

Assignment - 3

Email- harshalgite888@gmail.com

Tasks:

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.

Solution:

Steps:

Start Course | Intellipaat x Instances | EC2 | us-east-1 x EC2 Instance Connect | us- x 107.23.249.56 x docker hub - Yahoo India x Docker Hub x + -

← → ↻ https://hub.docker.com/complete-signup?session_token=eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJpYXQiOiJlM0M0ODk5OTI1Imlzcy6iImVzZ2luLmRvY2tic5jb20iLCJzdWl0Ijnb29nbGUT... ☆

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docker

Create your username

Signed in by Google as

Sakshi Jadhav
jadhavsakshi459@gmail.com

Username
jadhavsakshi

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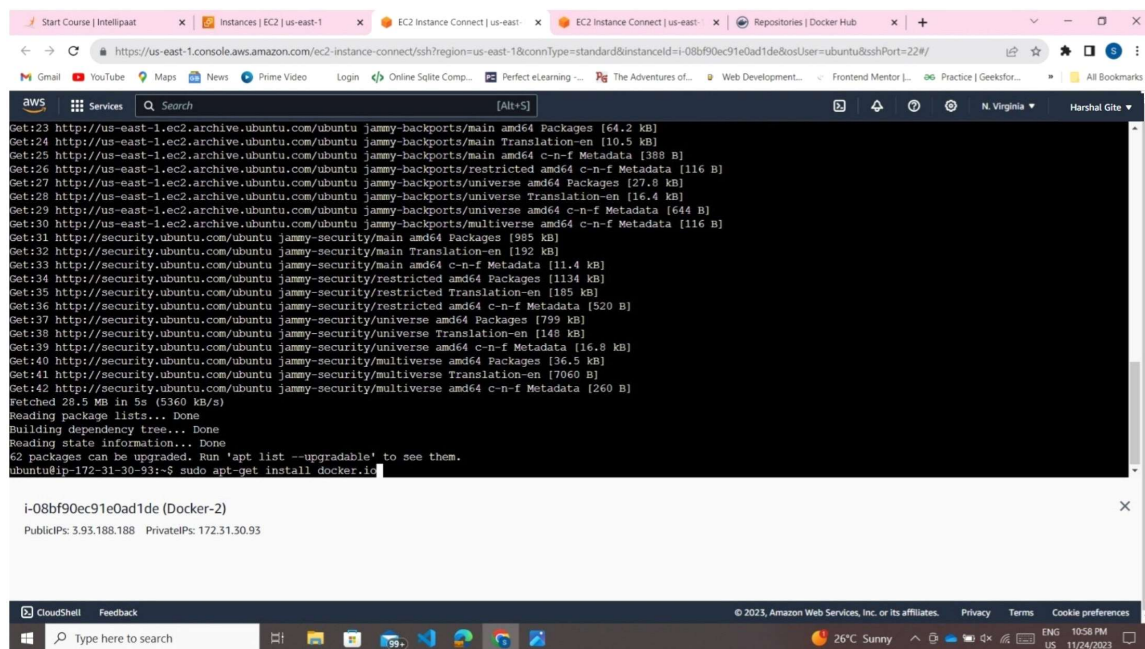
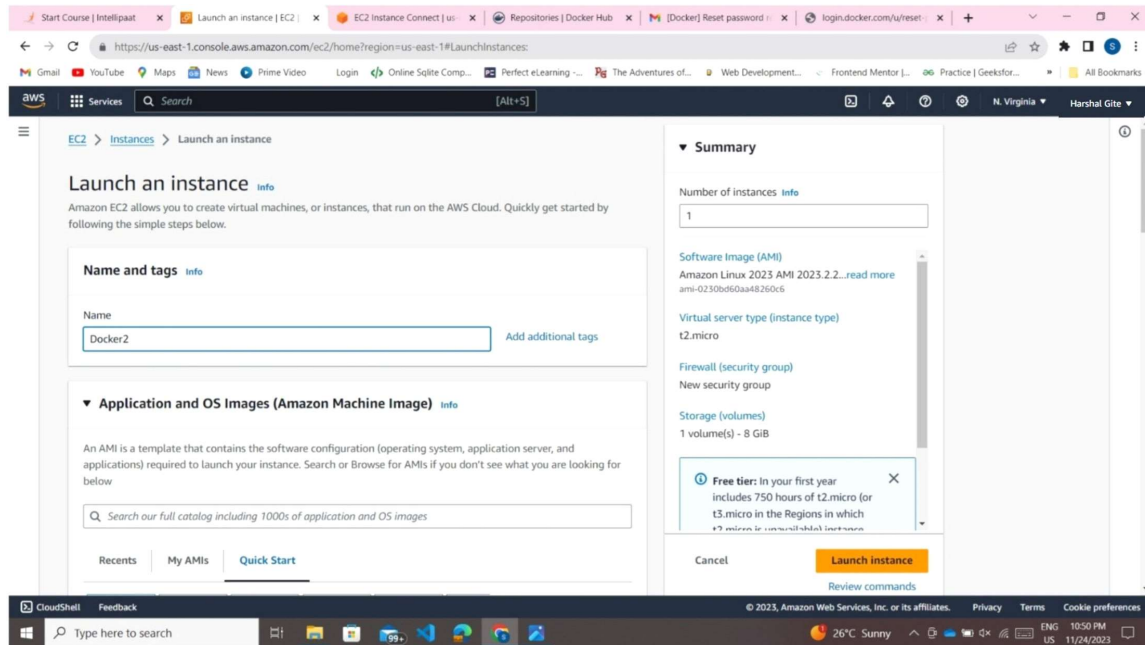
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```
Start Course | Intellipaat x Instances | EC2 | us-east-1 x EC2 Instance Connect | us x Repositories | Docker Hub x [Docker] Reset password x login.docker.com/u/reset x + - x
https://us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-0e453b36fb1a7be6c&osUser=ubuntu&region=us-east-1&sshPort=22#/
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AWS Services Search [Alt+S] N. Virginia Harshal Gite
System information as of Sat Nov 25 05:37:56 UTC 2023
System load: 0.0 Processes: 113
Usage of /: 34.0% of 7.57GB Users logged in: 0
Memory usage: 29% IPv4 address for docker0: 172.17.0.1
Swap usage: 0% IPv4 address for eth0: 172.31.46.223
Expanded Security Maintenance for Applications is not enabled.
62 updates can be applied immediately.
38 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
Last login: Sat Nov 25 05:32:54 2023 from 18.206.107.27
ubuntu@ip-172-31-46-223:~$ sudo docker tag sakshi_img jadhavsakshi/appl:latest
ubuntu@ip-172-31-46-223:~$ sudo docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
jadhavsakshi/appl latest 876591dc0c39 27 minutes ago 232MB
sakshi_img latest 876591dc0c39 27 minutes ago 232MB
ubuntu latest e4e9898191a 7 weeks ago 77.0MB
ubuntu@ip-172-31-46-223:~$ sudo docker login
i-0e453b36fb1a7be6c (Docker-Id)
PublicIPs: 107.23.249.56 PrivateIPs: 172.31.46.223
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https://us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-0e453b36fb1a7be6c&osUser=ubuntu&region=us-east-1&sshPort=22#/
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AWS Services Search [Alt+S] N. Virginia Harshal Gite
