## Module-3: Docker - I Assignment - 2

You have been asked to:

- Save the image created in Assignment 1 as a Docker image
- Launch container from this new image and map the port to 81
- Go inside the container and start the apache2 service
- Check if you are able to access it on the browser

## **Solution:**

1) Save the image created in Assignment 1 as a Docker image: List running containers to find the container ID or name: docker ps

```
ubuntu@ip-172-31-15-134:~$ docker ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
acc29f734773 ubuntu "/bin/bash" 20 minutes ago Up 20 minutes 0.0.0.0:80->80/tcp, :::80->80/tcp cool_dubinsky
ubuntu@ip-172-31-15-134:~$
```

**Commit the container to a new image**: docker commit [container\_id\_or\_name] my-apache-image

ubuntu@ip-172-31-15-134:~\$ docker commit acc29f734773 my-apache-image sha256:fbd310460a98d88d7836df85cd615aab89160b4c2e345352b5dea4287e0460be ubuntu@ip-172-31-15-134:~\$

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

**Run the new container and map port 81**: docker run -dit -p 81:80 --name my-apache-container my-apache-image

- **-p 81:80** maps port 81 on your local machine to port 80 in the container.
- **--name** my-apache-container names the container.

**my-apache-image** is the name of the image created in the previous step.

```
ubuntu@ip-172-31-15-134:~$ docker run -dit -p 81:80 --name my-apache-container my-apache-image
7de3728bc482d792c70099e450b0d13ec7325a666b584eb4d31f6740e2c5f084
ubuntu@ip-172-31-15-134:~$
```

3) Go inside the container and start the apache2 service:

Access the running container: docker exec -it my-apache-container bash

ubuntu@ip-172-31-15-134:~\$ docker exec -it my-apache-container bash root@7de3728bc482:/#

## Start Apache2 service: service apache2 start

```
root@7de3728bc482:/# service apache2 start
* Starting Apache httpd web server apache2
AH00558: apache2: Could not reliably determine the server's fully qualified domain name, using 172.17.0.3. Set the 'ServerName' directive globally to suppress this message
.
root@7de3728bc482:/# |
```

4) Check if Apache2 is Accessible in the Browser: Open your web browser.

Navigate to: http://localhost:81 or http://<your-server-ip>:81.

