Master Slave Concept

* Master and slave have their own directories.
* We need to install a file agent.jar to create a link between slaves and their directories.
* However, there is no guarantee if a particular is built by a particular slave. It is assigned randomly to anyone, even master can be assigned to build that job.
* To avoid this, we have label that ensures what job will be built by whom. All you need to do is to attach a label with job and attach the same label to the slave you want to assign with that job.

**Creating Slaves**

* Manage Jenkins
* Manage Nodes and Clouds in System Configuration
* You will see a master there
* Click on new node available at the left section of the page
* Provide node name as slave1 and make it permanent agent
* OK
* In Remote root directory, give path directory where you wish to save the work of slave. Let’s us say: c:\slave1dir
* Select launch agent via execution of command on the master in launch method.
* Expand Launch command option and download agent.jar file
* Paste agent.jar file on C Drive.
* In Launch command, write: java -jar c:\agent.jar
* Save
* You will see Slave1 added, now.
* Similarly, create another node slave2 but for a change select Copy existing Node and provide slave1 in Copy from box.
* OK
* In Remote directory change slave1 to slave2 this time
* Now Save.
* Hurray! Now, we have two slaves: slave1 and slave2 created.
* Now if we try to build any job, anyone from slaves or master can take this job.

**Assigning task to a particular slave**

* Mange Jenkins
* Manage Nodes and Clouds
* Click on slave1 and configure
* Give it a label, for example: preference
* Save
* Now, Go to the job you want slave1 to build and configure it.
* Check the option ‘’Restrict where this project can be run’
* Give the same label as that of slave1 in Label Expression
* Save
* Now, if we try to build this job, only slave1 will take it up.