Day 5: DevOps

Create GitHub repo:

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

```
tudentmenaccl-6:-/whubernetes-days/days$ git init
hint: Using 'master' as the name for the initial branch name to use in all
hint: disting 'master' as the name for the initial branch name to use in all
hint: git config --global init.defaultBranch name to use in all
hint: git config --global init.defaultBranch name:
hint:
hint: Names commonly chosen instead of 'master' are 'main', 'trunk' and
hint: 'development'. The just-created branch can be renamed via this command:
hint:
hint: git branch -m sname>
Initialized empty Git repository in /home/student/kubernetes-days/days$ git branch -M main
studentmenaccl-6:-/kubernetes-days/days$ git branch -M main
studentmenaccl-6:-/kubernetes-days/days$ git commit 'Initial commit'
studentmenaccl-6:-/kubernetes-days/days git commit 'Initial commit'
studentmenaccl-6:
```

Push local changes to the remote repository

```
student@mcaccl-6:-/kubernetes-day5/day5$ git push origin main
Username for 'https://jithub.com': iamJABASTIN [pagithub.com':
Enumerating objects: 18, done.
Counting objects: 18, done.
Counting objects: 18, done.
Delta compression using up to 16 threads
Compression objects: 180% (16/18), done.
Writing objects: 180% (16/18), 2.71 KiB | 2.71 MiB/s, done.
Writing objects: 100% (18/18), 2.71 KiB | 2.71 MiB/s, done.
Total 18 (delta 1), reused 8 (delta 8), pack-reused 8
remote: Resolving deltas: 100% (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-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$
```

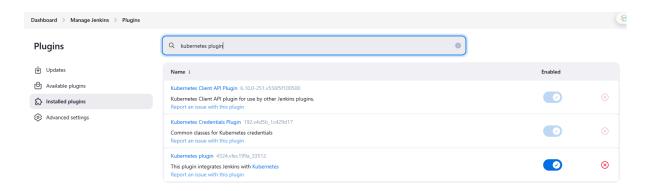
Vist the Jenkins in Port 8080

Jenkins Pipe Line

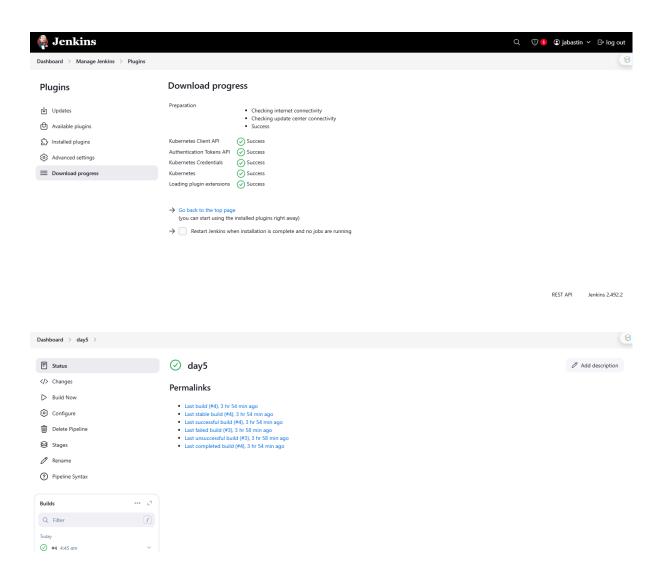
Create a Jenkins Pipeline

Push the Jenkins file to the Remote Repo

Install Kubernetes plugin in Jenkins

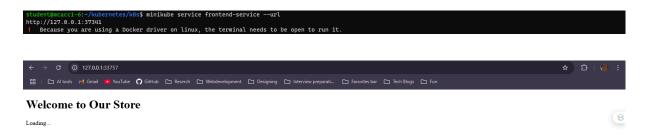


Build the Jenkins



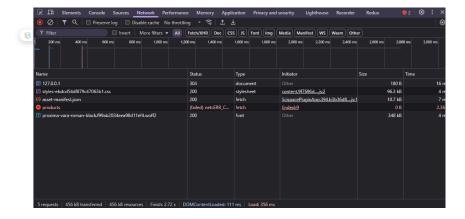
Build successful

To test Frontend



Welcome to Our Store

Loading...



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

— COMPLETED —