Module 4: Continuous Integration Using Jenkins

Demo Document

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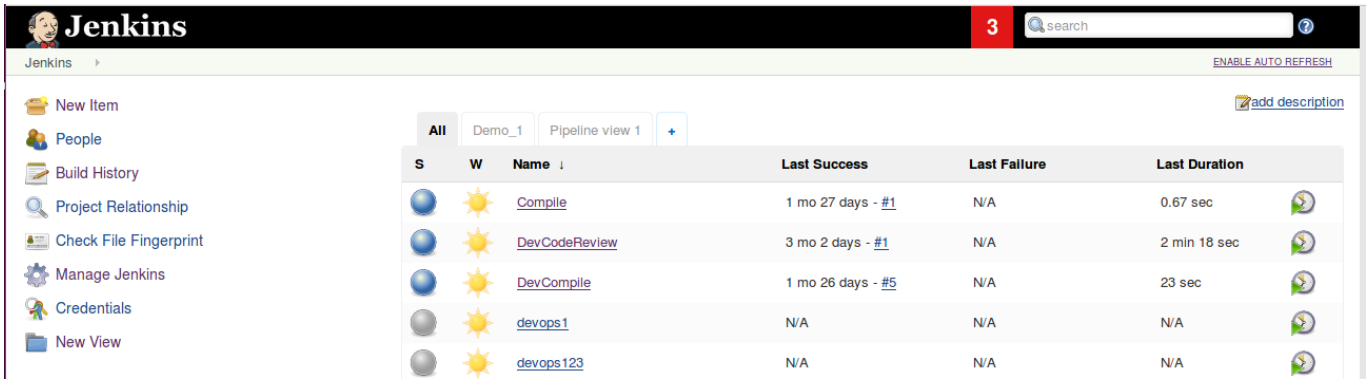
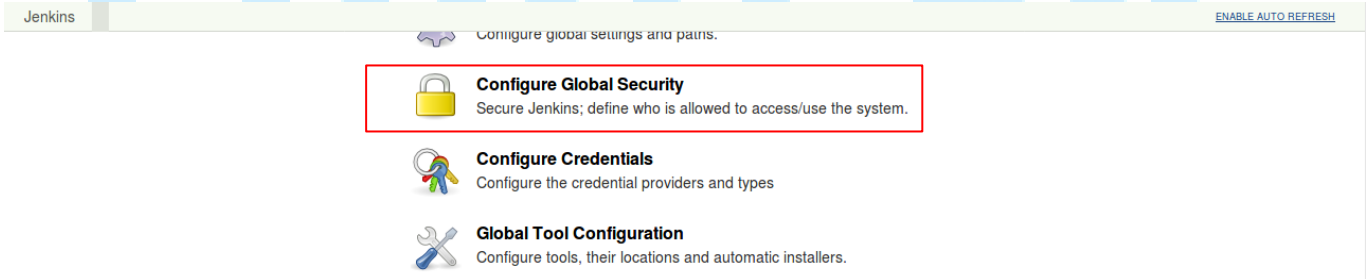
Demo 2: Add a slave node in your Jenkins.

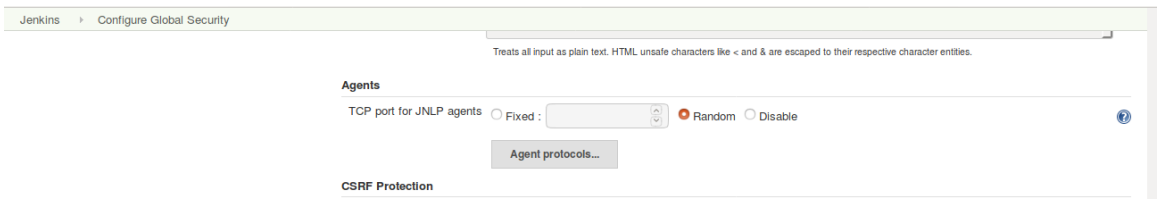
Step 1: Open Jenkins Dashboard and click on manage Jenkins.



