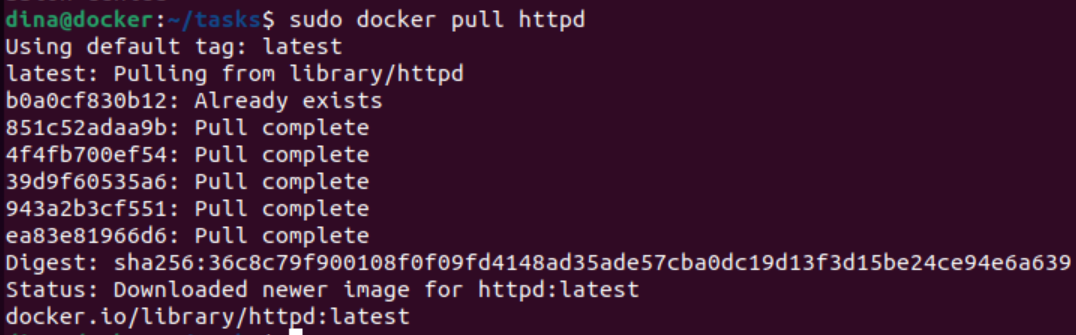
Docker Section

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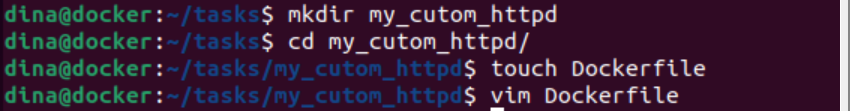
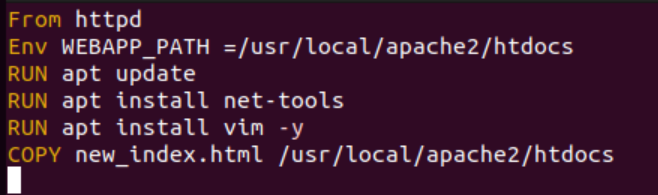
Q1) Download httpd image from official repository



Q2) Create your Custom image "my\_custom\_httpd:v1" from httpd image

with vim and net-tools package, add new index.html file to /usr/local/apache2/htdocs print "welome to we WebApp"

Add vairable WEBAPP\_PATH=/usr/local/apache2/htdocs

1. 
2. 
3. 
4. A black background with white text

   Description automatically generated
5. A screenshot of a computer program

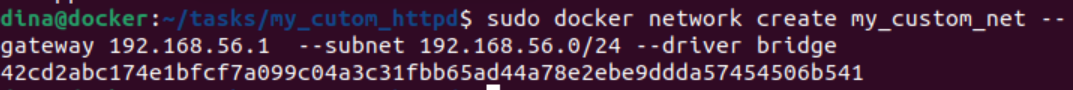
   Description automatically generated
6. A screenshot of a computer screen

   Description automatically generated

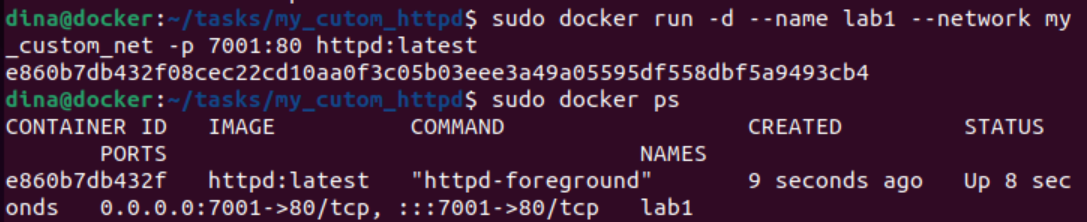
Q3) Create Volume "webapp"



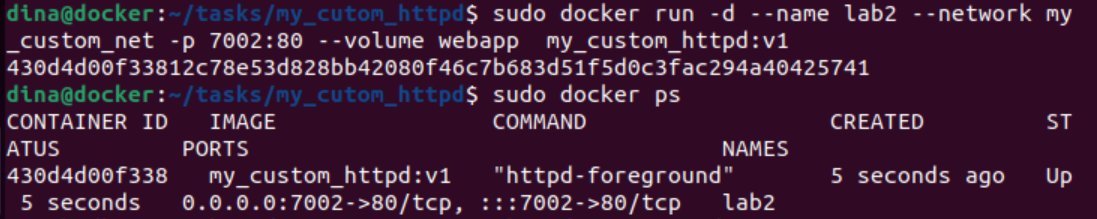
Q4) Create your custom bridge network "my\_custom\_net" with subnet 192.168.10.0/24 and Gateway 192.168.10.1



Q5) Create Container from httpd image called "lab1" using Network "my\_custom\_net" internal port for lab1 80 and host port 7001



Q6) Create Container from "my\_custom\_httpd:v1" image called "lab2" using Network "my\_custom\_net" and volume "webapp" internal port for lab2 80 and host port 7002



