DAY-2

DEVOPS

STEP -1 :INSTALL DOCKER

1) sudo apt update

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```

2) sudo apt install -y docker.io

```
Reading package lists... Done
Building dependency tree... Done
Bui
```

STEP 2: ENABLE AND DISABLE

- 1) sudo systemctl enable docker
- 2)sudo systemctl start docker

STEP 3:VERIFY THE INSTALLATION:

docker -version

STEP 4:INSTALL DOCKER COMPOSE

 $sudo\ curl\ -L\ "https://github.com/docker/compose/releases/latest/download/docker-compose-s(uname\ -s)-s(uname\ -m)"\ -o\ /usr/local/bin/docker-compose$

```
Selecting previously unselected package ubunturfan.

Preparing to ungack .../15-ubunturfan.8.12.16.all.deb ...

Ungacking ubunturfan (8.12.16) ...

Setting up libipite2:amd60 (1.8.18-3ubuntu2) ...

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Setting up libipite2:amd60 (1.8.18-3ubuntu2) ...

Setting up runc (1.1.12-dubuntu3.1) ...

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```

CREATE AN "HELLO WOLRD: APPLICATION

Create a project directory

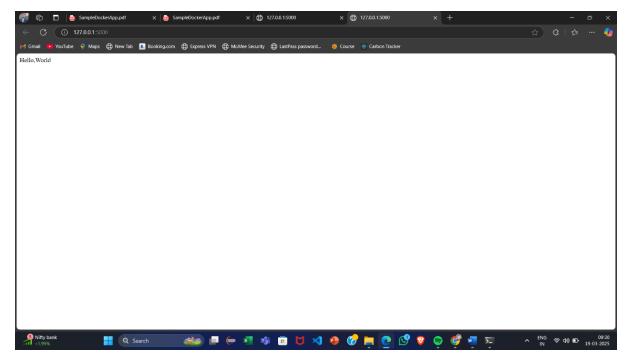
```
~$ mkdir ~/docker-python-app
~$ cd ~/docker-python-app
```

Create the python Application File

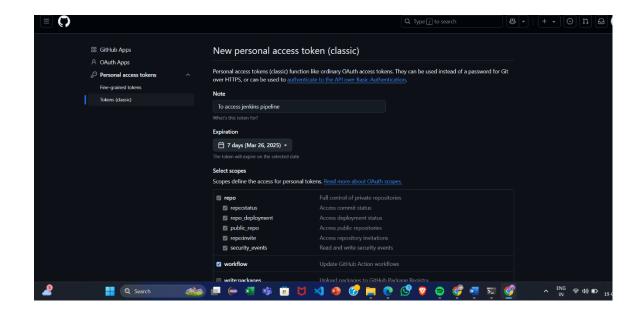
Create a file

```
from flask import Flask
app=Flask(__name__)
@app.route("/")
def hello():
        return "Hello,World"
if _name_ == "_main_":
        app.run(host="0.0.0.0",port=5000)
```

To Run an Docker



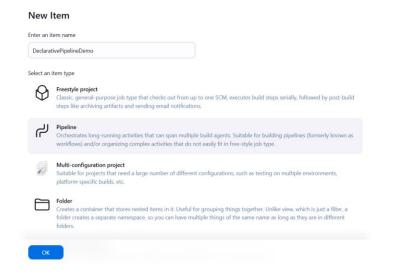
Devops Jenkins-Docker

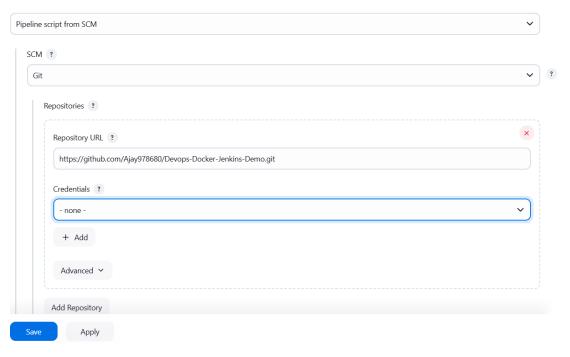


Personal Token: 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

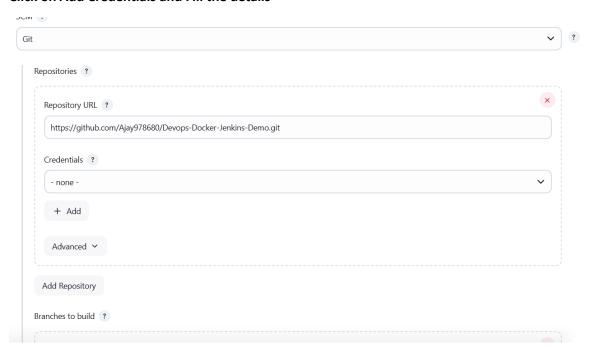
Start Jenkins

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





Click on Add Credentials and Fill the details



In First Time, it Will have Password, in that we will give github token for it.

Clone the Git Repo in Terminal:

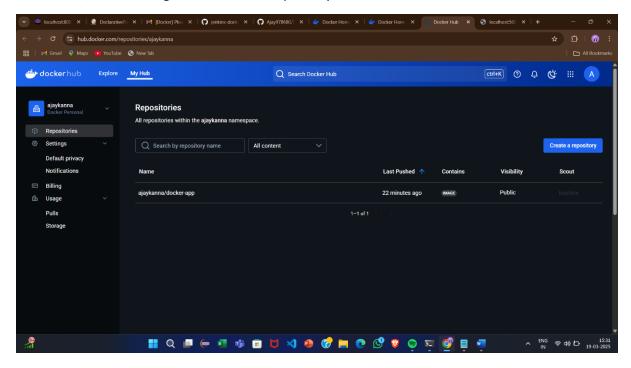
And move all other file to github repo folder.

Git fetch – Remote repo Change and haven't pulled in local.

Working to Push on GitHub Repo:

```
2614bda..848103b main -> main
gadeep@LAPTOP-EBJ40AHO:~/docker-python-app/jenkins$ sudo systemctl restart jenkins
[sudo] password for jegadeep:
jegadeep@LAPTOP-EBJ40AHO:~/docker-python-app/jenkins$ git ls-remote origin
848103bc2501dfca0ffa6635973ed8aee9a88c6b HEAD
848103bc2501dfca0ffa6635973ed8aee9a88c6b
n branch main
on or after main
Your branch is ahead of 'origin/main' by 3 commits.
(use "git push" to publish your local commits)
othing to commit, working tree clean
                 10AHC:∼/docker-python-app/jenkins$ git push https://jegadeeppandiarajan:ghp_y5rhrdu5j3aKDtsueVtnCIxRL0aoge1
Jegadeep@LAPTOP-EBJ40AHO:~/docker-python-app/jenkins$ git ls-remote origin
848103bc2501dfca0ffa6635973ed8aee9a88c6b HEAD
n branch main
our branch is ahead of 'origin/main' by 3 commits.
(use "git push" to publish your local commits)
                                                                                                   Q Search
```

Then create, Build now again and Click the repository in docker:



Click the container that we create in Jenkins:

