

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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N. Virginia

raj@sy-aws-v2

* Restarting 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

[OK]

root@809e9b6d1467:/# service apache2 status

* apache2 is running

root@809e9b6d1467:/# exit

exit

root@ip-172-31-53-132:~# docker ps

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
809e9b6d1467	ubuntu:18.04	"/bin/bash"	3 minutes ago	Up 3 minutes	0.0.0.0:80->80/tcp, :::80->80/tcp	sharp_tesla

root@ip-172-31-53-132:~# docker commit 809e9b6d1467 assignment2

sha256:4e2067d8bc8214e9fd26ea9a094c1d5a995438b0b7419303339ae72958a92fda

root@ip-172-31-53-132:~# docker images

REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
assignment2	latest	4e2067d8bc82	50 seconds ago	204MB
ubuntu	18.04	5d2df19066ac	4 weeks ago	63.1MB

root@ip-172-31-53-132:~# docker run -itd -p 81:80 --name myimage assignment2

d846d59f0be5633bf18f8120c8fec898d08529b3fe827fad01183ef979c404ec

root@ip-172-31-53-132:~# docker ps -a

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
d846d59f0be5	assignment2	"/bin/bash"	13 seconds ago	Up 12 seconds	0.0.0.0:81->80/tcp, :::81->80/tcp	myimage
809e9b6d1467	ubuntu:18.04	"/bin/bash"	5 minutes ago	Up 5 minutes	0.0.0.0:80->80/tcp, :::80->80/tcp	sharp_tesla

root@ip-172-31-53-132:~# docker exec -it myimage bash

root@d846d59f0be5:/#




i-0223607791135e69b (Docker)

PublicIPs: 100.26.209.235 PrivateIPs: 172.31.53.132

aws

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N. Virginia

raj @ sy-aws-v2

```
CONTAINER ID    IMAGE           COMMAND          CREATED        STATUS        PORTS           NAMES
809e9b6d1467   ubuntu:18.04    "/bin/bash"      3 minutes ago  Up 3 minutes  0.0.0.0:80->80/tcp, :::80->80/tcp  sharp_tesla
root@ip-172-31-53-132:~# docker commit 809e9b6d1467 assignment2
sha256:4e2067d8bc8214e9fd26ea9a094c1d5a995438b0b7419303339ae72958a92fda
root@ip-172-31-53-132:~# docker images
REPOSITORY      TAG          IMAGE ID        CREATED        SIZE
assignment2     latest      4e2067d8bc82    50 seconds ago  204MB
ubuntu          18.04       5d2df19066ac    4 weeks ago    63.1MB
root@ip-172-31-53-132:~# docker run -itd -p 81:80 --name myimage assignment2
d846d59f0be5633bf18f8120c8fec898d08529b3fe827fad01183ef979c404ec
root@ip-172-31-53-132:~# docker ps -a
CONTAINER ID    IMAGE           COMMAND          CREATED        STATUS        PORTS           NAMES
d846d59f0be5    assignment2     "/bin/bash"      13 seconds ago  Up 12 seconds  0.0.0.0:81->80/tcp, :::81->80/tcp  myimage
809e9b6d1467    ubuntu:18.04    "/bin/bash"      5 minutes ago  Up 5 minutes   0.0.0.0:80->80/tcp, :::80->80/tcp  sharp_tesla
root@ip-172-31-53-132:~# docker exec -it myimage bash
root@d846d59f0be5:/# service apache2 status
* apache2 is not running
root@d846d59f0be5:/# 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@d846d59f0be5:/# service apache2 status
* apache2 is running
root@d846d59f0be5:/#
```

i-0223607791135e69b (Docker)

PublicIPs: 100.26.209.235 PrivateIPs: 172.31.53.132



Security group rule ID	Type <small>Info</small>	Protocol <small>Info</small>	Port range <small>Info</small>	Source <small>Info</small>	Description - optional <small>Info</small>	
sgr-0546c6e2756404fd6	SSH ▼	TCP	22	Custom ▼ <input type="text" value="0.0.0.0/0"/>	<input type="text"/>	<div>Delet e</div>
sgr-06730a8b88bdd93e2	HTTP ▼	TCP	80	Custom ▼ <input type="text" value="0.0.0.0/0"/>	<input type="text"/>	<div>Delet e</div>
sgr-070403aaba0ab867f	HTTPS ▼	TCP	443	Custom ▼ <input type="text" value="0.0.0.0/0"/>	<input type="text"/>	<div>Delet e</div>
sgr-09e5278b75e3aa8a6	Custom TCP ▼	TCP	3000	Custom ▼ <input type="text" value="0.0.0.0/0"/>	<input type="text"/>	<div>Delet e</div>
sgr-039b2fe5a9c79d75b	Custom TCP ▼	TCP	8080	Custom ▼ <input type="text" value="0.0.0.0/0"/>	<input type="text"/>	<div>Delet e</div>
-	Custom TCP ▼	TCP	81	Anywh... ▼ <input type="text" value="0.0.0.0/0"/>	<input type="text"/>	<div>Delet e</div>

Add rule





Apache2 Ubuntu Default Page

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
```