Create a .Net Core Docker Container and Deploy it to Azure

Step 1: dotnet new mvc -o demo

Step 2: cd demo

Step 3: dotnet run

Localhost:5001

Package your application to be deployed

Dotnet publish –c release –o app/ .

STEP 2: PUT IT IN A CONTAINER

For that , Create a dockerfile

FROM mcr.microsoft.com/dotnet/core/aspnet

WORKDIR /app

COPY /app /app // copy from app local folder to container folder

ENTRYPOINT [ "dotnet" ,"demo.dll" ]

Create a .dockeignore file

bin\

obj\

Push your project to github

Step 3:

Build our container, package our image, we can see docker don’t download from docker hub , but it followed all steps mentioned in dockerfile

Install docker on Ubuntu VM

Clone that project in Ubuntu machine

Create image

docker build -t demoimg .

Now that image is on our localmachine

Create container is created

sudo docker run -d --name testc -p 82:80 demoimg

Now test it

STEP 5:

NOW WE HAVE Application IN A CONTAINER, NOW WE NEED TO PUT The image INSIDE THE REGISTRY

Install Azure cli

Create a Registry in Azure and upload this container

az group create –name demorg –location eastus

az acr create –g demorg –name demoContainer –sku Basic --admin-enabled true

az acr credential show –n demoContainer

Tag the container

Docker tag demoimg demoContainer.azure.io/ demoimg:v1

Connect to registry

Docker login https:// -u username –p

Docker push path:v1

NOW CRAETE WEB APP THAT WILL BE USING THE+AT REGISTERY

az appservice plan create –n demoplan –g demorg ==sku S1 –is-linux

Az webapp cteate –g demorg –p demoplan –n demoapp –runtime “DOTNETCoRE|2.1”

sudo az webapp config container set -n demoapp-anamika -g demorg --docker-custom-image-name democontainer400.azurecr.io/demo200img:v1 --docker-registry-server-url democontainer400.azurecr.io --docker-registry-server-user demoContainer400 --docker-registry-server-password 8sqI7A0yEojvCwilKxl1GFX78FSBAy+t

Here demoapp-anamika is the app name