Day 5: DevOps

Create GitHub repo:

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

```
| Dispaces | Dispace | Dis
```

Push local changes to the remote repository

```
Enumerating objects: 18, done.

Counting objects: 180% (18/18), done.

Delta compression using up to 16 threads

Compressing objects: 180% (16/16), done.

Writing objects: 180% (18/18), 2.71 KiB | 2.71 KiB/s, done.

Total 18 (delta 1), reused 9 (delta 0), pack-reused 0

remote: Resolving deltas: 180% (1/1), done.

To https://github.com/iamJABASTIN/DevOps-day-5.git

* [new branch] main -> main
```

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

Enable and Start the Jenkins

```
student@mcaccl-6:-/kubernetes-days/day5$ sudo systemctl enable jenkins
[sudo] password 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$ sudo systemctl start jenkins
student@mcaccl-6:-/kubernetes-day5/day5$ sudo systemctl start jenkins
```

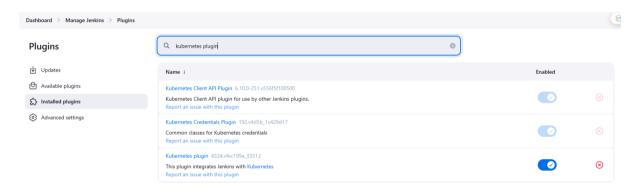
Vist the Jenkins in Port 8080

Jenkins Pipe Line

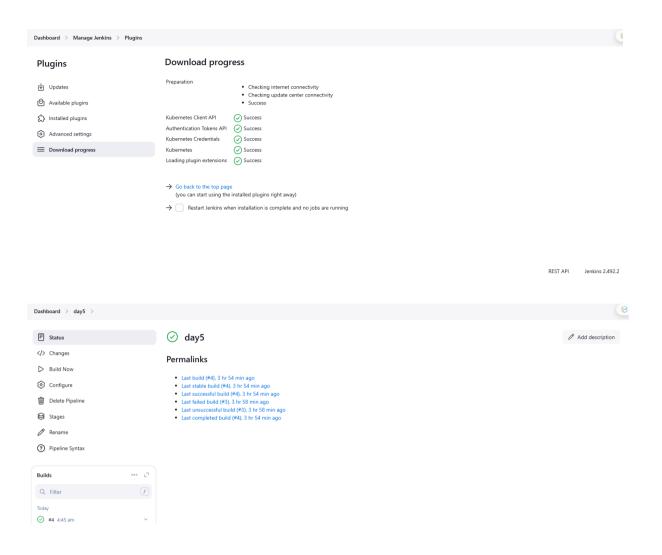
Create a Jenkins Pipeline

Push the Jenkins file to the Remote Repo

Install Kubernetes plugin in Jenkins



Build the Jenkins



Build successful

To test Frontend



To Test backend

```
If you don't see a command prompt, try pressing enter.

/ # kubectl get pod test-pod

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

fetch https://dl-cdn. alpinelinux.org/alpine/v3. 21/community/x86_64/APKINDEX.tar.gz

fetch https://dl-cdn. alpinelinux.org/alpine/v3. 21/community/x86_64/APKINDEX.tar.gz

fetch https://dl-cdn. alpinelinux.org/alpine/v3. 21/main/x86_64/APKINDEX.tar.gz

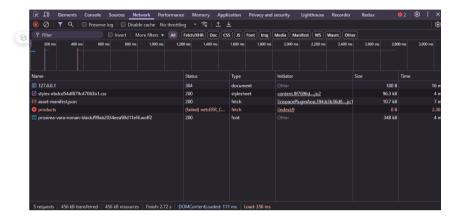
fetch https://dl-cdn. alpinelinux.org/alpine/v3. 21/community/x86_64/APKINDEX.tar.gz

fetch https://dl-cdn. alpinelinux.org/alpine/v3. 21/main/x86_64/APKINDEX.tar.gz

fetch https://dl-cdn. alpinelinux.org/alpine/v3. 21/main/x86_64/APKINDEX.ta
```

Welcome to Our Store

Loading...



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

— COMPLETED —