Python web-application deploy in Docker container using Docker and Docker Compose.

Prerequisites:

**1)To setup in local environment or on-premises**

Python

PIP

Pycharm

Docker installation

Subscribe to Docker-Hub Repository

Kuberneties

Git – To push/pull the code into GIT Repository

**2)To setup in Cloud shell (Google Cloud Platform)**

Google Account

**3)Steps to deploy web application in Container using Docker :**

1)Copy/clone the web-application into cloud with the help of cloud shell

2)Cd to the project root directory

3)create Dockerfile

4)Build image using docker by tagging the project:version

5)run the image using docker in the container

**4)Steps to deploy web application in Container using Docker-compose :**

1)Copy/clone the web-application into cloud with the help of cloud shell.

2)Cd to the project root directory

3)create Dockerfile

4)Create docker-compose-web-app.yaml file.

5)Build image using docker-compose by tagging the project:version

docker-compose -f docker-compose.dev.yml up --build

5)Run the image using docker-compose in the container.

Docker-compose – command line interface is used to build and run the image in the container

Docker – command line interface used to Build and run the image in Container

Dockerfile

Docker-compose-web-app.yaml

Linux/Window/Mac Operating System

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