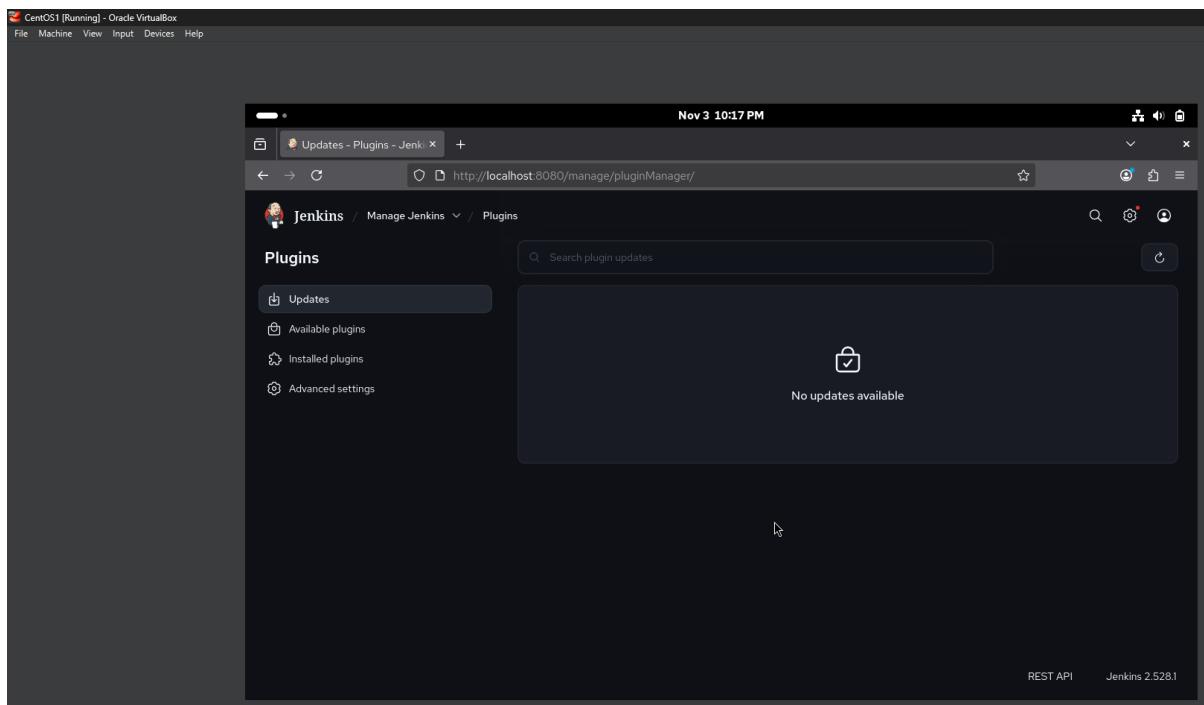
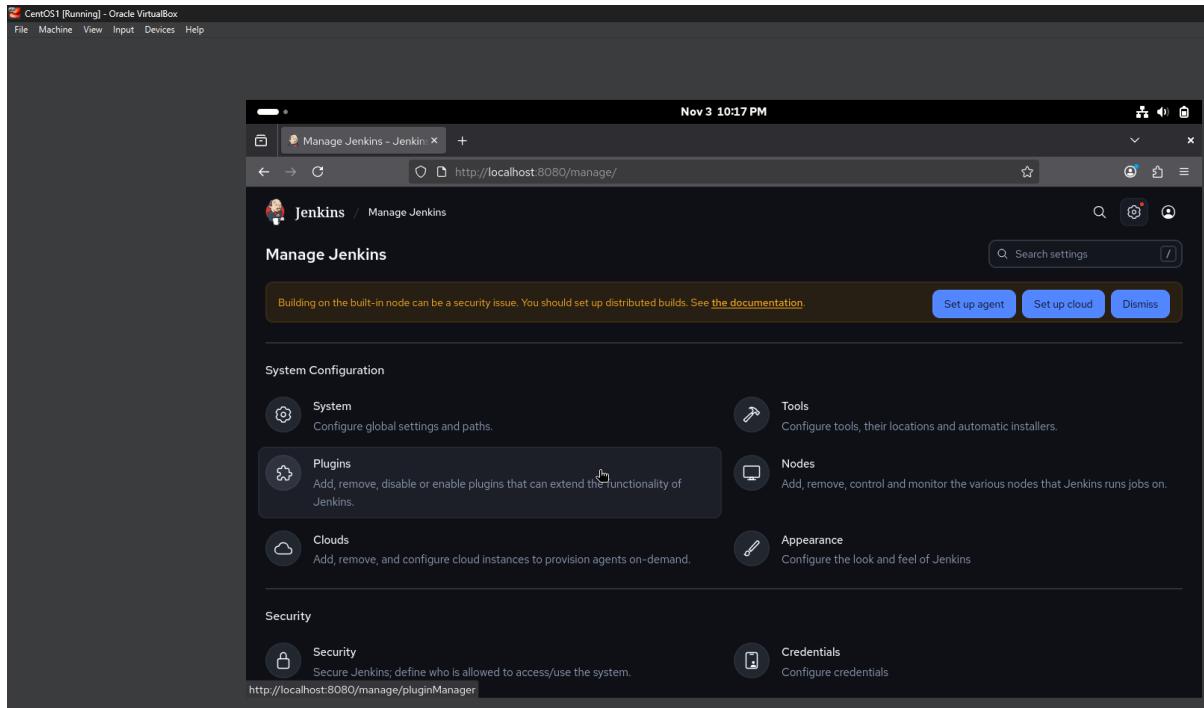


Simple Git Project Cloning and Running on Build Button Click



CentOS1 [Running] - Oracle VirtualBox

File Machine View Input Devices Help

Nov 3 10:19 PM

Installed plugins - Plugins +

http://localhost:8080/manage/pluginManager/installed

Jenkins / Manage Jenkins / Plugins

Plugins

Updates Available plugins Installed plugins Advanced settings

Search: git

Name	Health	Enabled
Git client plugin 6.4.0	100	Enabled
Utility plugin for Git support in Jenkins	100	Enabled
Report an issue with this plugin	100	Enabled
Git plugin 5.8.0	100	Enabled
This plugin integrates Git with Jenkins.	100	Enabled
Report an issue with this plugin	100	Enabled
GitHub API Plugin 1.330-492.v3941a_032db_2a...	100	Enabled
This plugin provides GitHub API for other plugins.	100	Enabled
Report an issue with this plugin	100	Enabled
GitHub Branch Source Plugin 1911vc09e01781005	100	Enabled
Multibranch projects and organization folders from GitHub. Maintained by CloudBees, Inc.	100	Enabled
Report an issue with this plugin	100	Enabled
GitHub plugin 1.45.0	97	Enabled
This plugin integrates GitHub to Jenkins.	97	Enabled
Report an issue with this plugin	97	Enabled
Pipeline: GitHub Groovy Libraries 65.v203688e7727e	97	Enabled
Allows Pipeline Groovy libraries to be loaded on the fly from GitHub.	97	Enabled
...

