**Jenkins Master and Slave configuration**

**🧰 Prerequisites**

1. Jenkins server
2. Slave server with Java installation

**Procedure:**

1. Goto Manage Nodes
   * Manage Jenkins --> Manage Nodes and Clouds --> New Node
2. Add the node name as Permanent Agent
3. Provide below information to add Jenkins agent  
   **Name:** uniquely identifies an agent within this Jenkins installation  
   **Description:**  
   **Number of executors:** 2  
   **Remote root directory:** /home/ec2-user/maven-agent  
   **Labels:** Labels (or tags) are used to group multiple agents into one logical group.  
   **Usage:**
   * Use this node as much as possible
   * Only build jobs with label expressions matching this node

**Launch method:**

* + Launch agent by connecting it to the master
  + Launch agent via execution of command on the controller

**Custom WorkDir path:** custom Remoting work directory will be used instead of the Agent Root Directory  
**- Use WebSocket [x]**  
**Availability:**

* + Keep this agent online as much as possible
  + Bring this agent online according to a schedule
  + Bring this agent online when in demand, and take offline when idle

1. Once you save above configuration you will get a command which should be executed in the agent. it contains agent.jar, a secret-file, and a jnlp file
2. echo "secret\_key" > secret-file

java -jar agent.jar -jnlpUrl http://<Jenkins\_URL>/computer/abc/jenkins-agent.jnlp -secret @secret-file -workDir "/home/ec2-user"

1. Once connected you can create or edit a job to chose this option in the Restrict where this project can be run

**Lessons Learned:**

1. Master and slave should have
   * same Java version
   * Same Maven version
2. In case Jave or Maven paths are referring to the agent system then aline it according to masters Global Tool Configuration
3. In case the case of the AWS server make sure your Jenkins URL should be updated to the latest Public IP.

