

Jenkins:

Checkout private repository.


Dashboard > All > New Item


New Item


Enter an item name


myfirstpipelinejob

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**
Group of items that can be managed together.

OK

For this first we need to add credentials of github to provide access.


Dashboard > Manage Jenkins


Build Queue
No builds in the queue.


Build Executor Status
0/2


Java 17: end of life in Jenkins
You are running Jenkins on Java 17, support for which will end on or after Mar 31, 2026. Refer to the documentation for more details.


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.


 **Appearance**
Configure the look and feel of Jenkins.

Security

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

 **Credentials**
Configure credentials

 **Credential Providers**
Configure the credential providers and types

 **Users**
Create/delete/modify users that can log in

For password we need to When configuring GitHub authentication, we'll use our GitHub username and a Personal Access Token (PAT) as the password, which can be generated in the GitHub settings under 'Developer settings' > 'Personal access tokens generate one personal access token shown below.

Dashboard > Manage Jenkins > Credentials > System > Global credentials (unrestricted) >

Kind

Username with password

Scope ?

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

Username ?

SirishaReddy1234

☐ Treat username as secret ?

Password ?

ID ?

Settings / Developer Settings

GitHub Apps

OAuth Apps

Personal access tokens

No GitHub Apps

Want to build something that integrates with and extends GitHub? Register a new GitHub App to get started developing on the GitHub API.

New GitHub App

View documentation

Settings / Developer Settings

Personal access tokens (classic)

Generate new token

Generate new token

Fine-grained, repo-scoped

Generate new token (classic)

For general use

ec2token — repo

Expires on Sun, May 25 2025.

ec2 — repo

Expires on Sun, May 25 2025.

Never used

Delete

application_pro — admin:org, repo

Expired on Fri, May 24 2024.

Last used within the last 2 years

Delete

Java_project — admin:org, repo

Expired on Thu, May 23 2024.

Last used within the last 2 years

Delete

Personal access tokens (classic) function like ordinary OAuth access tokens. They can be used instead of a password for Git over HTTPS, or can be used to [authenticate to the API over Basic Authentication](#).

Scope ?

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

Username ?

SirishaReddy1234

☐ Treat username as secret ?

Password ?

.....

ID ?

GITHUB_TOKEN

Description ?

GITHUB_TOKEN

Create

Repository URL ?

https://github.com/SirishaReddy1234/demo.git

Credentials ?

SirishaReddy1234/***** (GITHUB_TOKEN) ▼

+ Add

Advanced ▼

Add Repository

Branches to build ?

Branch Specifier (blank for 'any') ?

*/main

Add Branch

Dashboard > pro_gitprivate > Configuration

Configure

- General
- Triggers
- Pipeline**
- Advanced

Pipeline script

Script ?

```

1 pipeline {
2   agent any
3
4   stages {
5     stage('checkout') {
6       steps {
7         checkout scmGit(branches: [[name: '**/main']], extensions: [], userRemoteConfigs: [[credentialsId: 'GIT
8       }
9     }
10  }
11 }
12

```

☒ Use Groovy Sandbox ?

Pipeline Syntax

Save Apply

Dashboard > pro_gitprivate >

pro_gitprivate

Stage View

Average stage times:
(full run time: ~2s)

Stage	Time
checkout	1s

#1 17:38 No Changes

Permalinks

Builds

No builds

Today

✓ #1 12:08 PM

To run Maven commands, we need to configure the Maven path in the tools section of our Jenkins configuration.

- + New Item
- 📋 Build History
- 🕒 Project Relationship
- 🔍 Check File Fingerprint
- ⚙️ **Manage Jenkins**
- 📺 My Views

Build Queue ▾
No builds in the queue.

Build Executor Status 0/2 ▾

Manage Jenkins

🔍 Search settings /

Building on the built-in node can be a security issue. You should set up distributed builds. See [the documentation](#).








[Set up agent](#) [Set up cloud](#) [Dismiss](#)

Java 17 end of life in Jenkins

[More Info](#) [Ignore](#)


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-  **Appearance**
Configure the look and feel of Jenkins

Maven installations

[Add Maven](#)

≡ **Maven** 

✕

Name

Maven

MAVEN_HOME

/opt/maven

☐ Install automatically [?](#)

[Add Maven](#)

[Save](#)

[Apply](#)

Configure

- General
- Triggers
- Pipeline
- Advanced

Define your pipeline using Groovy directly or pull it from source control.

