

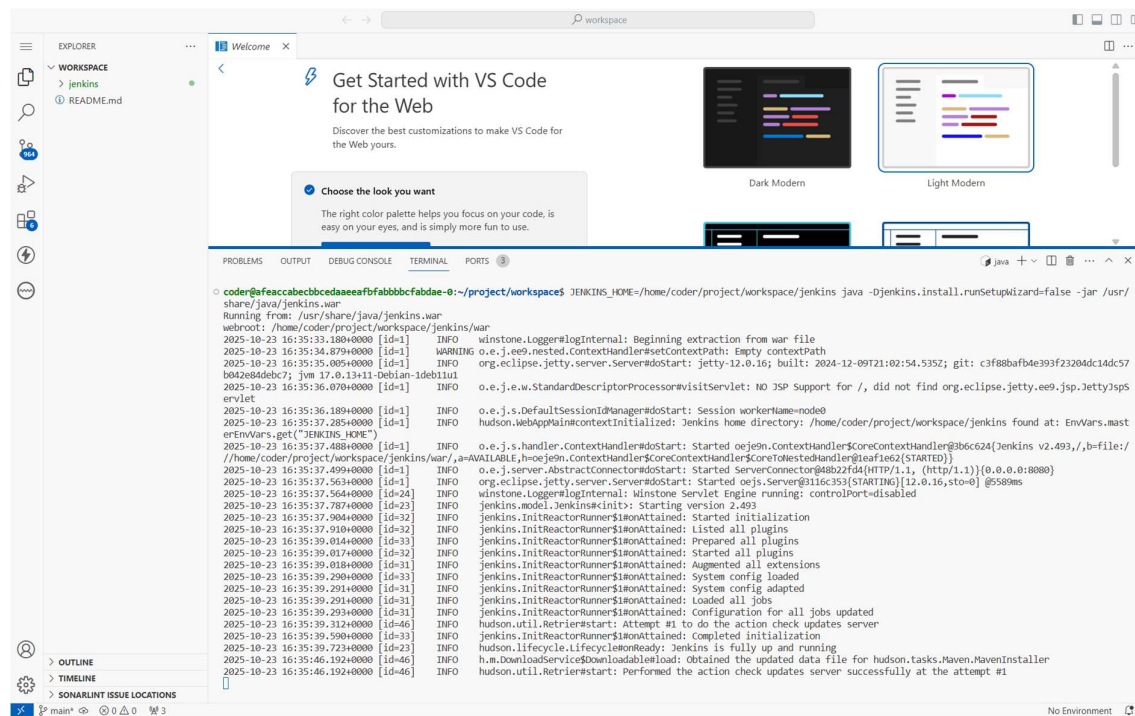
## Jenkins Sdet Python

Step 1: Open the workspace of Jenkins Project.

Step 2: copy the path of Jenkins\_home

“JENKINS\_HOME=/home/coder/project/workspace/jenkins java -Djenkins.install.runSetupWizard=false -jar /usr/share/java/jenkins.war”

Step 3: open the terminal and paste the jenkins url and past and press enter



The screenshot shows the Visual Studio Code (VS Code) interface. The Explorer panel on the left shows a workspace named 'workspace' with a file named 'jenkins' and a sub-file 'README.md'. The main editor area displays a 'Welcome' page with a 'Get Started with VS Code for the Web' message and a 'Choose the look you want' button. Below the editor, the 'TERMINAL' panel is open, showing the command prompt and the output of the Jenkins startup process. The command entered is:

```
code@fecaccbcbceda6aefabbbcfabdae-0:~/project/workspaces$ JENKINS_HOME=/home/coder/project/workspace/jenkins java -Djenkins.install.runSetupWizard=false -jar /usr/share/java/jenkins.war
```

