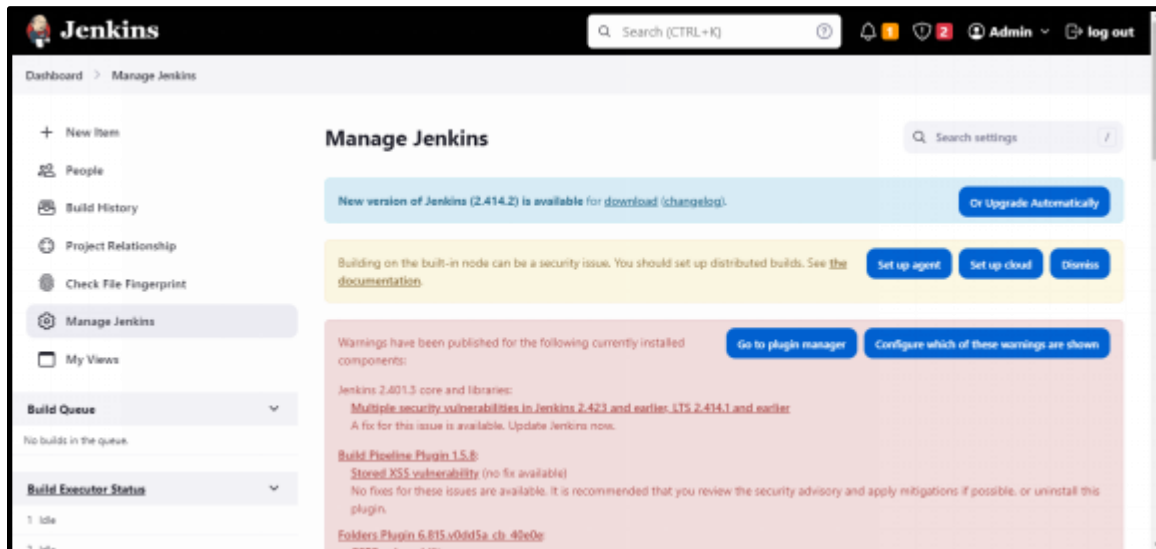
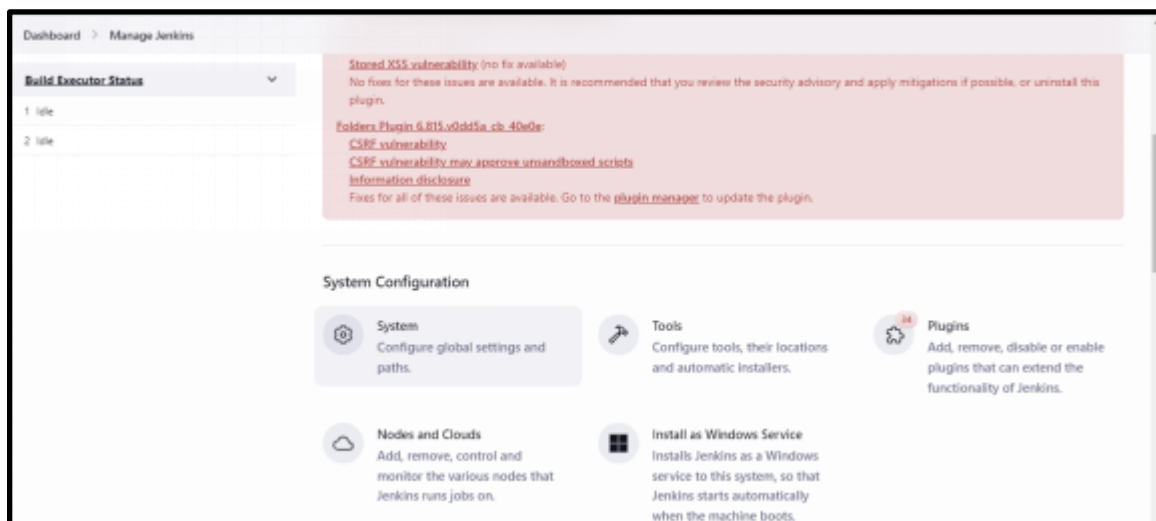


