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_4_Master_Slave_Communication

- **1 How to setup Master – Slave?**
 - **1.1 Launch agent from browser**
 - **1.2 Run from agent command line**

How to setup Master – Slave?

1. On your master machine go to Manage Jenkins > Manage Nodes.



Manage Nodes

Add, remove, control and monitor the various nodes that Jenkins runs jobs on.

1. New Node
 1. Enter Node Name
 2. Select Permanent Agent

3. Press OK.

Node name

☐ **Permanent Agent**

Adds a plain, permanent agent, such as dynamic provisioned machines managed outside of Jenkins.

☐ **Copy Existing Node**

Copy from

OK

1. Fill out the following:

1. Set a number of executors
 1. (one or more jobs) as needed.
2. Set a Remote FS Root
 1. A home directory for the master on the slave machine.
 2. For a *Windows slave*, use something like: "C:\Jenkins\"
3. Select the appropriate Usage setting:
 1. For an additional worker: *Utilize this slave as much as possible*
 2. For specialized jobs: *Leave this machine for tied jobs only*
4. Launch Method:
 1. An easy way to control a Windows slave is by using **Launch slave agents via Java Web Start** (Recommended for Windows)
 2. TODO: add steps for other methods.
5. Availability
 1. *Keep this slave online as much as possible*
 2. TODO: add details for each option.

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Name	<input type="text" value="Hemanth"/>
Description	<input type="text" value="MKS"/>
# of executors	<input type="text" value="2"/>
Remote root directory	<input type="text" value="c:/jenkins"/>
Labels	<input type="text"/>
Usage	<input type="text" value="Use this node as much as possible"/>
Launch method	<input type="text" value="Launch agent via Java Web Start"/>
	<input type="checkbox"/> Disable WorkDir
	<input type="text" value=""/> Custom WorkDir path
	<input type="text" value="remoting"/> Internal data directory
	<input type="checkbox"/> Fail if workspace is missing
	<input type="button" value="Advanced..."/>
Availability	<input type="text" value="Keep this agent online as much as possible"/>

Node Properties

☐ Environment variables

☐ Tool Locations

2. Now you need to connect your slave machine to the master.

Agent Hemanth (MKS)

⚠ Ping response time is too long or timed out.

Connect agent to Jenkins one of these ways:

- [Launch](#) Launch agent from browser
- Run from agent command line:

```
java -jar agent.jar -jnlpUrl http://Rojithkumar:8080/computer/Hemanth/slave-agent.jnlp -secret 0e2bef6c0e9f778cf677ffc2eed0e2606c59836e350086a0ff354d17e6e9dd6e -workDir "c:/jenkins"
```

Projects tied to Hemanth

S	W	Name ↓	Last Success	Last Failure	Last Duration
		Job	2 days 22 hr - #11	7 days 22 hr - #3	1 min 40 sec

Launch agent from browser

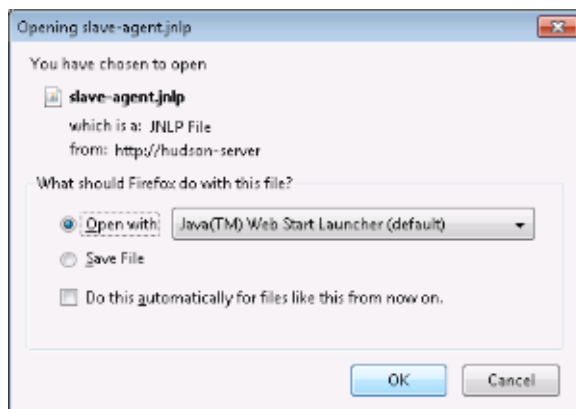
1. Click on the Launch button to launch agent from browser on slave.