The output shows the following logs:

```
Running from: /usr/share/java/jenkins.war
webroot: /home/coder/project/workspace/jenkins/war
2025-10-23 16:35:33.18040000 [id=1] INFO winstone.Logger#logInternal: Beginning extraction from war file
2025-10-23 16:35:34.87940000 [id=1] WARNING o.e.j.ee9.nested.ContextHandler$setContextPath: Empty contextPath
2025-10-23 16:35:35.00540000 [id=1] INFO org.eclipse.jetty.server.Server#doStart: jetty-12.0.16; built: 2024-12-09T21:02:54.535Z; git: c3f88bafbe393f23204dc14dc57
16942084de8c7; jvm 17.0.13+11 Debian-1deb11u1
2025-10-23 16:35:36.07040000 [id=1] INFO o.e.j.e.w.StandardDescriptorProcessor$visitServlet: NO JSP Support for /, did not find org.eclipse.jetty.ee9.jsp.JettyJspS
ervlet
2025-10-23 16:35:36.18940000 [id=1] INFO o.e.j.s.DefaultSessionIdManager#doStart: Session workerName=node0
2025-10-23 16:35:37.28540000 [id=1] INFO hudson.WebAppMain#contextInitialized: Jenkins home directory: /home/coder/project/workspace/jenkins found at: EnvVars.mast
erEnvVars.get("JENKINS_HOME")
2025-10-23 16:35:37.48840000 [id=1] INFO o.e.j.s.handler.ContextHandler#doStart: Started oeje9n.ContextHandler$CoreContextHandler@b6c624(Jenkins v2.493./,b=file:/
/home/coder/project/workspace/jenkins/war/,a=AVAILABLE,h=oeje9n.ContextHandler$CoreContextHandler$CoreNestedHandler@1eaf1662(STARTED))
2025-10-23 16:35:37.40940000 [id=1] INFO o.e.j.server.AbstractConnector#doStart: Started ServerConnector@40822f64(HTTP/1.1, ((http/1.1))[(0.0.0.0:8080)
org.eclipse.jetty.server.Server#doStart: Started oejs.Server@3116c353(STARTING)[12.0.16,sto=0] @5588ms
2025-10-23 16:35:37.56440000 [id=24] INFO winstone.Logger#logInternal: Winstone Servlet Engine running: controlPort=disabled
2025-10-23 16:35:37.78740000 [id=23] INFO Jenkins.model.Jenkins#init: Starting version 2.493
2025-10-23 16:35:37.90440000 [id=32] INFO Jenkins.InitReactorRunner$RunAttained: Started initialization
2025-10-23 16:35:37.91040000 [id=32] INFO Jenkins.InitReactorRunner$RunAttained: Listed all plugins
2025-10-23 16:35:39.01440000 [id=33] INFO Jenkins.InitReactorRunner$RunAttained: Prepared all plugins
2025-10-23 16:35:39.01740000 [id=32] INFO Jenkins.InitReactorRunner$RunAttained: Started all plugins
2025-10-23 16:35:39.01840000 [id=31] INFO Jenkins.InitReactorRunner$RunAttained: Augmented all extensions
2025-10-23 16:35:39.29040000 [id=33] INFO Jenkins.InitReactorRunner$RunAttained: System config loaded
2025-10-23 16:35:39.29140000 [id=31] INFO Jenkins.InitReactorRunner$RunAttained: System config adapted
2025-10-23 16:35:39.29140000 [id=31] INFO Jenkins.InitReactorRunner$RunAttained: Loaded all jobs
2025-10-23 16:35:39.29340000 [id=31] INFO Jenkins.InitReactorRunner$RunAttained: Configuration for all jobs updated
2025-10-23 16:35:39.31240000 [id=46] INFO hudson.util.Retrier#start: Attempt #1 to do the action check updates server
2025-10-23 16:35:39.59040000 [id=33] INFO Jenkins.InitReactorRunner$RunAttained: Completed initialization
2025-10-23 16:35:39.72340000 [id=23] INFO hudson.lifecycle.Lifecycle#onReady: Jenkins is fully up and running
2025-10-23 16:35:46.19240000 [id=46] INFO h.m.DownloadService$Downloadable#load: Obtained the updated data file for hudson.tasks.Maven.MavenInstaller
2025-10-23 16:35:46.19240000 [id=46] INFO hudson.util.Retrier#start: Performed the action check updates server successfully at the attempt #1
```

Step 4: once the Jenkins is running successful. Kindly click on 8080 port.