Procedure:-

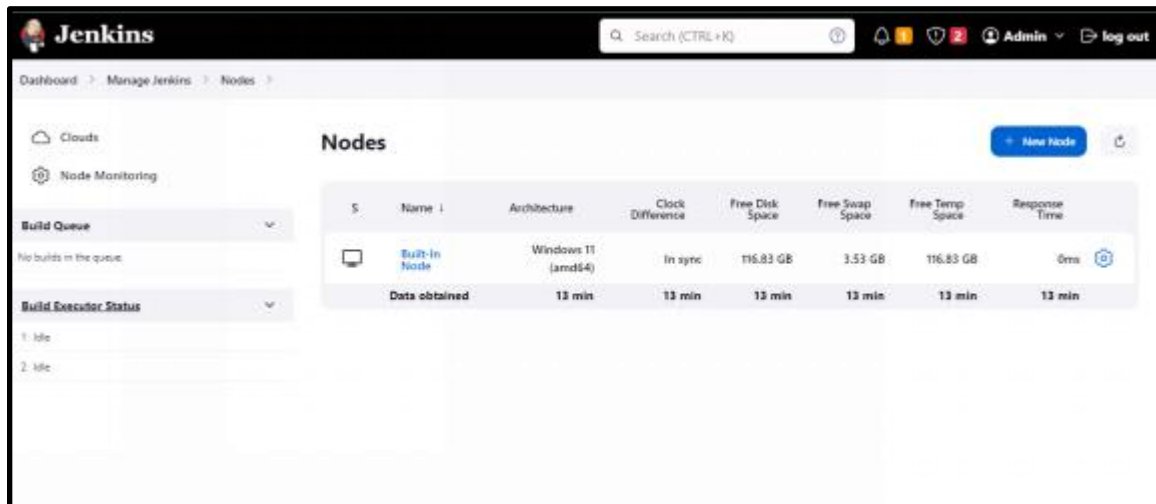
Step1:- Go to manage jenkins.



Step2:- go to nodes and clouds.



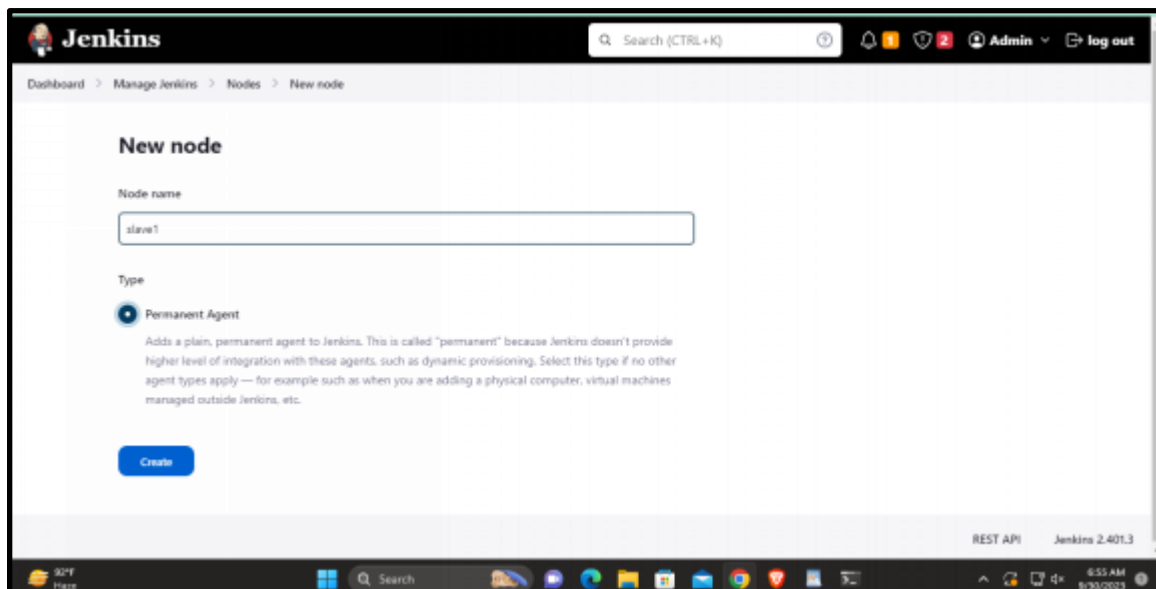
Step3:- click on new node ,at top right and name it as slave1.



The screenshot shows the Jenkins 'Nodes' page. On the left sidebar, there are links for 'Clouds', 'Node Monitoring', 'Build Queue', and 'Build Executor Status'. The 'Build Queue' section shows 'No builds in the queue'. The 'Build Executor Status' section shows two idle executors. The main area displays a table of nodes. A 'New Node' button is located at the top right of the table.

S	Name	Architecture	Clock Difference	Free Disk Space	Free Swap Space	Free Temp Space	Response Time
	Built-in Node	Windows T1 (amd64)	In sync	116.83 GB	3.53 GB	116.83 GB	0ms
	Data obtained	13 min	13 min	13 min	13 min	13 min	13 min

Step4:- name your new node and select permanent agent.



The screenshot shows the 'New node' page in Jenkins. The 'Node name' field is filled with 'slave1'. The 'Type' section has 'Permanent Agent' selected. A 'Create' button is at the bottom. The page footer shows 'REST API' and 'Jenkins 2.401.3'.