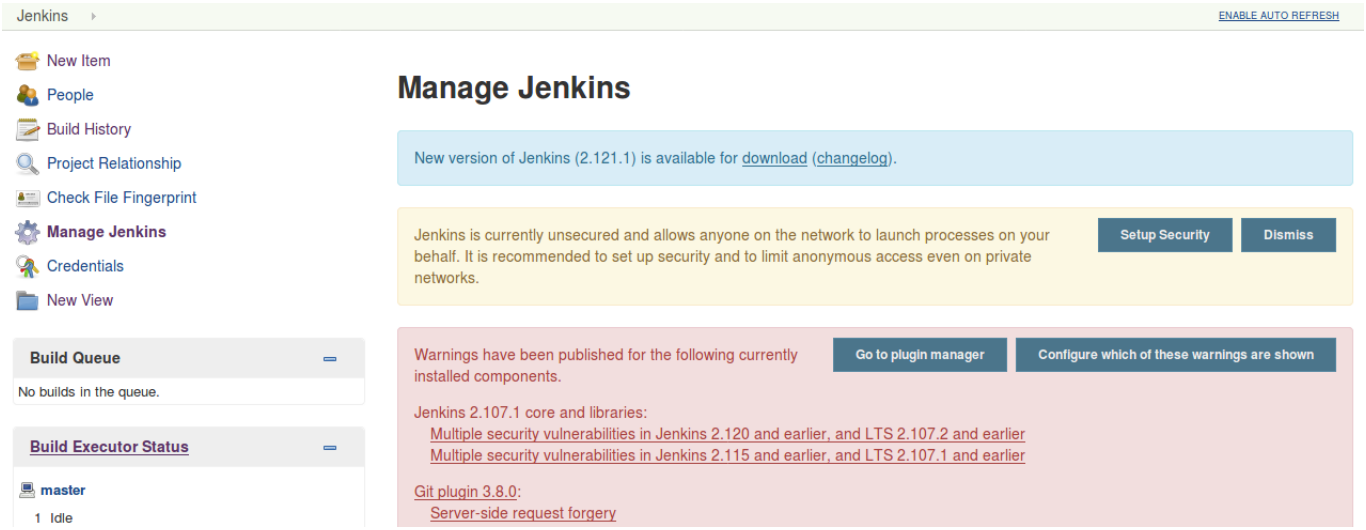
Step 2: Click on configure global security.



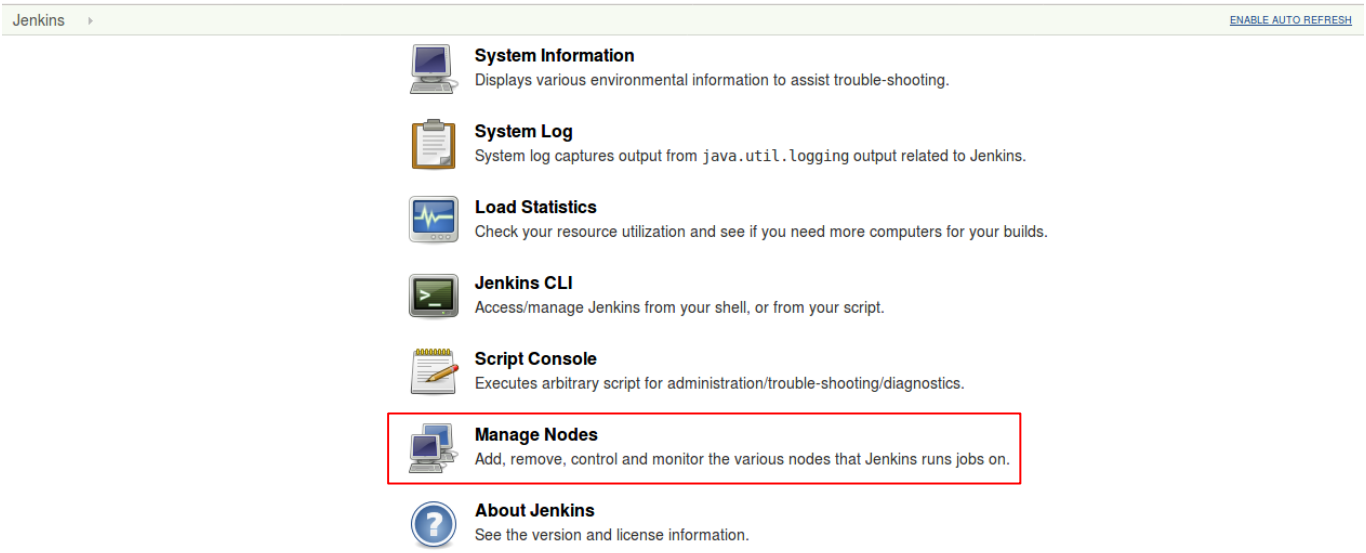
Step 3: Select random option for TCP ports for JLNP agents



