

# Dockerize .NET + Angular

## SSH to your AWS Workstation

ssh devops@<public-ip-addr> of your Workstation

Password is : Dev0p\$!!/

Replace <your-name> with your name throughout the lab.

1. Clone the Git-repo.

```
$ sudo su
# cd /home/devops/Docker/
# git clone https://github.com/LovesCloud/dotnet-angular-docker.git
# cd dotnet-angular-docker/
# dotnet clean
# dotnet build
# dotnet publish --self-contained -r linux-x64 -o dll
```

2. Create a Dockerfile now.

```
# vim Dockerfile
```

Add the below lines in the docker file

```
FROM microsoft/dotnet:2.2-runtime
WORKDIR /data/
COPY dll/ /data/

RUN chmod +x angular*
EXPOSE 5001
EXPOSE 5000
EXPOSE 80
ENTRYPOINT ["./angular"]
```

Save and exit the vim editor.

3. Run the below commands to build a Docker Container from the git repo.

```
# docker build . -t <your-name>-docker.net
```

4. Check the Image after it has been build.

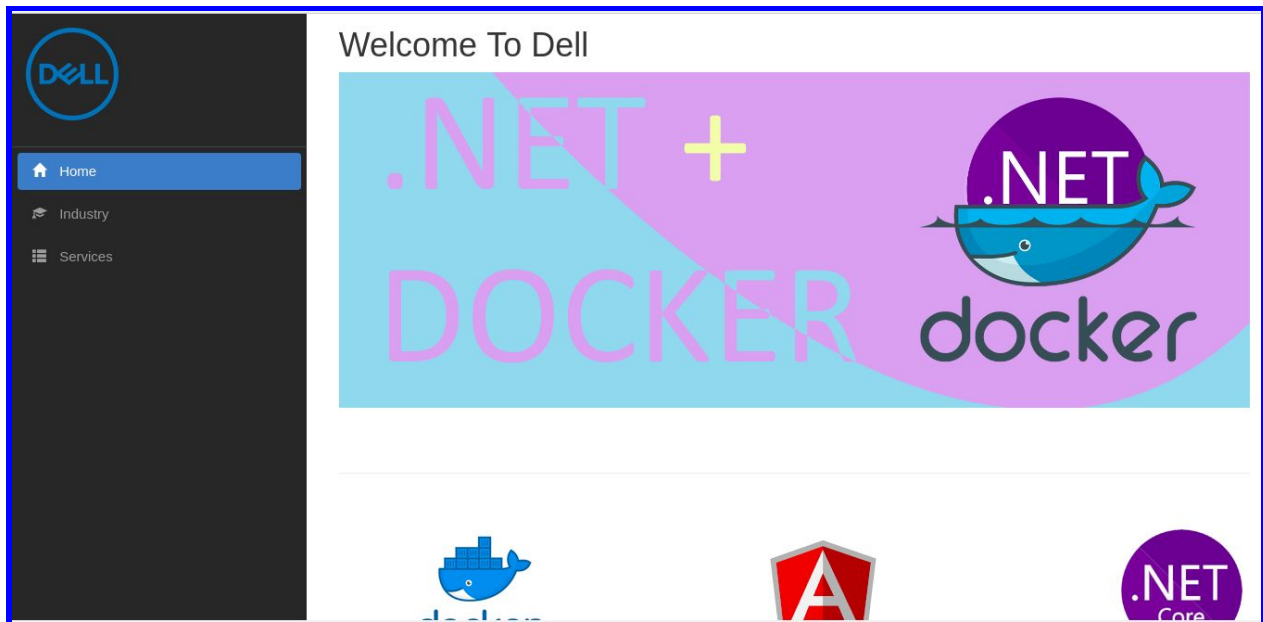
```
# docker images
```

5. Run the docker container from the build image

```
# docker run -d -p 80:80 --name <your-name>-dotnet-app
<your-name>-docker.net
# docker ps
```

The dotnet Docker Container running on port 80, and can be accessed from the public IP of the AWS Workstation on default Port 80

**`http://<ip-addr-aws-workstation>\`**



**STOP THE CONTAINER BEFORE PROCEEDING TO THE NEXT LAB**

6. Stop the docker container by running the below command.

```
# docker stop <your-name>-dotnet-app
```