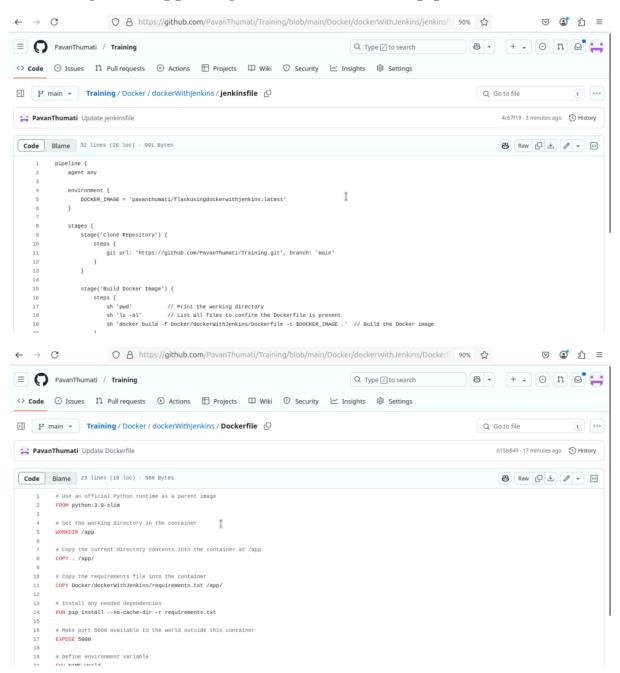
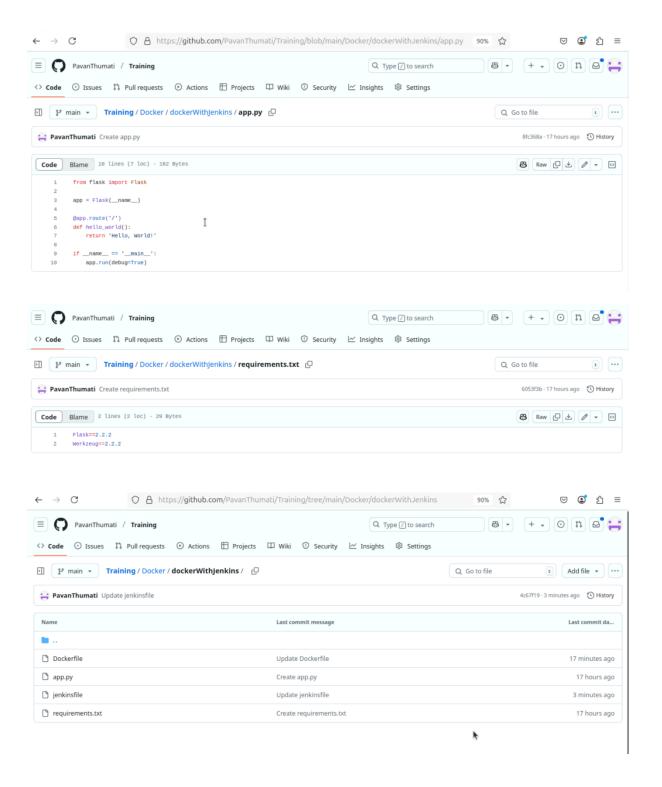
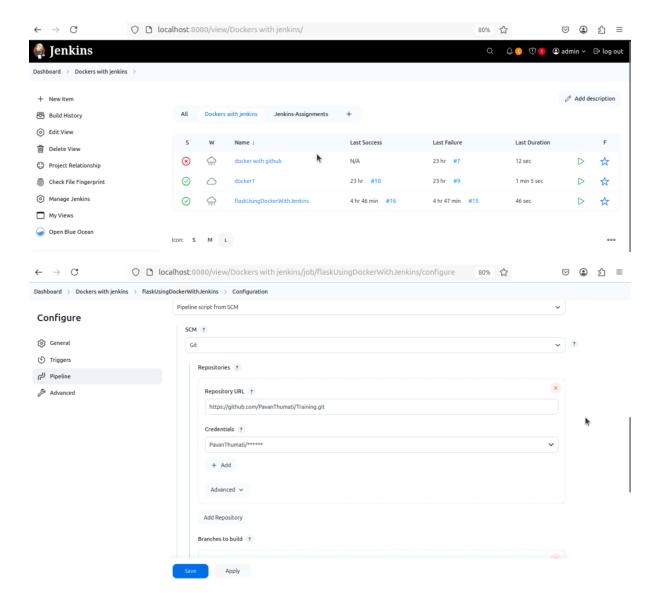
# Thumati Pavan Venkata Narendra Kumar EMP-ID-289219