New node

Node name
slave1

Type
☒ Permanent Agent
Adds a plain, permanent agent to Jenkins. This is called "permanent" because Jenkins doesn't provide higher level of integration with these agents, such as dynamic provisioning. Select this type if no other agent types apply—for example such as when you are adding a physical computer, virtual machines managed outside Jenkins, etc.

Create

REST API Jenkins 2.401.3

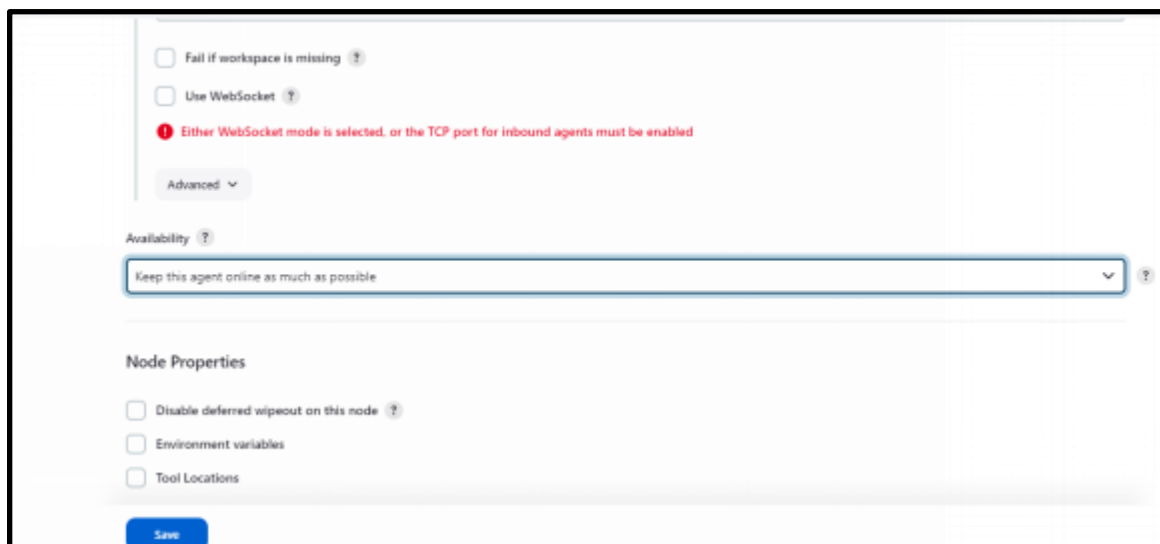
Step5:- click on the slave1 project and then on configure, make a folder name remotedirectory,go to that location and open it in cmd.



This screenshot shows the 'Configure' page for a Jenkins slave node. The configuration includes:

- Number of executors:** A text input field containing the value '1'.
- Remote root directory:** A text input field containing the path 'C:\jenkinsremotedir'.
- Labels:** A text input field containing the label 'win_slave'.
- Usage:** A dropdown menu with the selected option 'Use this node as much as possible'.
- Launch method:** A dropdown menu with the selected option 'Launch agent by connecting it to the controller'.

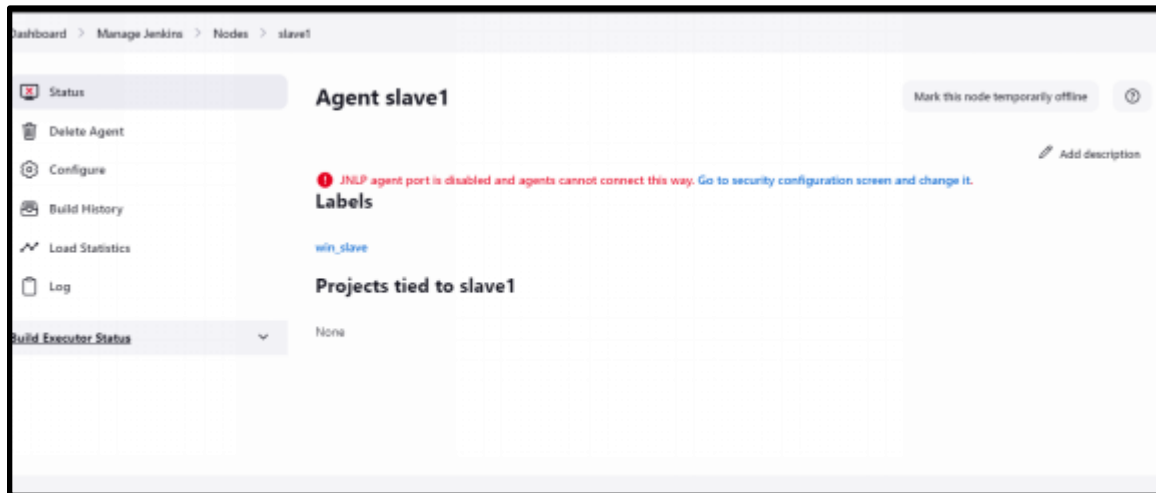
Step7:- add the availability, keep this agent as much as possible.



