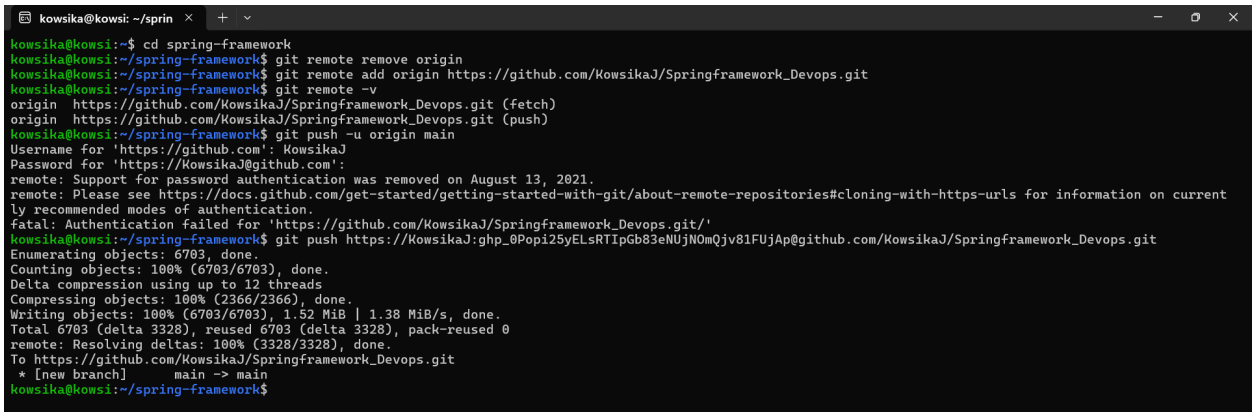
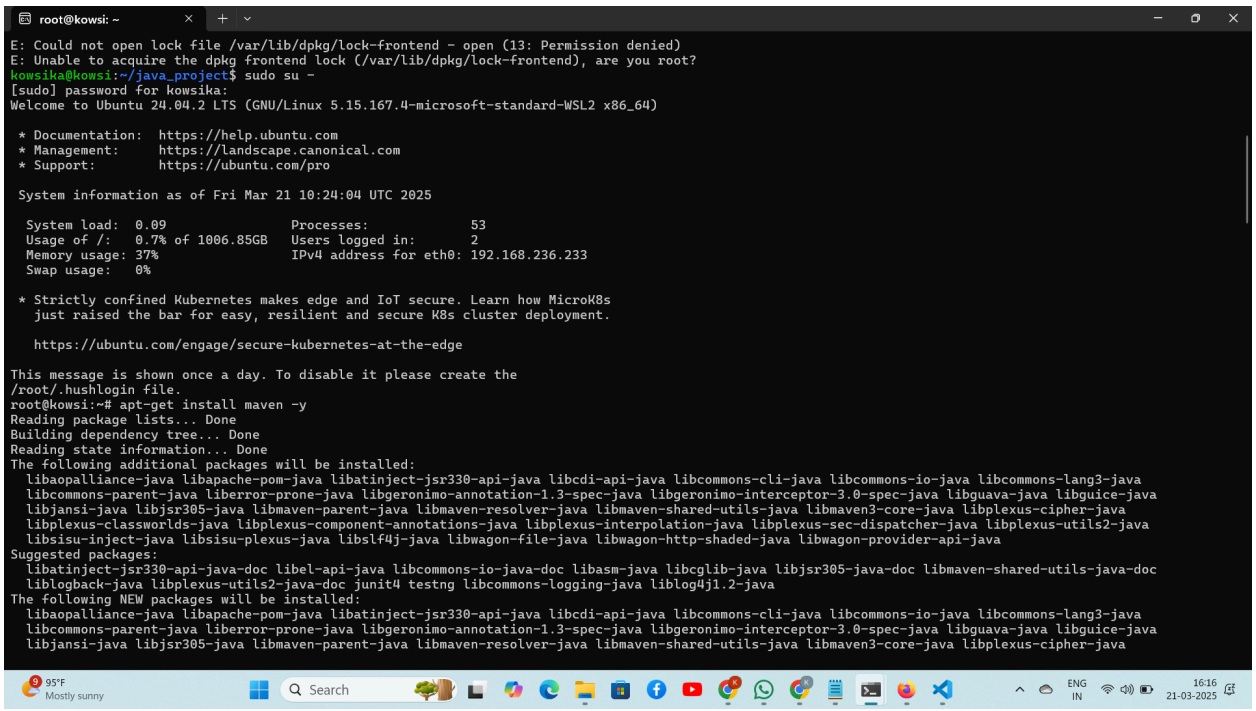
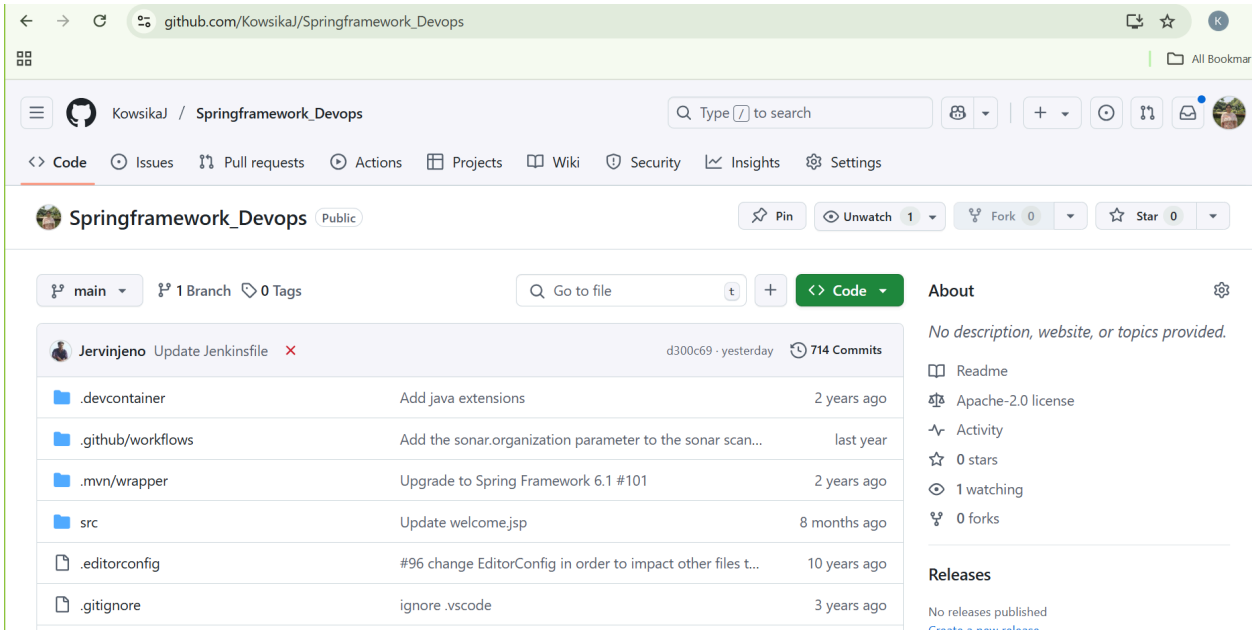
DEVOPS TASK 5