Q7) Create compose file to start ur webapp from given images (mariadb , wordpress , phpmyadmin/phpmyadmin)

mariadb app works with port 3306/tcp, wordpress works with port 80/tcp and phpmyadmin also works with port 80, map internal/container port to host port

phpmyadmin image ENVIRONMENTAL variables

PMA\_HOST: DB\_Container\_Name

MYSQL\_ROOT\_PASSWORD: password

Maraidb image ENVIRONMENTAL variables

MYSQL\_ROOT\_PASSWORD: db\_root\_password

MYSQL\_DATABASE: db\_name

MYSQL\_USER: db\_username

MYSQL\_PASSWORD: user\_password

wordpress image ENVIRONMENTAL variables

WORDPRESS\_DB\_HOST: DB\_Container\_Name

WORDPRESS\_DB\_USER: db\_username

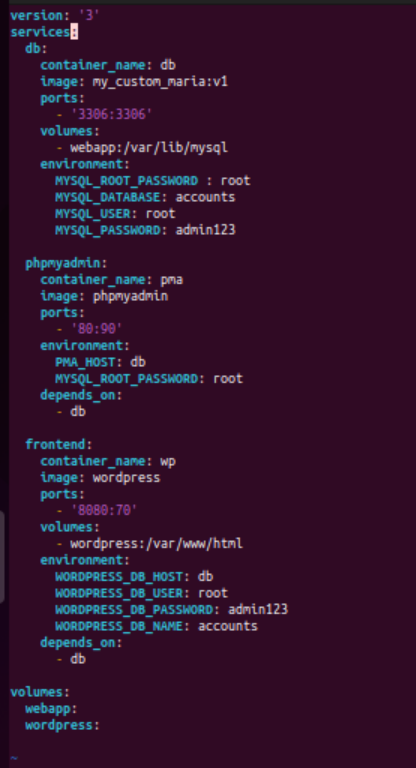
WORDPRESS\_DB\_PASSWORD: user\_password

WORDPRESS\_DB\_NAME: db\_name

dont forget that wordpress and phpmyadmin image depends on mariadb

-mkdir compose ,cd compose

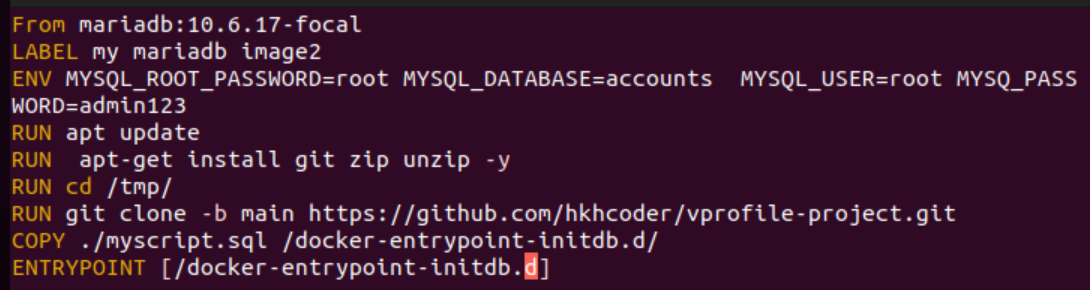
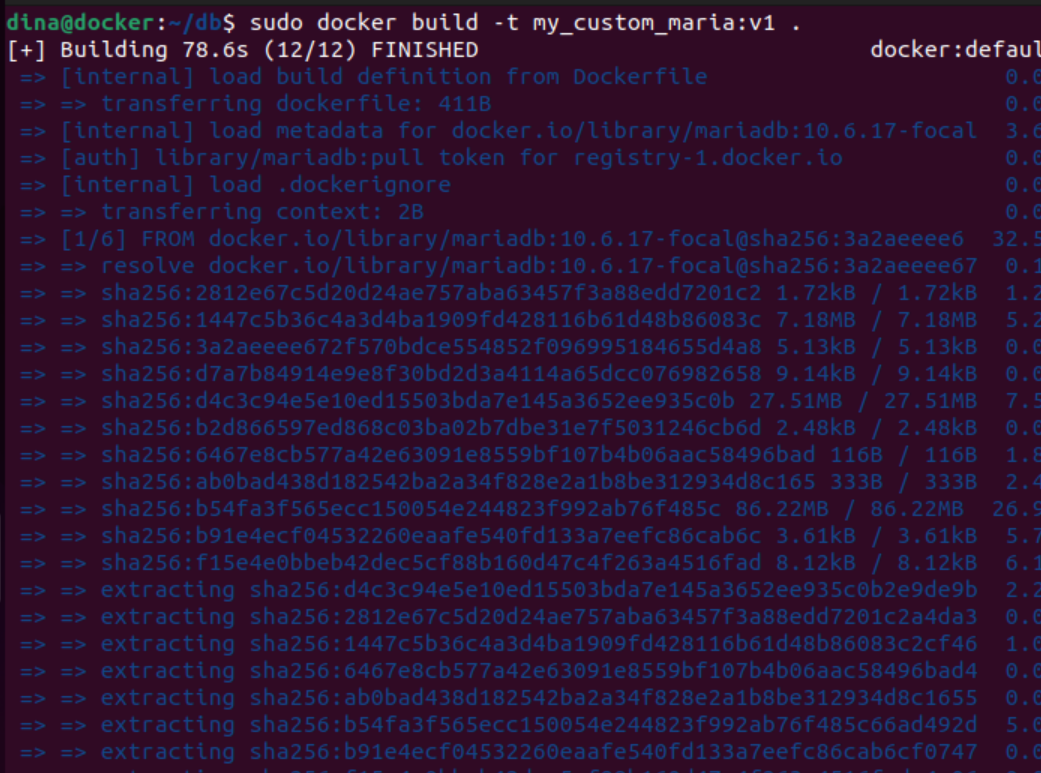
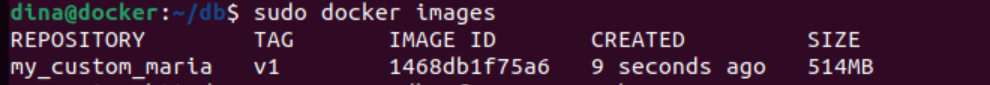
-vim docker-compose.yml

- 

A computer screen with white text

Description automatically generated

Create without compose :

1. Mkdir db
2. Touch Dockerfile
3. Vim Dockerfile
4. 
5. 
6. 
7. A computer screen shot of white text

   Description automatically generated
8. 