

Task Problem 2 :

Create static html file then Write Dockerfile to build image based on httpd to host the html file and specify the following..

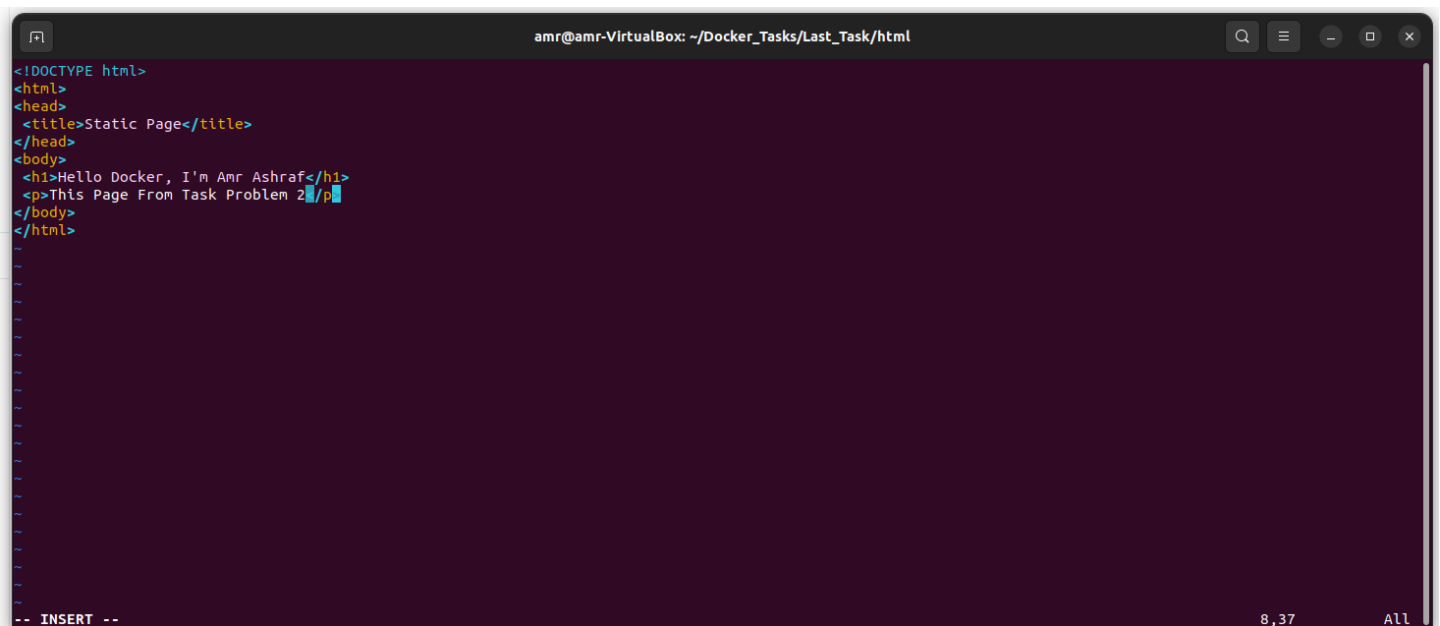
- 1 - Copy the html file.
- 2 - Copy a new configuration file to listen on port 9999 instead of 80
- 3 - Open the port 9999 in the container
- 4 - Add environment variable CONTAINER with value docker
- 5 - Add startup command to echo the variable

Solutions :

- 1 – create static html file named it index.html
- 2 – install apache server on my machine and create httpd.conf
- 3 – creating the Dockerfile
- 4 – build the Dockerfile with tag new_lap2
- 5 – run the container with image in docker
- 6 – test static html page

The Results :

Static html index.html



```
amr@amr-VirtualBox: ~/Docker_Tasks/Last_Task/html
<!DOCTYPE html>
<html>
<head>
<title>Static Page</title>
</head>
<body>
<h1>Hello Docker, I'm Amr Ashraf</h1>
<p>This Page From Task Problem 2</p>
</body>
</html>
-- INSERT --
```