Step 1: Clone the repository in ubuntu using the url :
https://github.com/Jervinjeno/spring-framework.git

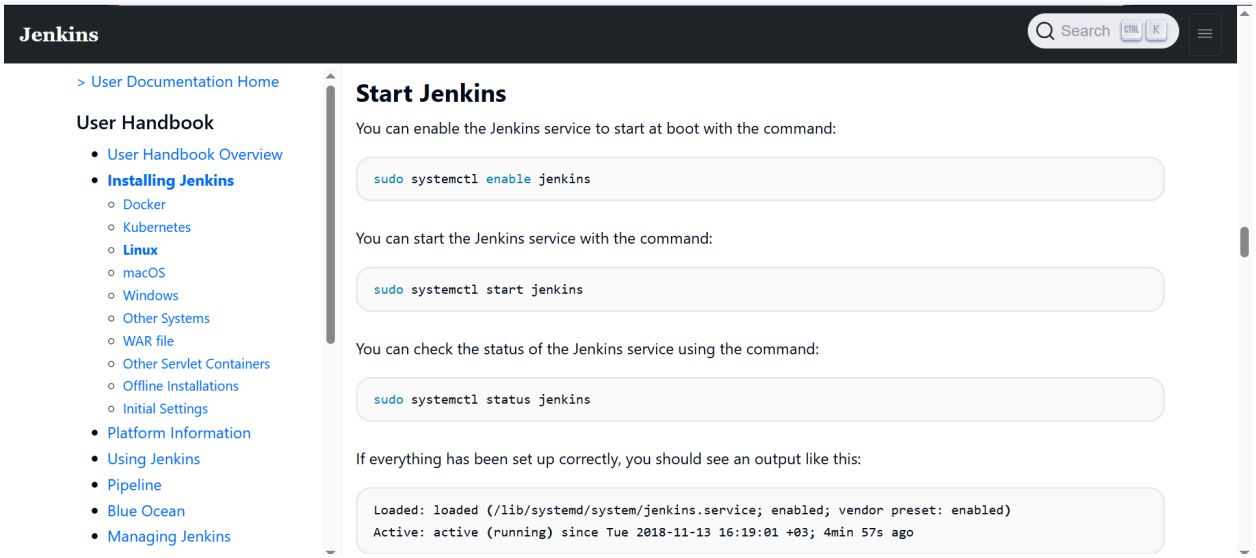


Step 2: Install maven dependency and JDK

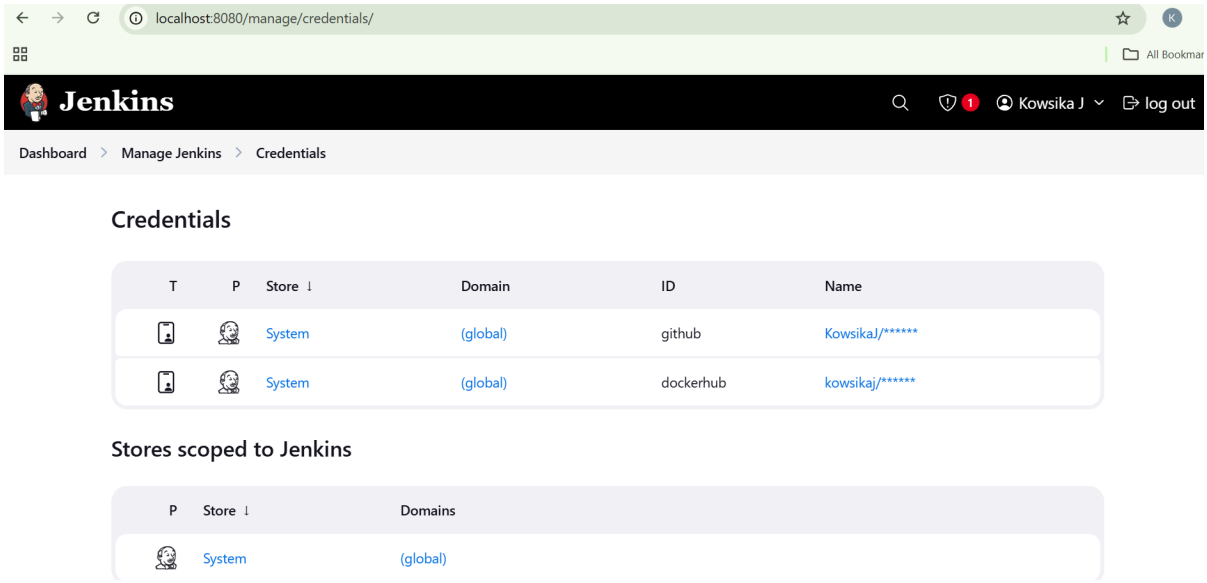




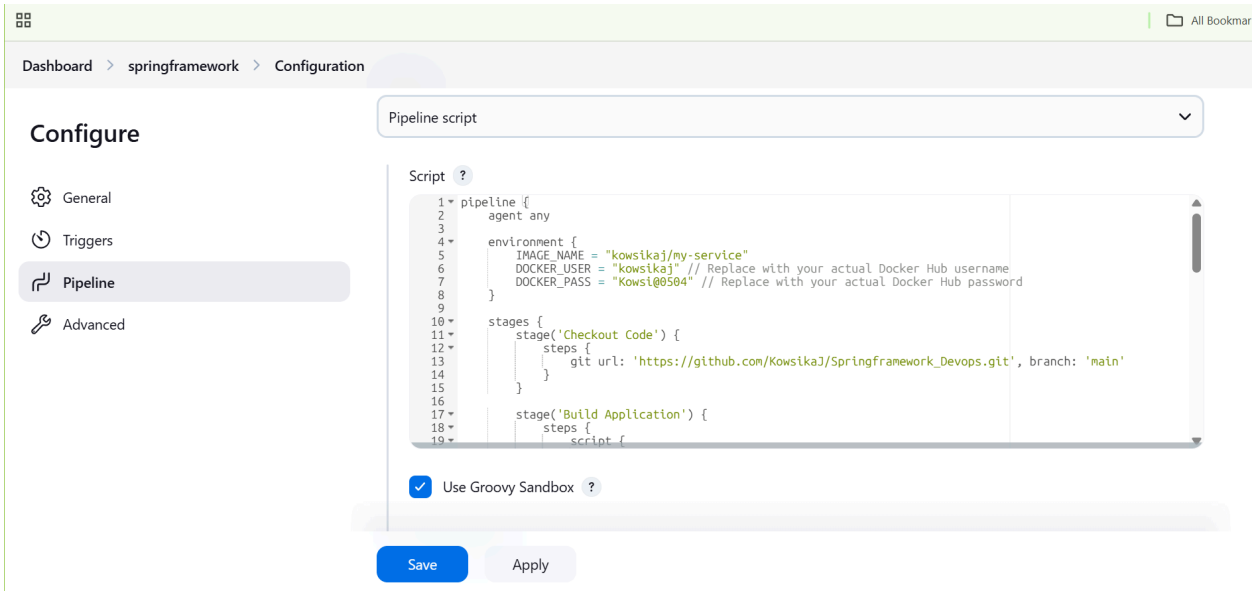
Step 3: In a new ubuntu terminal , start jenkins using the following 3 commands:



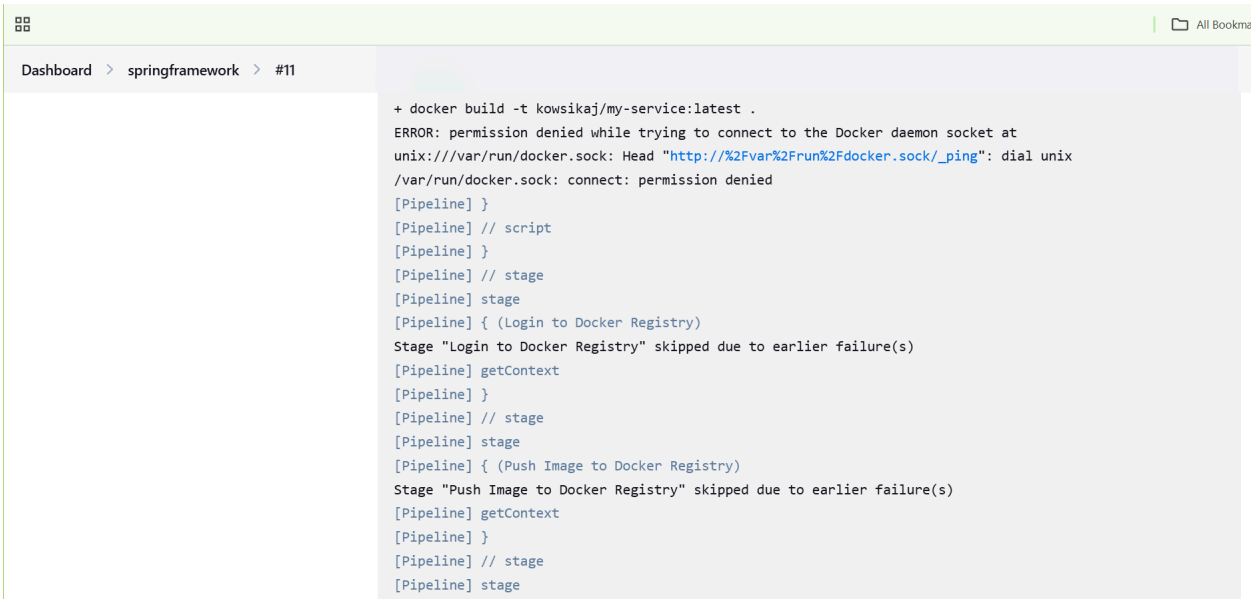
Step 4: In chrome type **localhost:8080** and enter .Then give the username and password to login into jenkins.
Step 5: Go to Manage Jenkins and choose **Credentials** from Security.
Step 6: Add new credentials for github & docker-hub.