Slave Jenkins Slave

Connect slave to Jenkins one of these ways:

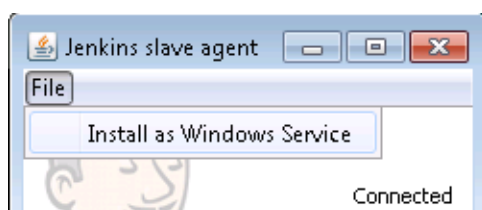
- [Launch](#) Launch agent from browser on slave
 - Run from slave command line:
- ```
javaws http://hudson-server/computer/Jenkins Slave/slave-agent.jnlp
```
- Or if the slave is headless:
- ```
java -jar slave.jar -jnlpUrl http://hudson-server/computer/Jenkins Slave/slave-agent.jnlp
```

2. Run the program.



If Windows asks you to choose a program, use Java Web Start Launcher.

3. click File --> Install as Windows Service.



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2. Open command prompt in slave PC.
3. Give the command line in command prompt. Replace user name with the IP address in that command.

Connect agent to Jenkins one of these ways:

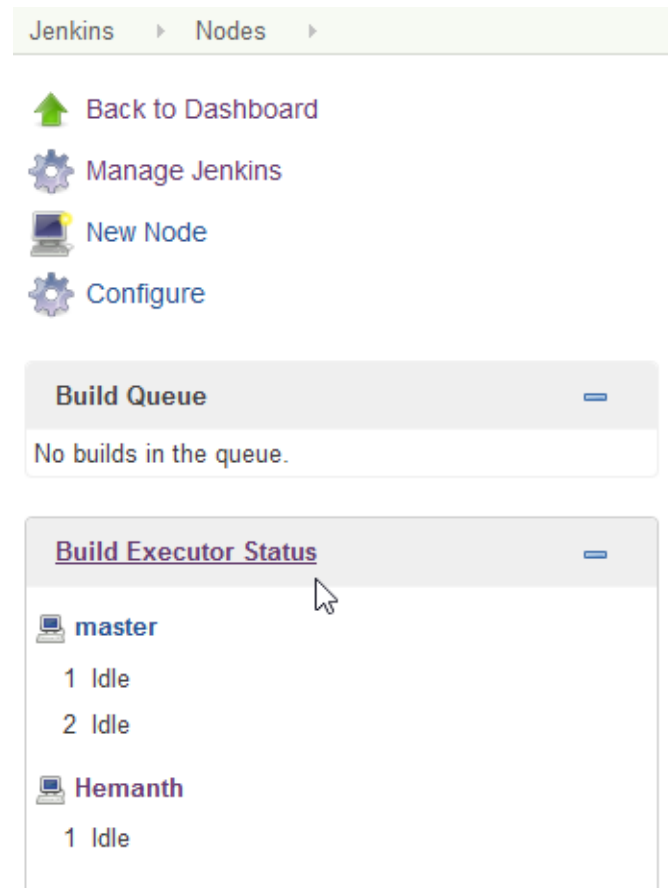
•  **Launch** Launch agent from browser

• Run from agent command line:

```
java -jar agent.jar -jnlpUrl http://Rojithkumar:8080/computer/Hemanth/slave-agent.jnlp -secret  
0e2bef6c0e9f778cf677ffc2eed0e2606c59836e350086a0ff354d17e6e9dd6e -workDir "c:/jenkins"
```

4. Also give file path i.e appropriate location of the agent.jar
5. Run the command
6. Slave PC is now connected.
7. In Jenkins master, we can view that the node is get connected.

Note: In master-slave setup, Jenkins need not to be installed in slave nodes.



The screenshot shows the Jenkins web interface. At the top, there is a breadcrumb navigation: "Jenkins > Nodes >". Below this, there are four links with icons: "Back to Dashboard" (green arrow), "Manage Jenkins" (gear), "New Node" (laptop), and "Configure" (gear). The main content area has two expandable sections. The first section is "Build Queue", which is currently collapsed and shows "No builds in the queue." The second section is "Build Executor Status", which is expanded. It lists two executors: "master" and "Hemanth". Under "master", there are two entries, both labeled "1 Idle". Under "Hemanth", there is one entry labeled "1 Idle". A mouse cursor is pointing at the "Build Executor Status" header.