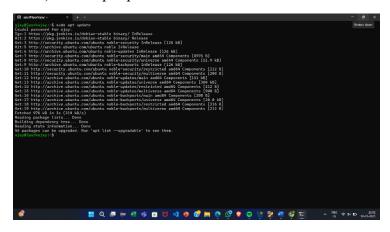
DAY-2

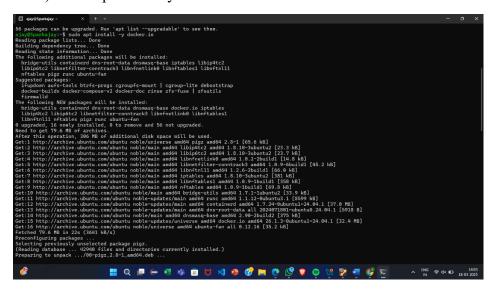
DEVOPS

STEP -1 :INSTALL DOCKER

1) sudo apt update



2) sudo apt install -y docker.io



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-\$(uname -s)-\$(uname -m)" -o /usr/local/bin/docker-compose

```
Selecting previously unselected package ubuntu-fan.

Preparing to unselected package ubuntu-fan.

Setting up libispitc:ama64 (1.8.19-3ubuntu2)...

Setting up libispitc:ama64 (1.8.19-3ubuntu2)...

Setting up libispitc:ama64 (1.8.19-3ubuntu2)...

Setting up projective (1.1.2-dubuntu3)...

Setting up projective (1.1.2-dubuntu3)...

Setting up projective (1.1.2-fabuntu3)...

Setting up libispitc:ama64 (1.8.19-3ubuntu3)...

Setting up libispitc:ama64 (1.8.19-3ubuntu3)...

Setting up containerd (1.7.24-dubuntu3)...

Setting up containerd (1.7.24-dubuntu3)...

Setting up interfellade: ama64 (1.8.9-1build)...

Setting up interfellade: ama64 (1.8.9-4build)...

setting up docker-alcostal-six-abuntu3-44 (1.8.9-4build)...

Info: selecting (1.8.4-4build)...

Setting up docker-alcostal-six-abuntu3-44 (1.8.9-4build)...

Info: selecting (1.8.9-4build)...

Setting up docker-alcostal-six-abuntu3-44 (1.8.9-4build)...

Setting up docker-alcostal-six-abuntu3-44 (1.8.9-4build)...

Info: selecting (1.8.9-4build)...

Setting up docker-alcostal-six-abuntu3-44 (1.8.9-4build)...

Setting up docker-alcostal-six-abuntu3-44 (1.8.9-4build)...

Setting up docker-alcostal-six-abuntu3-44 (1.8.9-4build)...

Processing triggers for
```

Give execution permission:

```
ajay@Sparkajay:~/docker-python.app$ sudo chmod +x /usr/locat/bin/docker-comp
ose
[sudo] password for ajay:
ajay@Sparkajay:~/docker-python.app$
```

VERIFY INSTALLATION

```
ajay@Sparkajay:~/docker-python.app$ docker-compose --version
Docker Compose version v2.34.0
ajay@Sparkajay:~/docker-python.app$
```

CREATE AN "HELLO WOLRD: APPLICATION

Create a project directory

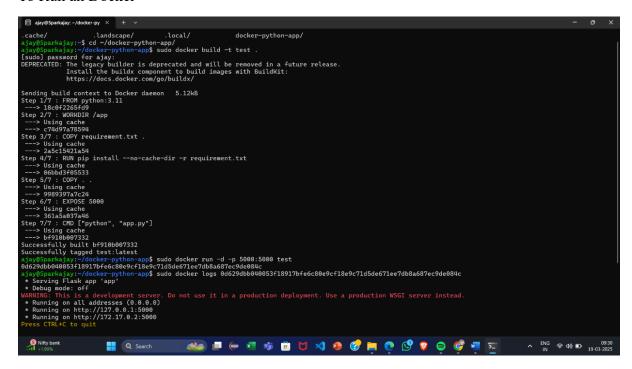
```
~$ mkdir ~/docker-python-app
~$ cd ~/docker-python-app
```

