Write-up

1. Explain each of the instructions that you have typed in Lab 7 part A by one to two sentences.

A.1.2

'docker run -d -it python' : Create a container from the image which name python in detached mode in docker.

A.3.1

'docker rename <my\_container\_name> <my\_new container\_name>' : Replace a old container name by the new one.

A.4.1

'docker cp YOUR\_FILE YOUR\_CONTAINER\_NAME:/' : Command 'cp' means copy and paste. this command use to copy files from local machine to container image.

A.5.1

'docker exec -it <image\_name> bash' : ?

'pip install pip update' and 'pip install -r requirements.txt' : this command make you install relevant package.

'exit' mean stop and leave the container.

A.6.1

'docker commit -a 'AUTHOR' -m 'EXPLANATIONS' <YOUR CONTAINER ID> <YOUR\_IMAGE NAME:TAG>' : like a git commit, it send a mark with the container image.

A.7.1

'docker run --name YOUR\_EXP\_NAME -d <IMAGE\_CREATED\_BY\_YOU:TAG> python your\_PYTHON\_SCRIPT' :

A.7.2

'docker run --name YOUR\_EXP\_NAME' -d

--env ACCESS\_TOKEN=YOUR\_TOKENS

--env MODEL\_NAME=YOUR\_MODEL\_NAME

<IMAGE\_CREATED\_BY\_YOU:TAG>

python your PYTHON\_SCRIPT

Above command mean construct for each element's environment and run your python files

A.8.1

'docker stop <CONTAINER\_NAME>'

'docker rm -f <CONTAINER\_NAME>'

The first command mean stop the docker service, the second command mean remove a docker's image.

2. Paste the content of the Dockerfile that you have in Lab 7 part B.

FROM python:3.8

WORKDIR /APP

COPY . /APP

RUN pip install update

RUN pip install -r requirements.txt

ENV TLG\_ACCESS\_TOKEN=7090085173:AAEWYRaqleogIyZySqSgfUl\_CL0O3rUgjHg

ENV BASICURL=https://chatgpt.hkbu.edu.hk/general/rest

ENV MODELNAME=gpt-35-turbo

ENV APIVERSION=2024-02-15-preview

ENV GPT\_ACCESS=c813af90-2980-4c99-9bf5-8cf8e0eaa493

CMD python app.py

3. Explain the differences between your part1.yaml and part2.yaml that you have done in this lab.

'Pat1.yaml' just build an image to connect/test the docker service. 'Part2.yaml' are added os.environ[xxx](i.e. environment ) to the docker image.

4. What are the differences between the commands docker ps and docker-compose ps ?

'docker ps' command is a gobal view and the part of docker CLI, They are running in dock host, 'docker-compose ps' is defining and running multi-container docker application, the file should be '.yml' which is locate in local directory.

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5. When you take down the redis service you have created in part 3, say using

docker-compose down , would that also destroys the data? Why or why not?

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