

Module 3: Docker Part 1 Assignment - 2

1. Save the image created in assignment 1 as a Docker image.

Solution:-

```
$ docker commit 735a8bd00b14 first_img_ubuntu_8502e
$ docker images
```

```
root@ip-172-31-93-148:/home/ubuntu# docker commit 735a8bd00b14 first_img_ubuntu_8502e
sha256:f142d6136f7be08b35795be841ff8bb70c8d45fb51b6b649b23825d443488e64
root@ip-172-31-93-148:/home/ubuntu# docker images
REPOSITORY          TAG             IMAGE ID        CREATED         SIZE
first_img_ubuntu_8502e  latest         f142d6136f7b   11 seconds ago  228MB
ubuntu              latest         5a81c4b8502e   5 weeks ago    77.8MB
hello-world         latest         9c7a54a9a43c   3 months ago   13.3kB
```

2. Launch container from this new image and map the port to 81.

Solution:-

```
# docker run -td --name first_con_img_1 -p 81:80
first_img_ubuntu_8502e /bin/bash
# docker ps
```

```
root@ip-172-31-93-148:/home/ubuntu# docker run -td --name first_con_img_1 -p 81:80 first_img_ubuntu_8502e /bin/bash
1161179e756c09ded4fa84974de7941489c2f55130cb7242be79ae6170b89a73
root@ip-172-31-93-148:/home/ubuntu# docker ps
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS
PORTS
1161179e756c   first_img_ubuntu_8502e   "/bin/bash"            7 seconds ago   Up 7 seconds
0.0.0.0:81->80/tcp, :::81->80/tcp   first_con_img_1
735a8bd00b14   ubuntu         "/bin/bash"            2 hours ago     Up 2 hours
0.0.0.0:80->80/tcp, :::80->80/tcp   peaceful_almeida
51b17b559fef   ubuntu         "/bin/bash"            3 hours ago     Up 3 hours
0.0.0.0:8080->80/tcp, :::8080->80/tcp   exciting_williams
```

3. Go inside the container and start the Apache2 service.

Solution:-

```
# docker exec -it 1161179e756c /bin/bash
# service apache2 start && service apache2 status
```

```
root@ip-172-31-93-148:/home/ubuntu# docker exec -it 1161179e756c /bin/bash
root@1161179e756c:/# service apache2 status
* apache2 is not running
root@1161179e756c:/# service apache2 start && service apache2 status
* Starting Apache httpd web server apache2
AH00558: apache2: Could not reliably determine the server's fully qualified domain name, using 172.17.0.4. Set the 'ServerName' directive globally to suppress this message
*
* apache2 is running
```

4. Check if you are able to access it on the browser.

Solution:-

<http://54.86.222.234:81/>

