Assignment 13: Docker Activity

เครื่อง Host

1. สร้าง main.py

```python
import os
user = os.getenv("secret_user", "World")
print(f"Hello, {user}")
```

2. สร้าง Dockerfile

```dockerfile
FROM python:3.9

COPY main.py /app/main.py
WORKDIR /app

CMD ["python", "main.py"]
```

3. Build Docker Image

```
docker build -t my_demo .
```

4. Run Local Docker Registry

```
docker run -d -p 50000:5000 --name registry registry:2
```

5. Push Image to Local Registry

```
docker tag my_demo 192.168.1.48:50000/demo
docker push 192.168.1.48:50000/demo
```

6. ตรวจสอบว่า image มี tag latest

```
(base) film@Waranthorns-MacBook-Air assignment13 % curl http://192.168.1.48:50000/v2/_catalog
{"repositories":["demo"]}
```

เครื่องของเพื่อนที่ใช้ในการทดสอบ

1. แก้ไขไฟล์ /etc/docker/daemon.json โดยการเพิ่ม

```
{
    "insecure-registries": ["192.168.1.48:50000"]
}
```

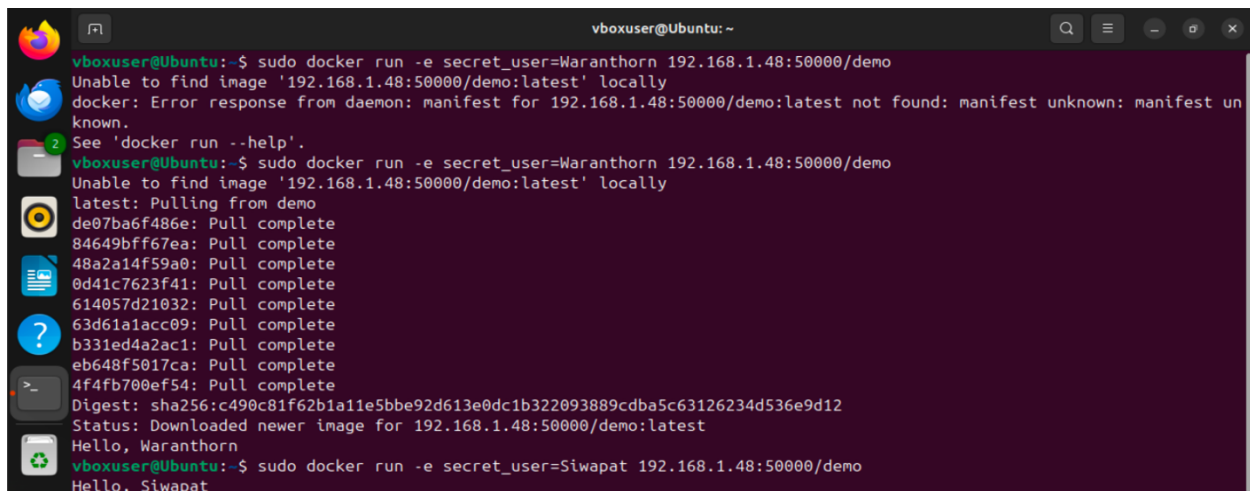2. Restart Docker

```
sudo systemctl restart docker
```

3. Pull Image

```
sudo docker pull 192.168.1.48:50000/demo
```

4. Run image และส่ง environment variable

```
sudo docker run -e secret_user=Siwapat 192.168.1.48:50000/demo
```

จะได้ผลลัพธ์ตามที่ต้องการ

```
vboxuser@Ubuntu:~$ sudo docker run -e secret_user=Waranthorn 192.168.1.48:50000/demo
Unable to find image '192.168.1.48:50000/demo:latest' locally
docker: Error response from daemon: manifest for 192.168.1.48:50000/demo:latest not found: manifest unknown: manifest unknown.
See 'docker run --help'.
vboxuser@Ubuntu:~$ sudo docker run -e secret_user=Waranthorn 192.168.1.48:50000/demo
Unable to find image '192.168.1.48:50000/demo:latest' locally
latest: Pulling from demo
de07ba6f486e: Pull complete
84649bff67ea: Pull complete
48a2a14f59a0: Pull complete
0d41c7623f41: Pull complete
614057d21032: Pull complete
63d61a1acc09: Pull complete
b331ed4a2ac1: Pull complete
eb648f5017ca: Pull complete
4f4fb700ef54: Pull complete
Digest: sha256:c490c81f62b1a11e5bbe92d613e0dc1b322093889cdba5c63126234d536e9d12
Status: Downloaded newer image for 192.168.1.48:50000/demo:latest
Hello, Waranthorn
vboxuser@Ubuntu:~$ sudo docker run -e secret_user=Siwapat 192.168.1.48:50000/demo
Hello, Siwapat
```