# SIVAKUMAR P 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 supress this warning, call:
hint: git config --global init.defaultBranch <-name>
hint: git config --global init.defaultBranch <-name>
hint: Names commonly chosen instead of 'master' are 'main', 'trunk' and
hint: Names commonly chosen instead of 'master' are 'main', 'trunk' and
hint: git branch -= sname>
Initialized empty Git repository in /home/student/kubernetes-day5/day5/.git/
student@mcacl=6:-/kubernetes-day4/ay58 git branch -M main
student@mcacl=6:-/kubernetes-day4/ay58 git commit "Initial commit"
student@mcacl=6:-/kubernetes-day4/ay58 git commit "Initial commit"
student@mcacl=6:-/kubernetes-day4/ay58 git commit "Initial commit"
student@mcacl=6:-/kubernetes-day5/day58 git commit -m "Initial commit"

Inini (Noto-commit) 26:76e0gl Initial commit -m "Initial commit"

Inini (Noto-commit) 26:76
```

Push local changes to the remote repository

```
student@mcacl=6:-/kubernetes-day5/day58 git push origin main
Username for 'https://github.com': iamJABASTIN
Password for 'https://amJABASTIN@github.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), 2.71 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/iamJABASTIN/DevOps-day-5.git
* [new Dranch] main -> main in -> main -> m
```

# 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-
```

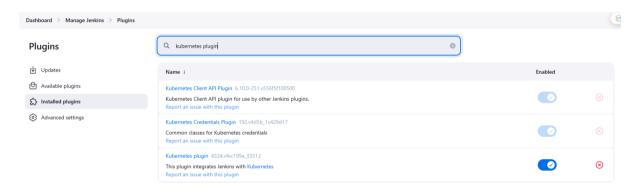
Vist the Jenkins in Port 8080

# Jenkins Pipe Line

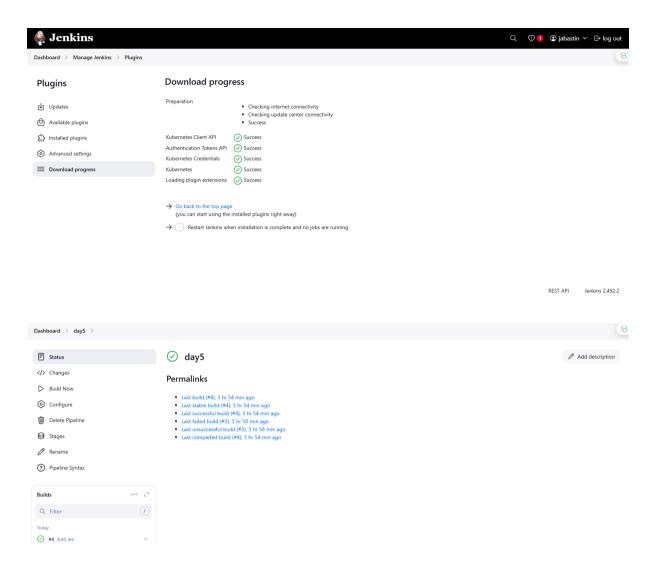
Create a Jenkins Pipeline

Push the Jenkins file to the Remote Repo

# Install Kubernetes plugin in Jenkins



**Build the Jenkins** 



#### Build successful

#### To test Frontend



# To Test backend

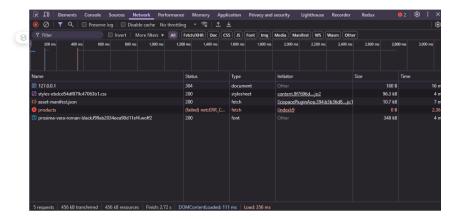
```
student@mcaccl-6:-/kubernetes/k8s$ kubectl run test-pod --image=alpine --restart=Never -it -- sh

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 —