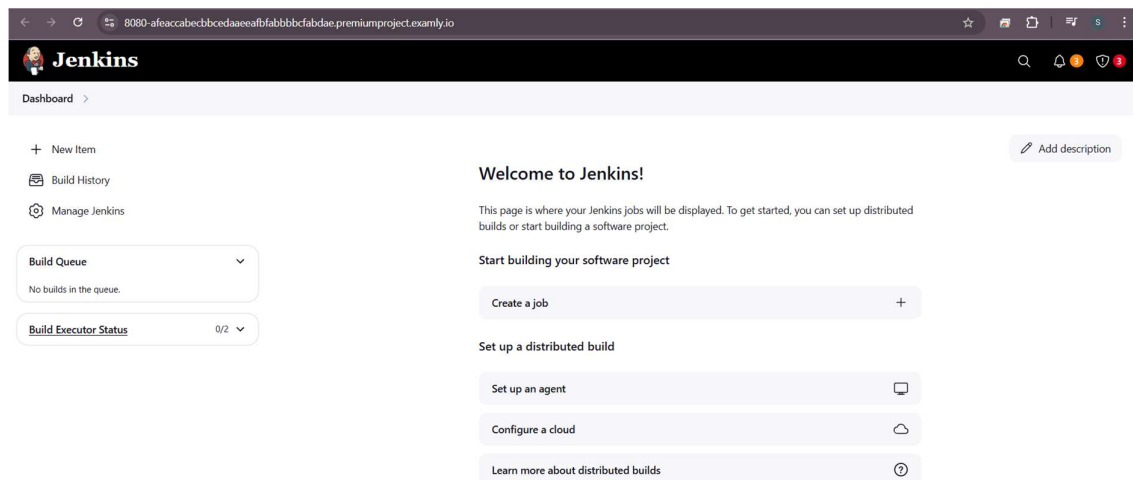
[Back To Course](#)PORT: [8081](#), [8080](#)[Commit History](#) ▼

## SDET\_Jenkins\_Project

To Install Jenkins in the workspace :

```
JENKINS_HOME=/home/coder/project/workspace/jenkins java -Djenkins.install.runSetupWizard=false -jar /usr/share/java/jenkins.war
```

Step 5: once click on 8080 it will open the dashboard of Jenkins.



Step 6: check the node is online or not

Click on manage Jenkins

Scroll down and click on Nodes

Dashboard > Manage Jenkins

Warnings have been published for the following currently installed components: [Configure which of these warnings are shown](#)

Jenkins 2.493 core and libraries:  
 Multiple security vulnerabilities in Jenkins 2.527 and earlier, LTS 2.516.2 and earlier  
 Multiple security vulnerabilities in Jenkins 2.503 and earlier, LTS 2.492.2 and earlier  
 Multiple security vulnerabilities in Jenkins 2.499 and earlier, LTS 2.492.1 and earlier  
 Fixes for all of these issues are available. Update Jenkins now.

### System Configuration

- System**  
Configure global settings and paths.
- Tools**  
Configure tools, their locations and automatic installers.
- Plugins**  
Add, remove, disable or enable plugins that can extend the functionality of Jenkins.
- Nodes**  
Add, remove, control and monitor the various nodes that Jenkins runs jobs on.
- Clouds**  
Add, remove, and configure cloud instances to provision agents on-demand.

### Security

- Security**  
Secure Jenkins; define who is allowed to access/use the system.

### Status Information

System Information   System Log   Load Statistics

In that click on built in node

Dashboard > Manage Jenkins > Nodes

Nodes New Node Configure Monitors Refresh

S	Name	Architecture	Clock Difference	Free Disk Space	Free Swap Space	Free Temp Space	Response Time
	Built-In Node	Linux (amd64)	In sync	1.78 GiB	0 B	11.13 GiB	0ms
	Data obtained	6 min 43 sec	6 min 43 sec	6 min 43 sec	6 min 43 sec	6 min 43 sec	6 min 43 sec

Build Queue: No builds in the queue.