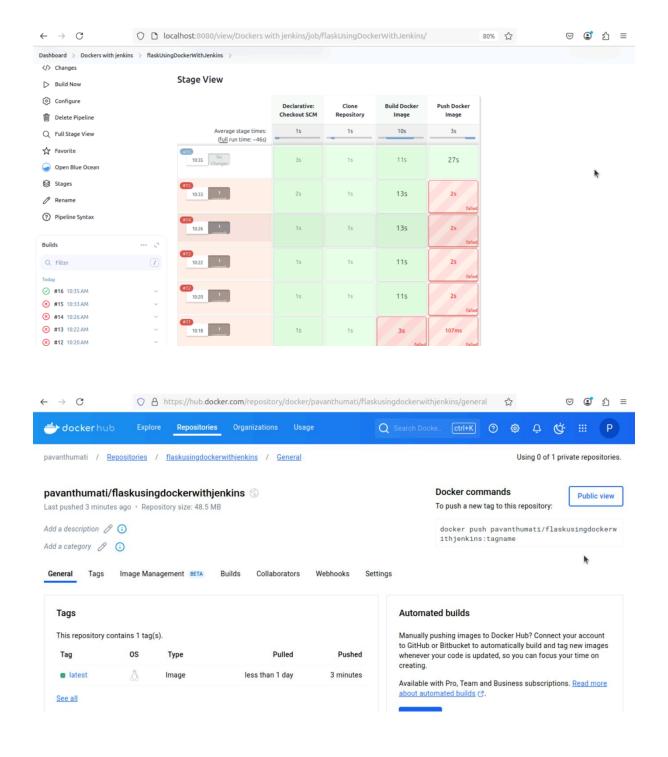
### **DOCKER-ASSIGNMENTS-1**

## 1. Building Flask app using Docker and Jenkins pipeline.









## 2.Installing Dockers and running sample nginx image & container.

```
$ sudo apt update && sudo apt upgrade -y
[sudo] password for master:
Hit:1 http://security.ubuntu.com/ubuntu jammy-security InRelease
Hit:2 http://in.archive.ubuntu.com/ubuntu jammy InRelease
Hit:3 http://in.archive.ubuntu.com/ubuntu jammy-updates InRelease
Hit:4 http://in.archive.ubuntu.com/ubuntu jammy-backports InRelease
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done All packages are up to date.
Reading package lists... Done
                                                                           I
Building dependency tree... Done
Reading state information... Done
Calculating upgrade... Done
Get more security updates through Ubuntu Pro with 'esm-apps' enabled:
libpostproc55 libavcodec58 libavutil56 libswscale5 libswresample3
libavformat58 libavfilter7
Learn more about Ubuntu Pro at https://ubuntu.com/pro
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
master@master-vm:-/Desktop$ sudo apt install -y ca-certificates curl gnupg lsb-release
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
lsb-release is already the newest version (11.1.0ubuntu4).
lsb-release set to manually installed.
ca-certificates is already the newest version (20240203~22.04.1). curl is already the newest version (7.81.0-1ubuntu1.20).
gnupg is already the newest version (2.2.27-3ubuntu2.1).
gnupg set to manually installed.
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
master@master-vm:~/Desktop$ sudo mkdir -p /etc/apt/keyrings
master@master-vm:~/Desktop$ cd ..
```

