Day 5: DevOps

Create GitHub repo:

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

```
gokila@788697454512345:~/ecom/git clone https://github.com/gokila@/terra.git
Cloning into 'terra'...
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
gokila@780697454512345:~/ecom/git.
gokila@780697454512345:~/ecom/kubernetes
terra
gokila@780697454512345:~/ecom/kubernetes
gokila@780697454512345:~/ecom/kubernetes$ ls
README.md backend commands-to-execute commands-to-stop-instances frontend k8s minikube-linux-amd64 pre-requisites-command
gokila@780697454512345:~/ecom/kubernetes$ mw frontend backend k8s *rerra/
mw: target 'terra/: No such file or directory
gokila@780697454512345:~/ecom/kubernetes$ mw frontend backend k8s */ecom/kubernetes/terra/
mw: target '/home/gokila/ecom/kubernetes$ mw frontend backend k8s *recom/kubernetes/terra/
mw: target '/home/gokila/ecom/kubernetes/terra/': No such file or directory
gokila@780697454512345:~/ecom/kubernetes$ mw frontend backend k8s *recom/kubernetes/terra/
mw: target '/home/gokila/ecom/kubernetes/terra/': No such file or directory
gokila@780697454512345:~/ecom/kubernetes$ mw frontend backend k8s *recom/kubernetes/terra/
mw: target '/home/gokila/ecom/kubernetes$ mw frontend backend k8s *recom/kubernetes/terra/
mw: target '/home/gokila/ecom/kub
```

Push local changes to the remote repository

```
gokila@7806974541512345:~/ecom/ecom_v2/terra$ git push origin main
Username for 'https://github.com': C
gokila@7806974541512345:~/ecom/ecom_v2/terra$ git push origin main
Username for 'https://github.com': gokila@
Password for 'https://github.com': gokila@
gokila@780667454512345:~/ecom/ecom_v2/terra$ git pull origin main
remote: Enumerating objects: 10% (17/17), done.
remote: Countring objects: 10% (17/17), done.
remote: Countring objects: 10% (15/15), done.
remote: Countring objects: 10% (16/16), 2.95 KiB | 188.00 KiB/s, done.
From https://github.com/gokila@/terra
* branch main -> FETCH_HEAD
1bdb367..9763bea main -> origin/main
Updating lbdb367..9763bea main -> origin/main
Updating lbdb367..9763bea
error: The following untracked working tree files would be overwritten by merge:
backend/apc.py
backend/products.csv
backend/products.csv
backend/products.csv
backend/products.tst
frontend/dockerfile
k8s/saltow-all.yaml
k8s/saltow-all.yaml
k8s/saltow-all.yaml
k8s/saltow-all.yaml
k8s/sockend-eployment.yaml
k8s/sockend-eployment.yaml
k8s/sockend-eployment.yaml
k8s/sorvice.yaml
Please move or remove them before you merge.
Aborting
```

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

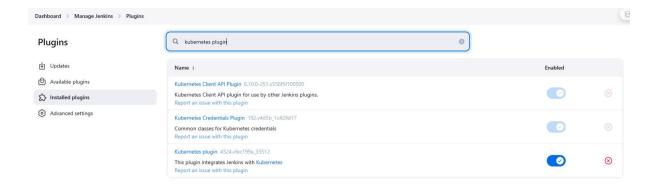
Vist the Jenkins in Port 8080

Jenkins Pipe Line

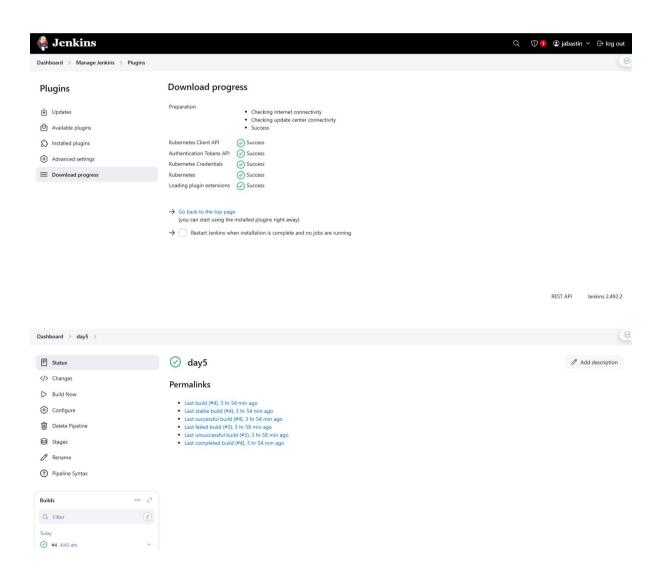
Create a Jenkins Pipeline

Push the Jenkins file to the Remote Repo

Install **Kubernetes plugin** in Jenkins

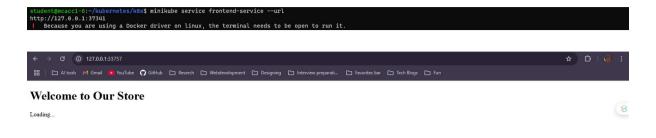


Build the Jenkins

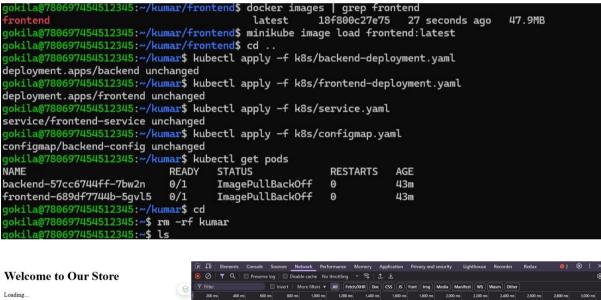


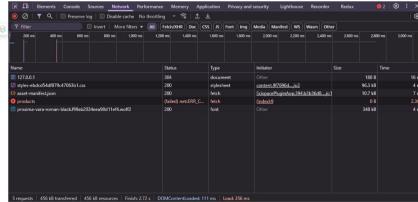
Build successful

To test Frontend



To Test backend





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