**Docker Compose**

Create a custom docker image for nginx and deploy it using docker compose, where the volume should be at /var/opt/nginx location. Push the created custom docker image to your docker-hub.

* Create a Dockerfile for Nginx:

Created a directory “nginx-app” with dockerfile 🡪 html directory 🡪 index.html

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mkdir html

vi index.html

<!DOCTYPE html>

<html>

<head>

<title>Welcome to Nginx</title>

</head>

<body>

<h1>Success! The Nginx server is working!</h1>

</body>

</html>

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Created a configuration file for Nginx in the main directory :/nginx-app$

vi nginx.conf

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vi dockerfile

from nginx:1.26-alpine

copy nginx.conf /etc/nginx/nginx.conf

copy index.html /usr/share/nginx/html

expose 80

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

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* Create Docker Compose File:

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Creating and building a container for the docker image mounting the volume to it using the compose file.

vi docker-compose.yml

version: '3.8'

services:

web:

build: .

image: myapp.latest

ports:

- "3000:80"

volumes:

- /var/opt/nginx:/usr/share/nginx/html

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* Build and Run Docker Compose:

docker build -t dockerfile .

docker-compose up --build -d

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* Push Custom Image to Docker Hub:

Pushed Docker Image to the created Repository “docker-compose”.

Signed into the account and created a repository.

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docker login

docker tag myapp.latest:latest hitikyala/docker-compose:latest

docker push hitikyala/docker-compose:latest

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Can see the new created custom image “latest” in the repository.

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Nginx image layers in the repository.

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