Agenda: Docker Registry

- Azure Container Registry
- Azure Container Instance

Azure Container Registry

Azure Container Registry allows you to build, store, and manage docker container images

Step 1: Update the Code

1. Create a New Project - HelloWebApp

   dotnet new mvc -n HelloWebApp

2. Add dockerfile as below Dockerfile

```
FROM microsoft/dotnet:2.2-sdk
WORKDIR /app
# copy and build everything
COPY . .
RUN dotnet restore
RUN dotnet publish -c Release -o /out
WORKDIR /out
ENTRYPOINT ["dotnet", "HelloWebApp.dll"]
```

   Note: For Windows Image: Use the Image: mcr.microsoft.com/dotnet/core/sdk:2.1

   Note: For Microsoft Azure we should use only LTS OS Images only. For example we can use **microsoft/dotnet:2.1-sdk-nanoserver-sac2016**

3. Build images

   docker build -t sandeepsoni/hellowebapp .

Step2: Create Container Registry Using Portal

4. Create a resource → Containers → **Azure Container Registry.**

5. Under **Admin user**, select **Enable**. Take note of the following values:
   - Login server
   - Username
   - password
6. Login to ACR

   docker login --**username** dssdemo --**password** ffSI2HhiqO=uO0OURhjREa8TauSUYkzs **dssdemo.azurecr.io**

7. Tag Local Images

   docker image **tag** sandeepsoni/hellowebapp dssdemo.azurecr.io/hellowebapp

8. Push images to ACR

   docker **push** dssdemo.azurecr.io/hellowebapp

Step 4: Create Container Instance for HelloWebApp:

9. Select Create a Resource → Containers → Container Instance → + Add
10. In Basic blade

    Container name = "HelloWebAppInstance",

    Container Image type="Private",

    Container image="dssdemo.azurecr.io/hellowebapp"

    Copy Image registry login server, username and password from Azure Container Registry created before.
11. In Configuration blade

    OS Type= Windows, . . ., DNS name label = "hellowebapp"
12. OK

13. Copy and paste the address http://hellowebapp.eastus.azurecontainer.io in browser.