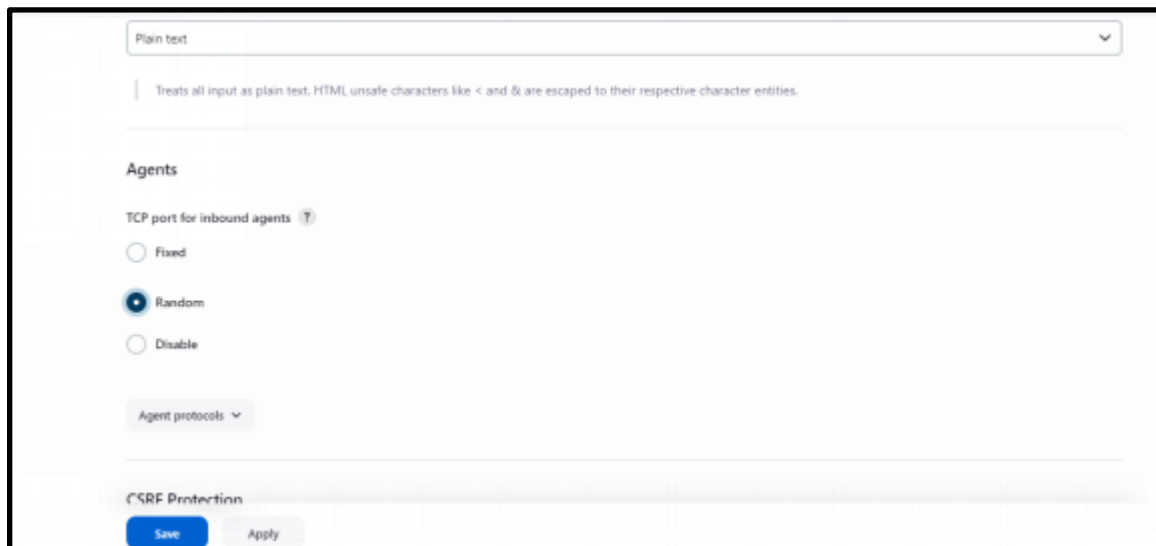
This screenshot shows the 'Advanced' section of the Jenkins slave configuration page. It includes:

- Fail if workspace is missing:** An unchecked checkbox.
- Use WebSocket:** An unchecked checkbox.
- Error message:** A red text message stating 'Either WebSocket mode is selected, or the TCP port for inbound agents must be enabled'.
- Advanced:** A dropdown menu currently set to 'Advanced'.
- Availability:** A dropdown menu with the selected option 'Keep this agent online as much as possible'.
- Node Properties:** A section containing three unchecked checkboxes: 'Disable deferred wipeout on this node', 'Environment variables', and 'Tool Locations'.
- Save:** A blue button at the bottom left.

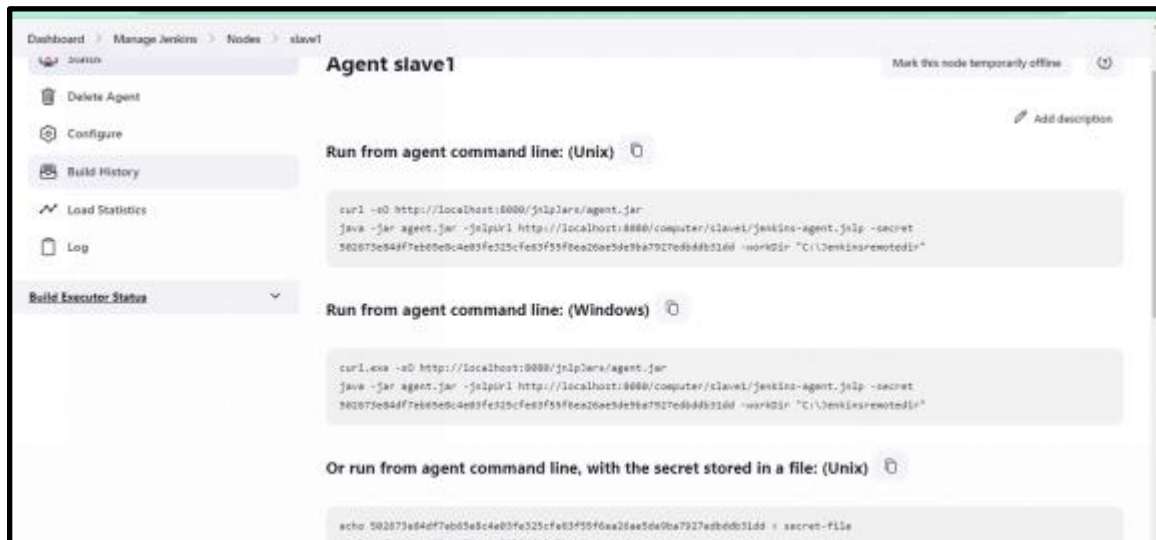
Step8:- after saving it , the error message should be visible.



