

Create a simple script file and push it to repo. Create a project in Jenkins connected to your GitHub repository. When a commit is made to your repo, automatically build must get triggered from Jenkins and the output must be shared to me via email.

Create a simple script file and push it to repo.

STEP - 1

```
Reinitialized existing Git repository in /home/ubuntu/CJ/My_maven/.git/
root@ip-172-31-11-70:/home/ubuntu/CJ/My_maven# ls -la
total 52
drwxr-xr-x 7 root root 4096 Oct  5 19:47 .
drwxr-xr-x 4 root root 4096 Oct  5 19:47 ..
-rw-r--r-- 1 root root 1477 Oct  5 19:47 .classpath
drwxr-xr-x 8 root root 4096 Oct  5 19:50 .git
drwxr-xr-x 3 root root 4096 Oct  5 19:47 .github
-rw-r--r-- 1 root root  544 Oct  5 19:47 .project
drwxr-xr-x 2 root root 4096 Oct  5 19:47 .settings
-rw-r--r-- 1 root root  599 Oct  5 19:47 Jenkinsfile
-rw-r--r-- 1 root root   10 Oct  5 19:47 README.md
-rw-r--r-- 1 root root 1275 Oct  5 19:47 pom.xml
drwxr-xr-x 3 root root 4096 Oct  5 19:47 src
-rw-r--r-- 1 root root  284 Oct  5 19:47 testng.xml
drwxr-xr-x 2 root root 4096 Oct  5 19:47 var
root@ip-172-31-11-70:/home/ubuntu/CJ/My_maven# vim Jenkinsfile
root@ip-172-31-11-70:/home/ubuntu/CJ/My_maven# git status
On branch main
Your branch is up to date with 'origin/main'.

Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)

Your name and email address were configured automatically based
on your username and hostname. Please check that they are accurate.
You can suppress this message by setting them explicitly. Run the
following command and follow the instructions in your editor to edit
your configuration file:

    git config --global --edit

After doing this, you may fix the identity used for this commit with:

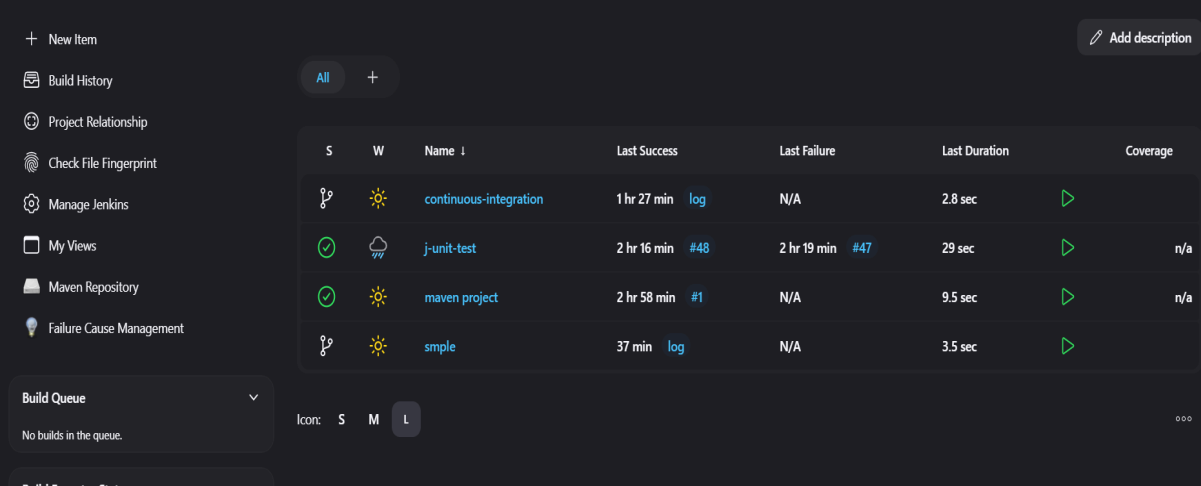
    git commit --amend --reset-author

1 file changed, 4 insertions(+), 4 deletions(-)
root@ip-172-31-11-70:/home/ubuntu/CJ/My_maven# git remote add origin https://github.com/Karthick-sketch769/My
error: remote origin already exists.
root@ip-172-31-11-70:/home/ubuntu/CJ/My_maven# git remote set-url origin https://ghp_KvyjnDLG0dtC6pzK1XsAgGG4
69/My_maven.git
root@ip-172-31-11-70:/home/ubuntu/CJ/My_maven# git branch
* main
root@ip-172-31-11-70:/home/ubuntu/CJ/My_maven# git branch -m main
root@ip-172-31-11-70:/home/ubuntu/CJ/My_maven# git push origin main
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Compressing objects: 100% (3/3), done.
```