CentOS1 [Running] - Oracle VirtualBox

File Machine View Input Devices Help

Nov 3 10:22 PM

New Item - Jenkins +

http://localhost:8080/view/all/newJob

Jenkins / All / New Item

New Item

Enter an item name
git-demo

Select an item type

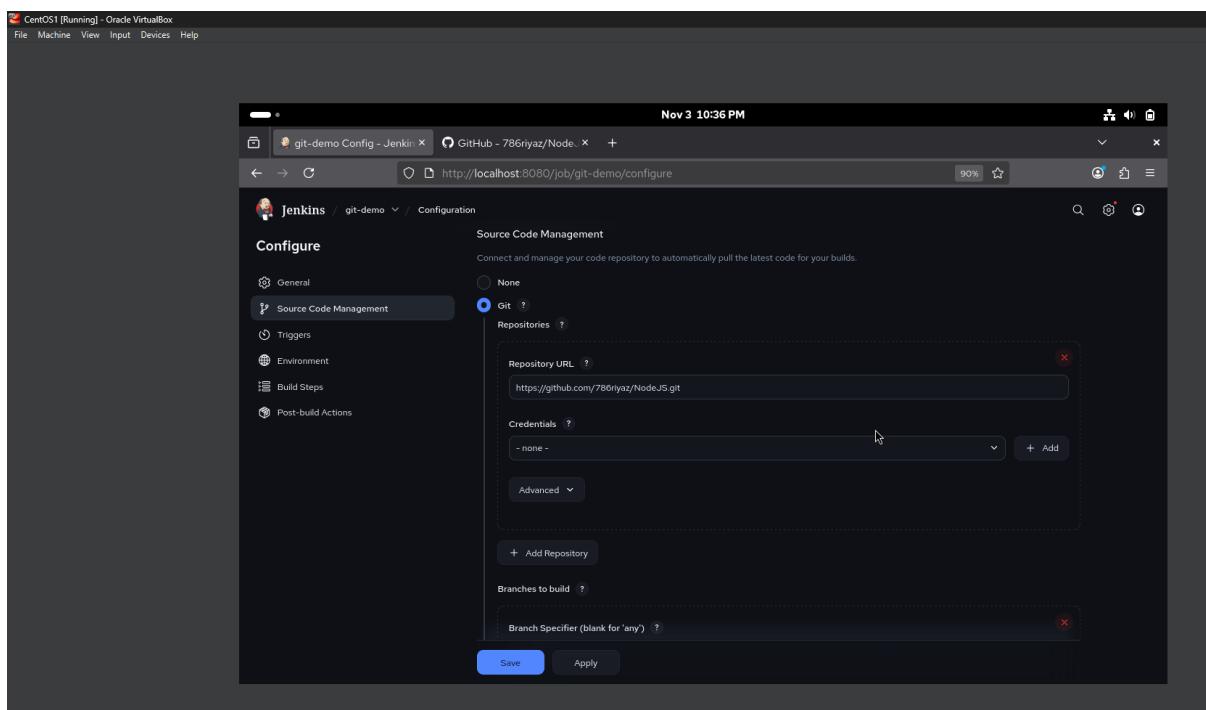
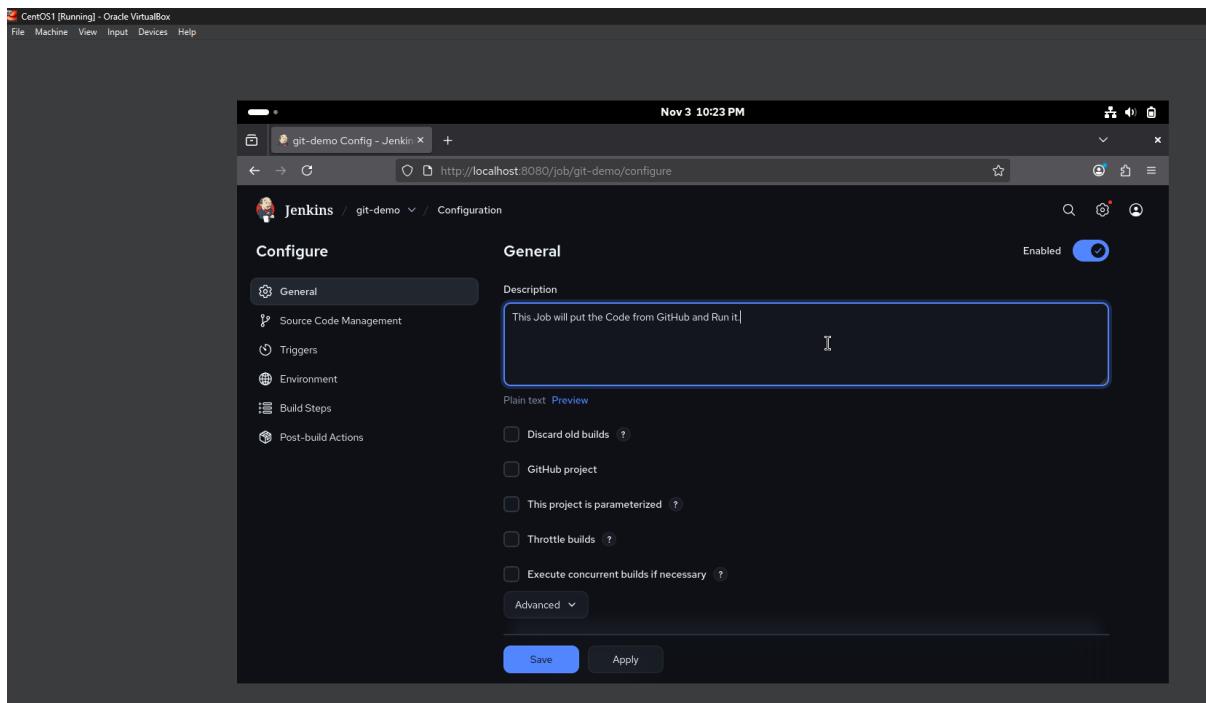
Freestyle project
Classic, general-purpose job type that checks out from up to one SCM, executes build steps serially, followed by post-build steps like archiving artifacts and sending email notifications.

