Phase 5

Total classes : 10

Day 9 : 15 Feb 2024

Creating image to run angular application using docker

ng new angular-docker

routing 🡪y

styling 🡪 css

we need to build the angular project using command as

ng build

after build it generate target folder which contains sub folder as project name

inside that folder contains all build files.

Docker provided one of the open source server to deploy angular application ie nginx (engine – X ) server.

This server by default run 80 port number.

Now we need to create Dockerfile with nginx server

Dockerfile

FROM nginx:latest

COPY /dist/angular-docker/ /usr/share/nginx/html

Create the image

docker build -t my-angular . -f Dockerfile

now we need to run the image

docker run -d -p 80:80 my-angular

using docker ps verify container running or not.

Then using command as to check application running or not

<http://localhost:80>

if we want to share the image between one team to another team

we need to publish the image.

1. First connect local machine docker with docker hub account.

docker login

it may ask emaild and password please provide and check it connected or not.(docker hub account).

1. Before push the image we need to provide tag for docker. Tag is like a identity or unique details between two image version.

docker tag imageName dockerHubAccountId/imageName:identity

identity can be number or alphabets

docker tag my-angular akashkale/my-angular:222

1. After created tag you can publish the image in docker hub account

Docker push dockerhuaccountid/imageName:identity

docker push akashkale/my-angular:222

docker pull akashkale/my-angular:222

then

docker run -d -p 82:80 akashkale/my-angular:222

we create one by one image to run the application using container.

When we want to develop enterprise level application we need to run more than one container. Those container are running independently or may be they are interact with each others. When they need to interact with each other we need network environment.

Because every image internally take OS base image to run that application.

Spring boot database

We need to create custom mysql database image

Image for spring boot we need to some

Which internally run on base OS image configuration

These two images or container are

Communicating with each others.

docker compose

Docker compose is a tool kit which provided set of command which help run, stop, restart more than one container. Docker compose use yml file. Inside this file we need provide all contains details and using docker-compose command we and start and stop more than one containers.

Running two container using spring boot and mysql containers.

Create spring boot project with starter as

Web Starter

Mysql dependencies

Jpa starter

Dev tool

Please remove testing starter