

AWS Solutions Architect Certification Training

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DevOps-Module-03 Docker-I-Assignment-4 COMPLETED by Nagesha KS

Please check the following screenshots for each question.

Tasks To Be Performed:

1. Create a Dockerfile with the following specs:
 - Ubuntu container
 - Apache2 installed
 - Apache2 should automatically run once the container starts
2. Submit the Dockerfile for assignment completion

Instances | EC2 | us-east-2 x EC2 Instance Connect | us-east-2 x nagesha1995's Profile | Docker x 18.217.210.78 x +

us-east-2.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-0f490663995fb1a56&osUser=ubuntu®ion=us-east-2&sshPort=22#/ ☆ N

aws Services Search [Alt+S] Ohio Nagesha KS

```
System information as of Tue Sep 3 06:09:54 UTC 2024

System load: 0.33      Processes:           108
Usage of /: 33.5% of 7.57GB  Users logged in:    0
Memory usage: 24%      IPv4 address for eth0: 172.31.30.50
Swap usage: 0%

Expanded Security Maintenance for Applications is not enabled.

51 updates can be applied immediately.
25 of these updates are standard security updates.
To see these additional updates run: apt list --upgradable

Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status

New release '24.04.1 LTS' available.
Run 'do-release-upgrade' to upgrade to it.

Last login: Mon Sep 2 18:37:04 2024 from 3.16.146.3
ubuntu@ip-172-31-30-50:~$
```

i-0f490663995fb1a56 (Nagesha-Docker) X

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11:39 03-09-2024

EC2 Instance Connect | us-east-2

us-east-2.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-0f490663995fb1a56&osUser=ubuntu®ion=us-east-2&sshPort=22#/

Services

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```
Setting up publicsuffix (20231001.0357-0.1) ...
Setting up libxml2:amd64 (2.9.14+dfsg-1.3ubuntu3) ...
Setting up libldap2:amd64 (2.6.7+dfsg-1-explubuntu8) ...
Setting up libaprutil1t64:amd64 (1.6.3-1.1ubuntu7) ...
Setting up libaprutil1-dbg:amd64 (1.6.3-1.1ubuntu7) ...
Setting up libaprutil1-dev:amd64 (1.6.3-1.1ubuntu7) ...
Setting up ca-certificates (20240203) ...
debconf: unable to initialize frontend: Dialog
debconf: (TERM is not set, so the dialog frontend is not usable.)
debconf: falling back to frontend: Readline
debconf: unable to initialize frontend: Readline
debconf: (This frontend requires a controlling tty.)
debconf: falling back to frontend: Teletype
Updating certificates in /etc/ssl/certs...
146 added, 0 removed; done.
Setting up perl (5.38.2-3.2build2) ...
Setting up ssl-cert (1.1.2ubuntu1) ...
debconf: unable to initialize frontend: Dialog
debconf: (TERM is not set, so the dialog frontend is not usable.)
debconf: falling back to frontend: Readline
debconf: unable to initialize frontend: Readline
debconf: (This frontend requires a controlling tty.)
debconf: falling back to frontend: Teletype
```

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EC2 Instance Connect | us-east-2

us-east-2.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-0f490663995fb1a56&osUser=ubuntu®ion=us-east-2&sshPort=22#/

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```
Enabling module reqtimeout.  
Enabling conf charset.  
Enabling conf localized-error-pages.  
Enabling conf other-headers-access-log.  
Enabling conf security.  
Enabling conf serve-cgi-bin.  
Enabling site 000-default.  
invoke-rc.d: could not determine current runlevel  
invoke-rc.d: policy-rc.d denied execution of start.  
Processing triggers for libc-bin (2.39-0ubuntu8.2) ...  
Processing triggers for ca-certificates (20240203) ...  
Updating certificates in /etc/ssl/certs...  
0 added, 0 removed; done.  
Running hooks in /etc/ca-certificates/update.d...  
done.  
Removing intermediate container a73f6170f577  
--> 674817112e9d  
Step 4/4 : ENTRYPOINT apache2ctl -D FOREGROUND  
--> Running in 55b500151db2  
Removing intermediate container 55b500151db2  
--> 356ecaa74d9f  
Successfully built 356ecaa74d9f  
Successfully tagged test01:latest  
ubuntu@ip-172-31-30-50:~$
```

i-0f490663995fb1a56 (Nagesha-Docker)

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EC2 Instance Connect | us-east-2

us-east-2.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-0f490663995fb1a56&osUser=ubuntu®ion=us-east-2&sshPort=22#

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Running hooks in /etc/cr-certificate/update.d... done.

Removing intermediate container a73f6170f577

---> 674817112e9d

Step 4/4 : ENTRYPOINT apache2ctl -D FOREGROUND

---> Running in 55b500151db2

Removing intermediate container 55b500151db2

---> 356ecaa74d9f

Successfully built 356ecaa74d9f

Successfully tagged test01:latest

ubuntu@ip-172-31-30-50:~\$ sudo docker images

REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
test01	latest	356ecaa74d9f	2 minutes ago	231MB
nagesha1995/assign2	latest	30dae37c6ba0	13 hours ago	231MB
assignment2	latest	30dae37c6ba0	13 hours ago	231MB
ubuntu	latest	edbfe74c41f8	4 weeks ago	78.1MB

ubuntu@ip-172-31-30-50:~\$ sudo docker run -itd -p 85:80 test

Unable to find image 'test:latest' locally

docker: Error response from daemon: pull access denied for test, repository does not exist or may require 'docker login': denied: requested access to the resource is denied.

See 'docker run --help'.

ubuntu@ip-172-31-30-50:~\$ sudo docker run -itd -p 85:80 test01

6db006026f04800444c4a62fe90df6779c90807abb830064627b9cd55df24608

ubuntu@ip-172-31-30-50:~\$

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Instances | EC2 | us-east-2

nagesha1995's Profile | Docker

18.217.210.78

Apache2 Ubuntu Default Page

← → ↻ ⚠ Not secure 3.21.190.108:65 ☆ ⓘ ⋮



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
```

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12:00
03-09-2024

Docker commands

start AWS EC2 instance

connect

sudo nano Dockerfile

FROM ubuntu

RUN apt update

RUN apt-get install apache2 -y

ENTRYPOINT apachectl -D FOREGROUND

sudo docker build . -t test01

sudo docker images

sudo docker run -itd -p 85:80 test

http://3.21.190.108:85/ in browser

here :85 has to be added to Public IP as 85 is the port