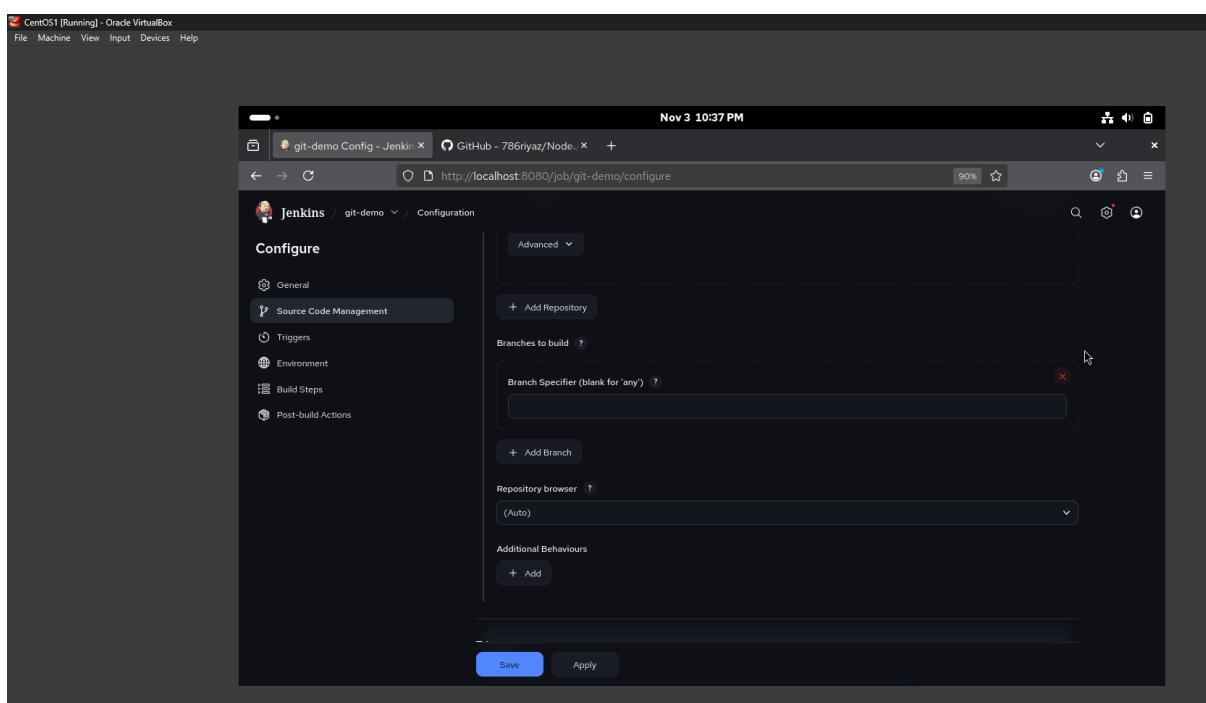
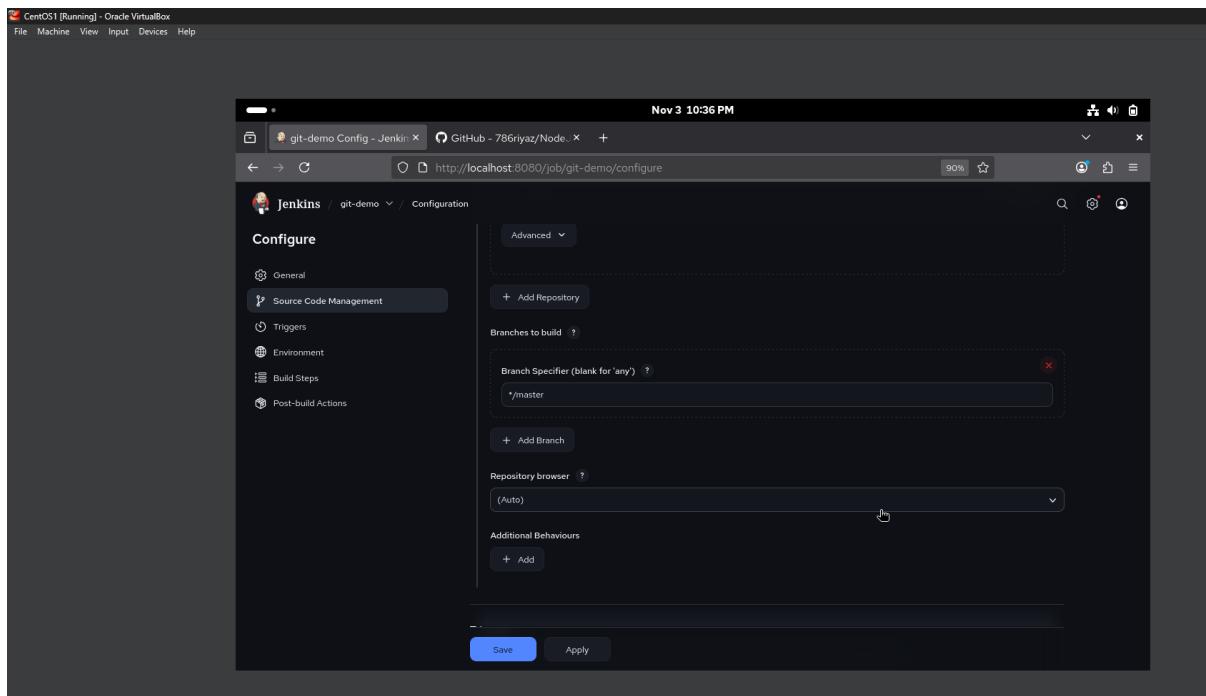
Pipeline
Orchestrates long-running activities that can span multiple build agents. Suitable for building pipelines (formerly known as workflows) and/or organizing complex activities that do not easily fit in free-style job type.