Definition

Pipeline script

Script ?

```
2 agent any
3 tools{
4   maven 'Maven'
5 }
6
7 stages {
8   stage('checkout') {
9     steps {
10      checkout scmGit(branches: [[name: '**/main']], extensions: [], userRemoteConfigs: [[credentialsId: 'G:
11     ]
12   }
13   stage('build') {
14     steps {
15      sh 'mvn clean package'
16     }
17   }
18 }
```

☒ Use Groovy Sandbox ?

Dashboard > pro_mvn_git >

Status

Changes

Build Now

Configure

Delete Pipeline

Full Stage View

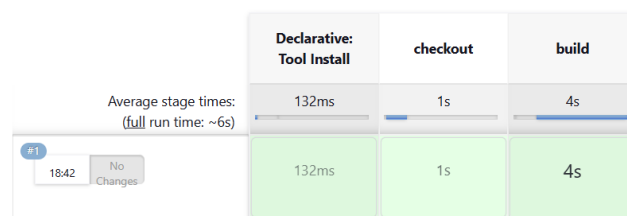
Stages

Rename

Pipeline Syntax

pro_mvn_git

Stage View



Permalinks

Builds

No builds

Today

☒ #1 1:12 PM

Dashboard > pro_mvn_git > #1

```
[INFO] running com.testing.sample.AppTest
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.072 s -- in com.testing.sample.AppTest
[INFO]
[INFO] Results:
[INFO]
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0
[INFO]
[INFO]
[INFO] --- jar:3.4.2:jar (default-jar) @ myapp ---
[INFO] Building jar: /var/lib/jenkins/workspace/pro_mvn_git/target/myapp-1.0-SNAPSHOT.jar
[INFO] BUILD SUCCESS
[INFO]
[INFO] Total time: 2.774 s
[INFO] Finished at: 2025-04-25T13:12:22Z
[INFO]
[Pipeline] }
[Pipeline] // withEnv
[Pipeline] }
[Pipeline] }
[Pipeline] // stage
[Pipeline] }
[Pipeline] // withEnv
[Pipeline] }
[Pipeline] // node
[Pipeline] End of Pipeline
Finished: SUCCESS
```

To trigger automatic deployments to the server when developers commit changes to GitHub, we need to set up webhooks in GitHub

General

Access

Collaborators

Moderation options

Code and automation

Branches

Tags

Rules

Actions

Webhooks

Environments

Codespaces

Pages

Security

Code Security

Deploy keys

Secrets and variables

Integrations

GitHub Apps

Webhooks / Add webhook

We'll send a POST request to the URL below with details of any subscribed events. You can also specify which data format you'd like to receive (JSON, x-www-form-urlencoded, etc). More information can be found in [our developer documentation](#).

Payload URL *

`http://13.203.156.183:8080/github-webhook/`

Content type *

application/x-www-form-urlencoded

Secret

SSL verification

By default, we verify SSL certificates when delivering payloads.

☒ Enable SSL verification ☐ Disable (not recommended)

Which events would you like to trigger this webhook?

☒ Just the push event.

☐ Send me everything.

☐ Let me select individual events.

CodeIssuesPull requestsActionsProjectsWikiSecurityInsightsSettings

General

Access

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Rules

Actions

Webhooks

Environments

Codespaces

Pages

Security

Webhooks

Add webhook

Webhooks allow external services to be notified when certain events happen. When the specified events happen, we'll send a POST request to each of the URLs you provide. Learn more in our [Webhooks Guide](#).

✓ `http://13.203.156.183:8080/github-webhook/` (push)

EditDelete

Last delivery was successful.

Configure

- General
- Triggers
- Pipeline
- Advanced

- ☐ Preserve stashes from completed builds ?
- ☐ This project is parameterized ?
- ☐ Throttle builds ?

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 ?
- ☒ GitHub hook trigger for GITScm polling ?
- ☐ Poll SCM ?
- ☐ Trigger builds remotely (e.g., from scripts) ?

Pipeline

Define your Pipeline using Groovy directly or pull it from source control.

Definition

- Status
- Changes
- Build Now
- Configure
- Delete Pipeline
- Full Stage View
- Stages
- Rename
- Pipeline Syntax
- GitHub Hook Log

Builds

Today

✓

#2

1:22 PM

pro_mvn_git

Stage View

	Declarative: Tool Install	checkout	build
Average stage times: (full run time: ~6s)	108ms	1s	4s
#2 18:52 1	84ms	1s	4s
#1 18:42 No Changes	132ms	1s	4s

Permalinks

- Last build (#2), 3 min 44 sec ago
- Last stable build (#2), 3 min 44 sec ago
- Last successful build (#2), 3 min 44 sec ago
- Last completed build (#2), 3 min 44 sec ago