

Task 1: Docker Volume and Nginx Setup

- Step 1: Create Docker volume **docker volume create webwise_website**
- Step 2: Verify volume created **docker volume ls**
- Step 3: Run Nginx container with mounted volume

```
docker run -d --name webwise-nginx -p 8080:80 -v webwise_website:/usr/share/nginx/html nginx
```

- Step 4: Create index.html inside the mounted volume

```
docker run -it --rm -v webwise_website:/webwise busybox sh (You used BusyBox to: Quickly run a temporary container that writes index.html inside a Docker volume.)
```

```
echo Welcome to WebWise > /webwise/index.html
```

```
exit
```

- Step 5: Inspect Docker volume

```
docker volume inspect webwise_website
```

```
curl http://localhost:8080
```

Task 2: Node.js App Deployment

Step 1: Clone the GitHub repository **git clone**
<https://github.com/voidzero666/Blueprint.git> cd
Blueprint

Step 2: Create Dockerfile

```
cat <<EOF > Dockerfile
FROM node:18
WORKDIR /app
COPY package*.json ./
RUN npm install COPY
..
EXPOSE 3000
CMD ["npm", "start"]
EOF
```

Step 3: Build Docker image (replace with your Docker Hub username)

```
docker build -t yourdockerhubusername/blueprint-app .
```

Step 4: Login to Docker Hub

```
docker login
```

Step 5: Push the image to Docker Hub

```
docker push yourdockerhubusername/blueprint-app Step 6:  
Pull the image from Docker Hub
```

```
docker pull yourdockerhubusername/blueprint-app
```

Step 7: Run the container **docker**
run -d -p 3000:3000
yourdockerhubusername/blueprint-app

NOTE: MY DOCKER HUB USERNAME IS: kashaf1234