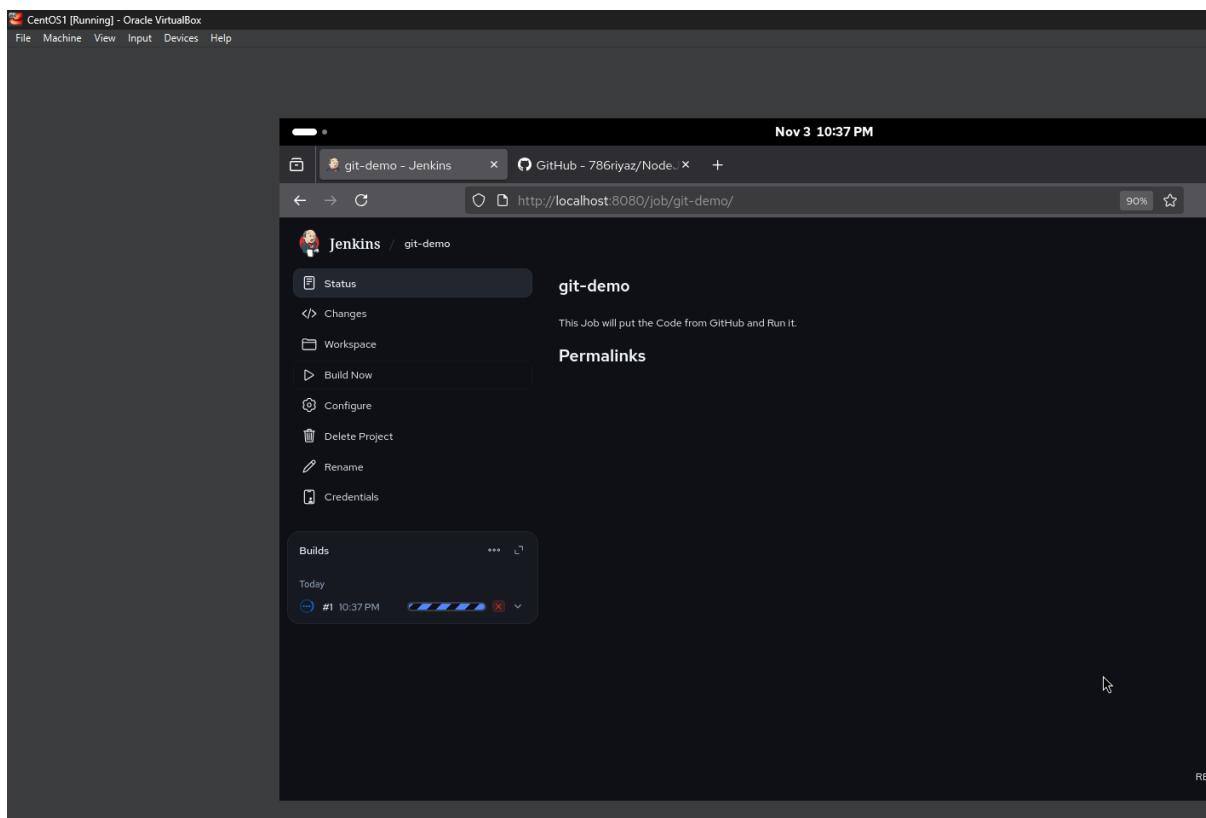
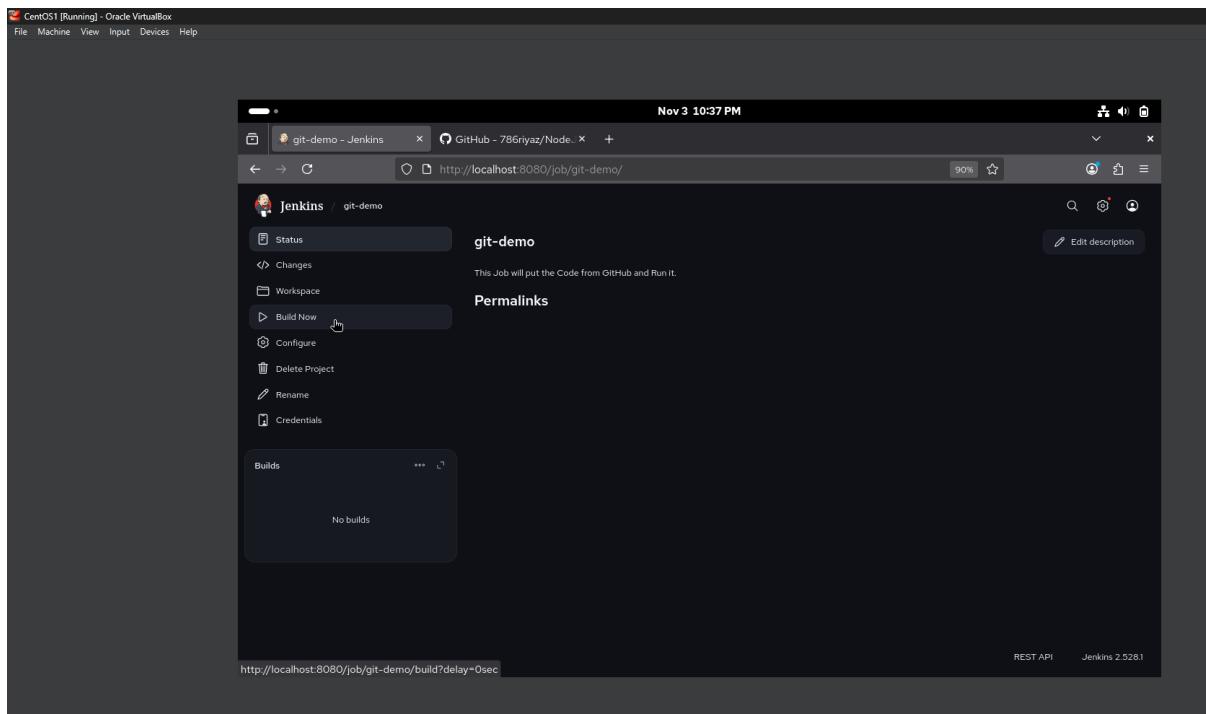
Multi-configuration project
Suitable for projects that need a large number of different configurations, such as testing on multiple environments, platform-specific builds, etc.

