Faisal Alotaibi 200141

```
C:\SE443M>docker pull sebp/lighttpd
Using default tag: latest
latest: Pulling from sebp/lighttpd
2408cc74d12b: Pull complete
9f5ed0c25ed2: Pull complete
d595bf727ba6: Pull complete
5004e9153f03: Pull complete
Digest: sha256:43d2a1c6d6a2ef85cc1914daa7dbb16776b2ec8bd0e0e7b824caa9bc5079773c
Status: Downloaded newer image for sebp/lighttpd:latest
docker.io/sebp/lighttpd:latest
```
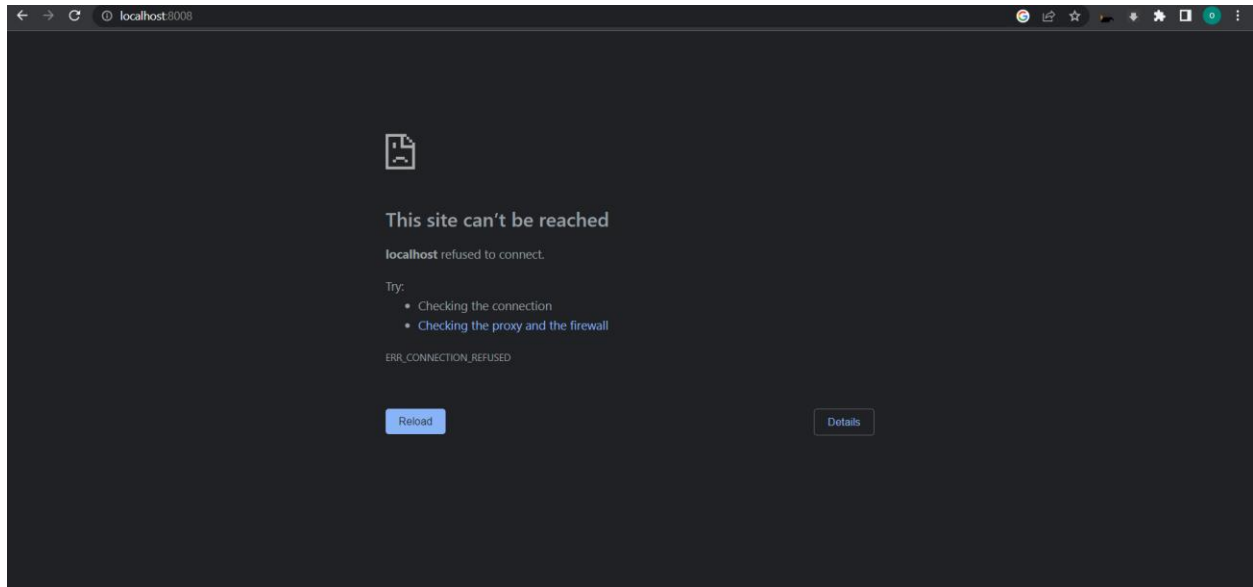
```
C:\SE443M>docker run --publish 8090:80 --detach --name faisalzotb-200141 sebp/lighttpd
94a9c5335c1f8706b4d92aebb901c0268b3b216bf2a0ef2dfc11533b7f32d8f6

C:\SE443M>
```

```
C:\SE443M>docker run -d --name Faisal-200141 -v C:\SE443M:/var/www/localhost/htdocs sebp/lighttpd
15d57f8315b1b6ccf73e3e2648648e7fbb658f2c5d08fc3fd0b9ab9b99df2c3a

C:\SE443M>
```

```
C:\SE443M>docker run --name web_serverXYZ -d -p 8008:80 -v C:\SE443M\public_html:/var/www/localhost/htdocs sebp/lighttpd
928f4771bfa7598ea5b30d9856911cc67251f95d8bf5ff3a1202eb3b57c4fea9
```

Faisal Alotaibi 200141

This is the page of Faisal Alotaibi with ID: 200141

"THIS IS AN SE-443 MIDTERM EXAM PAGE"

Q5:

