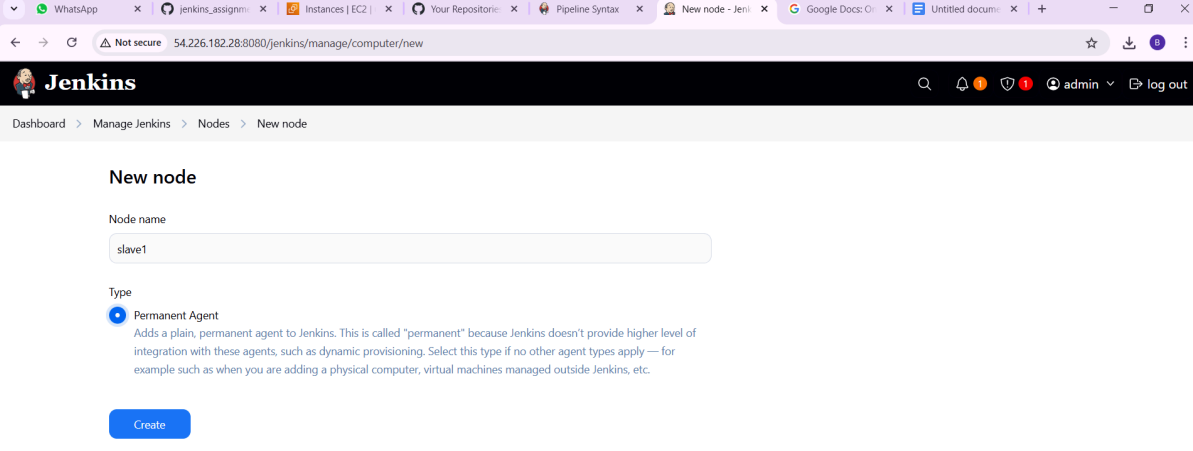
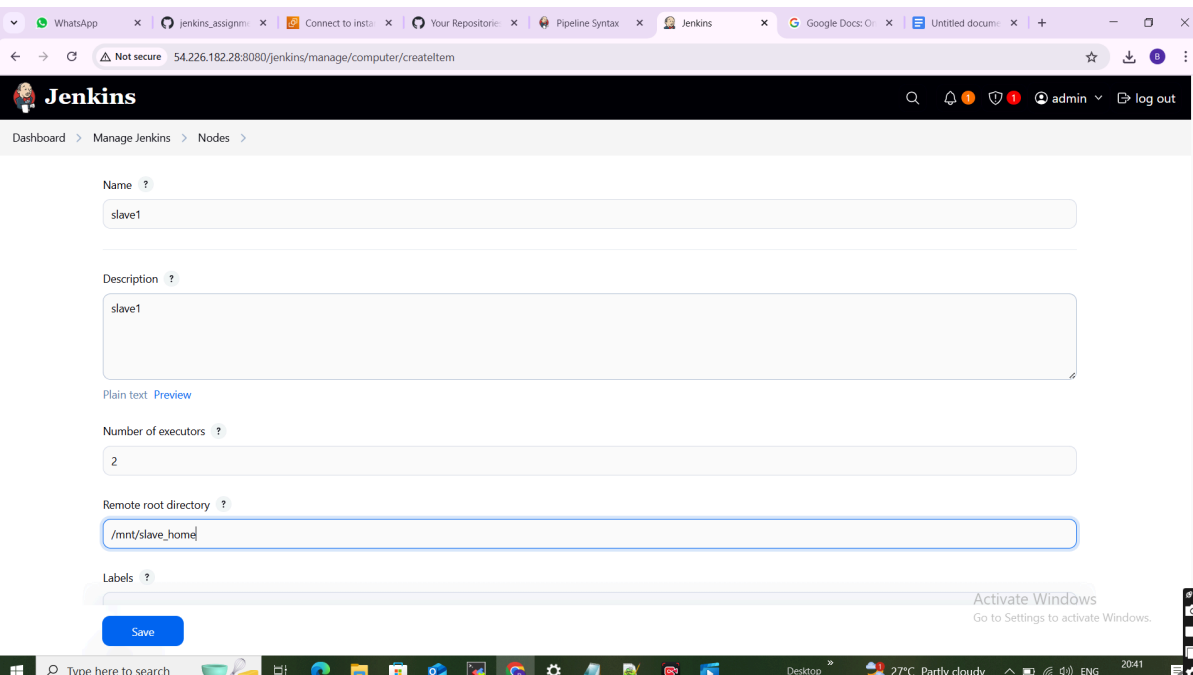


