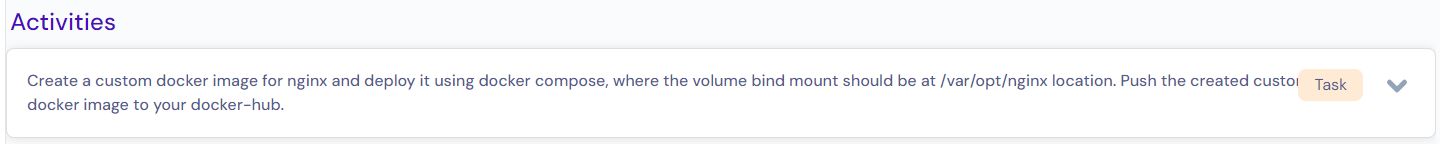
# **Activity Description:**



# **Pre-conditions:**

1. EC2 instance has been created.
2. Docker has been installed on EC2 instance.
3. docker-compose component has been installed.

# **Create a custom docker image for nginx.**

We Build a docker image usingCreate a Dockerfile with below content to create a docker custom image.

# Use the official Nginx image as the base image

FROM nginx:latest

# Set the working directory

WORKDIR /usr/share/nginx/html

# update packages

RUN apt update

# Create a temp directory

RUN mkdir temp

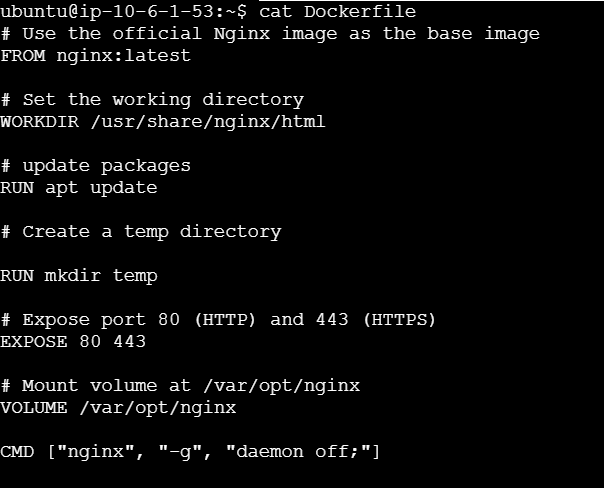
# Expose port 80 (HTTP) and 443 (HTTPS)

EXPOSE 80 443

# Mount volume at /var/opt/nginx

VOLUME /var/opt/nginx

CMD ["nginx", "-g", "daemon off;"]



# **Build the Docker Image:**

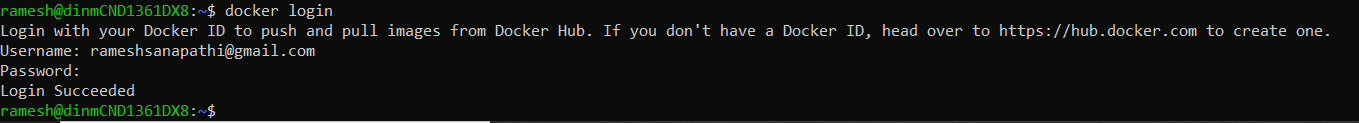
docker build -t 17051991/nginx\_custom:latest .

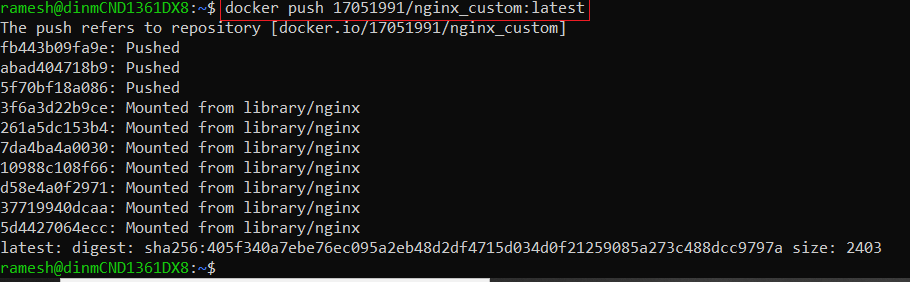


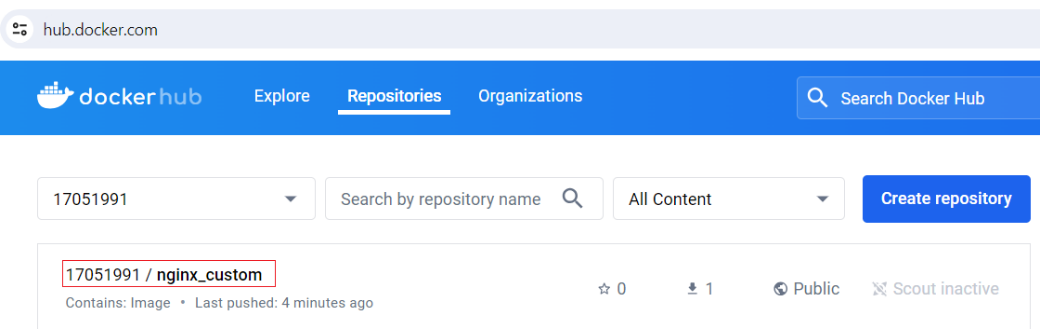
# **Push the Docker Image to Docker Hub:**

