**Docker Task -3**

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

### Install Docker and Docker Compose sudo apt update sudo apt install docker.io -y sudo systemctl enable --now docker . ****Create a Project Directory**** mkdir nginx-docker cd nginx-docker Create a Custom Nginx Dockerfile nside the nginx-docker directory, create a Dockerfile # Use the official Nginx base image FROM nginx:latest # Copy a custom index.html file into the container COPY index.html /usr/share/nginx/html/ # Expose port 80 EXPOSE 80 Create a Sample HTML File sudo vim index.html

<!DOCTYPE html>

<html>

<head>

<title>Custom Nginx Docker Image</title>

</head>

<body>

<h1>Hello, this is my custom Nginx Docker container!</h1>

</body>

</html>

### Build your Docker image with a custom tag (replace your-dockerhub-salman1210b with your Docker Hub username) Log in to Docker Hub Push the Image to Docker Hub Tag the image before pushing Push the image to Docker Hub ****Create a Docker Compose File****Create a docker-compose.yml file

version: '3'

services:

nginx:

image: your-dockerhub-salman1210/custom-nginx:v1

ports:

- "8080:80"

volumes:

- ./nginx-data:/var/opt/nginx

Deploy the Nginx Container Using Docker Compose Verify the Deployment

<http://localhost:8080> You should see the custom Nginx page.