## Assignment 5: Create job on master and deploy war on slave



The screenshot shows the Jenkins 'New node' page. The browser address bar indicates the URL is `54.226.182.28:8080/jenkins/manage/computer/new`. The page title is 'New node'. Under 'Node name', the text 'slave1' is entered. Under 'Type', the 'Permanent Agent' radio button is selected. A description for 'Permanent Agent' is provided: '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.' A blue 'Create' button is at the bottom.



The screenshot shows the Jenkins 'createItem' page. The browser address bar indicates the URL is `54.226.182.28:8080/jenkins/manage/computer/createItem`. The page title is 'Jenkins'. The breadcrumb navigation is 'Dashboard > Manage Jenkins > Nodes >'. The form fields are: 'Name' with 'slave1', 'Description' with 'slave1', 'Number of executors' with '2', and 'Remote root directory' with '/mnt/slave\_home'. There is a 'Labels' field which is empty. A blue 'Save' button is at the bottom. An 'Activate Windows' watermark is visible in the bottom right corner.

Dashboard > Manage Jenkins > Nodes > slave1

Usage ?  
Use this node as much as possible

Launch method ?  
Launch agents via SSH

Host ?  
172.31.22.55

Credentials ?  
- current -  
+ Add

Host Key Verification Strategy ?  
Manually trusted key Verification Strategy

☒ Require manual verification of initial connection ?

Save

Activate Windows  
Go to Settings to activate Windows.

Desktop 27°C Partly cloudy 20:43 07-05-2025

Dashboard > Nodes > slave1 > Trust SSH Host Key

Do you want to trust the SSH Host Key with fingerprint d8:61:79:8a:88:77:33:f6:ce:43:e5:b6:46:bb:17:29 for future connections to this host? Yes No

- Status
- Delete Agent
- Configure
- Build History
- Load Statistics
- Log
- Trust SSH Host Key

Build Executor Status 0/2

slave1 (launching...)

Activate Windows  
Go to Settings to activate Windows.  
Jenkins 2.504.1

Desktop 20:43 07-05-2025

Dashboard > Nodes > slave1 > Log

```
UID=1000
USER=ec2-user
XDG_RUNTIME_DIR=/run/user/1000
XDG_SESSION_ID=4
_=/etc/bashrc
[05/07/25 15:14:09] [SSH] Starting sftp client.
[05/07/25 15:14:09] [SSH] Copying latest remoting.jar...
[05/07/25 15:14:10] [SSH] Copied 1,396,936 bytes.
Expanded the channel window size to 4MB
[05/07/25 15:14:10] [SSH] Starting agent process: cd "/mnt/slave_home" && java -jar remoting.jar -workDir /mnt/slave_home -jar-cache /mnt/slave_home/remoting/jarCache
May 07, 2025 3:14:10 PM org.jenkinsci.remoting.engine.WorkDirManager initializeWorkDir
INFO: Using /mnt/slave_home/remoting as a remoting work directory
May 07, 2025 3:14:10 PM org.jenkinsci.remoting.engine.WorkDirManager setupLogging
INFO: Both error and output logs will be printed to /mnt/slave_home/remoting
<==[JENKINS REMOTING CAPACITY]==>channel started
Remoting version: 3301.v4363ddcca_4e7
Launcher: SSHLauncher
Communication Protocol: Standard in/out
This is a Unix agent
Agent successfully connected and online
The Agent is connected, disconnect it before to try to connect it again.
```

