Day 9: Docker Networking, Volumes, and Compose

Objective

To understand Docker networking, data persistence using volumes, and orchestration using Docker Compose.

What I Learned

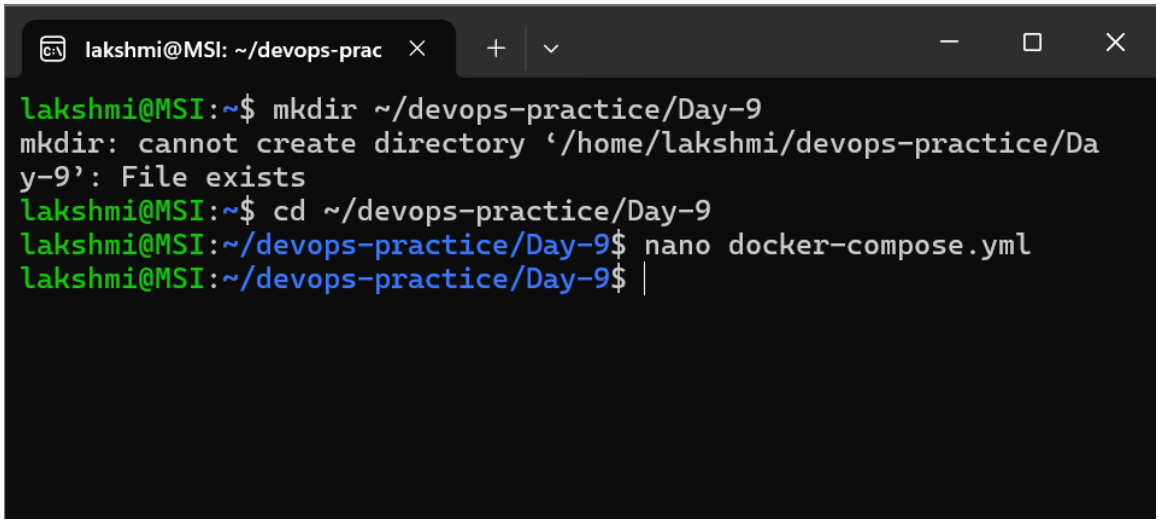
- How Docker containers communicate using networks
- How to persist data using volumes
- How to use Docker Compose to manage multi-container applications

Steps Followed

Step 1: Created Project Folder

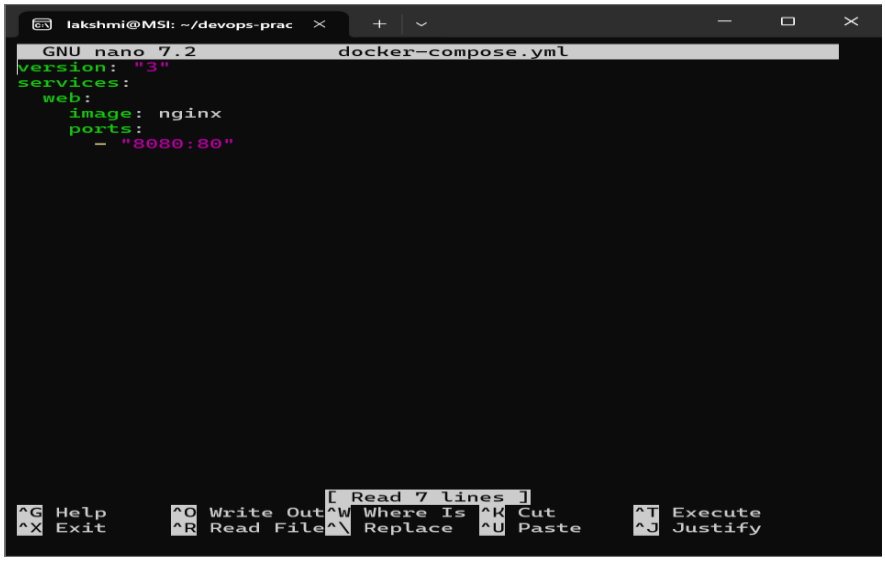
mkdir ~/devops-practice/Day-9

cd ~/devops-practice/Day-9



Step 2: Created docker-compose.yml file

```
version: '3'
services:
  web:
    image: nginx
    ports:
      - "8080:80"
```