Build Executor Status: 0/2

Icon: S M L Legend

And Verify that this option should be visible

Dashboard > Manage Jenkins > Nodes > Built-In Node

Built-In Node Mark this node temporarily offline Help

This is the Jenkins controller's built-in node. Builds running on this node will execute on the same system and as the same user as the Jenkins controller. This is appropriate e.g. for special jobs performing backups, but in general you should run builds on agents. [Learn more about distributed builds.](#)

Monitoring Data

Projects tied to Built-In Node

None

Build Executor Status: 0/2

If this is visible that means your node is online

Step 7:

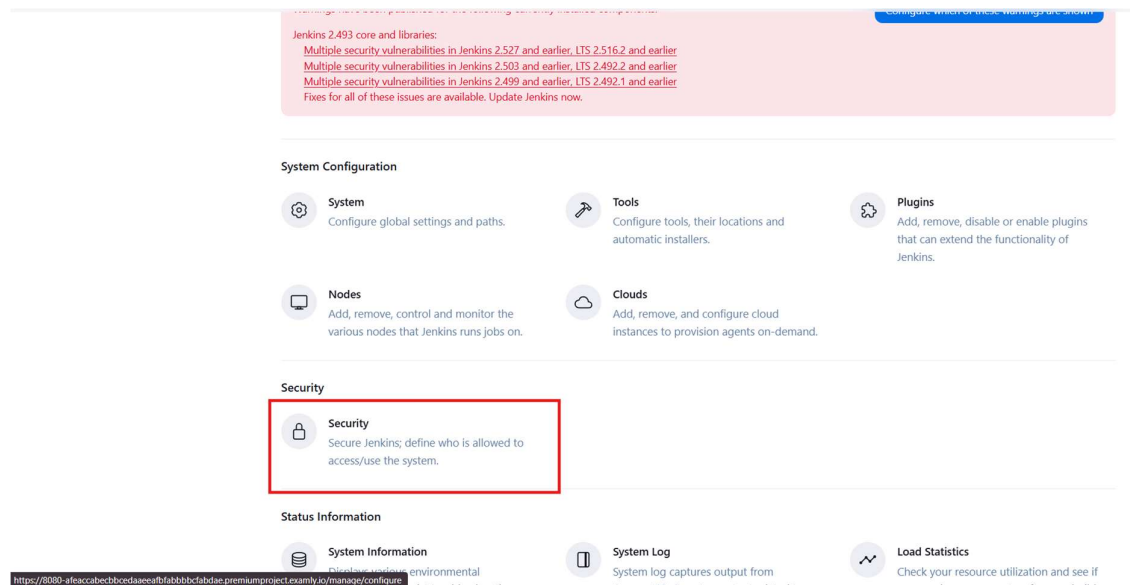
We need to enable the Enable proxy compatibility server.

To this first come to home page of Jenkins by clicking on the Logo.