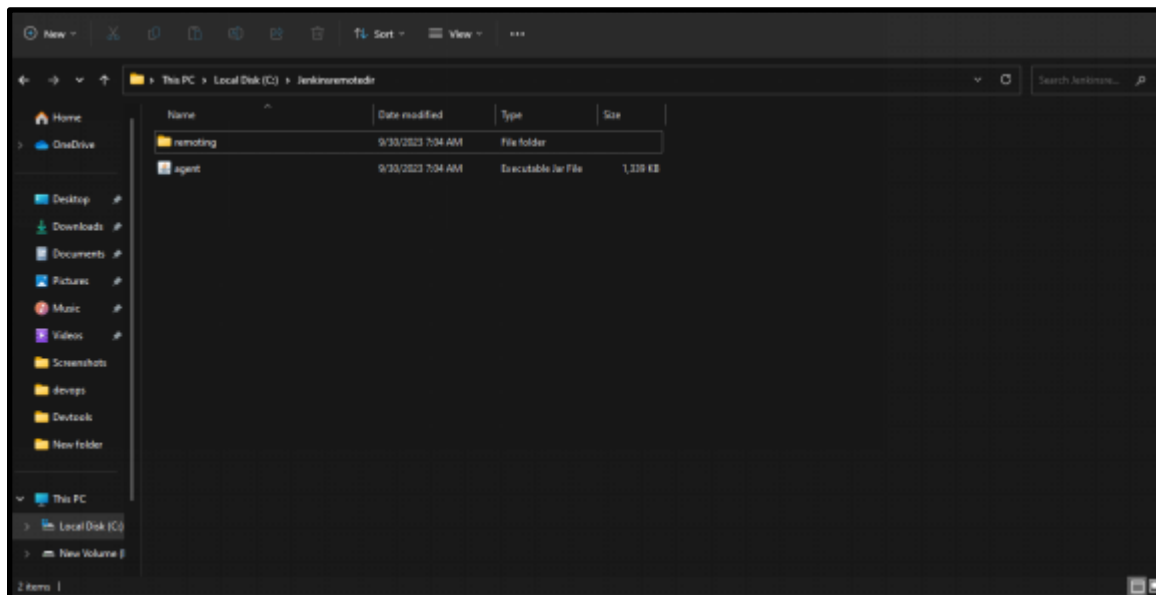
Step9:- go through the blur url,there and go to security configuration,select random and plain text.



Step10:- after saving run this commands on cmd, of the remotedirectory path.



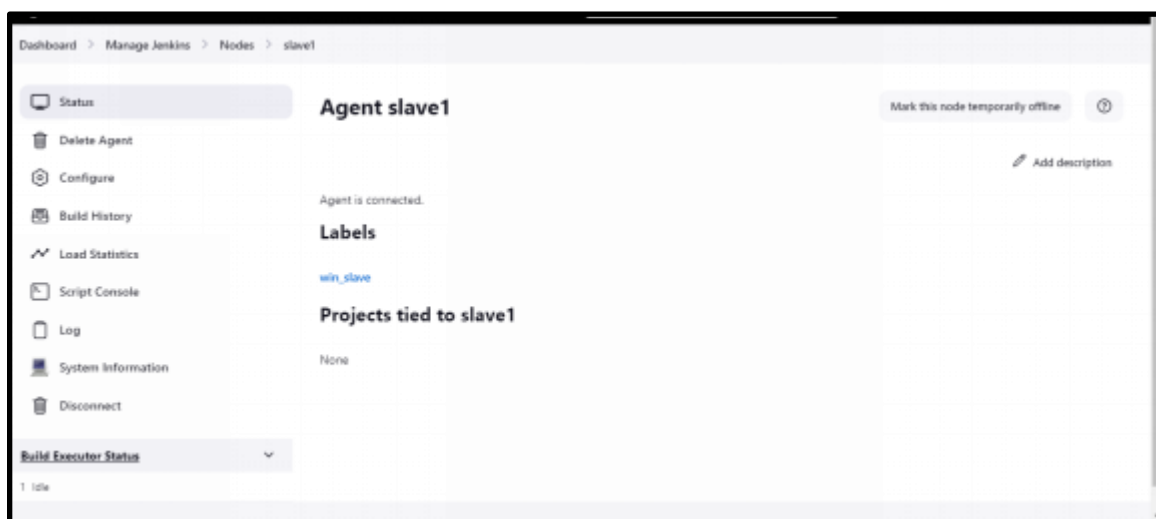
Step11:- it should be reflected here.



