11 July – 2024

Day 3

Integration and deployment

Docker

Docker compose : Docker compose provide tool kit which help to run more than one containers. These container running independently or they are communicating with each other’s to do some task. To write all configuration details to run more than one container we need to use docker-compose.yml or docker-compose.yaml

Yaml : Yet Another markup language.

docker-compose --version

Download the current stable release of Docker Compose

sudo curl -L https://github.com/docker/compose/releases/latest/download/docker-compose-$(uname -s)-$(uname -m) -o /usr/local/bin/docker-compose

Give the permission

sudo chmod +x /usr/local/bin/docker-compose

docker-compose version

docker-compose.yml

version: '3.6'

services:

  akash-image:

    image: akashkale/my-reactjs:a2

    container\_name: akash-reactjs-container

    ports:

      - 81:80

  student1:

    image: buschfunk/react-docker-app:latest

    ports:

      - 82:80

  student2:

    image: dragosmn/my-reactjs:a2

    ports:

      - 83:80

  student3:

    image: paulodm/my-reactjsgood:v2

    ports:

      - 84:80

Create separate folder as : docker compose project or files

Student multiple container

docker-compose up : it pull all images and start all service or container

docker-compose up -d : it start in background or detached mode

docker ps : check all running containers.

docker-compose down : to stop all container details part of that file.

docker-compose start

docker-compose stop

docker system prune -a : it is use to remove all images, stopped container, cache as well as network.

Different OS Different OS Different OS

Front end technologies backend technologies

React js container spring boot container mysql container

http call TCP/IP connection

using axios

or fetch function

Capstone Project

Frontend folder -🡪 React JS

Backend folder -🡪 Spring boot with MySQL Database

SignIn and SignUp

Admin account

User Account