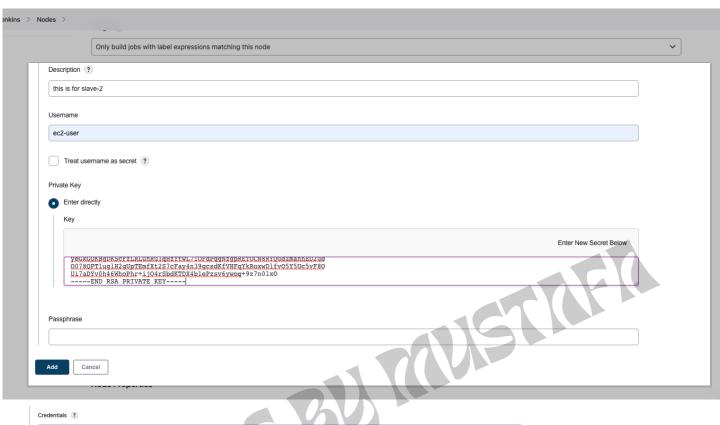# JENKINS MASTER - SLAVE

1. LAUNCH **3 INSTANCES** WITH **KEYPAIR** (PEM FILE)
   a. MASTER
   b. SLAVE-1
   c. SLAVE-3
2. SETUP **JENKINS IN MASTER**
3. install **JAVA11** on slaves (amazon-linux-extras install java-openjdk11 -y)
4. go to manage jenkins >> manage nodes and clouds >> new node --> give node name & select permanent agent

ADD CREDENTIALS

Jenkins Credentials Provider: Jenkins

Add Credentials

Domain

Global credentials (unrestricted)

Kind

SSH Username with private key

Scope ?

Global (Jenkins, nodes, items, all child items, etc)

ID ?

Description ?

this is for slave-2

Username

ec2-user

Jenkins > Nodes >

Only build jobs with label expressions matching this node

Description ?

this is for slave-2

Username

ec2-user

☐ Treat username as secret ?

Private Key

◉ Enter directly

Key

Enter New Secret Below

```
yeGKGQKBgDKSCFZLRLuhRUlqHzYtWL7lOFdPqqNzgpRETUCN8RYQUqZmannED2Ug
Q078QPT1uglH2gUpTEmfXt2S7cFav4n39qcsdKfVHFqYkRoxwDlfvO5Y5Uc5vF8O
Ui7aDYv0h46WhoPhr+ijQ4rSbdKTDX4blePzsv6ywoq+9z7n0lxO
-----END RSA PRIVATE KEY-----
```

Passphrase

[Add] [Cancel]

Node Properties

Credentials ?

ec2-user (this is for slave-1)

[+ Add]

Host Key Verification Strategy ?

Non verifying Verification Strategy

[Advanced...] ?

Availability ?

Keep this agent online as much as possible

Node Properties

☐ Disable deferred wipeout on this node ?
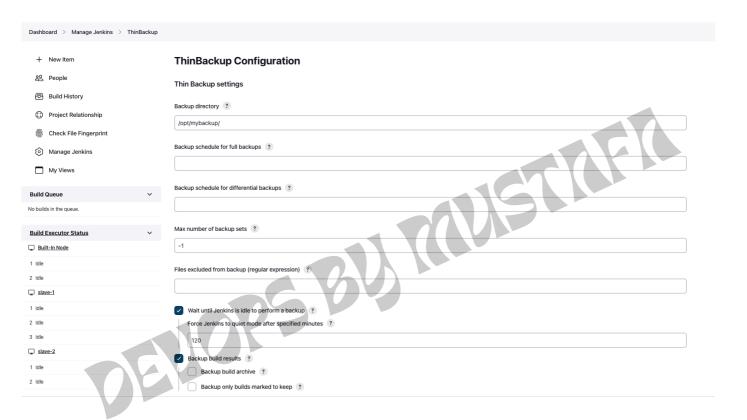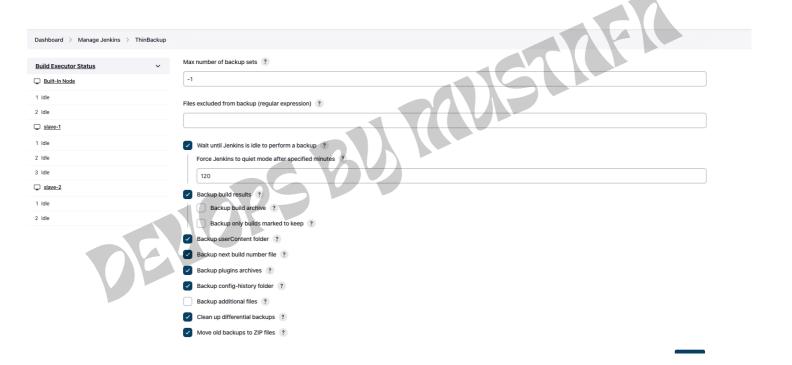
☐ Environment variables

☐ Tool Locations

[Save]

JENKINS BACKUP

Whatever we execute via Jenkins or perform any setting in Jenkins, it stores in the form of backup in Jenkins home directory. This backup includes data and configuration-related settings like **job configurations, plugins**, plugin configurations, build logs, etc. So, it's essential to take the backup of this prominent information to use this backup in the future if required.

1. INSTALL PLUGIN (THINBACKUP).
2. create a folder in opt directory: mkdir /opt/mybackup
3. change owners of the folder: chown jenkins:jenkins /opt/mybackup
4. give full permissions to the folder: chmod 777 /opt/mybackup
5. go to manage jenkins and select thinbackup and click on settings.

Dashboard > Manage Jenkins > ThinBackup

+ New Item
People
Build History
Project Relationship
Check File Fingerprint
Manage Jenkins
My Views

Build Queue ⌄
No builds in the queue.

Build Executor Status ⌄
Built-In Node
1 Idle
2 Idle
slave-1
1 Idle
2 Idle
3 Idle
slave-2
1 Idle
2 Idle

ThinBackup Configuration

Thin Backup settings

Backup directory ?
`/opt/mybackup/`

Backup schedule for full backups ?

Backup schedule for differential backups ?

Max number of backup sets ?
`-1`

Files excluded from backup (regular expression) ?

☑ Wait until Jenkins is idle to perform a backup ?
Force Jenkins to quiet mode after specified minutes ?
`120`

☑ Backup build results ?
☐ Backup build archive ?
☐ Backup only builds marked to keep ?

Build Executor Status ⌄

🖥 **Built-In Node**
 1 Idle
 2 Idle
🖥 **slave-1**
 1 Idle
 2 Idle
 3 Idle
🖥 **slave-2**
 1 Idle
 2 Idle

Max number of backup sets ?

-1

Files excluded from backup (regular expression) ?

☑ Wait until Jenkins is idle to perform a backup ?
 Force Jenkins to quiet mode after specified minutes ?

 120

☑ Backup build results ?
  ☐ Backup build archive ?
  ☐ Backup only builds marked to keep ?
☑ Backup userContent folder ?
☑ Backup next build number file ?
☑ Backup plugins archives ?
☑ Backup config-history folder ?
☐ Backup additional files ?
☑ Clean up differential backups ?
☑ Move old backups to ZIP files ?

click on **backup now**

go and check in **/opt/mybackup folder**, you will get all the config files of jenkins in our folder.

if you want to restore those files, click on restore option

🔴 **Jenkins**

Dashboard > ThinBackup

+ New Item
👥 People
🗄 Build History
☺ Project Relationship
🔎 Check File Fingerprint

ThinBackup

⤓ Backup now   ⤒ Restore   ⚙ Settings