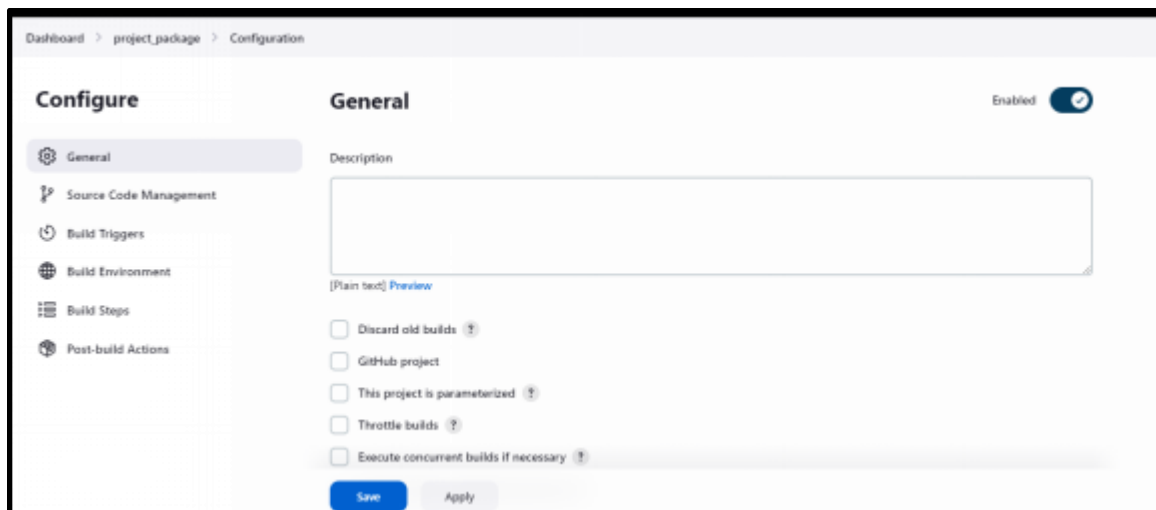
Step12:- after running the commands, it should show the info as connected.

```
C:\Windows\System32\cmd.e X + v
Sep 30, 2023 7:06:32 AM org.jenkinsci.remoting.engine.WorkDirManager setupLogging
INFO: Both error and output logs will be printed to C:\Jenkinsremotedir\remoting
Sep 30, 2023 7:06:32 AM hudson.remoting.jnlp.Main createEngine
INFO: Setting up agent: slave1
Sep 30, 2023 7:06:32 AM hudson.remoting.Engine startEngine
INFO: Using Remoting version: 3107.v665000b_51092
Sep 30, 2023 7:06:32 AM org.jenkinsci.remoting.engine.WorkDirManager initializeWorkDir
INFO: Using C:\Jenkinsremotedir\remoting as a remoting work directory
Sep 30, 2023 7:06:32 AM hudson.remoting.jnlp.Main$CuiListener status
INFO: Locating server among [http://localhost:8080/]
Sep 30, 2023 7:06:32 AM org.jenkinsci.remoting.engine.JnlpAgentEndpointResolver resolve
INFO: Remoting server accepts the following protocols: [JNLP4-connect, Ping]
Sep 30, 2023 7:06:32 AM hudson.remoting.jnlp.Main$CuiListener status
INFO: Agent discovery successful
    Agent address: localhost
    Agent port: 52044
    Identity: f2:88:94:ed:9e:26:c9:9c:c9:30:dc:b9:18:31:d8:b1
Sep 30, 2023 7:06:32 AM hudson.remoting.jnlp.Main$CuiListener status
INFO: Handshaking
Sep 30, 2023 7:06:32 AM hudson.remoting.jnlp.Main$CuiListener status
INFO: Connecting to localhost:52044
Sep 30, 2023 7:06:32 AM hudson.remoting.jnlp.Main$CuiListener status
INFO: Trying protocol: JNLP4-connect
Sep 30, 2023 7:06:32 AM org.jenkinsci.remoting.protocol.impl.BIONetworkLayer$Reader run
INFO: Waiting for ProtocolStack to start.
Sep 30, 2023 7:06:32 AM hudson.remoting.jnlp.Main$CuiListener status
INFO: Remote identity confirmed: f2:88:94:ed:9e:26:c9:9c:c9:30:dc:b9:18:31:d8:b1
Sep 30, 2023 7:06:32 AM hudson.remoting.jnlp.Main$CuiListener status
INFO: Connected
```

