

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
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- The commands below can be executed to achieve the above task.

```
root@MTLP-1751:~# sudo docker ps
^[[CONTAINER ID   IMAGE      COMMAND                  CREATED        STATUS        PORTS               NAMES
5d0aabddfd5     ubuntu    "/bin/bash"             2 hours ago   Up 2 hours    0.0.0.0:80->80/tcp   sai
root@MTLP-1751:~# sudo docker ps
CONTAINER ID   IMAGE      COMMAND                  CREATED        STATUS        PORTS               NAMES
5d0aabddfd5     ubuntu    "/bin/bash"             3 hours ago   Up 3 hours    0.0.0.0:80->80/tcp   sai
root@MTLP-1751:~# sudo docker commit 5d0aabddfd5
sha256:6feda19911f3f43f63fc0d311ae55ade58c94f8942a33bb5dbbf7550301b214e
root@MTLP-1751:~# sudo docker commit 5d0aabddfd5 ubuntu:myimage
sha256:c840f2a3bd271ff630eba1bb23618ca93f866de81af7a85d613e577411b4c2a1
root@MTLP-1751:~# sudo docker commit 5d0aabddfd5 myimage
sha256:a9072a9d2d74a5404de2056b6339a492101a6276612803f24dfca9aca6cbc98b
root@MTLP-1751:~# sudo docker run -itd -p 81:80 myimage
59258a91e237d1b5cbd7bb5bad9203f35b60da9c4281be06f0c246a75afae16d
root@MTLP-1751:~# sudo docker exec -it 5d0aabddfd5 bash
root@5d0aabddfd5:/# service apache2 status
* apache2 is running
root@5d0aabddfd5:/# service apache2 start
```

Then redirect to local host by using <http://localhost/> we can get the default apache2 web page in our browser as shown below.

localhost



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
```