

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-172-31-27-248: ~  
ubuntu@ip-172-31-27-248:~$ docker ps  
CONTAINER ID   IMAGE     COMMAND                  CREATED        STATUS        PORTS  
a5fb42526764   ubuntu   "/bin/bash"             14 minutes ago Up 14 minutes  0.0.0.0:80->80/tcp, :::80->80/tcp  
cp      sharp_carver  
ubuntu@ip-172-31-27-248:~$ docker commit -m "apache installed in this image" a5fb42526764 ubuntu_apache  
_running:v1  
sha256:dd5106766bc932fd8605d2eacdf3b5005c56f1d6c47b10a44f9752a4fa276d5f  
ubuntu@ip-172-31-27-248:~$
```

```
ubuntu@ip-172-31-27-248: ~  
ubuntu@ip-172-31-27-248:~$ docker images  
REPOSITORY          TAG                 IMAGE ID            CREATED             SIZE  
ubuntu_apache_running  v1                 dd5106766bc9       About a minute ago  263MB  
ubuntu               latest             ca2b0f26964c       3 weeks ago        77.9MB  
ubuntu@ip-172-31-27-248:~$
```

```
ubuntu@ip-172-31-27-248: ~  
ubuntu@ip-172-31-27-248:~$ docker run -d -it -p 81:80 ubuntu_apache_running:v1  
841b2e3e7d88ee01b42de996bcfee0aled46f81dcce30abbd63d46882b9381b3  
ubuntu@ip-172-31-27-248:~$
```

```
ubuntu@ip-172-31-27-248: ~$ docker run -d -it -p 81:80 ubuntu_apache_running:v1
841b2e3e7d88ee01b42de996bcfee0aled46f81dcce30abbd63d46882b9381b3
ubuntu@ip-172-31-27-248:~$ docker container ps
```

CONTAINER ID	IMAGE	NAMES	COMMAND	CREATED	STATUS	PORTS
841b2e3e7d88	ubuntu_apache_running:v1	agitated_pasteur	"/bin/bash"	About a minute ago	Up About a minute	0.0.0.0:81->80/tcp, :::81->80/tcp
a5fb42526764	ubuntu	sharp_carver	"/bin/bash"	36 minutes ago	Up 36 minutes	0.0.0.0:80->80/tcp, :::80->80/tcp

```
ubuntu@ip-172-31-27-248:~$
```

```
root@841b2e3e7d88: /$ docker run -d -it -p 81:80 ubuntu_apache_running:v1
841b2e3e7d88ee01b42de996bcfee0aled46f81dcce30abbd63d46882b9381b3
ubuntu@ip-172-31-27-248:~$ docker container ps
```

CONTAINER ID	IMAGE	NAMES	COMMAND	CREATED	STATUS	PORTS
841b2e3e7d88	ubuntu_apache_running:v1	agitated_pasteur	"/bin/bash"	About a minute ago	Up About a minute	0.0.0.0:81->80/tcp, :::81->80/tcp
a5fb42526764	ubuntu	sharp_carver	"/bin/bash"	36 minutes ago	Up 36 minutes	0.0.0.0:80->80/tcp, :::80->80/tcp

```
ubuntu@ip-172-31-27-248:~$ docker ps
```

CONTAINER ID	IMAGE	NAMES	COMMAND	CREATED	STATUS	PORTS
841b2e3e7d88	ubuntu_apache_running:v1	agitated_pasteur	"/bin/bash"	2 minutes ago	Up 2 minutes	0.0.0.0:81->80/tcp, :::81->80/tcp
a5fb42526764	ubuntu	sharp_carver	"/bin/bash"	37 minutes ago	Up 37 minutes	0.0.0.0:80->80/tcp, :::80->80/tcp

```
ubuntu@ip-172-31-27-248:~$ docker exec -it 841b2e3e7d88 /bin/bash
root@841b2e3e7d88:/#
```

```
root@841b2e3e7d88: /
root@841b2e3e7d88:/# systemctl status apache2
apache2.service - The Apache HTTP Server
  Loaded: loaded (/usr/lib/systemd/system/apache2.service, enabled)
  Active: inactive (dead)
root@841b2e3e7d88:/#
```

```
root@841b2e3e7d88: /
root@841b2e3e7d88:/# systemctl status apache2
apache2.service - The Apache HTTP Server
  Loaded: loaded (/usr/lib/systemd/system/apache2.service, enabled)
  Active: inactive (dead)
root@841b2e3e7d88:/# systemctl start apache2
root@841b2e3e7d88:/# systemctl status apache2
apache2.service - The Apache HTTP Server
  Loaded: loaded (/usr/lib/systemd/system/apache2.service, enabled)
  Active: active (running)
root@841b2e3e7d88:/#
```

Instances | EC2 | us-east-1

labs/docker/install at master | Start Course | Intellipaat | Download file | iLovePDF | ubuntu 16.04 - pull access |

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Instances:instanceId=i-05eeb7ab4fa97ad55v=3;\$case=tag:true...

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EC2 Global View
Events
Console-to-Code
Preview
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Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Capacity Reservations
Images
AMIs

Instances (1/1) Info

Find Instance by attribute or tag (case-sensitive)

Instance ID = i-05eeb7ab4fa97ad55

Clear filters

Connect Instance state Actions Launch Instances

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability
docker_assignment	i-05eeb7ab4fa97ad55	Running	t2.micro	2/2 checks passed	View alarms	us-east-1

Instance: i-05eeb7ab4fa97ad55 (docker_assignment)

Details Status and alarms New Monitoring Security Networking Storage Tags

▼ Instance summary Info

Instance ID	i-05eeb7ab4fa97ad55 (docker_assignment)	Public IPv4 address	3.94.194.108 open address	Private IPv4 addresses	172.31.27.248
IPv6 address	-	Instance state	Running	Public IPv4 DNS	ec2-3-94-194-108.compute-1.amazonaws.com open address

CloudShell Feedback

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Instances | EC2 | us-east-1 | SecurityGroup | EC2 | labs/docker/install at master | Start Course | Intellipaat | Download file | iLovePDF | Apache2 Ubuntu Def |

Not secure 3.94.194.108:81

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
```

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