Httpd.conf

```
amr@amr-VirtualBox: ~/Docker_Tasks/Last_Task/html

Listen 9999
ServerName localhost

ServerRoot "/usr/local/apache2"
DocumentRoot "/usr/local/apache2/htdocs"

LoadModule authn_core_module modules/mod_authn_core.so
LoadModule authz_core_module modules/mod_authz_core.so
LoadModule dir_module modules/mod_dir.so
LoadModule log_config_module modules/mod_log_config.so
LoadModule mime_module modules/mod_mime.so
LoadModule unixd_module modules/mod_unixd.so

<Directory />
    AllowOverride none
    Require all denied
</Directory>

<Directory "/usr/local/apache2/htdocs">
    Options Indexes FollowSymLinks
    AllowOverride None
    Require all granted
</Directory>

ErrorLog "logs/error_log"
LogLevel warn

<IfModule log_config_module>
    LogFormat "%h %l %u %t \"%r\" %>s %b \"%{Referer}i\" \"%{User-Agent}i\"" combined
    CustomLog "logs/access_log" combined
</IfModule>
"httpd.conf" 33L, 880B 33,11 Bot
```

Dockerfile

Home / Docker_Tasks / Last_Task / html

Dockerfile

httpd.conf

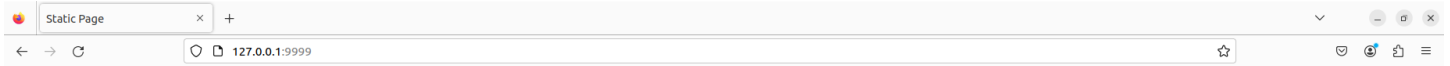
index.html

```
amr@amr-VirtualBox: ~/Docker_Tasks/Last_Task/html

FROM httpd:latest
COPY index.html /usr/local/apache2/htdocs/
COPY httpd.conf /usr/local/apache2/conf/httpd.conf
EXPOSE 9999
ENV CONTAINER docker
CMD ["sh", "-c", "echo $CONTAINER && httpd-foreground"]

"httpd.conf" 33L, 880B
"Dockerfile" 11L, 206B 11,55 All
```

Build Docker And run it with test the page



Hello Docker, I'm Amr Ashraf

This Page From Task Problem 2

```
amr@amr-VirtualBox: ~/Docker_Tasks/Last_Task/html
amr@amr-VirtualBox:~/Docker_Tasks/Last_Task/html$ vim httpd.conf
amr@amr-VirtualBox:~/Docker_Tasks/Last_Task/html$ docker build -t new_lap2 .
[*] Building 3.9s (8/8) FINISHED
=> [internal] load build definition from Dockerfile                                0.1s
=> == transferring dockerfile: 245B                                              0.0s
=> [internal] load .dockerignore                                                 0.1s
=> == transferring context: 2B                                                  0.0s
=> [internal] load metadata for docker.io/library/httpd:latest                 2.4s
=> CACHED [1/3] FROM docker.io/library/httpd:latest@sha256:1bb3f7669a85713906e695599d29c58ab40d4e6409907946609d92a428e95b49 0.0s
=> [internal] load build context                                                0.2s
=> == transferring context: 949B                                               0.0s
=> [2/3] COPY index.html /usr/local/apache2/htdocs/                          0.2s
=> [3/3] COPY httpd.conf /usr/local/apache2/conf/httpd.conf                  0.3s
=> exporting to image                                                         0.3s
=> == exporting layers                                                         0.2s
=> == writing image sha256:3d4157d4bcea9cd2a9d6aba10bcdc5a3c134a138ae4d15914b09c51edbecdc9b 0.0s
=> == naming to docker.io/library/new_lap2
amr@amr-VirtualBox:~/Docker_Tasks/Last_Task/html$ docker run -d -p 9999:9999 new_lap2
2877740ba2335a1808e7d2fef324e2a461eebc8b7f1787221317bbd1ab21d1ed
amr@amr-VirtualBox:~/Docker_Tasks/Last_Task/html$
```