Deploy Nodejs Project To Azure using Custom Docker

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How to reach course

▶ Ahmed Aboelmagd LinkedIn Profile
https://www.linkedin.com/in/ahmedaboelmagd

▶ YouTube
https://www.youtube.com/playlist?list=PLn6KNikVi3tkSrFL3dNWnG2czGWxXGclK

▶ GitHub
https://github.com/magedo93/nodejsAppWithDocker.git

Steps

- Prerequisites

- Create Node JS Project

- Create Docker File & Build Local Image

- Prepare & Push to Azure

Prerequisites

- ▶ Node Js prerequisites
  - a. Node & NPM (https://nodejs.org)
  - b. Visual Studio Code (https://code.visualstudio.com)

- ▶ Docker Prerequisites
  - a. Install Docker (https://www.docker.com/products/docker-desktop)
  - b. Create account

- ▶ Azure prerequisites
  - a. Have Azure Account (https://portal.azure.com/#home)
  - b. Install Azure CLI (https://docs.microsoft.com/en-us/cli/azure/install-azure-cli)
  - c. Install Azure App Service on Visual studio code (Azure App Service - Visual Studio Marketplace)

Create Node JS Project

- npx express-generator nodeDockerApp --view pug
- cd nodeDockerApp
- npm install
- add port configuration

  const port=7070;

  app.listen(process.env.PORT || port,() =>{

   console.log(`App listening on port ${port}`)

  })

Create Docker File & Build Local Image

- Prepare docker file

- Build image
  docker build --tag nodejsproject .

- Run Docker locally

Prepare & Push to Azure

▶ Create resource group

▶ Create container resource registry

▶ Set Image Name
docker tag nodejsproject:latest nodejsregistery.azurecr.io/nodejsproject:v1

▶ Using Azure CLI (Azure Command Line)
   a. login
      az acr login --name nodejsregistry.azurecr.io
   b. push image
      docker push nodejsregistry.azurecr.io/nodejsproject:v1

Links & References

- YouTube
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- GitHub
  https://github.com/magedo93/nodejsAppWithDocker.git

- https://docs.microsoft.com/en-us/azure/app-service/quickstart-nodejs?tabs=linux&pivots=development-environment-vscode

- https://docs.microsoft.com/en-us/cli/azure/install-azure-cli-windows?tabs=azure-cli

- https://www.docker.com/blog/getting-started-with-docker-using-node-jspart-i/