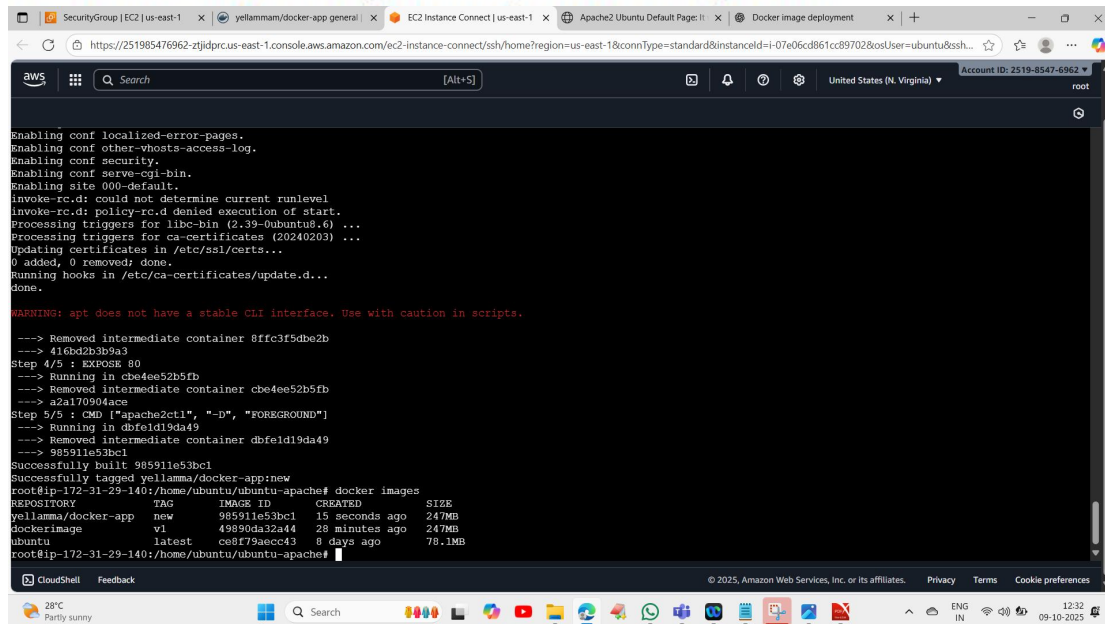


Tasks To Be Performed:

1. Use the saved image in the previous assignment
2. Upload this image on Docker Hub
3. On a separate machine pull this Docker Hub image and launch it on port 80
4. Start the Apache2 service
5. Verify if you are able to see the Apache2 service

1. Use the saved image in the previous assignment

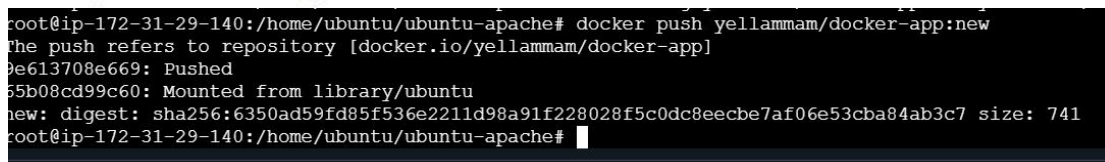


```
Enabling conf localized-error-pages.
Enabling conf other-vhosts-access-log.
Enabling conf security.
Enabling conf serve-cgi-bin.
Enabling site 000-default.
invoke-rc.d: could not determine current runlevel
invoke-rc.d: policy-rc.d denied execution of start.
Processing triggers for libc-bin (2.39-0ubuntu6) ...
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.

WARNING: apt does not have a stable CLI interface. Use with caution in scripts.

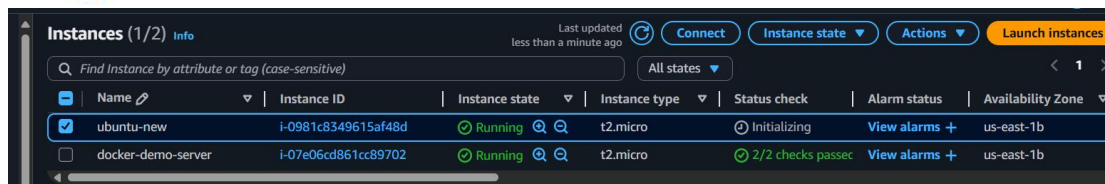
--> Removed intermediate container 8ffc3f5d8e2b
--> 416d8b3b9a3
Step 4/5 : EXPOSE 80
--> Running in cbe4ee52b5fb
--> Removed intermediate container cbe4ee52b5fb
--> a2a170904ace
Step 5/5 : CMD ["apache2ctl", "-D", "FOREGROUND"]
--> Running in dbfe1d19da49
--> Removed intermediate container dbfe1d19da49
--> 985911e53bc1
Successfully built 985911e53bc1
Successfully tagged yellammam/docker-app:new
root@ip-172-31-29-140:/home/ubuntu/ubuntu-apache# docker images
REPOSITORY          TAG         IMAGE ID      CREATED       SIZE
yellammam/docker-app new          985911e53bc1  15 seconds ago 247MB
docker-image         v1          49690d832a44  28 minutes ago 247MB
ubuntu               latest      c08f79aacc43  8 days ago    78.1MB
root@ip-172-31-29-140:/home/ubuntu/ubuntu-apache#
```