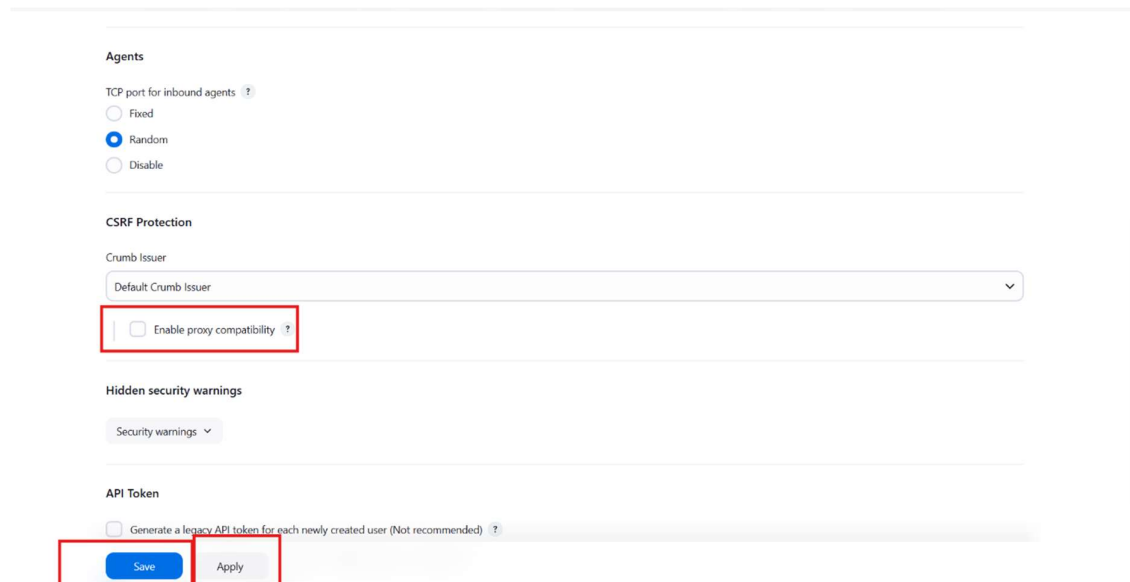


Then click on manage Jenkins

And scroll down and click on security



Scroll down till CSRF Protection  
and click on Enable proxy compatibility



And click on apply and then save  
if error occur

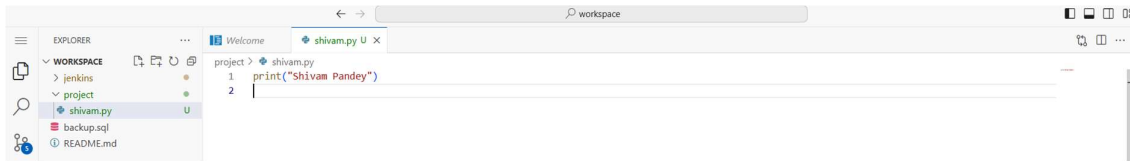
**HTTP ERROR 403 No valid crumb was included in the request**

URI: /manage/configureSecurity/configure  
STATUS: 403  
MESSAGE: No valid crumb was included in the request  
SERVLET: Stapler

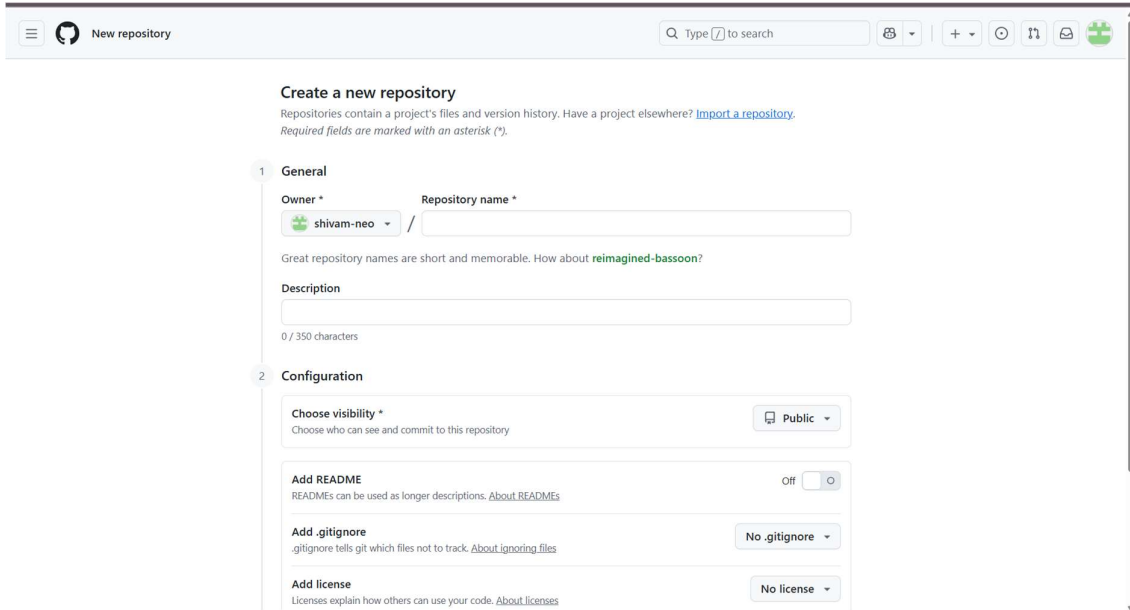
Powered by Jetty:// 12.0.16

Go back and do the steps again

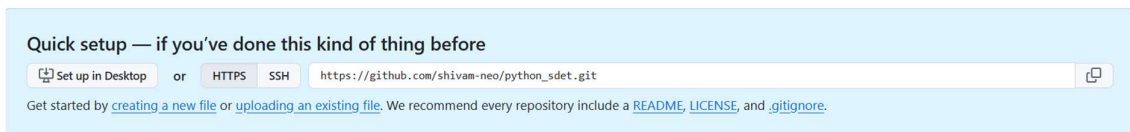
After save come back to Project workspace create a project and add the python code



After this kindly login the github and create a new repo



After creating the repo kindly copy the Https url.



