67 # timeout=10
Commit message: "pcm commit"
> C:\Program Files\Git\bin\git.exe rev-list --no-walk 0c9e59cc30de5b2d6cfab0d07d1062de3d903e67 # timeout=10
Parsing POMs
Discovered a new module CICD_b2:cicd_b2_lab cicd_b2_lab
Modules changed, recalculating dependency graph
Established TCP socket on 58252
Copied maven35-agent.jar
Copied maven3-interceptor.jar
Copied maven3-interceptor-commons.jar
(cicd_b2_lab) \$ java -cp "G:\Study material\CICD\Slave1\maven35-agent.jar;G:\apache-maven-3.6.3\boot\plexus-classworlds-2.6.0.jar;G:\apache-

Search

ENG 101 PM

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