

Jenkins Mastery – Day 2 Documentation

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1. Objective of Day 2

Integrate Jenkins with GitHub using a Pipeline job, commit code to a repository, and execute scripts via Jenkinsfile.

2. Files Created Locally

Project Folder: D:\Projects\jenkins-sample-pipeline

Files included:

- build.sh
- Jenkinsfile

3. Git Initialization, Identity Setup & Commit

Commands used:

```
git init  
git add .  
git config --global user.name "Yash Yernal"  
git config --global user.email "youremail@example.com"  
git commit -m "Initial commit: Jenkins sample pipeline"
```

4. GitHub Setup & Push

Repository created:

<https://github.com/yash1206yernal/jenkins-sample-pipeline>

Commands executed:

```
git branch -M main  
git remote add origin https://github.com/yash1206yernal/jenkins-sample-pipeline.git  
git push -u origin main
```

5. Jenkins Pipeline Job Configuration

New Item → Pipeline Job

Under Pipeline select 'Pipeline script from SCM'

SCM: Git

Repository URL: GitHub URL

Branch: main

Script Path: Jenkinsfile

6. Permission Issue & Fix

Initial error: build.sh lacked execution permission.

Solution added in Jenkinsfile:

```
sh 'chmod +x build.sh'
```

Then executing script using:
sh './build.sh'

7. Final Jenkinsfile Used

```
pipeline { agent any stages { stage('Checkout') { steps { checkout scm } } stage('Run Script') { steps { sh 'chmod +x build.sh'; sh './build.sh' } } }}
```

8. Successful Output

Console displayed:
Running CI Pipeline Successfully!
Finished: SUCCESS

9. Completion Summary

- ✓ GitHub Repo Created
- ✓ Code Pushed
- ✓ Jenkins Pulls from GitHub
- ✓ Permission Fix Applied
- ✓ Pipeline Executed Successfully