Day 5: DevOps YUGESHWARAN G

Create GitHub repo:

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

```
student@mcaccl-6:-/kubernetes-day5/day5$ git init
hint: Using 'master' as the name for the initial branch. This default branch name
hint: is subject to change. To configure the initial branch name to use in all
hint: of your new repositories, which will suppress this warning, call:
hint:
hint: git config --global init.defaultBranch <a href="mailto:sall-branch">sall-branch</a>
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:
git branch -m <a href="mailto:sall-branch">sall-branch</a>
hint: git branch -m <a href="mailto:sall-branch">sall-branch</a>
hint: git branch -m <a href="mailto:sall-branch-branch-branch-branch-branch-branch-branch-branch-sall-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branch-branc
```

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://jamJABASTIN@github.com':
Enumerating objects: 18, done.
Counting objects: 100% (18/18), done.
Delta compression using up to 16 threads
Compressing objects: 100% (16/16), done.
Writing objects: 100% (16/16), done.
Total 18 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), done.
To https://github.com/iamJABASTIN/DevOps-day-5.git
* form the pack of the pack o
```

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@mcacc1-6:-/kubernetes-day5/day5$ sudo systemctl enable jenkins
[sudo] password for student:
Systemd: systemd: systemd systemd
```

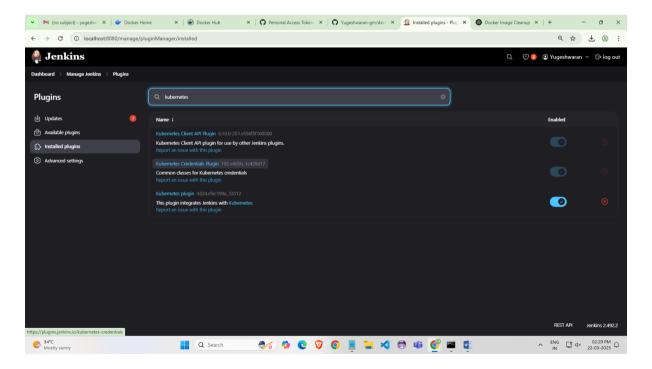
Vist the Jenkins in Port 8080

Jenkins Pipe Line

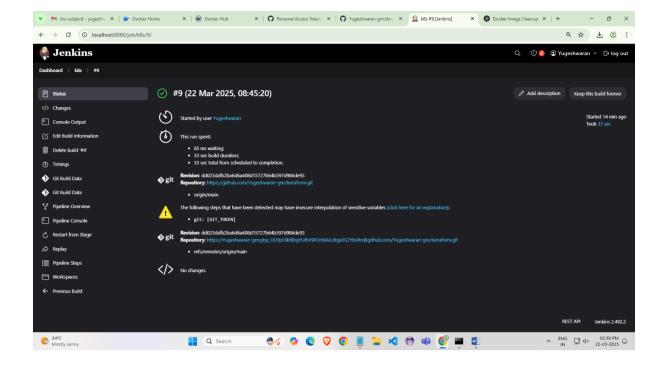
Create a Jenkins Pipeline

Push the Jenkins file to the Remote Repo

Install Kubernetes plugin in Jenkins



Build the Jenkins



Build successful

To test Frontend



To Test backend

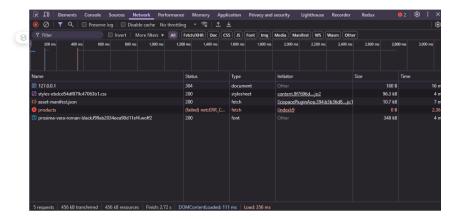
```
student@mcaccl-6:-/kubernetes/k8s$ kubectl run test-pod --image=alpine --restart=Never -it -- sh

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

/* klubectl get pod test-pod
sh: kubectl: not found
/* klubectl: not found
/* klubectl: not found
/* klubectl: 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 brotti-libs (1.1.0-r2)
(2/9) Installing c-ares (1.34.3-r8)
(3/9) Installing instring (1.2-r8)
(4/9) Installing libidaz (2.3.7-r8)
(6/9) Installing libidaz (2.3.7-r8)
(6/9) Installing injub-clibs (1.64.0-r8)
(6/9) Installing gate-libs (1.64.0-r8)
(6/9) Installing zstd-libs (1.5.6-r2)
(8/9) Installing zstd-libs (1.8.2.1-r1)
Executing busybox-1.37.0-r12.trigger
0K: 12 M18 in 24 packages
0K: 12 M18 in 24 packages
0K: 12 M18 in 24 packages
1K: "d':"0":1, "1":2, "2":3, "3":4, "4":5), "name": "0":"pen", "1":"book", "2":"laptop", "3":"shirt", "4":"pants"}, "price": "0":20, "1":400, "2":50000, "4":750}, "qty": "0":100, "1":500, "2":"3":"50, "2":"3":"50, "2":"50, "3":"50, "1":20, "1":400, "2":50000, "3":500, "4":750}, "qty": "0":100, "1":500, "2":"50, "3":"50, "1":20, "1":400, "2":50000, "3":500, "4":750}, "qty": "0":100, "1":500, "1":500, "1":500, "1":500, "1":500, "1":500, "1":500, "1":500, "1":500, "1":500, "1":500, "1":500, "1":500, "1":500, "1":500, "1":500, "1":500, "1":500, "1":500, "1":500, "1":500, "1":500, "1":500, "1":500, "1":500, "1":500, "1":500, "1":500, "1":500, "1":500, "1":500, "1":500, "1":500, "1":500, "1":500, "1":500, "1":500, "1":500, "1":500, "1":500, "1":500, "1":500, "1":500, "1":500, "1":500, "1":500, "1":500, "1":500, "1":500, "1":500, "1":500, "1":500, "1":500, "1":500, "1":500, "1":500, "1":500, "1":500, "1":500, "1":500, "1":500, "1":500, "1":500, "1":500, "1":500, "1":500, "1":500, "1":500, "1":500, "1":500, "1":500, "1":500, "1":500, "1":500, "1":500, "1":500, "1":500, "1":500, "1":500, "1":500, "1":500, "1":500, "1":500, "1":50
```

Welcome to Our Store

Loading...



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

— COMPLETED —