2. Upload this image on Docker Hub



```
root@ip-172-31-29-140:/home/ubuntu/ubuntu-apache# docker push yellammam/docker-app:new
The push refers to repository [docker.io/yellammam/docker-app]
9e613708e669: Pushed
55b08cd99c60: Mounted from library/ubuntu
new: digest: sha256:6350ad59fd85f536e2211d98a91f228028f5c0dc8eecbe7af06e53cba84ab3c7 size: 741
root@ip-172-31-29-140:/home/ubuntu/ubuntu-apache#
```

3. On a separate machine pull this Docker Hub image and launch it on port 80



Instances (1/2) Info							
Last updated less than a minute ago							
<div>Find Instance by attribute or tag (case-sensitive)</div> <div>All states</div>							
	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
<input checked="" type="checkbox"/>	ubuntu-new	i-0981c8349615af48d	Running	t2.micro	Initializing	View alarms +	us-east-1b
<input type="checkbox"/>	docker-demo-server	i-07e06cd861cc89702	Running	t2.micro	2/2 checks passed	View alarms +	us-east-1b

yellammam

Docker Personal

Repositories

Hardened Images NEW

Collaborations

Settings

Default privacy

Notifications

Billing

Usage

Pulls

Storage

Repositories / docker-app / General

yellammam/docker-app

Last pushed 7 minutes ago • Repository size: 152.9 MB

for creating docker images

Add a category

General Tags Image Management BETA Collaborators Webhooks Settings

Tags

Analyzed by docker scout

This repository contains 4 tag(s).

Tag	OS	Type	Vulnerabilities	Pulled	Pushed
new		Image	2 9 0	less than 1 day	8 minutes

```

root@ip-172-31-26-62:/home/ubuntu/ubuntu-new# docker version
Docker version 28.2.2, build 28.2.2-0ubuntu1~24.04.1
root@ip-172-31-26-62:/home/ubuntu/ubuntu-new# docker pull yellammam/docker-app:new
new: Pulling from yellammam/docker-app
a1a21c96bc16: Pull complete
00ab09f170d2: Pull complete
Digest: sha256:6350ad59fd85f536e2211d98a91f228028f5c0dc8eecbe7af06e53cba84ab3c7
Status: Downloaded newer image for yellammam/docker-app:new
docker.io/yellammam/docker-app:new
root@ip-172-31-26-62:/home/ubuntu/ubuntu-new#

root@ip-172-31-26-62:/home/ubuntu/ubuntu-new# docker run -d -p 80:80 --name apache-container yellammam/docker-app:new
3adc7b46a77465972531e4cd8ca4f7684148834cd81cbd6c0f80f03b9a20f966
root@ip-172-31-26-62:/home/ubuntu/ubuntu-new# docker images
REPOSITORY        TAG         IMAGE ID      CREATED      SIZE
yellammam/docker-app  new        985911e53bcl  46 minutes ago  247MB
root@ip-172-31-26-62:/home/ubuntu/ubuntu-new# docker ps
CONTAINER ID   IMAGE                  COMMAND                  CREATED        STATUS        PORTS                               NAMES
3adc7b46a774   yellammam/docker-app:new  "apache2ctl -D FOREG..."  17 seconds ago  Up 17 seconds  0.0.0.0:80->80/tcp, [::]:80->80/tcp  apache-container
root@ip-172-31-26-62:/home/ubuntu/ubuntu-new#

```

4. Start the Apache2 service

```

root@ip-172-31-26-62:/home/ubuntu/ubuntu-new# docker exec -it apache-container bash
root@3adc7b46a774:/# apt update
Hit:1 http://archive.ubuntu.com/ubuntu noble InRelease
Hit:2 http://security.ubuntu.com/ubuntu noble-security InRelease
Hit:3 http://archive.ubuntu.com/ubuntu noble-updates InRelease
Hit:4 http://archive.ubuntu.com/ubuntu noble-backports InRelease
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
2 packages can be upgraded. Run 'apt list --upgradable' to see them.
root@3adc7b46a774:/# apt install apache2 -y

root@3adc7b46a774:/# service apache2 start
* Starting Apache httpd web server apache2
*

root@3adc7b46a774:/# apache2ctl -D FOREGROUND
AH00558: apache2: Could not reliably determine the se
age
httpd (pid 21) already running
root@3adc7b46a774:/#

```

5. Verify if you are able to see the Apache2 service



The screenshot shows a web browser window displaying the Apache2 Default Page. The browser's address bar shows the URL `23.20.90.13`. The page content includes the Ubuntu logo, the title "Apache2 Default Page", and a green button that says "It works!". Below this, there is a paragraph of text explaining that the page is used to test the correct operation of the Apache2 server after installation on Ubuntu systems. It also mentions that the page is based on the equivalent page on Debian. A section titled "Configuration Overview" follows, explaining that Ubuntu's Apache2 default configuration is different from the upstream default configuration and is split into several files. It then provides a list of files in the `/etc/apache2/` directory:

```
/etc/apache2/  
|-- apache2.conf  
|   |-- ports.conf  
|-- mods-enabled  
|   |-- *.load  
|   |-- *.conf  
|-- conf-enabled  
|   |-- *.conf  
|-- sites-enabled  
|   |-- *.conf
```