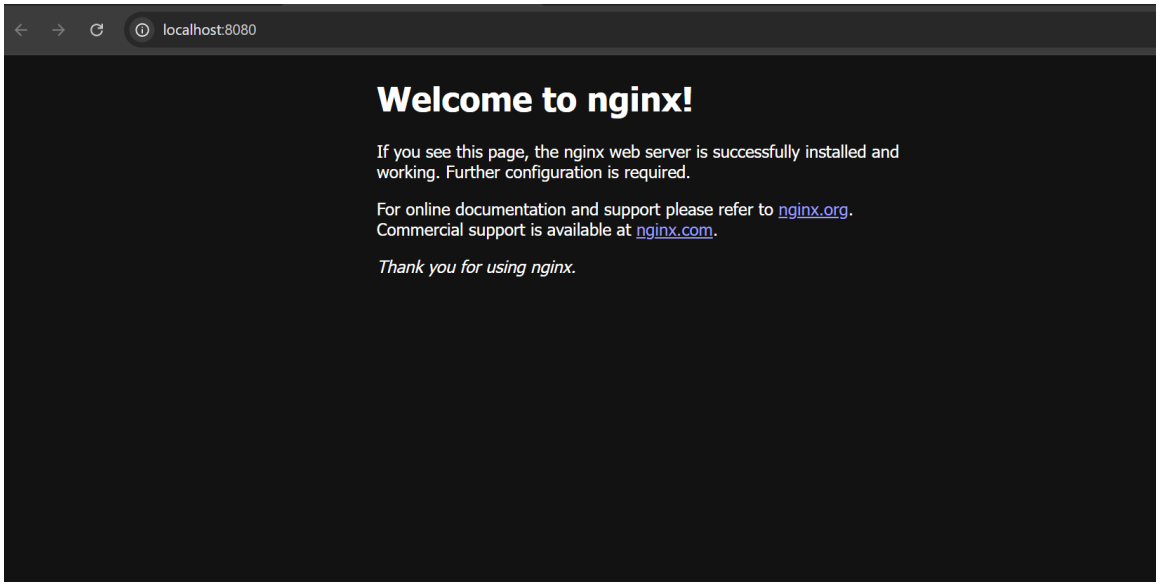
☑ Step 3: Started Services with Docker Compose

docker-compose up -d

☑ Step 4: Verified Container is Running

docker ps

🌐 Opened: http://localhost:8080 to confirm NGINX was running



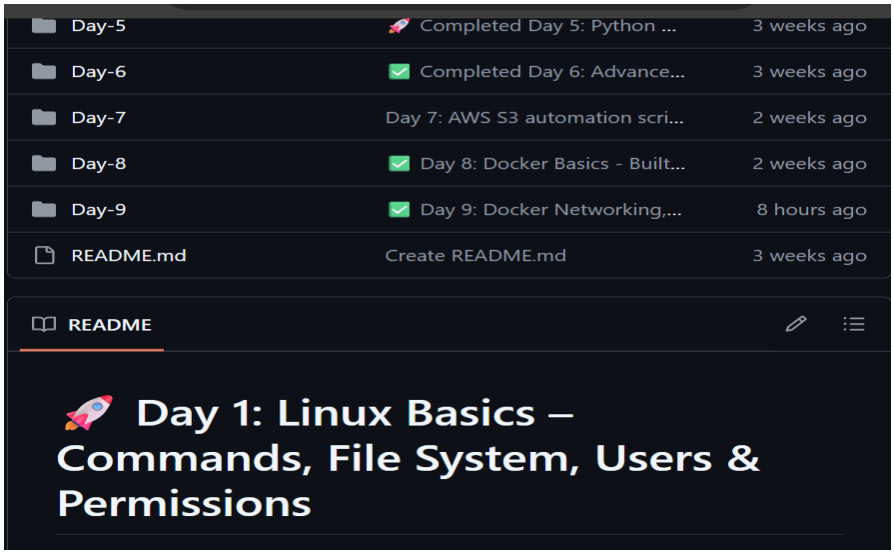
☑ Step 5: Stopped and Removed the Container

docker-compose down

```
lakshmi@MSI:~/devops-practice/Day-9$ docker-compose up -d
Starting day-9_web_1 ... done
lakshmi@MSI:~/devops-practice/Day-9$ docker-compose down
Stopping day-9_web_1 ... done
Removing day-9_web_1 ... done
Removing network day-9_default
lakshmi@MSI:~/devops-practice/Day-9$
```

GitHub Upload

- Added docker-compose.yml to Day-9 folder
- Pushed to GitHub successfully



Conclusion

This task helped me understand the basics of:
- Docker container networking
- Using volumes for persistent data
- Managing services with Docker Compose