- **Git clone** command for clone all files from github
- **Git status** command for checking the commit
- **Git add** command for adding into staging area
- **Git commit -m** command for commit the last modified file
- **Git push** command for push the add the recent changes to github
- **Git init** command for initiate local repo

Create a project in Jenkins connected to your GitHub repository.

STEP - 1



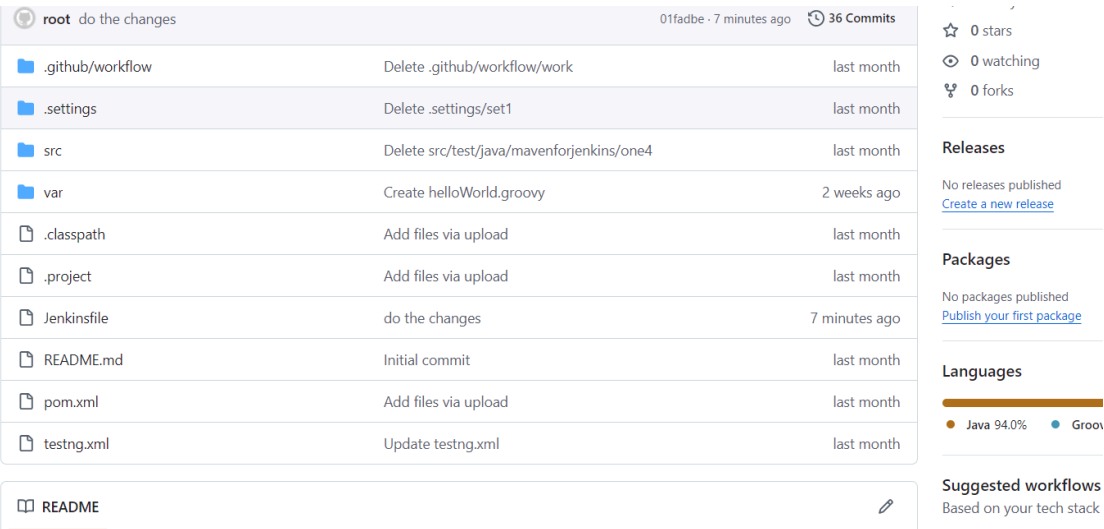
The screenshot shows the Jenkins dashboard with a sidebar on the left containing navigation links: New Item, Build History, Project Relationship, Check File Fingerprint, Manage Jenkins, My Views, Maven Repository, and Failure Cause Management. The main area displays a table of projects with columns for S, W, Name, Last Success, Last Failure, Last Duration, and Coverage. The projects listed are continuous-integration, j-unit-test, maven project, and smple. Below the table, there is a Build Queue section showing 'No builds in the queue.' and a Build Executor Status section.

S	W	Name	Last Success	Last Failure	Last Duration	Coverage
		continuous-integration	1 hr 27 min log	N/A	2.8 sec	
		j-unit-test	2 hr 16 min #48	2 hr 19 min #47	29 sec	n/a
		maven project	2 hr 58 min #1	N/A	9.5 sec	n/a
		smple	37 min log	N/A	3.5 sec	

Install jenkins – install multi-branch plugin – create a project

When a commit is made to your repo, automatically build must get triggered from Jenkins and the output must be shared to me via email.

