**5 Deploy the "Tracker" App to Azure**

$ACR\_REGISTRY\_ID=$(az acr show --name $ACR\_NAME --query "id" --output tsv)

$ACR\_NAME='containerRegistry'

$ACR\_REGISTRY\_ID=$(az acr show --name $ACR\_NAME --query "id" --output tsv)

$ACR\_NAME='trackerapp'

$ACR\_REGISTRY\_ID=$(az acr show --name $ACR\_NAME --query "id" --output tsv)

$PASSWORD=$(az ad sp create-for-rbac --name $SERVICE\_PRINCIPAL\_NAME --scopes $ACR\_REGISTRY\_ID --role acrpull --query "password" --output tsv)

$PASSWORD=$(az ad sp create-for-rbac --name $SERVICE\_PRINCIPAL\_NAME --scopes $ACR\_REGISTRY\_ID --role acrpull --query "password" --output tsv)

$PASSWORD=$(az ad sp create-for-rbac --name $SERVICE\_PRINCIPAL\_NAME --scopes $ACR\_REGISTRY\_ID --role acrpull --query "password" --output tsv)

$USER\_NAME=$(az ad sp list --display-name $SERVICE\_PRINCIPAL\_NAME --query "[].appId" --output tsv)

echo "Service principal ID: $USER\_NAME"

echo "Service principal password: $PASSWORD"

az container create --resource-group trackerapprggeorgi --name trackerapp --image trackerapp.azurecr.io/tracker-app-image:v1 --cpu 1 --memory 1 --registry-login-server trackerapp.azurecr.io --registry-username trackerapp --registry-password RTqB/aEjSzgewhtXiOoRORHzS51NXXmv0uSQnLPX/x+ACRB8Szcg --ip-address Public --dns-name-label trackerappdns --ports 80

**6 Deploy the "TaskBoard" App using Docker Compose**

az group create --name taskBoardResourceGroup --location westeurope

az acr create --location westeurope --name taskboardapp --resource-group taskBoardResourceGroup --sku Basic

az acr login --name taskboardapp

docker-compose up -d --build

docker tag taskboardapp.azurecr.io/taskboardapp-image taskboardapp.azurecr.io/taskboardapp-image:v1

docker push taskboardapp.azurecr.io/taskboardapp-image:v1

az acr repository show --name taskboardapp --repository taskboardapp-image

docker context create aci taskboardappcontext

docker context use taskboardappcontext

docker context ls

az group delete --name taskBoardResourceGroup

#docker-compose.yaml

version: "3.8"

services:

sqlserver:

container\_name: sqlserver

image: mcr.microsoft.com/mssql/server

ports:

- "1433:1433"

deploy:

resources:

reservations:

cpus: '2'

memory: 2GB

environment:

- ACCEPT\_EULA=Y

- MSSQL\_SA\_PASSWORD=yourStrongPassword12#

volumes:

- sqldata:/var/opt/mssql

web-app:

container\_name: web-app

image: taskboardapp.azurecr.io/taskboardapp-image:v1

build:

dockerfile: TaskBoard.WebApp/Dockerfile

ports:

- "80:80"

restart: on-failure

volumes:

sqldata:

driver: azure\_file

driver\_opts:

share\_name: sql-volume

storage\_account\_name: taskboardstorageacc

**7 Deploy the "Posio" App**

**#docker-compose.yaml**

version: '3'

services:

app:

container\_name: app

image: posioapp.azurecr.io/posio-image:v1

build:

dockerfile: Dockerfile

volumes:

- azure:/posio

environment:

- POSIO\_SETTINGS=/app/config.py

ports:

- 5000:5000

restart: on-failure

volumes:

azure:

driver: azure\_file

driver\_opts:

share\_name: azure

storage\_account\_name: posiostorageacc

az group create --name posiorg --location westeurope

az acr create --resource-group posiorg --name posioapp --sku Basic

az acr login --name posioapp

docker-compose up -d --build

docker push posioapp.azurecr.io/posio-image:v1

az acr repository show --name posioapp --repository posio-image

docker context create aci posiocontext

docker context use posiocontext

docker compose up

az group delete --name posiorg

**app should be accessed** on **{IP Address}:5000**