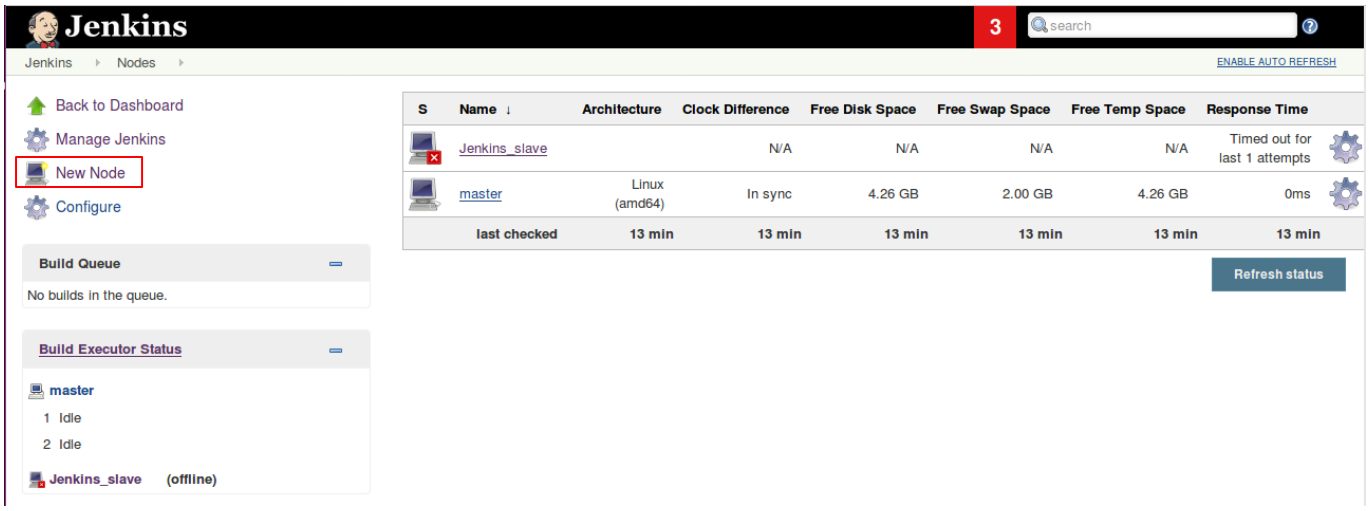
Step 4: Click on manage Jenkins.

