

Module-3: Docker – I Assignment - 3

You have been asked to:

- Use the saved image in the previous assignment
- Upload this image on Dockerhub
- On a separate machine pull this dockerhub image, and launch it on port 80
- Start the apache2 service
- Verify if you are able to see the apache2 service

The above task can be achieved as follows:

- Firstly we need to login to the docker and the tag our image and pushed it to docker hub by applying below commands

```
/root/.hushlogin file.  
root@MTLP-1751:~# sudo docker login  
Authenticating with existing credentials...  
Login Succeeded
```


```
root@MTLP-1751:~# sudo docker tag myimage sairajareddymuli/sairajareddy  
root@MTLP-1751:~# sudo docker login  
Authenticating with existing credentials...  
Login Succeeded  
root@MTLP-1751:~# sudo docker push sairajareddymuli/sairajareddy  
Using default tag: latest  
The push refers to repository [docker.io/sairajareddymuli/sairajareddy]  
93c5c4f39e51: Pushed  
256d88da4185: Pushed  
latest: digest: sha256:fa6781238a55a018b5e040c5c73cf35550f7fa896255ec61be99f45e6517719a size: 741
```

- As shown in above image was successfully pushed to docker hub.

- Then open another instance with installed docker and pull image from docker hub by applying following commands.

```
root@MTLP-1751:~# sudo docker ps
CONTAINER ID   IMAGE          COMMAND                  CREATED    STATUS    PORTS    NAMES
root@MTLP-1751:~# sudo docker login
Authenticating with existing credentials...
Login Succeeded
root@MTLP-1751:~# sudo docker pull sairajareddymuli/sairajareddy
Using default tag: latest
latest: Pulling from sairajareddymuli/sairajareddy
Digest: sha256:fa6781238a55a018b5e040c5c73cf35550f7fa896255ec61be99f45e6517719a
Status: Image is up to date for sairajareddymuli/sairajareddy:latest
docker.io/sairajareddymuli/sairajareddy:latest
root@MTLP-1751:~# sudo docker run -itd -p 80:80 sairajareddymuli/sairajareddy
d7da809263b03bc0f3cd558065fc9d8fed308adb10330d74dda04092ace0069a
root@MTLP-1751:~# sudo docker ps
CONTAINER ID   IMAGE          COMMAND                  CREATED    STATUS    PORTS    NAMES
d7da809263b0   sairajareddymuli/sairajareddy   "/bin/bash"   4 seconds ago    Up 2 seconds    0.0.0.0:80->80/tcp    lucid_mendel
root@MTLP-1751:~# sudo docker exec -it d7da809263b0 /bin/bash
root@d7da809263b0:/# service apache2 start
* Starting Apache httpd web server apache2
AH00558: apache2: Could not reliably determine the server's fully qualified domain name, using 172.17.0.2. Set the 'ServerName' directive globally to suppress this message
*
root@d7da809263b0:/# service apache2 status
* apache2 is running
root@d7da809263b0:/# service apache2 start
```

- Then check the apache2 server status and start the we achived the task as shown below in our loacal host apache2 server was running on our local host and verified successfully.



Apache2 Default Page

Ubuntu

It works!

This is the default welcome page used to test the correct operation of the Apache2 server after installation on Ubuntu systems. It is based on the equivalent page on Debian, from which the Ubuntu Apache packaging is derived. If you can read this page, it means that the Apache HTTP server installed at this site is working properly. You should **replace this file** (located at `/var/www/html/index.html`) before continuing to operate your HTTP server.

If you are a normal user of this web site and don't know what this page is about, this probably means that the site is currently unavailable due to maintenance. If the problem persists, please contact the site's administrator.

Configuration Overview

Ubuntu's Apache2 default configuration is different from the upstream default configuration, and split into several files optimized for interaction with Ubuntu tools. The configuration system is **fully documented in `/usr/share/doc/apache2/README.Debian.gz`**. Refer to this for the full documentation. Documentation for the web server itself can be found by accessing the **manual** if the `apache2-doc` package was installed on this server.

The configuration layout for an Apache2 web server installation on Ubuntu systems is as follows:

```
/etc/apache2/  
|-- apache2.conf  
|   |-- ports.conf  
|-- mods-enabled  
|   |-- *.load  
|   |-- *.conf  
|-- conf-enabled  
|   |-- *.conf  
|-- sites-enabled  
|   |-- *.conf
```