### master@master-vm: ~/Desktop iaster@master-vm:~\$ curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo tee /etc/apt/keyrings/docker.asc > /dev/null ----BEGIN PGP PUBLIC KEY BLOCK---mQI∭BFit2ioBEADhWpZ8/wvZ6hUTiXOwQHXMAlaFHcPH9hAtr4F1y2+OYdbtMuth lqqwp028AqyY+PRfVMtSYMbjuQuu5byyKR01BbqYhuS3jtqQmljZ/bJvXqnmtVXh 38UuLa+z077PxyxQhu5BbqntTPQMfiyqEiU+BKbq2WmANUKQf+1AmZY/Iru0Xbnq L4C1+gJ8vfmXQt99npCaxEjaNRVYfOS8QcixNzHUYnb6emjlANyEVlZzeqo7XKl7 UrwV5inawTSzWNvtjEjj4nJL8NsLwscpLPQUhTQ+7BbQXAwAmeHCUTQIvvWXqw0N cmhh4HgeQscQHYgOJjjDVfoY5MucvglbIgCqfzAHW9jxmRL4qbMZj+b1XoePEtht ku4bIQN1X5P07fNWzlgaRL5Z4POXDDZTlIQ/El58j9kp4bnWRCJW0lya+f8ocodo vZZ+Doi+fy4D5ZGrL4XEcIQP/Lv5uFyf+kQtl/94VFYVJ0leAv8W92KdgDkhTcTD G7c0tIkVEKNUq48b3aQ64NOZQW7fVjfoKwEZdOqPE72Pa45jrZzvUFxSpdiNk2tZ XYukHjlxxEgBdC/J3cMMNRE1F4NCA3ApfV1Y7/hTeOnmDuDYwr9/obA8t016Yljj q5rdkywPf4JF8mXUW5eCN1vAFHxeg9ZWemhBtQmGxXnw9M+z6hWwc6ahmwARAQAB tCtEb2NrZXIgUmVsZWFzZSAoQ0UgZGViKSA8ZG9ja2VyQGRvY2tlci5jb20+iQI3 BBMBCgAhBQJYrefAAhsvBQsJCAcDBRUKCQgLBRYCAwEAAh4BAheAAAoJEI2BgDwO v82IsskP/iQZo68flDQmNvn8X5XTd6RRaUH33kXYXquT6NkHJciS7E2gTJmqvMqd tI4mNYHCSEYxI5qrcYV5YqX9P6+Ko+vozo4nseUQLPH/ATQ4qL0Zok+1jkag3Lgk jonyUf9bwtWxFp05HC3GMHPhhcUSexCxQLQvnFWXD2sWLKivHp2fT8QbRGeZ+d3m 6fqcd5Fu7pxsqm0EUDK5NL+nPIgYhN+auTrhgzhK1CShfGccM/wfRlei9Utz6p9P XRKIlWnXtT4qNGZNTN0tR+NLG/6Bqd8OYBaFAUcue/w1VW6JQ2VGYZHnZu9S8LMc FYBa5Ig9PxwGQOgq6RDKDbV+PqTQT5EFMeR1mrjckk4DQJjbxeMZbiNMG5kGECA8

```
master@master-vm: ~
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Q
master@master-vm: ~/Desktop
                                                                                                                                                                                                                                                                                                                                                                                                 master@master-vm: -
master@master-vm:-/Desktop

b/systemd/system/docker.service.

Created symlink /etc/systemd/system/sockets.target.wants/docker.socket → /lib/sy

stemd/system/docker.socket.

Setting up git (1:2.34.1-1ubuntu1.12) ...

Processing triggers for man-db (2.10.2-1) ...

Processing triggers for libc-bin (2.35-0ubuntu3.9) ...

master@master-vm:-$ sudo systemctl start docker

master@master-vm:-$ sudo systemctl enable docker

Synchronizing state of docker.service with SysV service script with /lib/systemd/systemd-sysV-install.

Executing: /lib/systemd/systemd-sysV-install enable docker

master@master-vm:-$ sudo docker --version

Docker version 28.0.1, build 068a01e

master@master-vm:-$ sudo usermod -aG docker $USER

master@master-vm:-$ sudo docker pull portainer/portainer-ce

Using default tag: latest

latest: Pulling from portainer/portainer-ce

436768c74267: Pull complete

601825c69234: Pull complete

6046093adSed: Pull complete

206eb5027afed: Pull complete

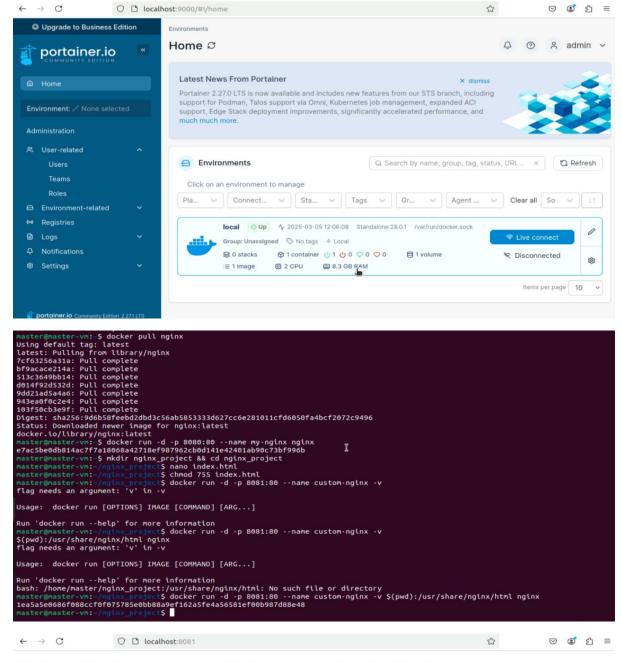
206eb5027afed: Pull complete

206eb5027afed: Pull complete

206115ea6339: Pull complete

206115ea6339: Pull complete

8073ef50028: Pull complete
                                                                                                    master@master-vm: ~/Desktop
                                                                                                                                                                                                                                                                                                                                                                                                                                         master@master-vm: ~
 8e73efb50b28: Pull complete
4f4fb700ef54: Pull complete
4f4fb700ef54: Pull complete
Digest: sha256:99c3047d44991af08f2a34df16e69ae2654bee43444b2e9857aa6b5864c4f602
Status: Downloaded newer image for portainer/portainer-ce:latest
docker.io/portainer/portainer-ce:latest
master@master-vm:-$ sudo docker run -d -p 9000:9000 --name=portainer --restart=always \
-v /var/run/docker.sock:/var/run/docker.sock \
-v portainer_data:/data \portainer/portainer-ce
4785ed75f535d799cf3a70592bd0889975c55b9e1b18fcf0a85c6a24e5174437
master@master-vm:-$ sudo docker --version
Docker version 28.0.1, build 068a01e
master@master-vm:-$
```



Hello, this is a custom Nginx page inside Docker!

