

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: wardaaziz123