

Jenkins Task-2

Task Description:

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.

➔ Step 1: Create an EC2 and install Jenkins

```
ubuntu@ip-172-31-43-173:~$ java -version
openjdk version "17.0.16" 2025-07-15
OpenJDK Runtime Environment (build 17.0.16+8-Ubuntu-0ubuntu124.04.1)
OpenJDK 64-Bit Server VM (build 17.0.16+8-Ubuntu-0ubuntu124.04.1, mixed mode, sharing)
ubuntu@ip-172-31-43-173:~$ curl -fsSL https://pkg.jenkins.io/debian-stable/jenkins.io-2023.key | sudo tee \
/usr/share/keyrings/jenkins-keyring.asc > /dev/null
ubuntu@ip-172-31-43-173:~$ echo deb [signed-by=/usr/share/keyrings/jenkins-keyring.asc] \
https://pkg.jenkins.io/debian-stable binary/ | sudo tee \
/etc/apt/sources.list.d/jenkins.list > /dev/null
ubuntu@ip-172-31-43-173:~$ sudo apt update -y
Hit:1 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble InRelease
Hit:2 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates InRelease
Hit:3 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-backports InRelease
Ign:4 https://pkg.jenkins.io/debian-stable binary/ InRelease
Get:5 https://pkg.jenkins.io/debian-stable binary/ Release [2044 B]
Get:6 https://pkg.jenkins.io/debian-stable binary/ Release.gpg [833 B]
Hit:7 http://security.ubuntu.com/ubuntu noble-security InRelease
Get:8 https://pkg.jenkins.io/debian-stable binary/ Packages [29.7 kB]
Fetched 32.5 kB in 1s (41.3 kB/s)
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
All packages are up to date.
ubuntu@ip-172-31-43-173:~$ sudo apt install jenkins -y
Reading package lists... Done
Building dependency tree... Done
```

➔ Step 2: Allow port 8080 and initialize Jenkins

```
ubuntu@ip-172-31-43-173:~$ cat /var/lib/jenkins/secrets/initialAdminPassword
cat: /var/lib/jenkins/secrets/initialAdminPassword: Permission denied
ubuntu@ip-172-31-43-173:~$ cd cat /var/lib/jenkins/secrets/initialAdminPassword
-bash: cd: too many arguments
ubuntu@ip-172-31-43-173:~$ sudo cat /var/lib/jenkins/secrets/initialAdminPassword
c1023e100657496e9f3d892585055d6e
ubuntu@ip-172-31-43-173:~$ sudo apt install git -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
git is already the newest version (1:2.43.0-1ubuntu7.3).
git set to manually installed.
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
ubuntu@ip-172-31-43-173:~$ git --version
git version 2.43.0
```

➔ Step 3: Add Extended mail notifications from the configure

Extended E-mail Notification

SMTP server

smtp.gmail.com

SMTP Port

587

Advanced ^

Edited

Credentials

pisalpranit1@gmail.com/***** (jenkins pass for mail)

+ Add



Use SSL



Use TLS



Use OAuth 2.0

➔ Step 4: Create Github repo and add code to it. Then add github webhook.

Wanted162 / jenkins-webhook-demo

Code Issues Pull requests Actions Projects Wiki Security Insights Settings

General

Access

Collaborators

Moderation options

Code and automation

Branches

Tags

Rules

Actions

Models

Webhooks

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://43.205.203.218:8080/github-...> (push)

Last delivery was successful.

Edit Delete

➔ Step 5: Create a Job in Jenkins and enable the GitHub Trigger



Configure

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

*/main

Add Branch

Repository browser ?

(Auto)

Additional Behaviours

Add

Triggers

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

- ☐ Trigger builds remotely (e.g., from scripts) ?
- ☐ Build after other projects are built ?
- ☐ Build periodically ?
- ☒ GitHub hook trigger for GITScm polling ?

Save

Apply



Status

Changes

Console Output

Edit Build Information

Delete build #6

Polling Log

Timings

Git Build Data

Previous Build

✓ #6 (Sep 2, 2025, 7:08:59 AM)

Add description

Keep this build forever



Started by GitHub push by Wanted162



This run spent:

- 9 sec waiting;
- 0.93 sec build duration;
- 9.9 sec total from scheduled to completion.



Revision: 6c7aa202a8c5d77dcc19f3f67e666c479587034a

Repository: <https://github.com/Wanted162/jenkins-webhook-demo.git>

- refs/remotes/origin/main



Changes

1. Update hello.sh ([details](#) / [githubweb](#))

Started 36 min ago
Took 0.93 sec