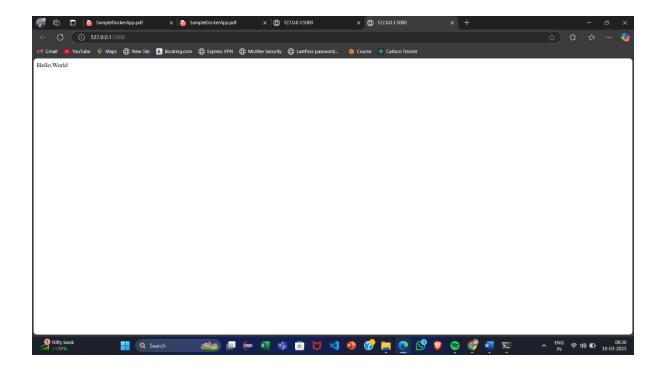
Create the python Application File

Create a file

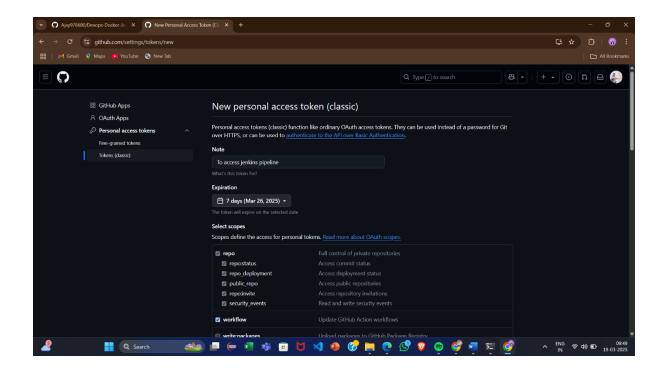
```
ajay@Sparkajay:~/docker-python.app$ nano app.py
ajay@Sparkajay:~/docker-python.app$ cat app.py
from flask import Flask
app=Flask(__name__)
@app.route("/")
def hello():
        return "Hello,World"
if _name_ == "_main_":
        app.run(host="0.0.0.0",port=5000)
```

To Run an Docker





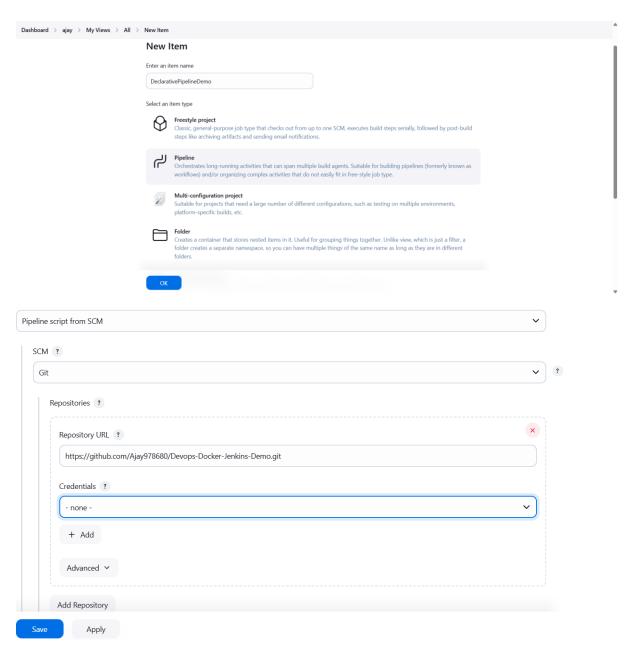
Devops Jenkins-Docker



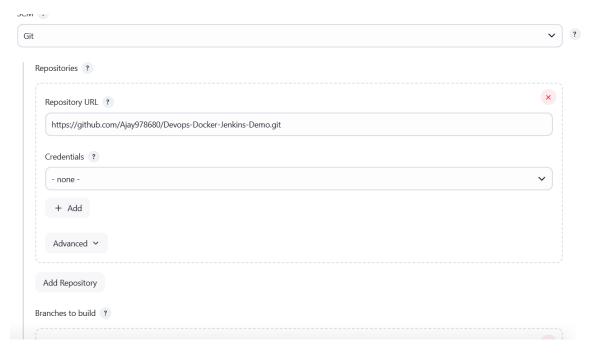
Personal Token: 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

