# Distributed Builds on Jenkins

#### Agenda

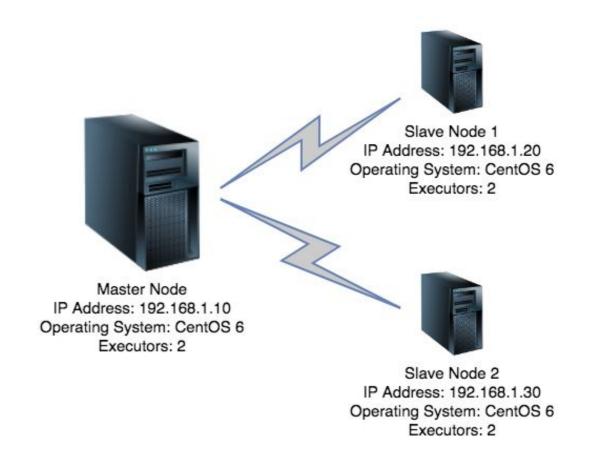
- Connect agents to your Jenkins master and access them securely
- Configure freestyle projects to run on your agents
- Instruct pipelines to run on different agents in your build environment

#### **Distributed Builds**

Refers to the allocation of different nodes (slaves) to run your build tasks

#### The Master-Slave Model

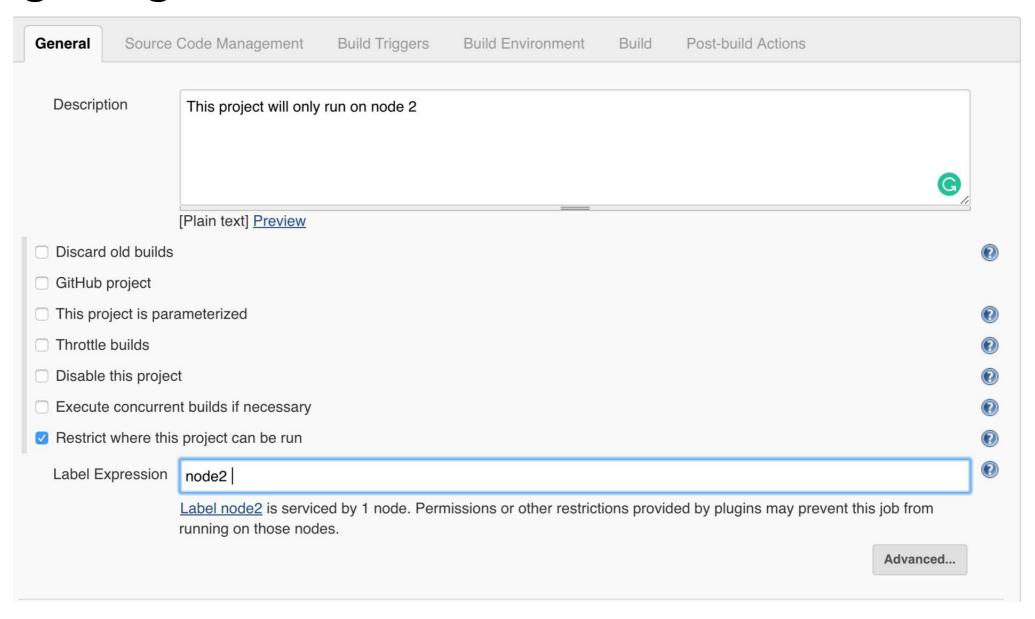
- Allows to configure distributed builds on Jenkins
- The master node is basically the node on which Jenkins is installed
- This is the administrative node that carries out most of the tasks