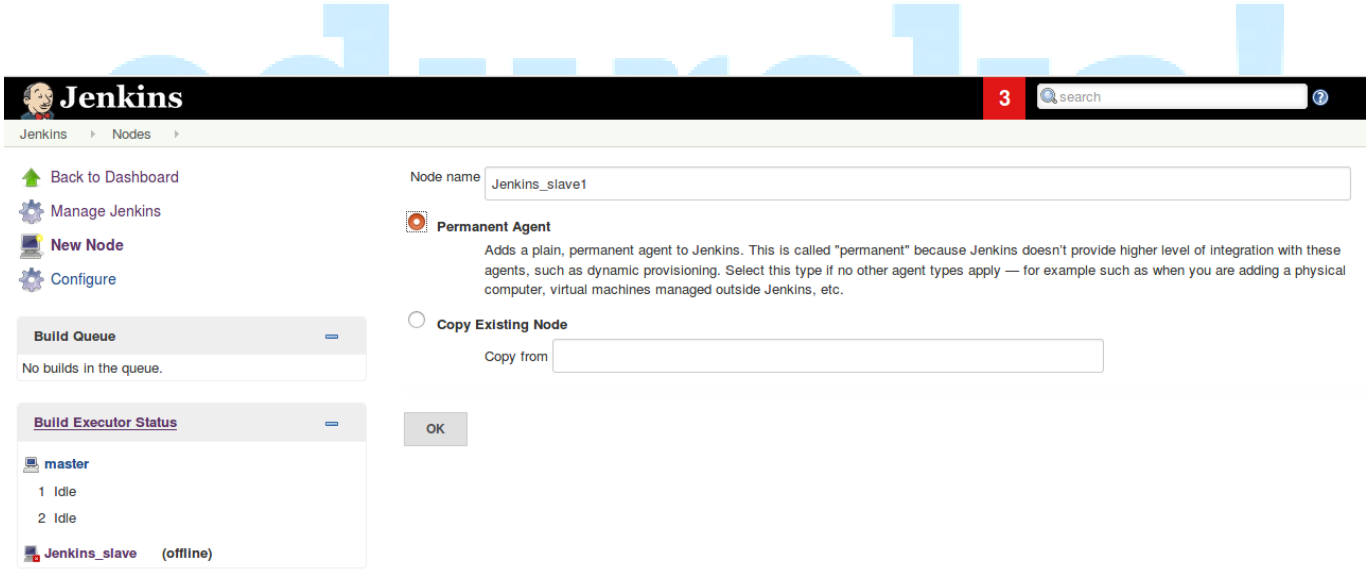


Step 5: Click on Manage Nodes option.