Step 7: Create a new item springframework and choose pipeline project in jenkins.
Step 8: Go to **Configure** in springframework item, and paste the edited jenkins file in the script with proper indentation.



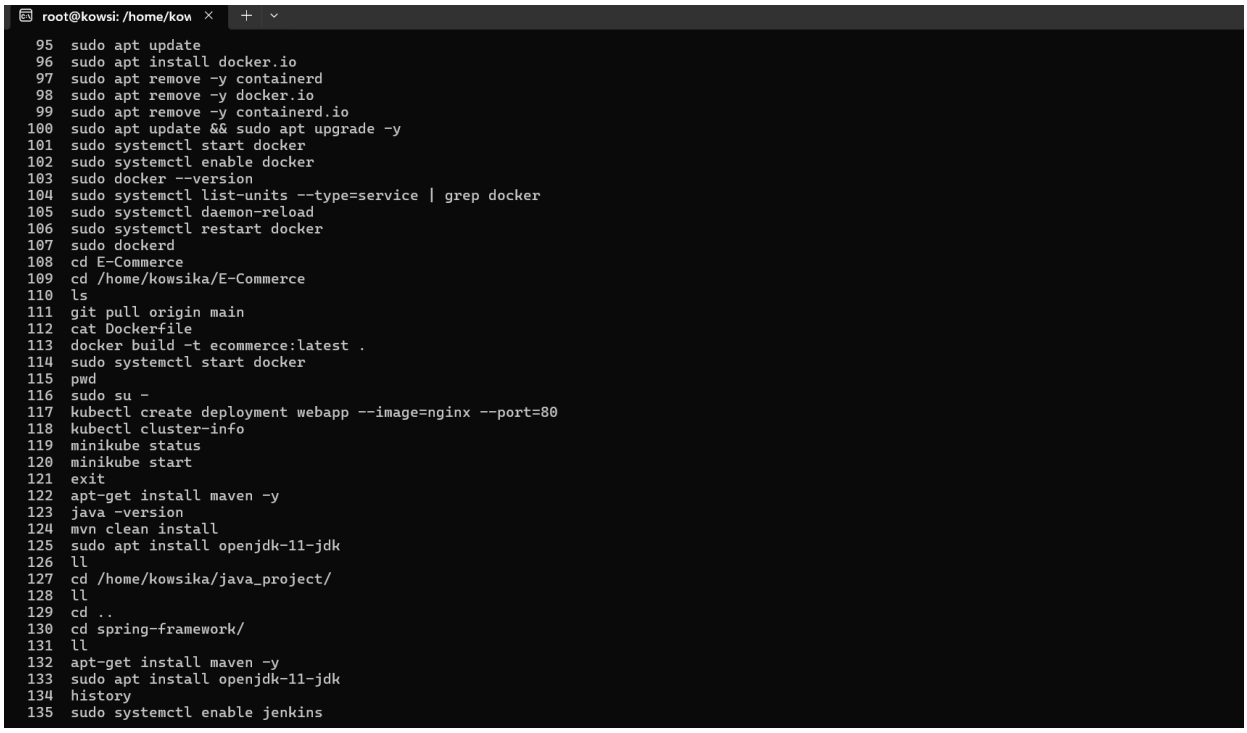
Step 9: Click on Save and Build now.
Step 10: This gives an error message as permission denied



