SAMYUKTHA K Day 5: DEVOPS

Create GitHub repo:

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

```
student@mcaccl=6:-/kubernetes-day3/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:
list:
list: lames commonly chosen instead of 'master' are 'main', 'trunk' and
hint: 'development'. The just-created branch can be renamed via this command:
hint: lames commonly chosen instead of 'master' are 'main', 'trunk' and
hint: 'git branch -= cname>
Initialized enpty Git repository in /home/student/kubernetes-day5/day5/.git/
student@mcacl=6:-/kubernetes-day4/day5 git branch -M main
student@mcacl=6:-/kubernetes-day4/day5 git tommit "Initial commit"
student@mcacl=6:-/kubernetes-day4/day5 git commit "Initial commit"
student@mcacl=6:-/kubernetes-day5/day5 git commit "Initial commit"
in fles changed, 177 insertions(*)
create mode 10864W Backend/App.py
create mode 10864W Backend/App.py
create mode 10864W Backend/Jop.py
create mode 10864W Commands-to-stop-instances
create mode 10864W Commands-to-stop-instances
create mode 10864W Commands-to-stop-instances
create mode 10864W Rackend/requirements.txt
create mode 10864W Rackend/requirements.txt
create mode 10864W Rackend/products.exp
create mode 10864W Rackend/products.exp
create mode 10864W Rackend/products.axp
create mode 10864W Rackend/app.py
create mode 10864W Rackend-deployment.yaml
create mode 10864W Rackend
create mode 10864W Rackend
create mod
```

Push local changes to the remote repository

```
student@mcacl=6:=/kubernetes-day5/day55 git push origin main
Username for 'https://github.com': iamJABASTIN Password for 'https://amJABASTINgithub.com':
Enumerating objects: 18, done.
Counting objects: 18, done.
Delta compression using up to 16 threads
Compression objects: 180% (18/18), done.
Writing objects: 180% (18/18), J. 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 0 (delta 0), pack-reused 0
remote: Resolving deltas: 180% (1/1), done.
To https://github.com/lamJABASTIN/DevOps-day-5.git
* [new Dranch] main -> main in main -> mai
```

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

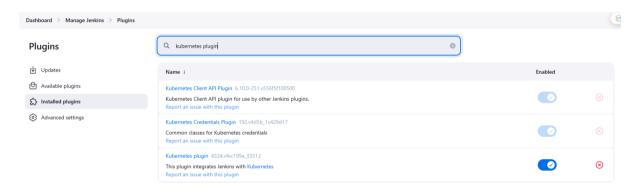
Vist the Jenkins in Port 8080

Jenkins Pipe Line

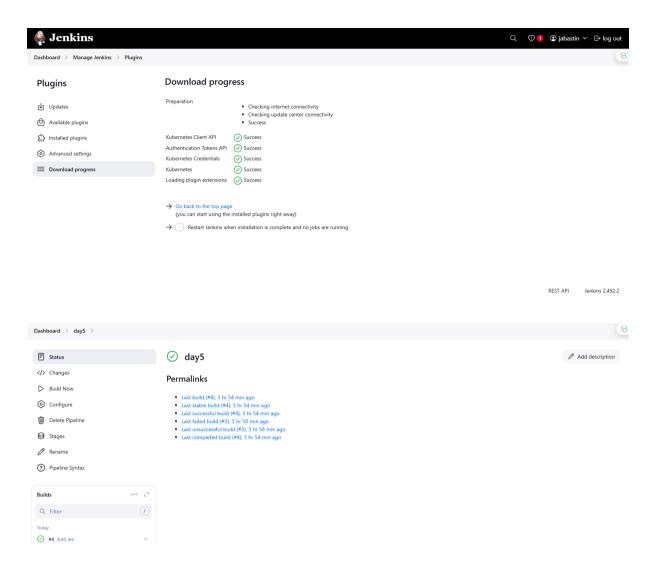
Create a Jenkins Pipeline

Push the Jenkins file to the Remote Repo

Install Kubernetes plugin in Jenkins



Build the Jenkins



Build successful

To test Frontend



To Test backend

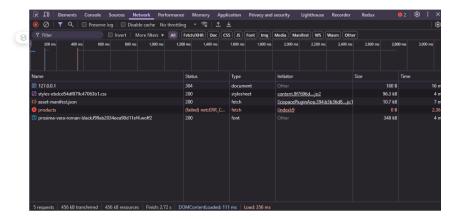
```
student@mcaccl-6:-/kubernetes/k8s$ kubectl run test-pod --image=alpine --restart=Never -it -- sh

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 —