After copy kindly and back to workspace and now do the git operations in the new terminal

- git init
- git remote add origin url
- git add .
- git commit -m "message"
- git push origin main

Then after push one pop up will come kindly allow that

Then one code will be generated kindly copy the code and click on copy and continue

Then one more pop up will come copy the url “https://github.com/login/device” and paste in new tab and give the code in that and click on authorized the vs code

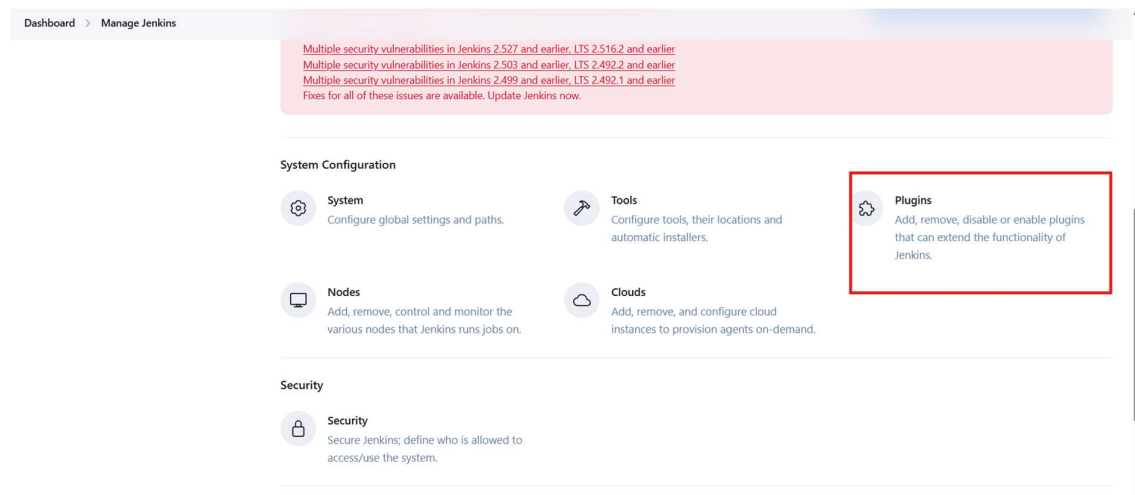
Once authorized the code will be push to the GitHub

Step 8:

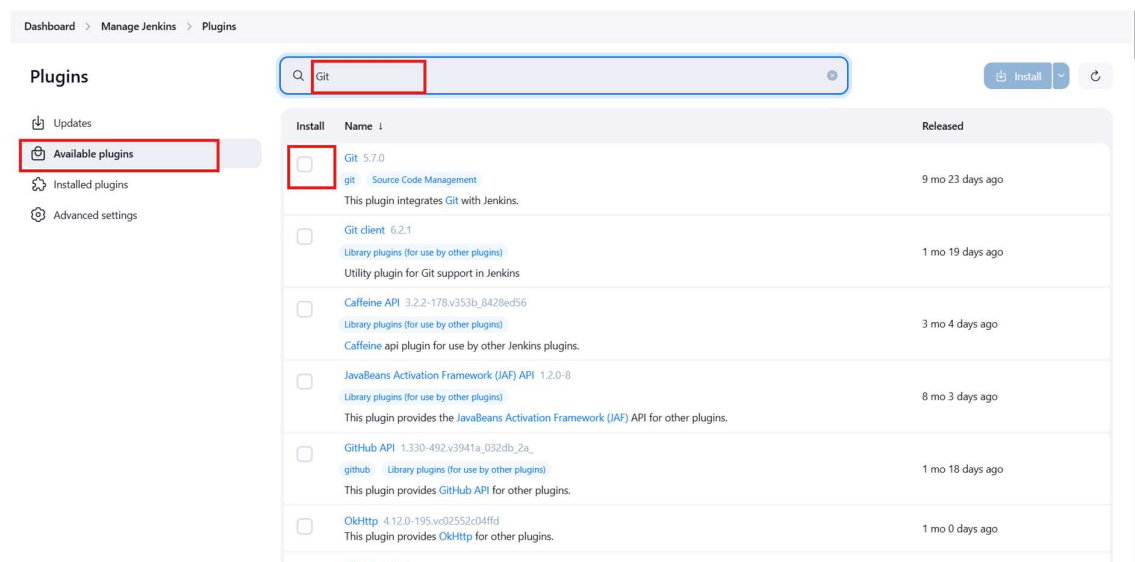
Install the plugin of git in Jenkins

Open the Jenkins port 8080 and go to the dashboard and click on manage Jenkins

Scroll down and click on Plugins



And then click on available plugins and then click on search bar and enter git and select the first one and click on install



Once install kindly click the checkbox of restart one

Dashboard > Manage Jenkins > Plugins

### Plugins

- Updates
- Available plugins
- Installed plugins
- Advanced settings
- Download progress**

Variant	✓ Success
SSH Credentials	✓ Success
Credentials Binding	✓ Success
Pipeline: SCM Step	✓ Success
Mina SSHD API :: Common	✓ Success
Mina SSHD API :: Core	✓ Success
Apache HttpComponents Client 4.x API	✓ Success
Caffeine API	✓ Success
Script Security	✓ Success
Gson API	✓ Success
Git client	✓ Success
ASM API	✓ Success
SCM API	✓ Success
Jakarta Activation API	✓ Success
Jakarta Mail API	✓ Success
Instance Identity	✓ Success
Display URL API	✓ Success
Mailer	✓ Success
Git	✓ Success
Loading plugin extensions	✓ Success

→ [Go back to the top page](#)  
(you can start using the installed plugins right away)

→ ☐ Restart Jenkins when installation is complete and no jobs are running

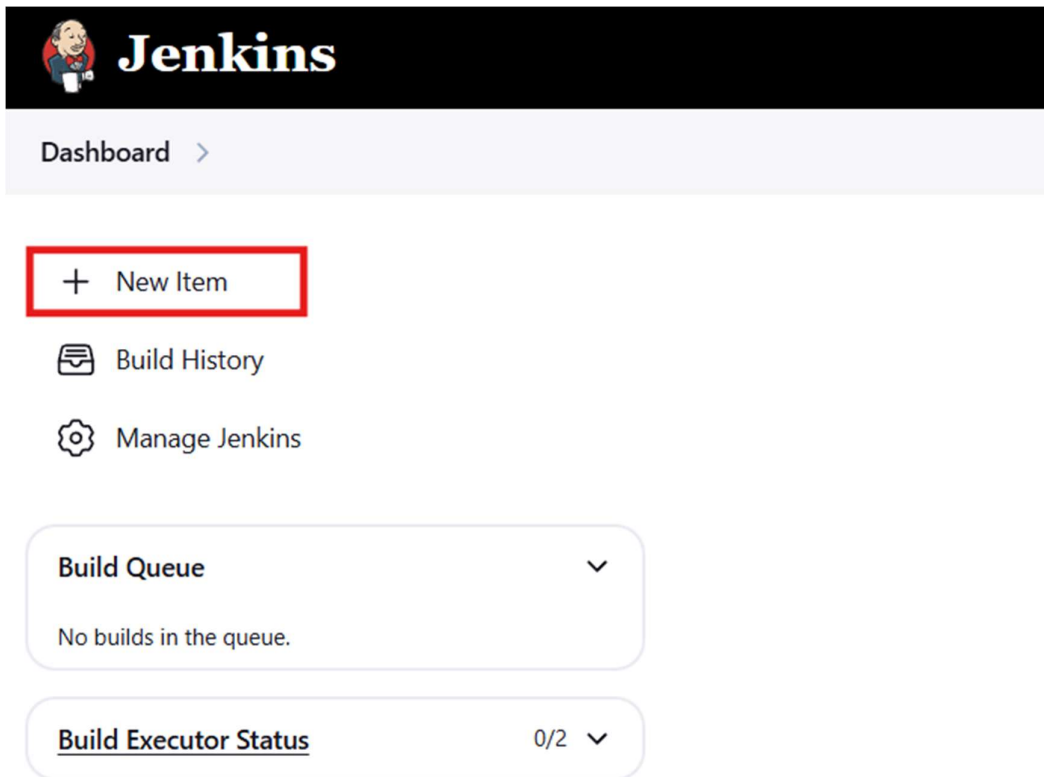
Once done then

Step 9:

Now need to create a job

Click on Jenkins logo to go back to dashboard

Click on new Item




Give the name for the job and click on free style and then click on okay

**New Item**

Enter an item name

iamneo

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.

OK

Then in source Code Management  
click on git

And give the repo url

And change the branch to main from master



**Configure**

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

☐ None

☒ Git ?

Repositories ?

Repository URL ?

`https://github.com/shivam-neo/python_sdet.git`

Credentials ?

- none -

+ Add

Advanced ▾

Add Repository

Branches to build ?

Branch Specifier (blank for 'any') ?

`*/main`

Add Branch

In Trigger i want after ever mi n it should run so i have configure like that

### Triggers

Set up automated actions that start your build based on specific events, like code changes or scheduled times.

☐ Build after other projects are built ?

☒ Build periodically ?

Schedule ?

\*\*\*\*\*

⚠ Do you really mean "every minute" when you say "\*\*\*\*\*"? Perhaps you meant "H\*\*\*\*\*" to poll once per hour

Would last have run at Thursday, October 23, 2025 at 5:49:08 PM Coordinated Universal Time; would next run at Thursday, October 23, 2025 at 5:49:08 PM Coordinated Universal Time.

☐ Poll SCM ?

And last Build Steps in that select the Execute shell(linux)

### Build Steps

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

Add build step ^

Filter

Execute Windows batch command

**Execute shell**

Invoke top-level Maven targets

Add post-build action ▾

completes, like sending notifications, archiving artifacts, or triggering other job

And the code which need to be given in the terminal

## Build Steps

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

≡ Execute shell ?

Command

See the list of available environment variables

python3 project/shivam.py

After this apply and save

## Output

Dashboard > iamneo >

Status

Changes

Workspace

Build Now

Configure

Delete Project

Rename

Credentials

Builds

Today

#1 5:55 PM

iamneo

Permalinks

Add description

Dashboard > iamneo > #1 > Console Output

Status

Changes

Console Output

Edit Build Information

Delete build '#1'

Git Build Data

Download

Copy

View as plain text

Started by timer

Running as SYSTEM

Building in workspace /home/coder/project/workspace/jenkins/workspace/iamneo

The recommended git tool is: NONE

No credentials specified

Cloning the remote Git repository

Cloning repository https://github.com/shivam-neo/python\_sdet.git

> git init /home/coder/project/workspace/jenkins/workspace/iamneo # timeout=10

Fetching upstream changes from https://github.com/shivam-neo/python\_sdet.git

> git --version # timeout=10

> git --version # 'git version 2.30.2'

> git fetch --tags --force --progress -- https://github.com/shivam-neo/python\_sdet.git +refs/heads/\*:refs/remotes/origin/\* # timeout=10

> git config remote.origin.url https://github.com/shivam-neo/python\_sdet.git # timeout=10

> git config --add remote.origin.fetch +refs/heads/\*:refs/remotes/origin/\* # timeout=10

Avoid second fetch

> git rev-parse refs/remotes/origin/main^{commit} # timeout=10

Checking out Revision 7249dc3d2bfa5fc1484b5776d152121626f6d0d0 (refs/remotes/origin/main)

> git config core.sparsecheckout # timeout=10

> git checkout -f 7249dc3d2bfa5fc1484b5776d152121626f6d0d0 # timeout=10

Commit message: "xyzs"

First time build. Skipping changelog.

[iamneo] \$ /bin/sh -xe /tmp/jenkins4672911748164579871.sh

+ python3 project/shivam.py

Shivam Pandey

hello

Finished: SUCCESS