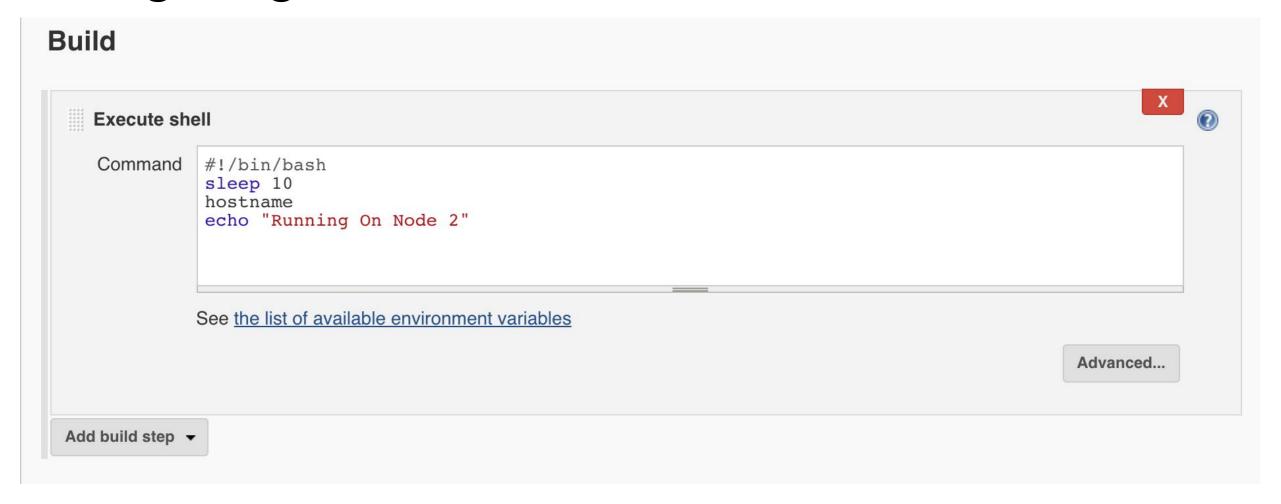
## Setting up Slave Nodes

- Refer:
  - Add slave nodes to Jenkins in "3. Continuous Integration setup.md"

#### Configuring Tasks to Run on our Slaves

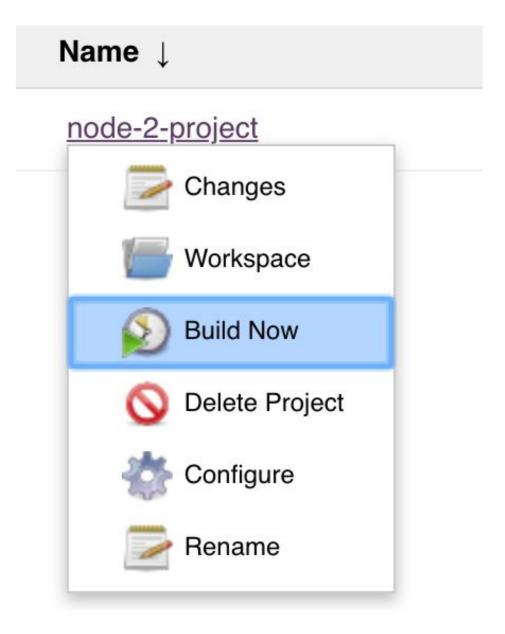


#### Configuring Tasks to Run on our Slaves



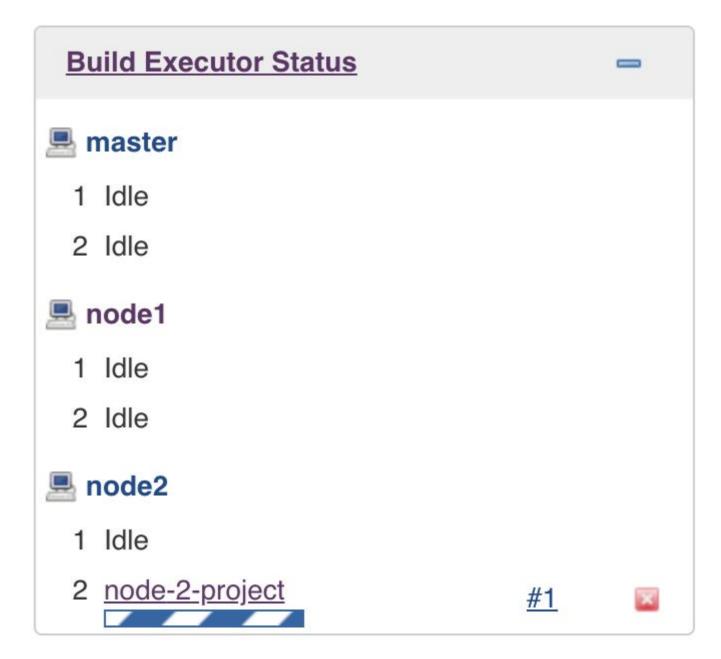
#### **Build Project**

- We are going to run the project from the main Jenkins dashboard as opposed to the project dashboard.
- Click on the drop-down on the project name and select Build Now, as shown:



### **Build Project**

- If we watch the executors at the bottom left, we can see that our project is running on node2, as we defined in the configuration
- Review the Console Output



### Running Pipelines on Different Nodes

```
node {
 stage("Might Run On Node 1 Or Master") {
   printMessage("Running")
   sh 'sleep 10'
   sh 'hostname'
node('node2') {
  stage("On Node 2") {
    printMessage("Running On Node 2")
    sh 'sleep 10'
    sh 'hostname'
def printMessage(message) {     echo "${message}" }
```