Activate Windows  
Go to Settings to activate Windows.  
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Dashboard > New Item

## New Item

Enter an item name

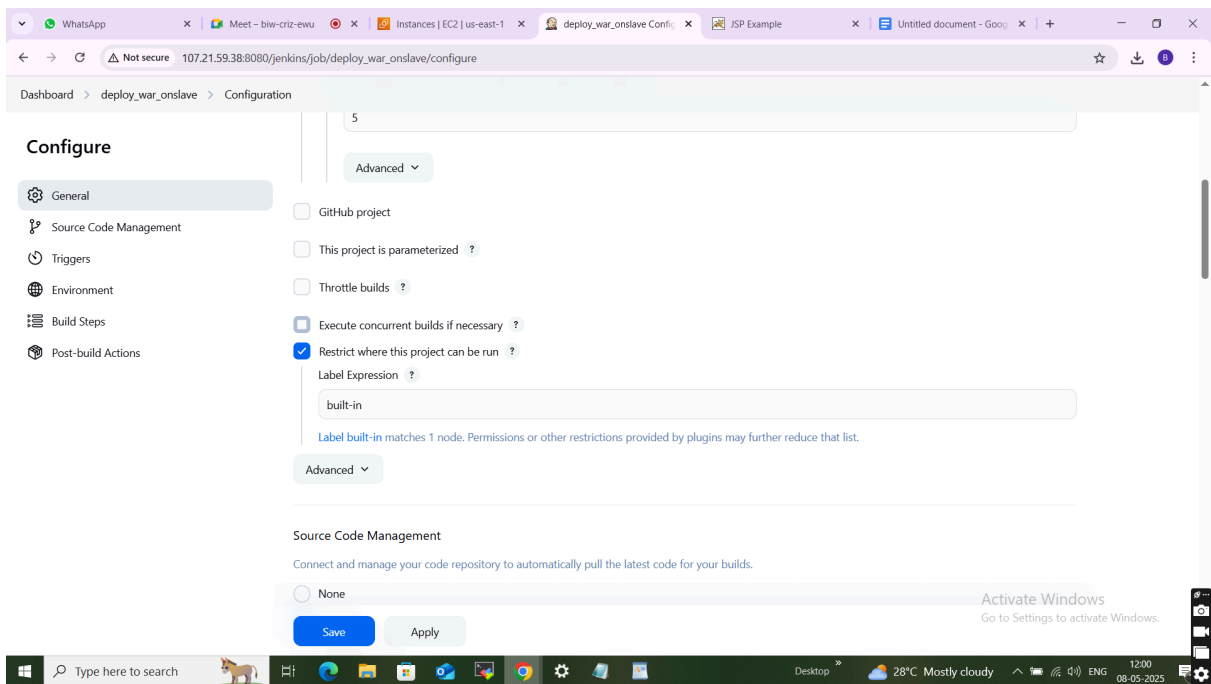
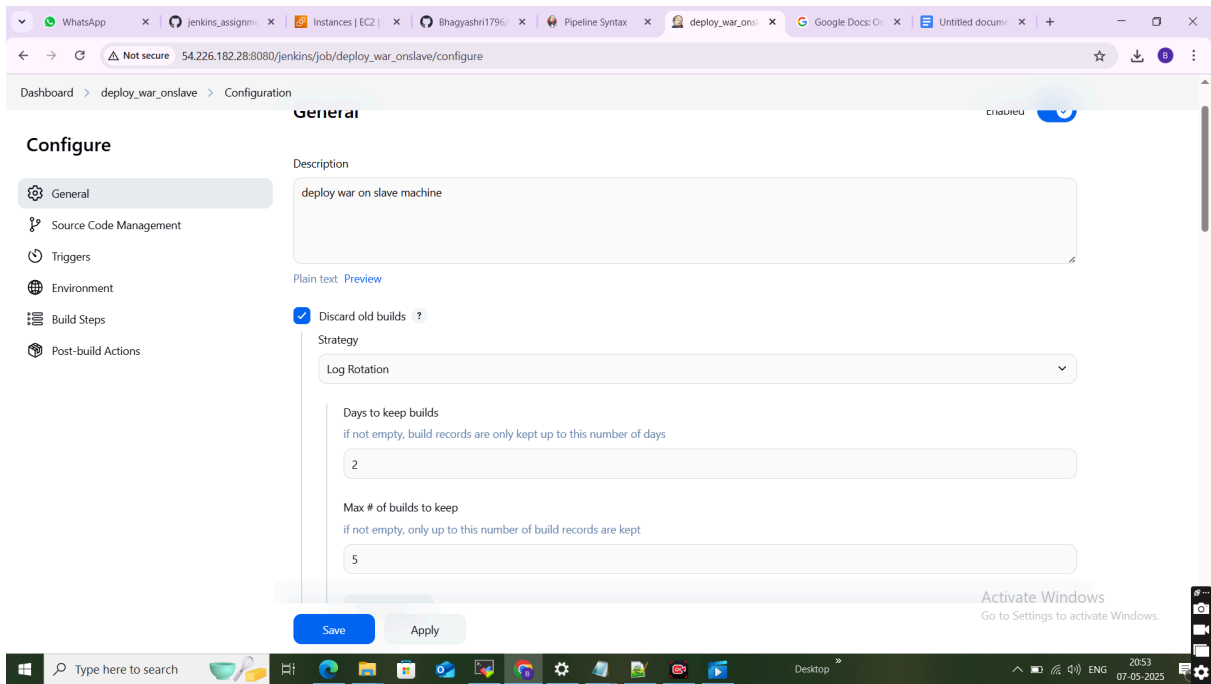
deploy\_war\_onslave

