DevOps

#Create GitHub repo

STEP 1:

"Add and commit all files to the remote repository."

```
international content of the co
```

STEP 2: Push local changes to the remote repository

```
student@mcaccl-6:-/kubernetes-day5/day5$ git push origin main
Username for 'https://github.com': iamJABASTIN password for 'https://github.com':
Enumerating objects: 18, done.
Counting objects: 18, done.
Counting objects: 18, done.
Delta compression using up to 16 threads
Compressing objects: 180% (18/18), done.
Writing objects: 180% (18/18), 2.71 ki8 | 2.71 ki8/s, done.
Writing objects: 180% (18/18), 2.71 ki8 | 2.71 ki8/s, done.
Total 18 (delta 1), reused 8 (delta 8), pack-reused 8
remote: Resolving deltas: 180% (13/1), done.
To https://github.com/:amJABASTIN/DevOps-day-5.git
* [new branch] main -> main
```

STEP 3: Create a Jenkins config file Jenkinsfile

A **Jenkinsfile** is a script that defines a **Jenkins pipeline**. It outlines how Jenkins should build, test, and deploy your code. Instead of manually configuring Jenkins jobs through the web interface, you can store the entire pipeline as code in your repository

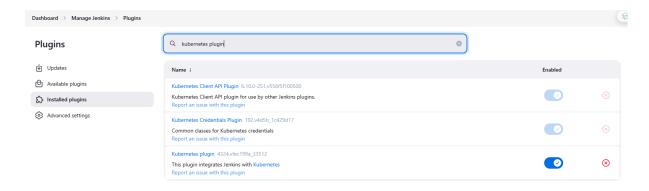
STEP 4: Enable and Start the Jenkins

```
student@mcaccl-6:-/kubernetes-day5/day5$ sudo systemctl enable jenkins
[sudo] passmord for student:
Synchronizing state of jenkins.service with SysV service script with /usr/lib/systemd/systemd-sysv-install.
Executing: /usr/lib/systemd/systemd-sysv-install enable jenkins
student@mcaccl-6:-/kubernetes-day5/day5$ sudo systemctl start jenkins
student@mcaccl-6:-/kubernetes-day5/day5$
```

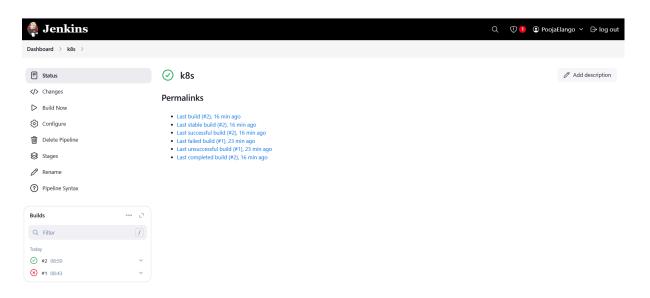
Vist the Jenkins in Port 8080

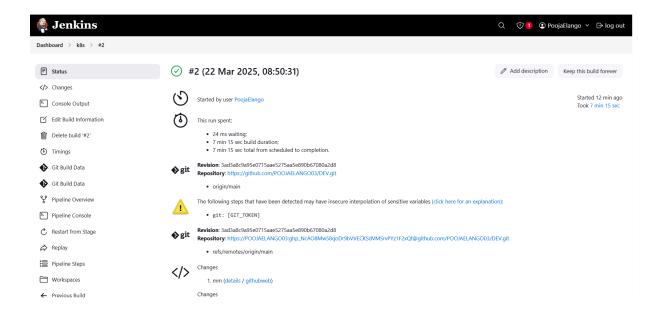
STEP 5: JENKINS PIPELINE

- 1. Create a Jenkins Pipeline
- 2. Push the Jenkins file to the Remote Repo
- 3. Install **Kubernetes plugin** in Jenkins



STEP 6: Build the Jenkins





Build successful

STEP 7: To test Frontend

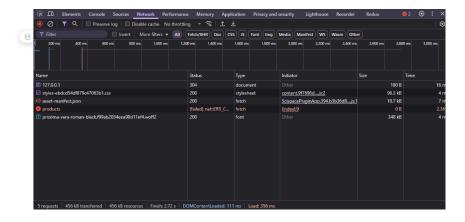


STEP 8: To Test backend

```
"tudent@mcaccl-6:"/kubernetes/k8s$ kubectl run test-pod --image=alpine --restart=Never -it -- sh
If you don't see a command prompt, try pressing enter.
/ # kubectl get pod test-pod
/ # kubectl exec -it test-pod -- sh
sh: kubectl: not found
/ # kubectl exec -it test-pod -- sh
sh: kubectl: not found
/ # apk add curl
fetch https://dl-cdn.alpinelinux.org/alpine/v3.21/main/x86_64/APKINDEX.tar.gz
fetch https://dl-cdn.alpinelinux.org/alpine/v3.21/community/x86_64/APKINDEX.tar.gz
(1/9) Installing brotli-libs (1.1.6-r2)
(2/9) Installing c-ares (1.34.3-ne)
(3/9) Installing c-libs (1.34.3-ne)
(3/9) Installing libunistring (1.2-r8)
(4/9) Installing libunistring (1.2-r8)
(5/9) Installing injutp2-libs (1.64.6-r8)
(6/9) Installing injutp2-libs (1.5.6-r2)
(8/9) Installing libuni (8.12.1-r1)
Feecuting busybor-1.37.9-r12.trigger
OK: 12 Mi8 in 24 packages
/ # curl http://backend-service:5000/products
fidd:[@n:1, **1:2, **2, **1, **3, **3, **1, **4, **1, **5, **name*:[*0*:"pen*, **1*:"book*, **2*:"laptop*, **3*:"shirt*, **4*:"pants*}, **price*:[*0*:20, **1*:400, **2*:50000, **3*:500, **4*:500, **4*:500, **4*:500, **4*:500, **4*:500, **4*:500, **4*:500, **4*:500, **4*:500, **4*:500, **4*:500, **4*:500, **4*:500, **4*:500, **4*:500, **4*:500, **4*:500, **4*:500, **4*:500, **4*:500, **4*:500, **4*:500, **4*:500, **4*:500, **4*:500, **4*:500, **4*:500, **4*:500, **4*:500, **4*:500, **4*:500, **4*:500, **4*:500, **4*:500, **4*:500, **4*:500, **4*:500, **4*:500, **4*:500, **4*:500, **4*:500, **4*:500, **4*:500, **4*:500, **4*:500, **4*:500, **4*:500, **4*:500, **4*:500, **4*:500, **4*:500, **4*:500, **4*:500, **4*:500, **4*:500, **4*:500, **4*:500, **4*:500, **4*:500, **4*:500, **4*:500, **4*:500, **4*:500, **4*:500, **4*:500, **4*:500, **4*:500, **4*:500, **4*:500, **4*:500, **4*:500, **4*:500, **4*:500, **4*:500, **4*:500, **4*:500, **4*:500, **4*:500, **4*:500, **4*:500, **4*:500, **4*:500, **4*:500, **4*:500, **4*:500, **4*:500, **4*:500, **4*:500, **4*:500, **4*:500, **4*:500, **4*:500, **4*:500, **4*:500, **4*:500, **4*:500,
```

Welcome to Our Store

Loading..



Note: We expect this kind of output because we are running this frontend on localhost.

— COMPLETED —