**Oct Docker part6 HW**

1. What is the meaning of default in IT?

By default, means if it is not set, it will be provide as first choice.

1. Is it possible to have more than one image with the same ID?

Yes, it is possible, we can rename my docker image but the ID will not change

Also the same image is used by developers and operation team and devops with different name but will keep the same ID

1. What is the Use of prune in docker?

Prune in docker is used to remove everything that is not in use in docker such as container and image.

1. Can we remove many containers or images not in use at the same time?

Yes, it is possible with the Prune command.

Docker system prune -a to delete containers and images at the same time.

Docker images prune -a to delete dangling and unused images.

Docker container prune

Command to delete a container and image docker rmi -f [imagetag][repo]: [imagetag][repo]

Docker rm -f [container1] [contaner2] [container3]

1. What is the use of bash at the end of the docker run command?

Bash at the end of docker run command means, hold me inside the container and hold the terminal for me. BASH IS A PROCESS TO KEEP OUR CONTAINER ALIVE

1. How can we launch a container and get the release version at the same time?

I will run the command docker run -it --name papa1 httpd BASH -C “cat /etc/\*release’’

1. Write a script that can automatically put the contain from question 6 in a file call release.txt.

Text

Description automatically generated

#! /bin/bash

Touch release.txt

Echo ‘’Docker run -it - - name s5s5ludivine httpd cat /etc/\*release’’ >> release.txt

1. Then make that script to be able to remove all image not in used that is older than 10 days.

#! /bin/bash

touch release1.txt

echo "Docker run -it - - name s5s5ludivine httpd cat /etc/\*release " >> release1.txt

docker run -it --name s5s5ludivine httpd bash -c " cat /etc/\*release

docker image prune - -a - -filter “until=240h”

ii

1. What are options -w and -e used for in the docker run command?

-w in docker means Workdir and -e Environment variable

1. Eric assignment

1-) Write a Dockerfile that has as base OS of ubuntu:18.04

2-) the dockerfile must have the following package installed

- git

- wget

- ansible

- java jre and jdk

3-) set the default home directory to s4

4-) create a directory called "VOL" locate under the default directory

5-) the first command running inside the container should be "bash"

6-) create a file locally with your name and copy it inside the container

7-) download the following into your image "https://dlcdn.apache.org/tomcat/tomcat-10/v10.0.26/bin/apache-tomcat-10.0.26.tar.gz"

8-) set the following as non alterable or non changeable data

\* company email, phone number

\* "This image is owned by EK TECH SOFTWARE SOLUTION"

9-) create the folowing environment variables

APP\_NAME = S4

CI\_JOB\_STAGE = development

TEST\_VAR = canary

TMP\_DIR = /tmp

10-) persist the volume at "/VOL"

11-) expose the following port 80 90 160 and port range from "1100 to 2200" except port 1186 and 1189

12-) the default user in the container should be called "s4student"

13-) create a file called user.sh under the default directory with contain below and run the script inside the

container

FROM ubuntu:18.04

LABEL "Email"="ludivine91@yahoo.com"

LABEL "Phone Number"="000-222-1234"

LABEL "Instructions"="this image is own by LUDI MD"

RUN apt update -y && \

apt install git -y && \

apt install wget -y && \

apt install ansible -y && \

apt install java jdk -y && \

apt install java jre -y

RUN mkdir /s4

WORKDIR /s4

RUN mkdir /VOL

COPY ./ludivine .

ADD <https://dlcdn.apache.org/tomcat/tomcat-10/v10.1.5/src/apache-tomcat-10.1.5-src.tar.gz> .

ENV "APP\_NAME"="s4"

ENV "TEST\_VAR"="canary"

ENV "TMP\_DIR"="/tmp"

ENV ‘’CI\_JOB\_STAGE’’ = ‘’development’’

VOLUME /VOL

EXPOSE 80 90 160 1100-1183 1184-1185 1187-1190

CMD ["bash"]

RUN useradd s6student -m -d /home/s6student -s /bin/bash

COPY ./user.sh user.sh

RUN chmod +x user.sh

RUN bash user.sh

CMD ["bash"]

The add command it is not working this link is maybe not longer available even when I try to download it directly with wget, it is not working.

#!/bin/bash

echo -e \

"------------------------------------------

creating a Dockerfile

-------------------------------------------

"

sleep 3

cat <<EOF > Dockerfile

FROM ubuntu

CMD "/bin/bash" "-c" "cat /etc/\*release"

EOF

echo -e \

"------------------------------------------

builing an image from Dockerfile

-------------------------------------------

"

docker build -t remove\_httpd .

sleep 5

docker images |grep remove\_httpd

echo -e \

"------------------------------------------

creating a container from that image

-------------------------------------------

"

sleep 5

docker run -itd --name s5stud remove\_httpd

docker ps |grep s5stud

echo -e \

"------------------------------------------

removing images older than 10 days

-------------------------------------------

"

sleep 3

docker image prune -a --force --filter "until=240h"

echo -e \

"------------------------------------------

Done

--------------------------------------------

“