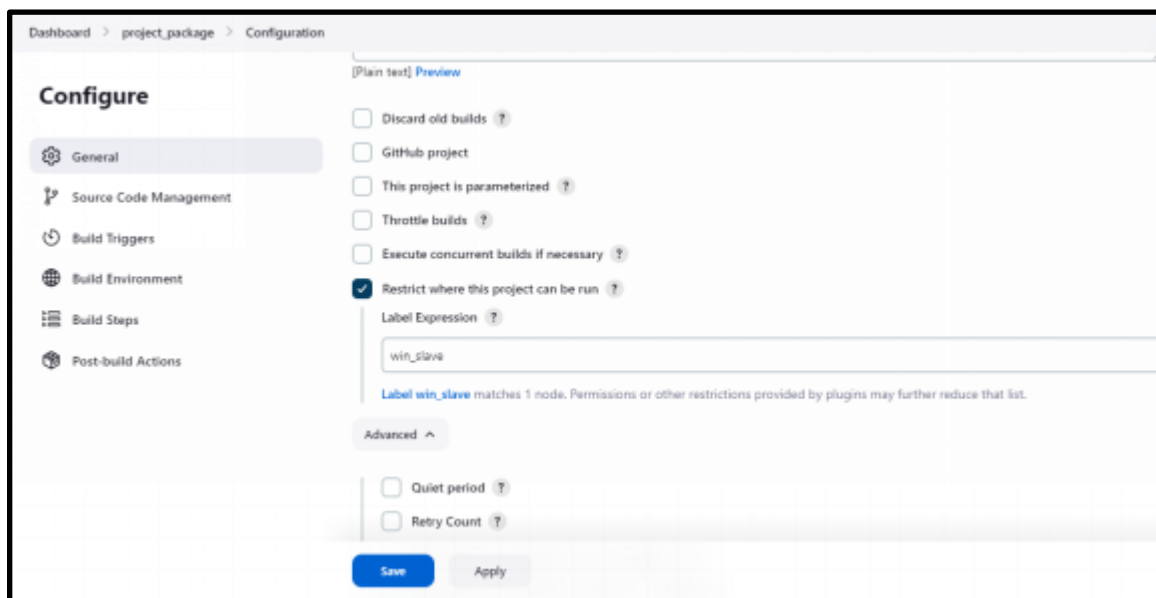
Step13:- go to any of the project and then on post build actions of project_package.