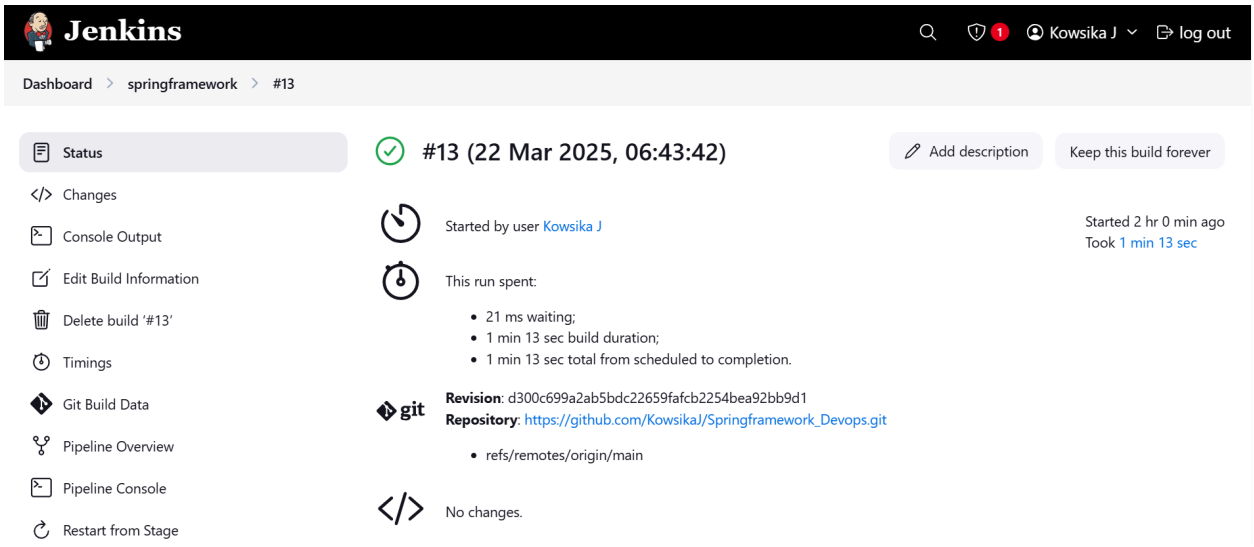
STEP 11: To overcome the above error execute the below commands

```
[sudo] password for kowsika:
Welcome to Ubuntu 24.04.2 LTS (GNU/Linux 5.15.167.4-microsoft-standard-WSL2 x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:     https://landscape.canonical.com
 * Support:        https://ubuntu.com/pro

 System information as of Sat Mar 22 06:33:21 UTC 2025

  System load:  0.75               Processes:             57
  Usage of /:   0.8% of 1006.85GB  Users logged in:       2
  Memory usage: 40%                IPv4 address for eth0: 192.168.236.233
  Swap usage:   0%

 * Strictly confined Kubernetes makes edge and IoT secure. Learn how MicroK8s
   just raised the bar for easy, resilient and secure K8s cluster deployment.

   https://ubuntu.com/engage/secure-kubernetes-at-the-edge

This message is shown once a day. To disable it please create the
/root/.hushlogin file.
root@kowsi:~# chmod 777 /var/run/docker.sock
root@kowsi:~# usermod -aG docker jenkins
root@kowsi:~#
```

HISTORY OF COMMANDS



```
root@kowsi: /home/kow
 95  sudo apt update
 96  sudo apt install docker.io
 97  sudo apt remove -y containerd
 98  sudo apt remove -y docker.io
 99  sudo apt remove -y containerd.io
100  sudo apt update && sudo apt upgrade -y
101  sudo systemctl start docker
102  sudo systemctl enable docker
103  sudo docker --version
104  sudo systemctl list-units --type=service | grep docker
105  sudo systemctl daemon-reload
106  sudo systemctl restart docker
107  sudo dockerd
108  cd E-Commerce
109  cd /home/kowsika/E-Commerce
110  ls
111  git pull origin main
112  cat Dockerfile
113  docker build -t ecommerce:latest .
114  sudo systemctl start docker
115  pwd
116  sudo su -
117  kubectl create deployment webapp --image=nginx --port=80
118  kubectl cluster-info
119  minikube status
120  minikube start
121  exit
122  apt-get install maven -y
123  java -version
124  mvn clean install
125  sudo apt install openjdk-11-jdk
126  ll
127  cd /home/kowsika/java_project/
128  ll
129  cd ..
130  cd spring-framework/
131  ll
132  apt-get install maven -y
133  sudo apt install openjdk-11-jdk
134  history
135  sudo systemctl enable jenkins
```



Jenkins

Kowsika J | log out

Dashboard > springframework > #13

- Status
- Changes
- Console Output
- Edit Build Information
- Delete build '#13'
- Timings
- Git Build Data
- Pipeline Overview
- Pipeline Console
- Restart from Stage

#13 (22 Mar 2025, 06:43:42)