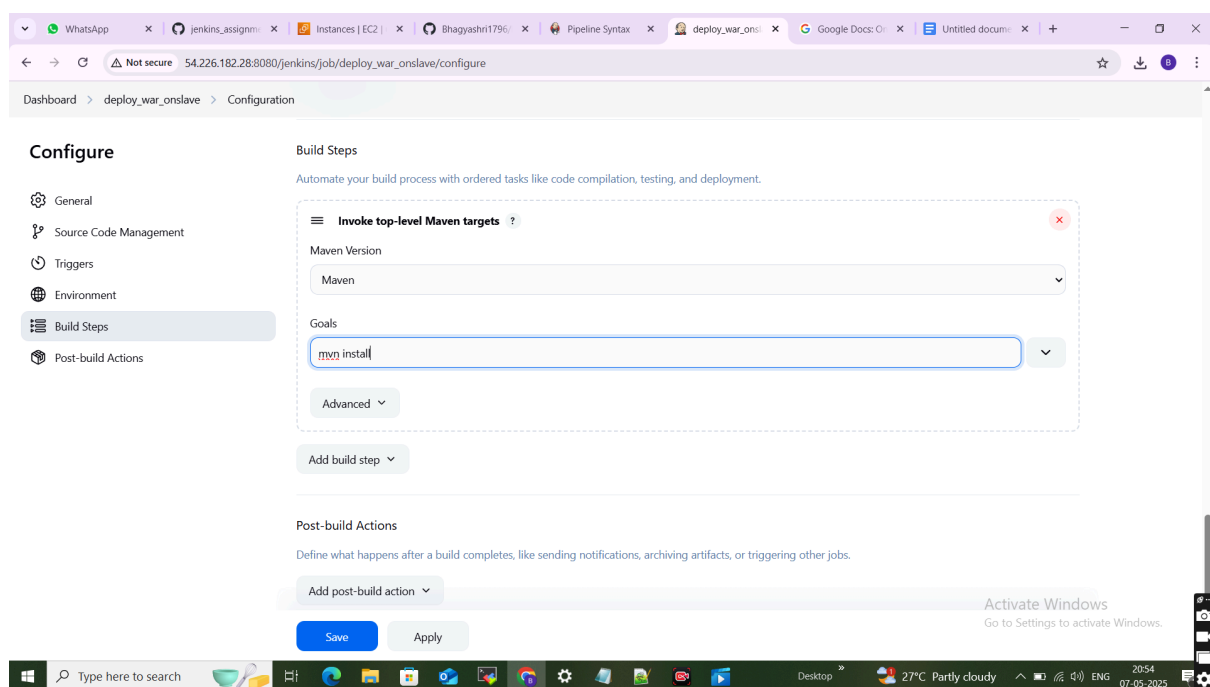
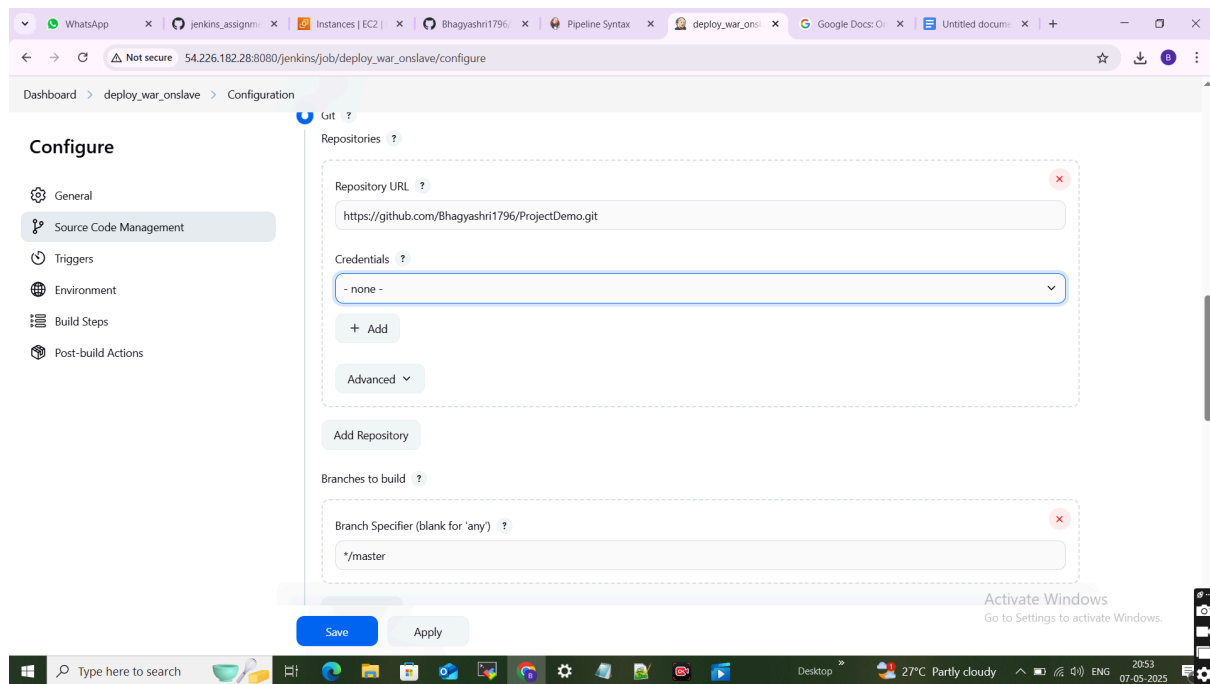
Select an item type