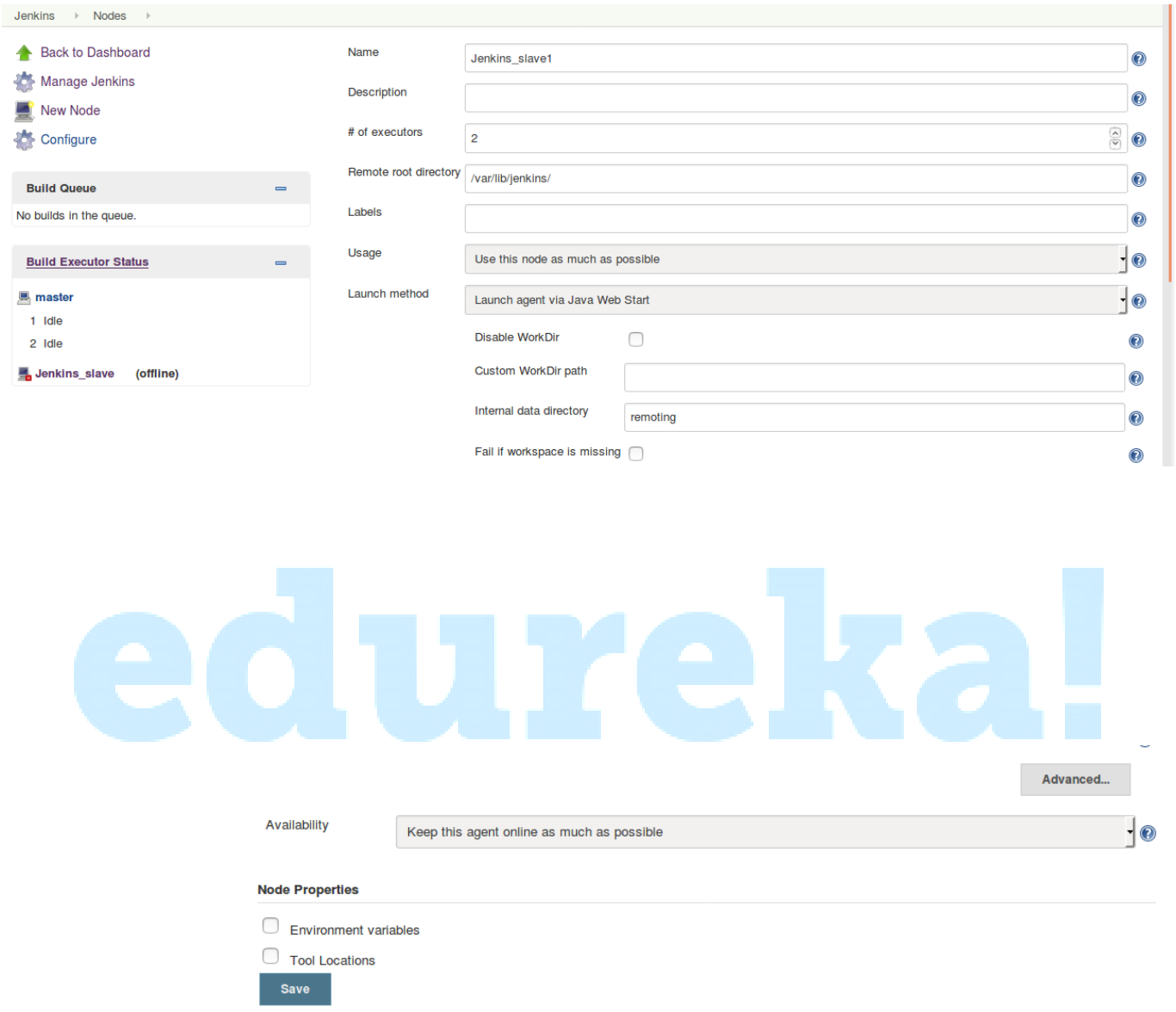


Step 6: Click on new node and then give your node a name and make it a permanent agent.





Step 7: Select the launch method as shown in the screen shot and then set the availability as shown in the screenshot and then click on the save button.



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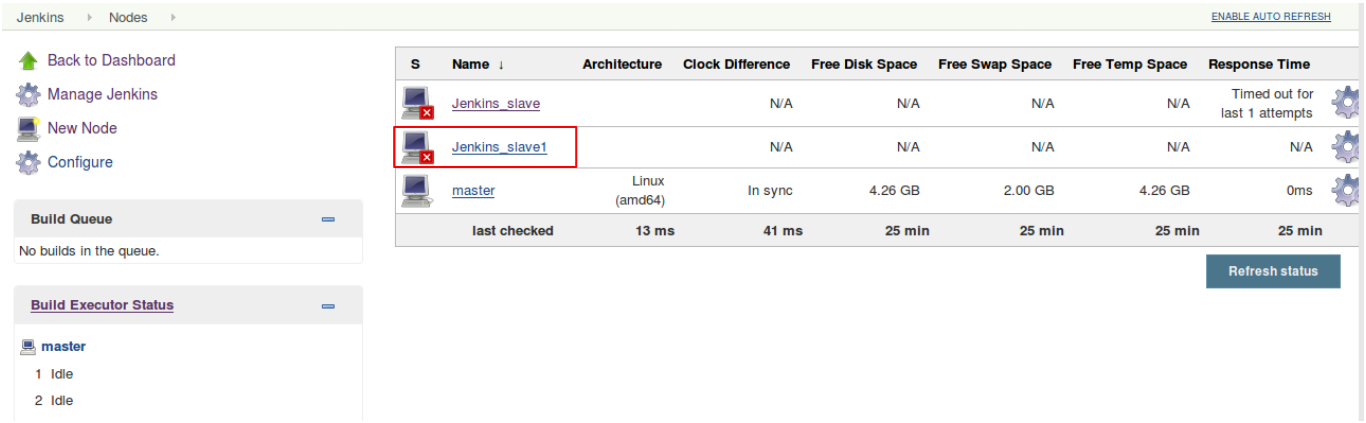
Step 8: Click on the name you have given to your slave node.