Add description | Keep this build forever

Started by user Kowsika J

Started 2 hr 0 min ago
Took 1 min 13 sec

This run spent:

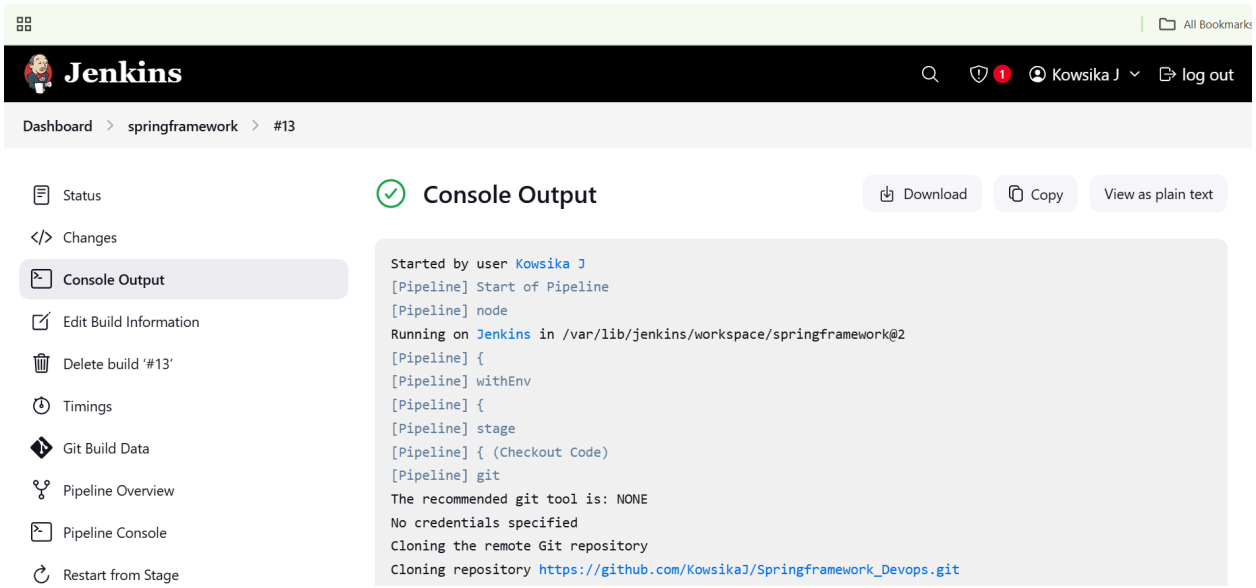
- 21 ms waiting;
- 1 min 13 sec build duration;
- 1 min 13 sec total from scheduled to completion.

git

Revision: d300c699a2ab5bdc22659fafcb2254bea92bb9d1
Repository: https://github.com/KowsikaJ/Springframework_Devops.git

- refs/remotes/origin/main

No changes.


All Bookmarks
Jenkins
Kowsika J
log out
Dashboard
springframework
#13
Status
Changes
Console Output
Edit Build Information
Delete build '#13'
Timings
Git Build Data
Pipeline Overview
Pipeline Console
Restart from Stage
Console Output
Download
Copy
View as plain text
Started by user Kowsika J
[Pipeline] Start of Pipeline
[Pipeline] node
Running on Jenkins in /var/lib/jenkins/workspace/springframework@2
[Pipeline] {
[Pipeline] withEnv
[Pipeline] {
[Pipeline] stage
[Pipeline] { (Checkout Code)
[Pipeline] git
The recommended git tool is: NONE
No credentials specified
Cloning the remote Git repository
Cloning repository https://github.com/KowsikaJ/Springframework_Devops.git


All Bookmarks
Dashboard
springframework
#13
3359bc3d7a6a: Layer already exists
71ed530e3292: Pushed
latest: digest: sha256:cda1596f6d5b15727b889b9510c38737f135310e5127686fdfaeb45fbbc1b7d1 size: 2413
[Pipeline] }
[Pipeline] // script
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Declarative: Post Actions)
[Pipeline] echo
Pipeline executed successfully!
[Pipeline] }
[Pipeline] // stage
[Pipeline] }
[Pipeline] // withEnv
[Pipeline] }
[Pipeline] // node
[Pipeline] End of Pipeline
Finished: SUCCESS