Faisal Alotaibi 200141

A)

```
C:\SE443M>docker images -a
REPOSITORY                  TAG      IMAGE ID        CREATED          SIZE
faisalotaibi/bulletinboard  2.0      9b3ea372552d    17 hours ago     264MB
bulletinboard               1.0      9b3ea372552d    17 hours ago     264MB
httpd                       latest   8653efc8c72d    20 hours ago     145MB
ubuntu                      latest   a8780b506fa4    13 days ago      77.8MB
faisalotaibi/bulletinboard  1.0      3a3f5bda9f12    2 weeks ago      264MB
nginx                       latest   76c69feac34e    3 weeks ago      142MB
sebp/lighttpd               latest   fbbc9e0f56f7    4 months ago     9.54MB
hello-world                 latest   feb5d9fea6a5    13 months ago    13.3kB
```

B)

```
C:\SE443M>docker container ls
CONTAINER ID   IMAGE              COMMAND                CREATED            STATUS            PORTS                            NAMES
cd8db45ed528   httpd              "httpd-foreground"     About an hour ago  Up About an hour  0.0.0.0:8060->80/tcp             web_server98
a4d8cc03f992   httpd              "httpd-foreground"     About an hour ago  Up About an hour  0.0.0.0:8070->80/tcp             web_server123
c5df6c559f02   httpd:latest       "httpd-foreground"     About an hour ago  Up About an hour  0.0.0.0:8899->80/tcp             gggg111
a14b1d80a9ae   httpd:latest       "httpd-foreground"     2 hours ago        Up 2 hours        80/tcp, 0.0.0.0:8889->8889/tcp   gggg11
2ead38fff5e9   nginx              "/docker-entrypoint.…" 16 hours ago       Up 16 hours       80/tcp                           ur_nginx
8c60c4553b74   nginx              "/docker-entrypoint.…" 16 hours ago       Up 16 hours       80/tcp                           my_nginx
c7dd08c15f35   bulletinboard:1.0  "docker-entrypoint.s…" 17 hours ago       Up 17 hours       0.0.0.0:8000->8080/tcp           gg

C:\SE443M>
```