Start Jenkins

ajay@Sparkajay:~\$ sudo systemctl enable 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 ajay@Sparkajay:~\$ sudo systemctl start 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:

```
ajay@sparkajay:~/docker-python-app$ LS
Dockerfile app.py docker-compose.yml requirement.txt
ajay@Sparkajay:~/docker-python-app$ git clone "https://github.com/Ajay978680/Devops-Docker-Jenkins-Demo.git"
Cloning into 'Devops-Docker-Jenkins-Demo'...
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
Receiving objects: 100% (3/3), done.
ajay@Sparkajay:~/docker-python-app$ ls
Devops-Docker-Jenkins-Demo Dockerfile app.py docker-compose.yml requirement.txt
ajay@Sparkajay:~/docker-python-app$ mv Dockerfile app.py docker-compose.yml requirement.txt
Devops-Docker-Jenkins-Demo Dockerfile app.py docker-compose.yml requirement.txt
ajay@Sparkajay:~/docker-python-app$ ls
Devops-Docker-Jenkins-Demo
ajay@Sparkajay:~/docker-python-app$ ls
Devops-Docker-Jenkins-Demo
ajay@Sparkajay:~/docker-python-app$
```

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:

```
ajay@Sparkajay:-/docker-python-app/Devops-Docker-Jenkins-Demo$ git add .
ajay@Sparkajay:-/docker-python-app/Devops-Docker-Jenkins-Demo$ git commit -m "Intitial commit"

**** Please tell me who you are.

Run

git config --global user.email "you@example.com"
git config --global user.name "Your Name"

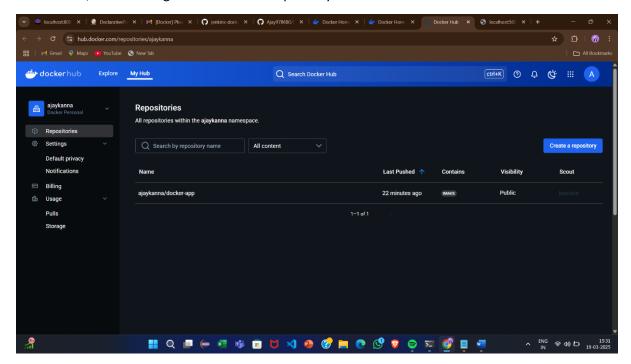
to set your account's default identity.

onit --global to set the identity only in this repository.

fatal: empty ident name (for <ajay@Sparkajay.>) not allowed
ajay@Sparkajay:-/docker-python-app/Devops-Docker-Jenkins-Demo$ git config --global user.email "sparkajay@Ol@gmail.com"
ajay@Sparkajay:-/docker-python-app/Devops-Docker-Jenkins-Demo$ git config --global user.mame "Ajay@78680"
ajay@Sparkajay:-/docker-python-app/Devops-Docker-Jenkins-Demo$ git commit -m "Intitial commit"

If iles changed, 26 insertions(+) create mode 1006d44 app.py
create mode 1006d44 pockerfile
create mode 1006d44 pockerfole
create mode 1006d44 requirement.txt
ajay@Sparkajay:-/docker-python-app/Devops-Docker-Jenkins-Demo$ git push https://Ajay978680: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@github.com/Ajay978680/De
vops-Docker-Jenkins-Demo.git
Enumerating objects: 100% (5/5), done.
Counting objects: 100% (5/5), done.
Counting objects: 100% (5/5), done.
Writing objects: 100% (6/6), 775 bytes | 387.00 KiB/s, done.
Total 6 (delta 0), reused 0 (delta 0), pack-reused 0
To https://jithub.com/Ajay978680/Devops-Docker-Jenkins-Demo.git
39cb3aa.3b56509 main -> main
```

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



Click the container that we create in Jenkins:

