

## Lab-5

### Master/Slave Concept in Jenkins

Step 1 → Create 2 slave on your local drive

```
arnim_taliyan@device:~/Desktop/la56cicd$ mkdir slave1
arnim_taliyan@device:~/Desktop/la56cicd$ mkdir slave2
arnim_taliyan@device:~/Desktop/la56cicd$ ls
slave1  slave2
arnim_taliyan@device:~/Desktop/la56cicd$
```

Step 2 → Go to manage Jenkins and make 2 nodes-slave1, slave2

Dashboard > Manage Jenkins > Nodes >

Name ?

slave1

Description ?

Plain text [Preview](#)

Number of executors ?

1

Remote root directory ?

/Desktop/la56cicd

Labels ?

Agent1

Usage ?

Use this node as much as possible

Launch method ?

Launch agent by connecting it to the controller

☐ Disable WorkDir ?

Custom WorkDir path ?

Internal data directory ?

remoting

Availability ?

Keep this agent online as much as possible

Node Properties

☐ Disable deferred wipeout on this node ?

☐ Environment variables

☐ Tool Locations

Save

Name ?

slave2

Description ?

Plain text: [Preview](#)

Number of executors ?

1

Remote root directory ?

/Desktop/la56cid

Labels ?

Agent2

Usage ?

Use this node as much as possible

Launch method ?

Launch agent by connecting it to the controller

☐ Disable WorkDir ?

Custom WorkDir path ?

Internal data directory ?

remoting

Availability ?

Keep this agent online as much as possible

#### Node Properties

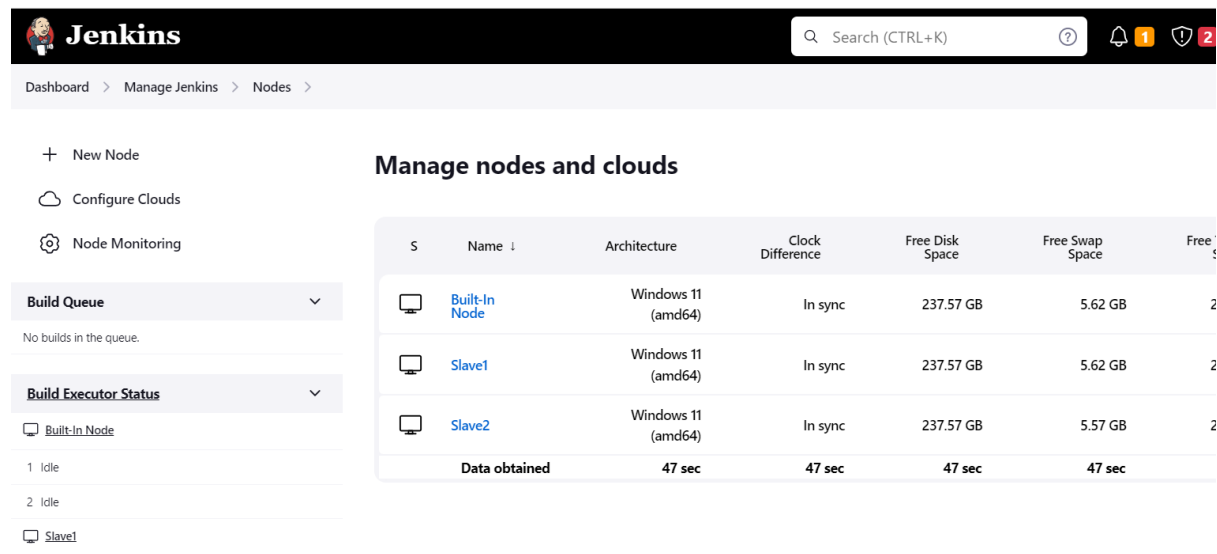
☐ Disable deferred wipeout on this node ?

☐ Environment variables

☐ Tool Locations

Save

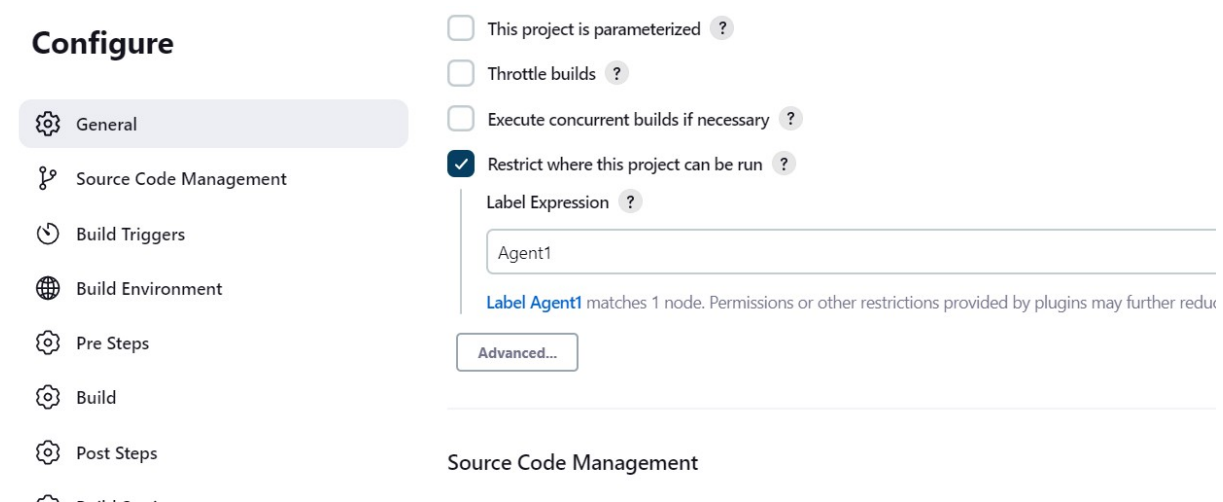
## Step 3 → Now run your nodes



The screenshot shows the Jenkins 'Manage nodes and clouds' page. On the left, there's a sidebar with 'New Node', 'Configure Clouds', and 'Node Monitoring'. Below this are sections for 'Build Queue' (showing no builds) and 'Build Executor Status' (showing 'Built-In Node' with 2 idle executors and 'Slave1' with 2 idle executors). The main area displays a table of nodes:

S	Name ↓	Architecture	Clock Difference	Free Disk Space	Free Swap Space	Free Memory
	Built-In Node	Windows 11 (amd64)	In sync	237.57 GB	5.62 GB	2 GB
	Slave1	Windows 11 (amd64)	In sync	237.57 GB	5.62 GB	2 GB
	Slave2	Windows 11 (amd64)	In sync	237.57 GB	5.57 GB	2 GB
Data obtained		47 sec	47 sec	47 sec	47 sec	

## Step 4 → Make new maven project and connect it to GitHub project making automatic build



The screenshot shows the Jenkins 'Configure' page for a new project. The left sidebar lists configuration sections: General, Source Code Management, Build Triggers, Build Environment, Pre Steps, Build, Post Steps, and a footer section. The 'General' section is active, showing options for project parameterization, throttling, concurrent builds, and restricting where the project can be run. The 'Restrict where this project can be run' option is checked, and the 'Label Expression' is set to 'Agent1'. Below this, a message states: 'Label Agent1 matches 1 node. Permissions or other restrictions provided by plugins may further reduce the number of nodes available.' An 'Advanced...' button is also visible.

## Pre Steps

Add pre-build step ▾

## Build

Root POM ?

pom.xml

Goals and options ?

install

Advanced...

Step 5 → Now make another maven project on Jenkins with label Agent2 and give your path of local system to run different agents of same project to run processes parallel.

### Configure

General

Source Code Management

Build Triggers

Build Environment

Pre Steps

Build

Post Steps

Build Settings

Label Expression ?

Agent2

Label Agent2 matches 1 node. Permissions or other restrictions provided by plugins may further reduce that list.

Advanced...

### Source Code Management

☐ None

☒ Git ?

Repositories ?

Repository URL ?

## Build

Root POM ?

pom.xml

Goals and options ?

install

Advanced...

 Status

 Changes


 Workspace

 Build Now

 Configure

 Delete Maven project

 Modules

 Rename

## Maven project cicd-lab5

### Permalinks

- [Last build \(#1\), 3 min 50 sec ago](#)
- [Last stable build \(#1\), 3 min 50 sec ago](#)
- [Last successful build \(#1\), 3 min 50 sec ago](#)
- [Last completed build \(#1\), 3 min 50 sec ago](#)



Build History

trend ▼

🔍 Filter builds...

/



#1

[Oct 6, 2023, 10:31 AM](#)

 [Atom feed for all](#)  [Atom feed for failures](#)