Deploy Nodejs Project To Azure using Custom Docker

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YouTube
https://www.youtube.com/playlist?list=PLn6KNikVi3tkSrFL3dNWnG2czGWxXGcIK
GitHub
https://github.com/magedo93/nodejsAppWithDocker.git

Steps

- ▶ Prerequisites

- ▶ Create Node JS Project

- ▶ Create Docker File & Build Local Image

- ▶ Prepare & Push to Azure

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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)

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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

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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

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Links & References

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▶ 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/