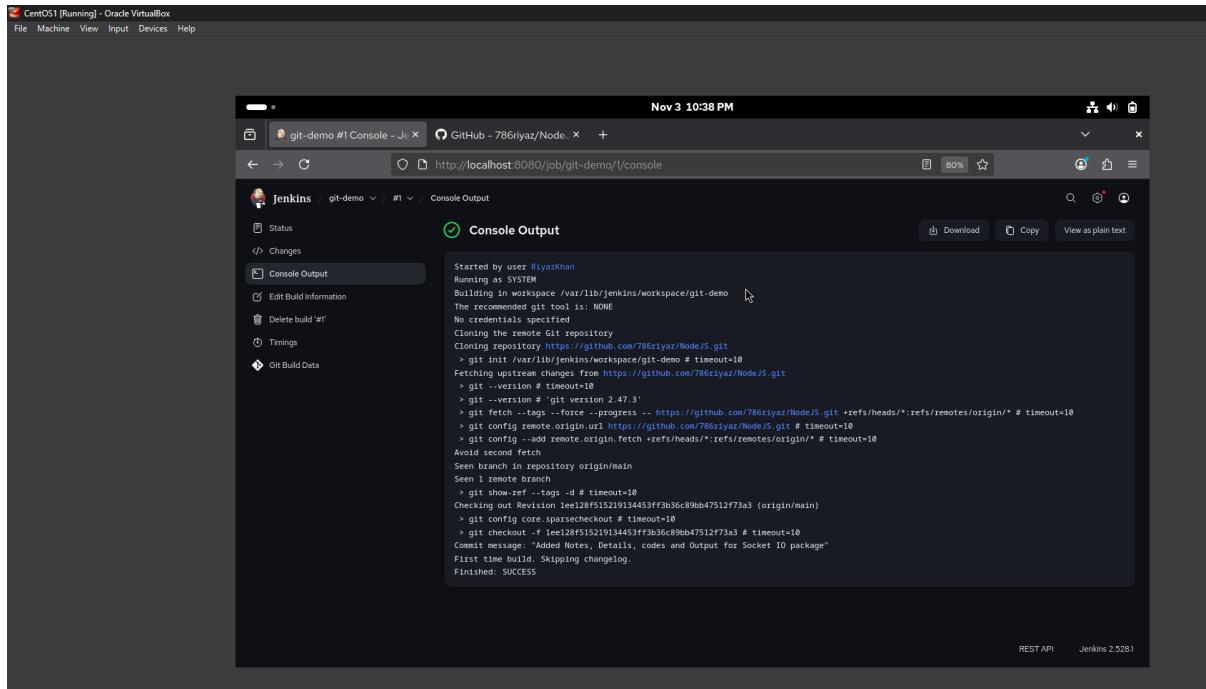
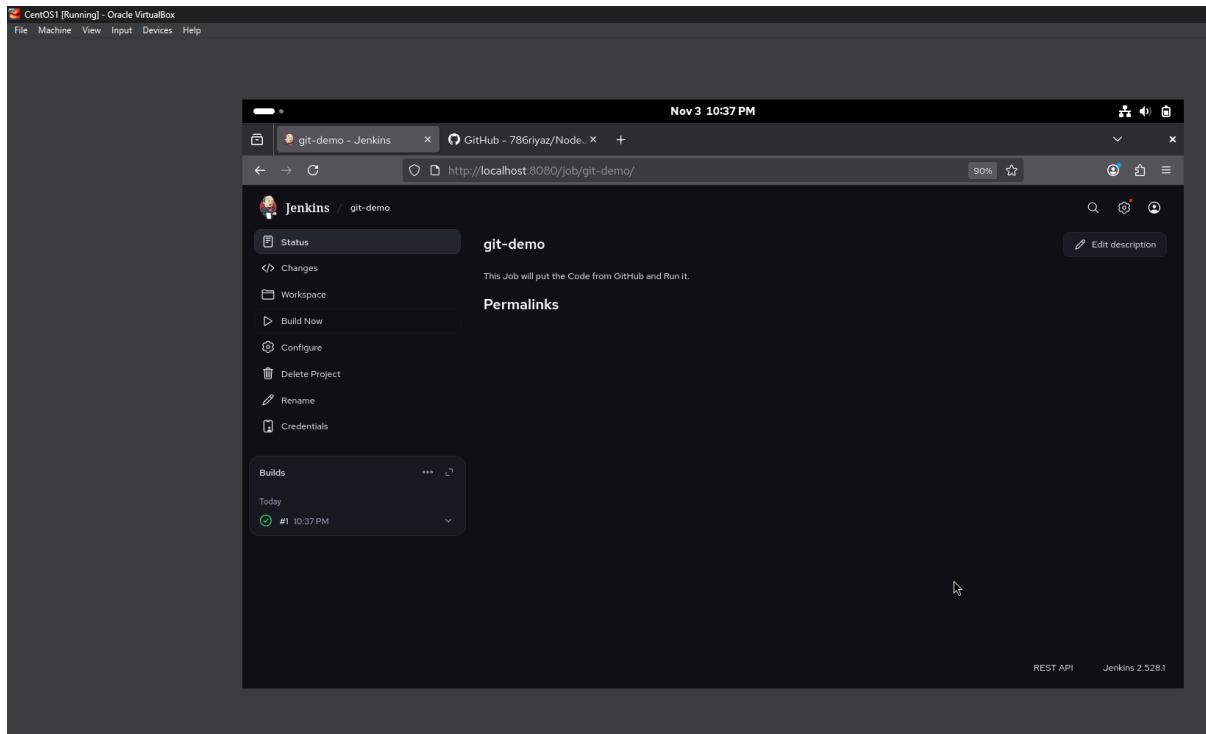
Folder
Creates a container that stores nested items in it. Useful for grouping things together. Unlike view, which is just a filter, a folder creates a separate namespace, so you can have multiple things of the same name as long as they are in different folders.