C)

```
C:\SE443M>docker container ls -a
CONTAINER ID   IMAGE                            COMMAND                CREATED            STATUS                     PORTS                            NAMES
128ab5e1a368   sebp/lighttpd                    "start.sh"             7 minutes ago      Exited (255) 7 minutes ago                                  faisalzeyadotaibi-200141
b4580cae3033   sebp/lighttpd                    "start.sh"             7 minutes ago      Created                                                     faisalzeyadotb-200141
928f4771bfa7   sebp/lighttpd                    "start.sh"             9 minutes ago      Exited (255) 9 minutes ago                                  web_serverXYZ
1eb7ef4d68c1   sebp/lighttpd                    "start.sh"             25 minutes ago     Exited (255) 25 minutes ago                                 web_serverXY
8482357d6b38   sebp/lighttpd                    "start.sh"             30 minutes ago     Exited (255) 30 minutes ago                                 web_serverY
15d57f8315b1   sebp/lighttpd                    "start.sh"             32 minutes ago     Exited (255) 32 minutes ago                                 Faisal-200141
94a9c5335c1f   sebp/lighttpd                    "start.sh"             48 minutes ago     Exited (255) 48 minutes ago                                 faisalzotb-200141
db540d352a37   sebp/lighttpd                    "start.sh"             48 minutes ago     Created                                                     faisalz-200141
cfa472a3ac4d   sebp/lighttpd                    "start.sh"             48 minutes ago     Created                                                     faisal-200141
cd8db45ed528   httpd                            "httpd-foreground"     About an hour ago  Up About an hour           0.0.0.0:8060->80/tcp             web_server98
a4d8cc03f992   httpd                            "httpd-foreground"     About an hour ago  Up About an hour           0.0.0.0:8070->80/tcp             web_server123
c5df6c559f02   httpd:latest                     "httpd-foreground"     2 hours ago        Up 2 hours                 0.0.0.0:8899->80/tcp             gggg111
a14b1d80a9ae   httpd:latest                     "httpd-foreground"     2 hours ago        Up 2 hours                 80/tcp, 0.0.0.0:8889->8889/tcp   gggg11
5868a1c9df28   httpd:latest                     "httpd-foreground"     2 hours ago        Created                                                     gggg1
039f7c4b8147   httpd:latest                     "httpd-foreground"     2 hours ago        Created                                                     gggg
d23886f91152   nginx                            "/docker-entrypoint.…" 16 hours ago       Exited (0) About an hour ago                                web_serverAB
dbeeb3b561b3   nginx                            "/docker-entrypoint.…" 16 hours ago       Exited (0) 16 hours ago                                     webserver
2ead38fff5e9   nginx                            "/docker-entrypoint.…" 16 hours ago       Up 16 hours                80/tcp                           ur_nginx
8c60c4553b74   nginx                            "/docker-entrypoint.…" 16 hours ago       Up 16 hours                80/tcp                           my_nginx
c7dd08c15f35   bulletinboard:1.0                "docker-entrypoint.s…" 17 hours ago       Up 17 hours                0.0.0.0:8000->8080/tcp           gg
f59cc158df42   hello-world                      "/hello"               17 hours ago       Exited (0) 17 hours ago                                     blissful_haslett
79aad0ef3b98   faisalotaibi/bulletinboard:1.0   "docker-entrypoint.s…" 2 days ago         Exited (255) 17 hours ago  8080/tcp                         focused_haslett
74cee003a036   ubuntu                           "bash"                 2 days ago         Exited (255) 17 hours ago                                   xenodochial_germain
eedfecc39860   nginx                            "/docker-entrypoint.…" 2 days ago         Exited (255) 17 hours ago  0.0.0.0:8080->80/tcp             web_server
75ccd00db046   ubuntu                           "bash"                 2 days ago         Exited (255) 17 hours ago                                   compassionate_bartik
0c873864d61b   3a3f5bda9f12                     "docker-entrypoint.s…" 2 weeks ago        Exited (255) 2 days ago    0.0.0.0:8000->8080/tcp           bb
8f6646cd4495   hello-world                      "/hello"               3 weeks ago        Exited (0) 3 weeks ago                                      funny_turing
```

```
C:\SE443M>docker stack deploy -c C:\SE443M\docker-compose.yml FaisalOttb-200141-vol
Creating network FaisalOttb-200141-vol_webnet
Creating service FaisalOttb-200141-vol_web

C:\SE443M>docker service ls
ID             NAME                        MODE        REPLICAS   IMAGE                  PORTS
p5ijpo5dwm3b   FaisalOttb-200141-vol_web   replicated  0/5        sebp/lighttpd:latest   *:8882->8080/tcp
```

PYHTON:

Faisal Alotaibi 200141

```
Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Users\FzoOT\Downloads\Q2>  & 'C:\Users\FzoOT\AppData\Local\Microsoft\WindowsApps\python3.10.exe' 'c:\Users\FzoOT\.vscode\extensions\ms-python.
python-2022.18.2\pythonFiles\lib\python\debugpy\adapter/../..\debugpy\launcher' '51667' '--' 'c:\Users\FzoOT\Downloads\Q2\mqtt_sub.py'
connecting to broker  10.20.1.95
subscribing
studentid =  200141
name =  faisal
surname =  zeyad
telephone =  004434324
grade =  1
```

```
Windows PowerShell
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Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Users\FzoOT\Downloads\Q2>  & 'C:\Users\FzoOT\AppData\Local\Microsoft\WindowsApps\python3.10.exe' 'c:\Users\FzoOT\.vscode\extensions\ms-python.
python-2022.18.2\pythonFiles\lib\python\debugpy\adapter/../..\debugpy\launcher' '51684' '--' 'c:\Users\FzoOT\Downloads\Q2\mqtt_pub.py'
Connected succesfully to 10.20.1.95
Published in se443/midterm2, msg = {"studentid": 200141, "name": "faisal", "surname": "zeyad", "telephone": "004434324", "grade": 1}
PS C:\Users\FzoOT\Downloads\Q2>
```