

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
-


```
ubuntu@ip-172-31-31-157:~$ sudo docker ps
CONTAINER ID   IMAGE      COMMAND                  CREATED        STATUS        PORTS                               NAMES
4773f9d9fc78   ubuntu    "/bin/bash"             5 minutes ago Up 5 minutes   0.0.0.0:80->80/tcp, :::80->80/tcp   fervent_brahmagupta
ubuntu@ip-172-31-31-157:~$ sudo docker commit 4773f9d9fc78 assignment2
sha256:9eee48ae920357014b253015eee9bbde9e79eb40b51b641a5db567c548cd7ca0
ubuntu@ip-172-31-31-157:~$ sudo docker run -itd -p 81:80 assignment2
8d3bbe7c7b3d3b203d6b0e5b646389bd196a75b88e41f7f53950847a959a8961
ubuntu@ip-172-31-31-157:~$ sudo docker ps
CONTAINER ID   IMAGE      COMMAND                  CREATED        STATUS        PORTS                               NAMES
8d3bbe7c7b3d   assignment2 "/bin/bash"             11 seconds ago Up 10 seconds   0.0.0.0:81->80/tcp, :::81->80/tcp   vigorous_easley
4773f9d9fc78   ubuntu    "/bin/bash"             11 minutes ago Up 11 minutes   0.0.0.0:80->80/tcp, :::80->80/tcp   fervent_brahmagupta
ubuntu@ip-172-31-31-157:~$
```




Services

Search

[Alt+S]



N. Virginia

VAIBHAV VERMA

```
ubuntu@ip-172-31-31-157:~$ sudo docker ps
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
8d3bbe7c7b3d	assignment2	"/bin/bash"	3 minutes ago	Up 3 minutes	0.0.0.0:81->80/tcp, :::81->80/tcp	vigorous_easley
4773f9d9fc78	ubuntu	"/bin/bash"	14 minutes ago	Up 14 minutes	0.0.0.0:80->80/tcp, :::80->80/tcp	fervent_brahmagupta

```
ubuntu@ip-172-31-31-157:~$ sudo docker exec -it 8d3bbe7c7b3d bash
```

```
root@8d3bbe7c7b3d:/#
```




Services

Search

[Alt+S]



N. Virginia

VAIBHAV VERMA

```
root@8d3bbe7c7b3d:/# service apache2 status
* apache2 is not running
root@8d3bbe7c7b3d:/# 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@8d3bbe7c7b3d:/# service apache2 status
* apache2 is running
root@8d3bbe7c7b3d:/#
```

i-0cdc547b0c1f3000d (Docker-test)

PublicIPs: 52.87.171.161 PrivateIPs: 172.31.31.157

Instances (1/1) Info

Connect

Instance state ▼

Actions ▼

Launch instances ▼

Find instance by attribute or tag (case-sensitive)

<input checked="" type="checkbox"/>	Name ▼	Instance ID	Instance state ▼	Instance type ▼	Status check	Alarm status	Availability Zone
<input checked="" type="checkbox"/>	Docker-test	i-0cdc547b0c1f3000d	Running	t2.micro	2/2 checks passed	No alarms +	us-east-1a

Instance: i-0cdc547b0c1f3000d (Docker-test)

- Details
- Security
- Networking
- Storage
- Status checks
- Monitoring
- Tags

▼ Instance summary Info

Instance ID	i-0cdc547b0c1f3000d (Docker-test)	Public IPv4 address copied	52.87.171.161 open address	Private IPv4 addresses	172.31.31.157
IPv6 address	—	Instance state	Running	Public IPv4 DNS	ec2-52-87-171-161.compute-1.amazonaws.com open address
Hostname type	IP name: ip-172-31-31-157.ec2.internal	Private IP DNS name (IPv4 only)	ip-172-31-31-157.ec2.internal	Elastic IP addresses	—
Answer private resource DNS name	IPv4 (A)	Instance type	t2.micro	AWS Compute Optimizer finding	
Auto-assigned IP address		VPC ID			



Ubuntu

Apache2 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
```

- `apache2.conf` is the main configuration file. It puts the pieces together by including all remaining configuration files when starting up the web server.
- `ports.conf` is always included from the main configuration file. It is used to determine the listening ports for incoming connections, and this file can be customized anytime.
- Configuration files in the `mods-enabled/`, `conf-enabled/` and `sites-enabled/` directories contain particular configuration snippets which manage modules, global configuration fragments, or virtual host configurations, respectively.



Services

Search

[Alt+S]



N. Virginia

VAIBHAV VERMA

```
root@8d3bbe7c7b3d:/# service apache2 status
* apache2 is not running
root@8d3bbe7c7b3d:/# 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@8d3bbe7c7b3d:/# service apache2 status
* apache2 is running
root@8d3bbe7c7b3d:/# exit
exit
ubuntu@ip-172-31-31-157:~$
```

I

i-0cdc547b0c1f3000d (Docker-test)

PublicIPs: 52.87.171.161 PrivateIPs: 172.31.31.157