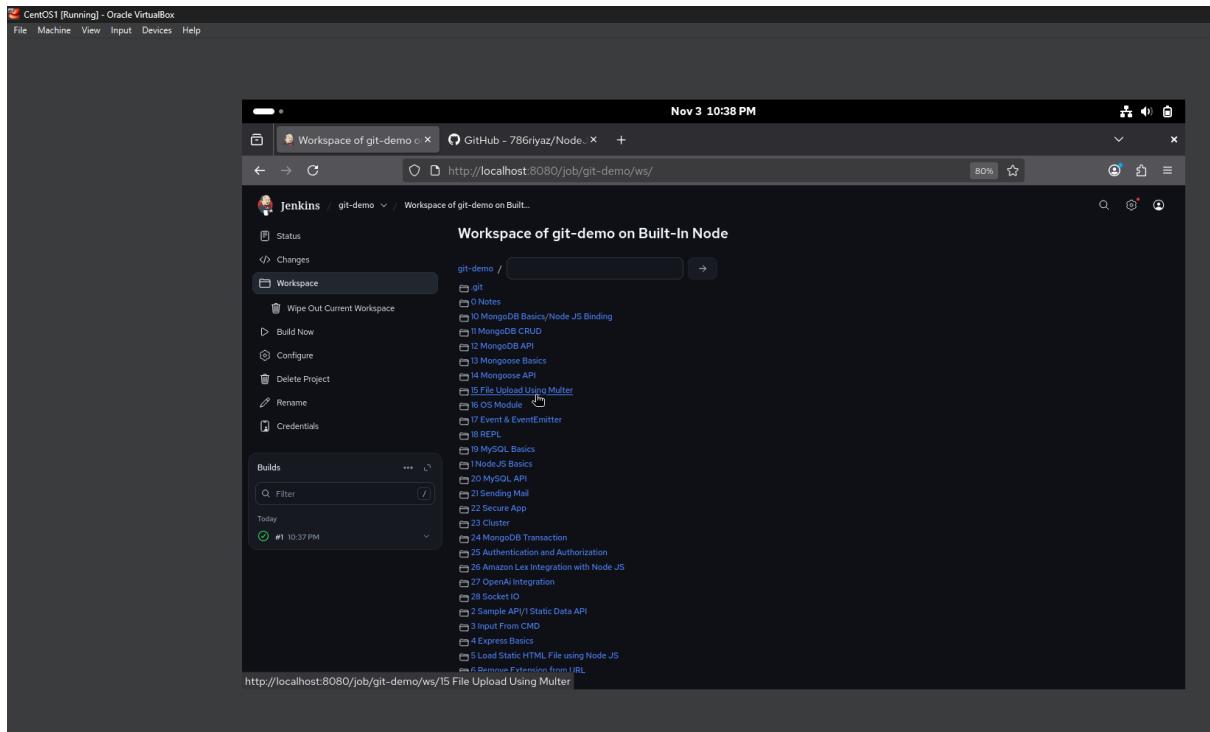
OK











```
CentOS1 [Running] - Oracle VirtualBox
File Machine View Input Devices Help

Nov 3 10:39 PM
riyazkhan@vbox:~$ cd /var/lib/jenkins
riyazkhan@vbox:~/var/lib/jenkins$ ls
config.xml
hudson.model.UpdateCenter.xml
hudson.plugins.git.GitTool.xml
identity.key.enc
io.jenkins.plugins.pipelinegraphview.PipelineGraphViewConfiguration.xml
io.jenkins.plugins.prism.PrismAppearanceConfiguration.xml
io.jenkins.plugins.themanager.ThemeManagerPageDecorator.xml
jenkins.console.ConsoleUrlProviderGlobalConfiguration.xml
jenkins.install.InstallUtil.lastExecVersion
jenkins.install.UpgradeWizard.state
jenkins.model.JenkinsLocationConfiguration.xml
jenkins.telemetry.Correlator.xml
jobs
logs
nodeMonitors.xml
plugins
queue.xml
queue.xml.bak
secret.key
secret.key.not-so-secret
secrets
updates
userContent
users
workspace
```

CentOS1 [Running] - Oracle VirtualBox

File Machine View Input Devices Help

Nov 3 10:40 PM

riyazkhan@vbox:/var/lib/jenkins/workspace

/var/lib/jenkins/workspace

```
riyazkhanvbox:$ cd /var/lib/jenkins
riyazkhanvbox:/var/lib/jenkins$ ls
config.xml
hudson.model.UpdateCenter.xml
hudson.plugins.git.GitTool.xml
identity.key.enc
jenkins.plugins.pipelinegraphview.PipelineGraphViewConfiguration.xml
jenkins.plugins.prism.PrismAppearanceConfiguration.xml
jenkins.plugins.thememanager.ThemeManagerPageDecorator.xml
jenkins.console.ConsoleUrlProviderGlobalConfiguration.xml
jenkins.install.InstallUtil.lastExecVersion
jenkins.plugins.prism.PrismAppearanceConfiguration.xml
jenkins.plugins.thememanager.ThemeManagerPageDecorator.xml
jenkins.console.ConsoleUrlProviderGlobalConfiguration.xml
jenkins.install.InstallUtil.lastExecVersion
riyazkhanvbox:/var/lib/jenkins$ cd workspace
riyazkhanvbox:/var/lib/jenkins/workspace$ ls
cron-job first-job git-demo
riyazkhanvbox:/var/lib/jenkins/workspace$
```

CentOS1 [Running] - Oracle VirtualBox

File Machine View Input Devices Help

Nov 3 10:40 PM

riyazkhan@vbox:/var/lib/jenkins/workspace/git-demo

/var/lib/jenkins/workspace/git-demo

```
riyazkhanvbox:$ cd /var/lib/jenkins
riyazkhanvbox:/var/lib/jenkins$ ls
config.xml
hudson.model.UpdateCenter.xml
hudson.plugins.git.GitTool.xml
identity.key.enc
jenkins.plugins.pipelinegraphview.PipelineGraphViewConfiguration.xml
jenkins.plugins.prism.PrismAppearanceConfiguration.xml
jenkins.plugins.thememanager.ThemeManagerPageDecorator.xml
jenkins.console.ConsoleUrlProviderGlobalConfiguration.xml
jenkins.install.InstallUtil.lastExecVersion
jenkins.plugins.prism.PrismAppearanceConfiguration.xml
jenkins.plugins.thememanager.ThemeManagerPageDecorator.xml
jenkins.console.ConsoleUrlProviderGlobalConfiguration.xml
jenkins.install.InstallUtil.lastExecVersion
riyazkhanvbox:/var/lib/jenkins$ cd workspace
riyazkhanvbox:/var/lib/jenkins/workspace$ ls
cron-job first-job git-demo
riyazkhanvbox:/var/lib/jenkins/workspace$ cd git-demo
riyazkhanvbox:/var/lib/jenkins/workspace/git-demo$ ls
'0 Notes'
'1 Event & EventEmitter'
'25 Authentication and Authorization'
'7 Template Engine'
'0 Pending Learning in NodeJS.txt'
'18 REFL'
'19 MySQL Basics'
'26 Amazon Lex Integration with Node JS'
'8 Dynamic HTML Pages'
'10 MongoDB Basics'
'1 NodeJS Basics'
'27 OpenAI Integration'
'9 Middleware'
'11 MongoDB CRUD'
'2 NodeJS Basics'
'28 Socket IO'
'index.js'
'12 MongoDB API'
'20 MySQL API'
'2 Sample API'
'package.json'
'13 Mongoose Basics'
'21 Sending Mail'
'3 Input From CMD'
'package-lock.json'
'14 Mongoose API'
'22 Secure App'
'4 Express Basics'
'public'
'15 File Upload Using Multer'
'23 Cluster'
'5 Load Static HTML File using Node JS'
'vercel.json'
'16 OS Module'
'24 MongoDB Transaction'
'6 Remove Extension from URL'
```