STEP 1



The screenshot shows a GitHub repository page for a user named 'root'. The repository has 36 commits and was updated 7 minutes ago. The file list shows several files and folders, including .github/workflow, .settings, src, var, .classpath, .project, Jenkinsfile, README.md, pom.xml, and testng.xml. The commit history for each file is shown, with the most recent commit being 'do the changes' 7 minutes ago. The right sidebar shows statistics for the repository: 0 stars, 0 watching, and 0 forks. It also includes sections for Releases, Packages, Languages (Java 94.0%, Groovy), and Suggested workflows.

File	Commit Message	Time
.github/workflow	Delete .github/workflow/work	last month
.settings	Delete .settings/set1	last month
src	Delete src/test/java/mavenforjenkins/one4	last month
var	Create helloWorld.groovy	2 weeks ago
.classpath	Add files via upload	last month
.project	Add files via upload	last month
Jenkinsfile	do the changes	7 minutes ago
README.md	Initial commit	last month
pom.xml	Add files via upload	last month
testng.xml	Update testng.xml	last month

STEP - 2

Code and automation

Branches

Tags

Rules

Actions

Webhooks

Environments

Codespaces

Pages

Security

Code security

Deploy keys

Secrets and variables

Integrations

GitHub Apps

Email notifications

Payload URL *

Content type *

Secret

SSL verification

Which events would you like to trigger this webhook?

Active

Add webhook

STEP - 3

General

Access

Collaborators

Moderation options

Code and automation

Branches

Tags

Rules

Actions

Webhooks

Environments

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](#).

https://192.168.0.106:8080/multibra... (push)

EditDelete

Last delivery was not successful. failed to connect to host.

STEP - 4

Branches (1)

S	W	Name ↓	Last Success	Last Failure	Last Duration
✓	☀	main	9 min 1 sec #2	N/A	25 sec

Icon: S M L

STEP - 5

Full Stage View

Failure Cause Management

Failure Scan Options

Stages

Pipeline Syntax

Build History

trend

Filter...

#3

06-Oct-2024, 2:06 am

#2

06-Oct-2024, 1:51 am

#1

06-Oct-2024, 12:41 am

Average stage times:
(Average full run time: ~26s)

	Declarative: Checkout SCM	get the source code	Test the scheduled build	jenkins task	Declarative: Post Actions
#3 Oct 06 02:06 No Changes	1s	116ms	82ms	96ms	20s
#2 Oct 06 01:51 1 commit	1s	118ms	83ms	99ms	20s

Permalinks

- Last build (#2), 14 min ago
- Last stable build (#2), 14 min ago
- Last successful build (#2), 14 min ago
- Last completed build (#2), 14 min ago

STEP - 6

```
[Pipeline] { (jenkins task 12)
[Pipeline] echo
Deploy App
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Declarative: Post Actions)
[Pipeline] emailx
Sending email to: karthicksethu189@gmail.com
Connection error sending email, retrying once more in 10 seconds...
Connection error sending email, retrying once more in 10 seconds...
Failed after second try sending email
[Pipeline] }
[Pipeline] // stage
[Pipeline] }
[Pipeline] // withEnv
[Pipeline] }
[Pipeline] // node
[Pipeline] End of Pipeline
C:\ProgramData\Jenkins\jenkins\jobs\smple\workspace\main@tmp\jfrog\4\jfrog deleted
Finished: SUCCESS
```

Write a jenkinsfile keep at remote repo – integrate github and jenkins with webhook trigger token to do the automation
then once u give any changes to the github it automatically deployed at jenkins pipeline and the steps for integration was listed above

Sending email to: karthicksethu189@gmail.com
Connection error sending email, retrying once more in 10 seconds...
Connection error sending email, retrying once more in 10 seconds...
Failed after second try sending email

C:\ProgramData\Jenkins\jenkins\jobs\smple\workspace\main@tmp\jfrog\2\jfrog deleted
Finished: SUCCESS