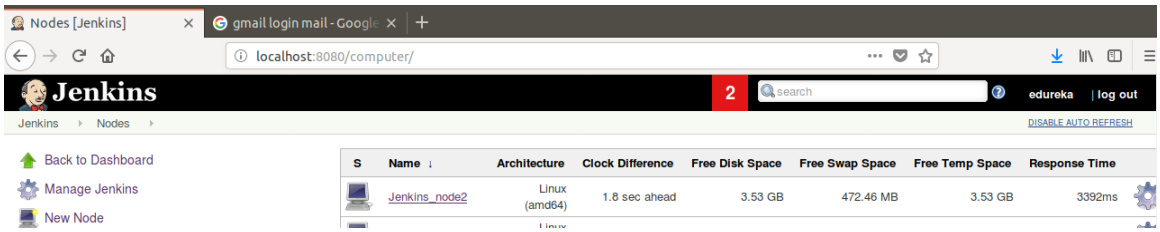
Step 9: Click on the agent.jar and download the file, also it should be present on the node which you want to add as slave node.

Step 10: Copy the whole link and run it on the slave node which you want to add.

Step 11: Go to the slave node and download that agent.jar file on this node. Change the permission of that file.

Then copied link from Jenkins master should be pasted here and replace the local host with the IP address of the Jenkins master node. You will get the below output.

```
edureka@slav-3:~$ cd /home/edureka/
edureka@slav-3:~$ ls
agent.jar  chromedriver  Desktop  Documents  Downloads  examples.desktop  jenkins  Music  ~None  Pictu
edureka@slav-3:~$ sudo chmod 777 agent.jar
edureka@slav-3:~$ sudo java -jar agent.jar -jnlpUrl http://192.168.56.101:8080/computer/Jenkins_node2/
163322b1da2a8c4d4d2d3994e1c035c91ca134353a9e741e0 -workDir "/var/lib/jenkins/"
Jun 20, 2018 7:35:32 PM org.jenkinsci.remoting.engine.WorkDirManager initializeWorkDir
INFO: Using /var/lib/jenkins/remoting as a remoting work directory
Both error and output logs will be printed to /var/lib/jenkins/remoting
Jun 20, 2018 7:35:33 PM hudson.remoting.jnlp.Main createEngine
INFO: Setting up agent: Jenkins_node2
Jun 20, 2018 7:35:33 PM hudson.remoting.jnlp.Main$CuiListener <init>
INFO: Jenkins agent is running in headless mode.
Jun 20, 2018 7:35:33 PM hudson.remoting.Engine startEngine
INFO: Using Remoting version: 3.20
Jun 20, 2018 7:35:33 PM org.jenkinsci.remoting.engine.WorkDirManager initializeWorkDir
INFO: Using /var/lib/jenkins/remoting as a remoting work directory
Jun 20, 2018 7:35:33 PM hudson.remoting.jnlp.Main$CuiListener status
INFO: Locating server among [http://localhost:8080/, http://192.168.56.101:8080/]
Jun 20, 2018 7:35:33 PM org.jenkinsci.remoting.engine.JnlpAgentEndpointResolver resolve
INFO: Remoting server accepts the following protocols: [JNLP4-connect, Ping]
Jun 20, 2018 7:35:33 PM hudson.remoting.jnlp.Main$CuiListener status
INFO: Agent discovery successful
  Agent address: 192.168.56.101
  Agent port:    34077
  Identity:      74:ca:9a:5b:35:08:2f:98:ae:72:34:4c:54:96:49:a0
Jun 20, 2018 7:35:33 PM hudson.remoting.jnlp.Main$CuiListener status
INFO: Handshaking
```

```
Jun 20, 2018 7:35:33 PM hudson.remoting.jnlp.Main$CuiListener status
INFO: Connecting to 192.168.56.101:34077
Jun 20, 2018 7:35:33 PM hudson.remoting.jnlp.Main$CuiListener status
INFO: Trying protocol: JNLP4-connect
Jun 20, 2018 7:35:33 PM hudson.remoting.jnlp.Main$CuiListener status
INFO: Remote identity confirmed: 74:ca:9a:5b:35:08:2f:98:ae:72:34:4c:54:96:49:a0
Jun 20, 2018 7:35:34 PM hudson.remoting.jnlp.Main$CuiListener status
INFO: Connected
```

Step 12: Go to your Jenkins master and check if your slave node is connected or not.