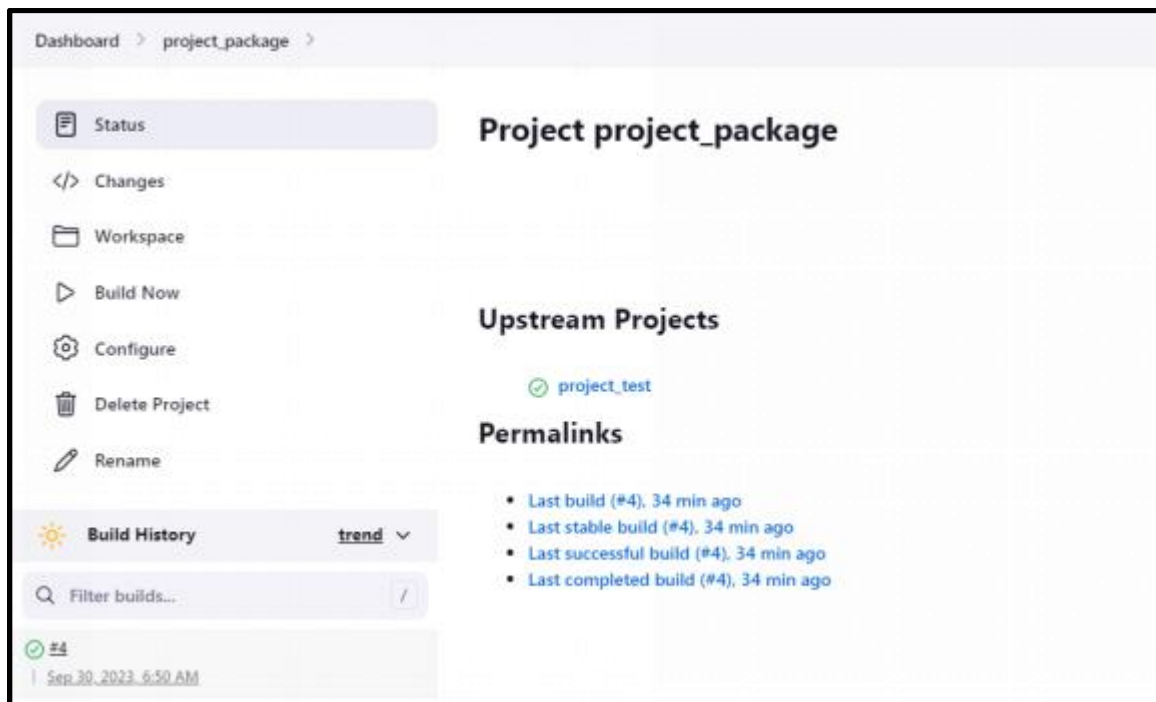
Step14:- project_package ,configure



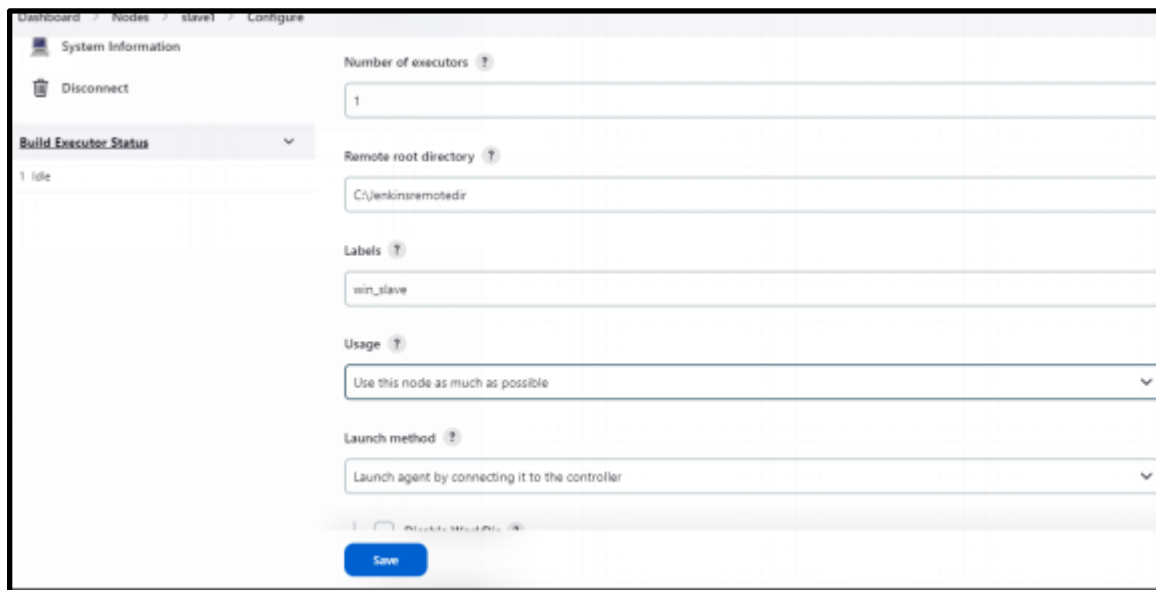
Step15:- restrict where the project can be run, is to be in win_slave.



Step16:- after build now it should be run successfully.



Step19:- Now go to nodes and clouds then click on project slave1 then configure.



Step20:-Go to the Tool Locations and select name as (git) default and go to program files and paste the git path in home.

Dashboard > Nodes > slave1 > Configure

☒ Tool Locations

List of tool locations 1

Name

(Git) Default

Home

C:\program Files\Git\bin

Add

Save

Step21:-Go to (jdk)java in program files and paste the path of jdk in home then save it.

Dashboard > Nodes > slave1 > Configure

Home

C:\Program Files\Git\bin

Name

(JDK) java

Home

C:\Program Files\Java\jdk-17\bin

Add

Save

Step22:-Go to the dashboard go to the win_slave .

Dashboard > win_slave >

Overview

win_slave

Configure

Load Statistics

Nodes

slave1

Projects

S	W	Name	Last Success	Last Failure	Last Duration
		mavenarruta	24 days #12	24 days #11	4.9 sec
		project_package	9 min 42 sec #5	4 min 3 sec #7	8.1 sec

Icons: S M L

icon legend

Atom feed for all

Atom feed for failures

Atom feed for just latest builds

Step23:-Go to Manage Jenkins then nodes and slave1 this would be the displayed output.

Jenkins

Search (CTRL+K)

Dashboard > Manage Jenkins > Nodes > slave1

Status

Delete Agent

Configure

Build History

Load Statistics

Script Console

Log

System Information

Disconnect

Agent slave1

Agent is connected.

Labels

win_slave

Projects tied to slave1

None

Build Executor Status

1 Idle