docker login

docker push 17051991/nginx\_custom:latest







# **Create Docker Compose file (docker-compose.yml):**

version: '3.8'

services:

nginx:

container\_name: my\_nginx

image: 17051991/nginx\_custom:latest

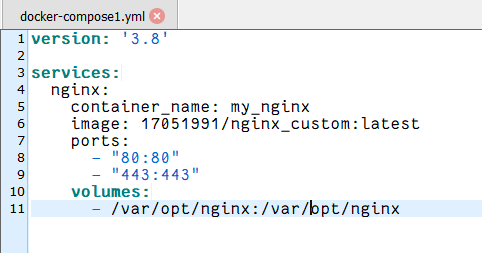
ports:

- "80:80"

- "443:443"

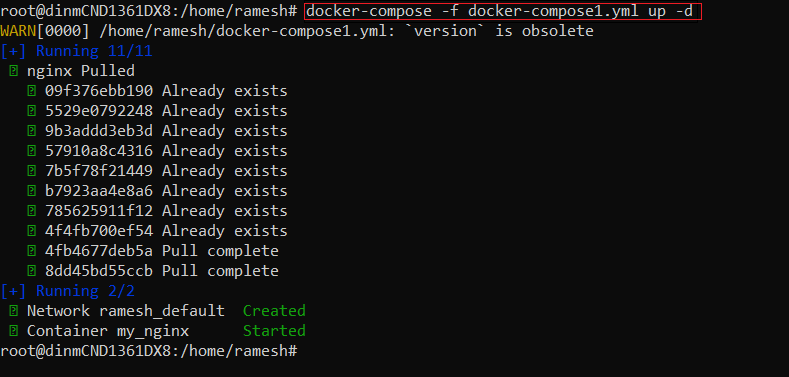
volumes:

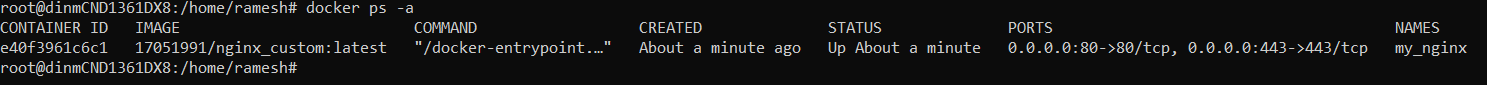
- /var/opt/nginx:/var/opt/nginx



# **Run Docker Compose:**

docker-compose up -d





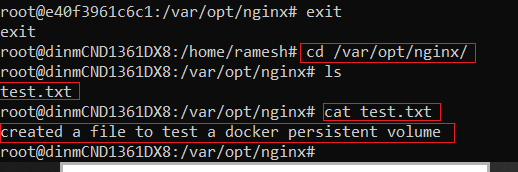
# Verification:

1. Login to container and create a file inside a mounted path /var/opt/nginx

A computer screen with white text

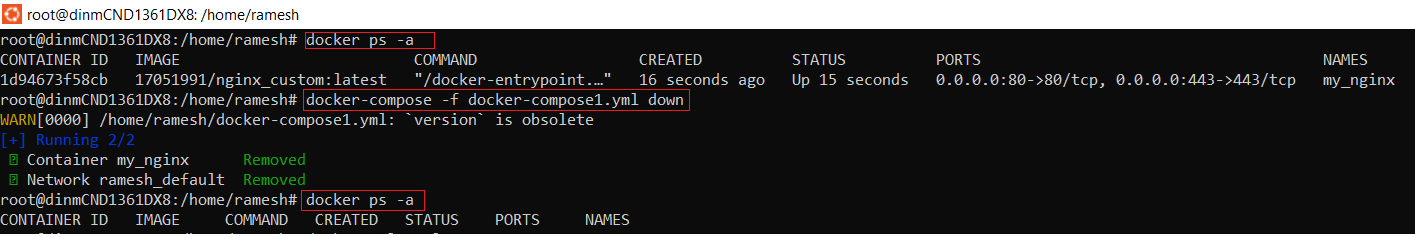
Description automatically generated

1. Logout from container and check the same file whether it is created in docker host or not.



1. Delete container using docker-compose and check the same file where it exists on docker host or not.

Yes, file is still persist on docker host even docker container got removed.



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