Devops Day-1

Freestyle Jenkins Setup Guide

Step 1: Install Jenkins

- Download and install Jenkins on your system.
- Ensure Java is installed and configured properly.

Step 2: Access Jenkins Dashboard

- Open Jenkins in a web browser (http://localhost:8080).
- Unlock Jenkins using the administrator password from the terminal

Step 3: Install Recommended Plugins

- Choose the suggested plugins during setup.
- Wait for the installation to complete.

Step 4: Create a Freestyle Project

- Navigate to Jenkins Dashboard > New Item.
- Select **Freestyle Project** and provide a name.

Step 5: Configure the Build

- In the project settings, add a build step (e.g., Execute Shell or Windows Batch Command).
- Define the commands needed to execute your job.

Step 6: Configure Source Code Management (Optional)

- Select Git under Source Code Management.
- Provide the repository URL and credentials if needed.

Step 7: Set Up Build Triggers

- Choose **Poll SCM** or **Build Periodically** for automated builds.
- Configure webhooks for real-time triggering (if applicable).

Step 8: Run and Monitor the Job

- Click **Build Now** to execute the job.
- Monitor console output for real-time logs.

Step 9: View Build History and Results

- Check past builds in the **Build History** panel.
- Review logs and artifacts for debugging.

Screenshots

```
0 added, 0 removed; done.
Running hooks in /etc/ca-certificates/update.d...

done.
done.
root@Ubuntu:~# java -version
openjdk version "11.0.26" 2025-01-21
OpenJDK Runtime Environment (build 11.0.26+4-post-Ubuntu-1ubuntu122.04)
OpenJDK 64-Bit Server VM (build 11.0.26+4-post-Ubuntu-1ubuntu122.04, mixed mode, sharing)
root@Ubuntu:~#
```

```
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
    net-tools
The following NEW packages will be installed:
    jenkins net-tools
0 upgraded, 2 newly installed, 0 to remove and 205 not upgraded.
Need to get 95.0 MB of archives.
After this operation, 97.6 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
```

```
Unpacking jenkins (2.492.2) ...

Setting up net-tools (1.60+git20181103.0eebece-1ubuntu5) ...

Setting up jenkins (2.492.2) ...

Created symlink /etc/systemd/system/multi-user.target.wants/jenkins.service → /lib/systemd/sy

Could not execute systemctl: at /usr/bin/deb-systemd-invoke line 142.

Processing triggers for man-db (2.10.2-1) ...

root@Ubuntu:~# sudo systemctl enable jenkins

Synchronizing state of jenkins.service with SysV service script with /lib/systemd/systemd-systemcturing: /lib/systemd/systemd-sysv-install enable jenkins

root@Ubuntu:~#
```

```
Setting up libxdmcp-dev:amd64 (1:1.1.3-0ubuntu5) ...
Setting up libxcb1-dev:amd64 (1:14-3ubuntu3) ...
Setting up libx11-dev:amd64 (2:1.7.5-1ubuntu0.3) ...
Setting up libx1-dev:amd64 (1:1.2.1-1) ...
root@Ubuntu:~# java -version
openjdk version "17.0.14" 2025-01-21
OpenJDK Runtime Environment (build 17.0.14+7-Ubuntu-122.04.1)
OpenJDK 64-Bit Server VM (build 17.0.14+7-Ubuntu-122.04.1, mixed mode, sharing)
root@Ubuntu:~#
```

```
Hit:4 http://security.ubuntu.com/ubuntu jamny-security InRelease
Hit:5 http://in.archive.ubuntu.com/ubuntu jamny-security InRelease
Hit:6 http://in.archive.ubuntu.com/ubuntu jamny-updates InRelease
Hit:7 http://in.archive.ubuntu.com/ubuntu jamny-backports InRelease
Reading package lists... Done
Reading package lists... Done
Reading state information... Done
Building dependency tree... Done
Reading state information... Done
Intervelope in the state information... Done
Reading state information... Done
Intervelope in the state in the stat
```



