CentOS1 [Running] - Oracle VirtualBox

File Machine View Input Devices Help

```
Nov 3 10:41 PM
riyazkhan@vbox:/var/lib/jenkins/workspace/git-demo
/var/lib/jenkins/workspace/git-demo
riyazkhan@vbox:/var/lib/jenkins/workspace/git-demo$ node -v
bash: node: command not found...
Install package 'nodejs' to provide command 'node'? [N/y] y
```

CentOS1 [Running] - Oracle VirtualBox

File Machine View Input Devices Help

```
Nov 3 10:41 PM
riyazkhan@vbox:/var/lib/jenkins/workspace/git-demo
/var/lib/jenkins/workspace/git-demo
riyazkhan@vbox:/var/lib/jenkins/workspace/git-demo$ node -v
bash: node: command not found...
Install package 'nodejs' to provide command 'node'? [N/y] y

* Waiting in queue...
* Loading list of packages...
The following packages have to be installed:
nodejs-1:22.16.0-1.el10.x86_64    JavaScript runtime
nodejs-docs-1:22.16.0-1.el10.noarch   Node.js API documentation
nodejs-full-i18n-1:22.16.0-1.el10.x86_64  Non-English locale data for Node.js
nodejs-langs-1:22.16.0-1.el10.x86_64   Node.js and v8 libraries
nodejs-npm-1:10.9.2-1.22.16.0-1.el10.x86_64  Node.js Package Manager
Proceed with changes? [N/y] y
```

CentOS1 [Running] - Oracle VirtualBox

File Machine View Input Devices Help

Nov 3 10:43 PM

riyazkhan@vbox:/var/lib/jenkins/workspace/git-demo

/var/lib/jenkins/workspace/git-demo

```
at Module.require (node:internal/modules/cjs/loader:1487:12)
at require (node:internal/modules/helpers:135:16)
at Object.<anonymous> (/var/lib/jenkins/workspace/git-demo/index.js:1:17)
at Module._compile (node:internal/modules/cjs/loader:1730:14) {
  code: 'MODULE_NOT_FOUND',
  requireStack: [ '/var/lib/jenkins/workspace/git-demo/index.js' ]
}

Node.js v22.16.0
riyazkhan@vbox:/var/lib/jenkins/workspace/git-demo$ npm install express
npm error code EACCES
npm error syscall mkdir
npm error path /var/lib/jenkins/workspace/git-demo/node_modules
npm error errno -13
npm error Error: EACCES: permission denied, mkdir '/var/lib/jenkins/workspace/git-demo/node_modules'
npm error at async mkdir (node:internal/fs/promises:852:18)
npm error at async /usr/lib/node_modules_22/npm/node_modules/_npmcli/arborist/lib/arborist/reify.js:624:20
npm error at async Promise.allSettled [index 0]
npm error at async [reifyPackages] (/usr/lib/node_modules_22/npm/node_modules/_npmcli/arborist/lib/arborist/reify.js:325:11)
npm error at async Arborist.reify (/usr/lib/node_modules_22/npm/node_modules/_npmcli/arborist/lib/arborist/reify.js:142:5)
npm error at async Install.exec (/usr/lib/node_modules_22/npm/lib/npm.js:150:5)
npm error at async Npm.exec (/usr/lib/node_modules_22/npm/lib/npm.js:207:9)
npm error at async module.exports (/usr/lib/node_modules_22/npm/lib/cli-entry.js:74:5) {
  npm error  errno: -13,
  npm error  code: 'EACCES',
  npm error  syscall: 'mkdir',
  npm error  path: '/var/lib/jenkins/workspace/git-demo/node_modules'
}
npm error
npm error The operation was rejected by your operating system.
npm error It is likely you do not have the permissions to access this file as the current user
npm error If you believe this might be a permissions issue, please double-check the
npm error permissions of the file and its containing directories, or try running
npm error the command again as root/Administrator.
npm error A complete log of this run can be found in: /home/riyazkhan/.npm/_logs/2025-11-03T17_13_31_665Z-debug-0.log
riyazkhan@vbox:/var/lib/jenkins/workspace/git-demo$
```

CentOS1 [Running] - Oracle VirtualBox

File Machine View Input Devices Help

Nov 3 10:43 PM

riyazkhan@vbox:/var/lib/jenkins/workspace/git-demo

/var/lib/jenkins/workspace/git-demo

```
v22.16.0
riyazkhan@vbox:/var/lib/jenkins/workspace/git-demo$ ls
[1] Notes           [17 Event & EventEmitter]  [25 Authentication and Authorization]  [7 Template Engine]
[2] Pending Learning in NodeJS.txt  [18 REPL]          [26 Amazon Lambda Integration with Node JS]  [8 Dynamic HTML Pages]
[3] MongoDB Basics   [19 MySQL Basics]        [27 OpenAI Integration]                  [9 Middleware]
[4] MongoDB CRUD    [20 NodeJS Basics]       [28 Socket IO]                      [index.js]
[5] MongoDB API     [21 MySQL API]         [29 Sample API]                   [package.json]
[6] Mongoose Basics  [22 Sending Mail]      [3 Input From Cmd]                [package-lock.json]
[7] Mongoose API    [23 Secure App]        [4 Express Basics]               [public]
[8] File Upload Using Multer  [24 Cluster]        [5 Load Static HTML File using Node JS]  [vercel.json]
[9] OS Module        [25 MongoDB Transaction]  [6 Remove Extension from URL]
node:internal/modules/cjs/loader:1404
throw err;
^

Error: Cannot find module 'express'
Require stack:
[ '/var/lib/jenkins/workspace/git-demo/index.js'
  ' /var/lib/jenkins/workspace/git-demo/node_modules/cjs/loader (node:internal/modules/cjs/loader:1401:15)'
  ' at defaultResolveImpl (node:internal/modules/cjs/loader:1057:19)'
  ' at resolveForGCMWTHook (node:internal/modules/cjs/loader:1062:22)'
  ' at Module._load (node:internal/modules/cjs/loader:1211:37)'
  ' at TracingChannel.traceSync (node:diagnostics:channel:122:14)'
  ' at wrapModuleLoad (node:internal/modules/cjs/loader:235:24)'
  ' at Module._require (node:internal/modules/cjs/loader:1487:12)'
  ' at require (node:internal/modules/helpers:135:16)'
  ' at Object.<anonymous> (/var/lib/jenkins/workspace/git-demo/index.js:1:17)
  ' at Module._compile (node:internal/modules/cjs/loader:1730:14) {
    code: 'MODULE_NOT_FOUND',
    requireStack: [ '/var/lib/jenkins/workspace/git-demo/index.js' ]
}

Node.js v22.16.0
riyazkhan@vbox:/var/lib/jenkins/workspace/git-demo$ npm install express
npm error code EACCES
npm error syscall mkdir
npm error EACCES: permission denied, mkdir '/var/lib/jenkins/workspace/git-demo'
```