-  **Freestyle project**  
Classic, general-purpose job type that checks out from up to one SCM, executes build steps serially, followed by post-build steps like archiving artifacts and sending email notifications.
-  **Pipeline**  
Orchestrates long-running activities that can span multiple build agents. Suitable for building pipelines (formerly known as workflows) and/or organizing complex activities that do not easily fit in free-style job type.
-  **Multi-configuration project**  
Suitable for projects that need a large number of different configurations, such as testing on multiple environments, platform-specific builds, etc.
-  **Folder**  
Creates a container that stores nested items in it. Useful for grouping things together. Unlike view, which is just a filter, a folder creates a separate namespace, so you can have multiple things of the same name as long as they are in different folders.

OK

Activate Windows  
Go to Settings to activate Windows.





```

chmod 400 /root/"us-virginia-key.pem"
scp -o StrictHostKeyChecking=no -i /root/"us-virginia-key.pem"
/root/.jenkins/workspace/deploy_war_onslave/target/LoginWebApp.war
ec2-user@34.201.94.135:/mnt/servers/apache-tomcat-10.1.40/webapps/

```

Dashboard > deploy\_war\_onslave > Configuration

## Configure

- General
- Source Code Management
- Triggers
- Environment
- Build Steps**
- Post-build Actions

### Build Steps

Automate your build process with ordered tasks like code compilation, testing, and deployment.

#### Invoke top-level Maven targets ?

Maven Version  
Maven

Goals  
clean install

Advanced ▾

#### Execute shell ?

Command  
[See the list of available environment variables](#)

```
chmod 400 /root/"us-virginia-key.pem"  
scp -o StrictHostKeyChecking=no -i /root/"us-virginia-key.pem" /root/.jenkins/workspace/deploy_war_onslave/target/LoginWebApp.war /root/.jenkins/workspace/deploy_war_onslave/target/LoginWebApp.war
```

Save Apply

Activate Windows  
Go to Settings to activate Windows.

Dashboard > deploy\_war\_onslave > #18 > Console Output

```
[INFO] --- surefire:3.2.5:test (default-test) @ LoginWebApp ---  
[INFO] No tests to run.  
[INFO]  
[INFO] --- war:3.4.0:war (default-war) @ LoginWebApp ---  
[INFO] Packaging webapp  
[INFO] Assembling webapp [LoginWebApp] in [/root/.jenkins/workspace/deploy_war_onslave/target/LoginWebApp]  
[INFO] Processing war project  
[INFO] Copying webapp resources [/root/.jenkins/workspace/deploy_war_onslave/src/main/webapp]  
[INFO] Building war: /root/.jenkins/workspace/deploy_war_onslave/target/LoginWebApp.war  
[INFO]  
[INFO] --- install:3.1.2:install (default-install) @ LoginWebApp ---  
[INFO] Installing /root/.jenkins/workspace/deploy_war_onslave/pom.xml to /root/.m2/repository/com/javawebtutor/LoginWebApp/1.0-SNAPSHOT/LoginWebApp-1.0-SNAPSHOT.pom  
[INFO] Installing /root/.jenkins/workspace/deploy_war_onslave/target/LoginWebApp.war to /root/.m2/repository/com/javawebtutor/LoginWebApp/1.0-SNAPSHOT/LoginWebApp-1.0-SNAPSHOT.war  
[INFO] -----  
[INFO] BUILD SUCCESS  
[INFO] -----  
[INFO] Total time: 3.524 s  
[INFO] Finished at: 2025-05-08T06:02:45Z  
[INFO] -----  
[deploy_war_onslave] $ /bin/sh -xe /mnt/servers/apache-tomcat-10.1.40/temp/jenkins15626131128329798771.sh  
+ cp /root/.jenkins/workspace/deploy_war_onslave/target/LoginWebApp.war /mnt/servers/apache-tomcat-10.1.40/webapps/LoginWebApp.war  
Finished: SUCCESS
```

Activate Windows  
Go to Settings to activate Windows.  
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