CentOS1 [Running] - Oracle VirtualBox

File Machine View Input Devices Help

git-demo #2 Console - Jenkins / GitHub - 786riyaz/Python.git + http://localhost:8080/job/git-demo/2/console Nov 3 10:46 PM

Console Output

Status Changes Console Output Edit Build Information Delete build '#2' Timings Git Build Data Previous Build

Console Output Started by user riyazkhan Running as SYSTEM Building in workspace /var/lib/jenkins/workspace/git-demo The recommended git tool is: NONE No credentials specified > git rev-parse --resolve-git-dir /var/lib/jenkins/workspace/git-demo/.git # timeout=10 Fetching changes from the remote Git repository > git config remote.origin.url https://github.com/786riyaz/Python.git # timeout=10 Fetching upstream changes from https://github.com/786riyaz/Python.git # timeout=10 > git -version # timeout=10 > git --version # git version 2.47.3' > git fetch --tags --prune --progress -- https://github.com/786riyaz/Python.git +refs/heads/*:refs/remotes/origin/* # timeout=10 Seen branch in repository origin/main Seen branch in repository origin/main Seen 1 remote branch > git show-ref --tags -d # timeout=10 Checking out Revision d2928ad40ef78848a25b6a162654f19b19db5e71 (origin/main) > git config core.sparsecheckout # timeout=10 > git checkout -f d2928ad40ef78848a25b6a162654f19b19db5e71 # timeout=10 Commit message: "Added Python Libraries" First time build. Skipping changelog. Finished: SUCCESS

http://localhost:8080/job/git-demo/2/confirmDelete REST API Jenkins 2.5281

CentOS1 [Running] - Oracle VirtualBox

File Machine View Input Devices Help

Nov 3 10:46 PM riyazkhan@vbox:/var/lib/jenkins/workspace/git-demo /var/lib/jenkins/workspace/git-demo

```
npm error A complete log of this run can be found in: /home/riyazkhan/.npm/_logs/2025-11-03T17_13_31_665Z-debug-0.log
riyazkhan@vbox:/var/lib/jenkins/workspace/git-demo$ node index.js
node:internal/modules/cjs/loader:1404
  throw err;
  ^

Error: Cannot find module 'express'
Require stack:
- /var/lib/jenkins/workspace/git-demo/index.js
  at Module._resolveFilename (node:internal/modules/cjs/loader:1401:15)
  at defaultResolveImpl (node:internal/modules/cjs/loader:1057:19)
  at resolveForJSWithHooks (node:internal/modules/cjs/loader:1062:22)
  at Module._load (node:internal/modules/cjs/loader:1211:37)
  at TracingChannel.traceSync (node:diagnostics_channel:322:14)
  at wrapModuleLoad (node:internal/modules/cjs/loader:235:24)
  at Module.require (node:internal/modules/cjs/loader:1487:12)
  at require (node:internal/modules/helpers:135:16)
  at Object.<anonymous> (/var/lib/jenkins/workspace/git-demo/index.js:1:17)
  at Module._compile (node:internal/modules/cjs/loader:1730:14) {
  code: 'MODULE_NOT_FOUND',
  requireStack: [ '/var/lib/jenkins/workspace/git-demo/index.js' ]
}

Node.js v22.16.0
riyazkhan@vbox:/var/lib/jenkins/workspace/git-demo$ ls
'0 Notes'          '17 Event & EventEmitter'  '25 Authentication and Authorization'  '7 Template Engine'
'0 Pending Learning in NodeJS.txt'  '18 REPL'        '26 Amazon Lex Integration with Node JS'  '8 Dynamic HTML Pages'
'10 MongoDB Basics'  '19 MySQL Basics'    '27 OpenAI Integration'      '9 Middleware'
'11 MongoDB CRUD'   '21 NodeJS Basics'  '28 Socket IO'           index.js
'12 MongoDB API'    '22 Secure App'     '2 Sample API'        package.json
'13 Mongoose Basics' '23 Cluster'       '3 Input From CMD'    package-lock.json
'14 Mongoose API'   '24 MongoDB Transaction' '4 Express Basics'  public
'15 File Upload Using Multer' '25 Cluster'       '5 Load Static HTML File using Node JS' vercel.json
'16 OS Module'      '26 MongoDB Transaction' '6 Remove Extension from URL'

riyazkhan@vbox:/var/lib/jenkins/workspace/git-demo$ ls
'0 Installation Steps'  '1 Notes'  '2 Practice'  'Python Libraries'  README.md
riyazkhan@vbox:/var/lib/jenkins/workspace/git-demo$
```

The screenshot shows a Jenkins pipeline running a Python script. The Jenkins interface at the top displays the build status as 'git-demo #3 Console' and the GitHub repository 'Python/2 Practice/Hello World'.

The Jenkins console output shows the following steps:

```
Started by user Riyaz Khan
Running as SYSTEM
Building workspace /var/lib/jenkins/workspace/git-demo
The recommended git tool is: NONE
No credentials specified
> git rev-parse --resolve-git-dir /var/lib/jenkins/workspace/git-demo/.git # timeout=10
timeout=10
Fetching changes from the remote Git repository
> git config remote.origin.url https://github.com/786riyaz/Python.git # timeout=10
Fetching upstream changes from https://github.com/786riyaz/Python.git
> git fetch --tags --progress -- https://github.com/786riyaz/Python.git +refs/heads/*:refs/remotes/origin/* # timeout=10
Seen branch in repository origin/main
Seen 1 branch
Seen 1 remote branch
> git show-ref -d tags -d timeout=10
Checking out Revision d2928a40# (refs/heads/main)
> git config core.sparsecheckout # timeout=10
> git checkout -f d2928a40# (refs/heads/main) # timeout=10
Commit message: "Add Hello Python Llooxris"
> git add -l .gitignore
d2928a40# (refs/heads/main)@2654f19b19d5e71 # timeout=10
[git-demo] $ /bin/bash -c '/tmp/jenkins14632948434989733043.sh
+ cd /tmp/jenkins14632948434989733043.sh
+ ls
HelloWorld.py
HelloWorld.py
+ python HelloWorld.py
Hello World !!!!!
Finished: SUCCESS
```

The GitHub repository page shows the commit 'Added Hello World program' with hash '561bd3e' made 'last year'. The code editor shows the Python file 'HelloWorld.py' with the single line 'print("Hello World !!!!!")'.