ubuntu@ip-172-31-46-223:~$ sudo docker login
Login with your Docker ID to push and pull images from Docker Hub. If you don't have a Docker ID, head over to https://hub.docker.com to create one.
Username: jadhavsakshi
Password:
WARNING! Your password will be stored unencrypted in /root/.docker/config.json.
Configure a credential helper to remove this warning. See
https://docs.docker.com/engine/reference/commandline/login/#credentials-store
Login Succeeded
ubuntu@ip-172-31-46-223:~$ sudo docker push jadhavsakshi/appl:latest
The push refers to repository [docker.io/jadhavsakshi/appl]
c5a9993b991d: Pushed
256d88da4185: Mounted from library/ubuntu
latest: digest: sha256:1692c3572ae0328ebff4045f64e2aebabeba2ad0e039922ca089244b2b2441e6d size: 741
ubuntu@ip-172-31-46-223:~$
i-0e453b36fb1a7be6c (Docker-Id)
PublicIPs: 107.23.249.56 PrivateIPs: 172.31.46.223
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https://us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-1&connType=standard&instanceId=i-08bf90ec91e0ad1de&osUser=ubuntu&sshPort=22#/
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Running kernel seems to be up-to-date.
No services need to be restarted.
No containers need to be restarted.
No user sessions are running outdated binaries.
No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-30-93:~$ sudo docker login
Login with your Docker ID to push and pull images from Docker Hub. If you don't have a Docker ID, head over to https://hub.docker.com to create one.
Username: jadhavsakshi
Password:
WARNING! Your password will be stored unencrypted in /root/.docker/config.json.
Configure a credential helper to remove this warning. See
https://docs.docker.com/engine/reference/commandline/login/#credentials-store

Login Succeeded
ubuntu@ip-172-31-30-93:~$ sudo docker pull jadhavsakshi/appl:latest
latest: Pulling from jadhavsakshi/appl
aece8493d397: Pull complete
6c5413235133: Pull complete
Digest: sha256:682c3572ae03286bff4045f64e2aebabeba2ad0e039922ca089244b2b2441e6d
Status: Downloaded newer image for jadhavsakshi/appl:latest
docker.io/jadhavsakshi/appl:latest
ubuntu@ip-172-31-30-93:~$

i-08bf90ec91e0ad1de (Docker-2)
PublicIPs: 3.93.188.188 PrivateIPs: 172.31.30.93

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https://us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-1&connType=standard&instanceId=i-08bf90ec91e0ad1de&osUser=ubuntu&sshPort=22#/
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6c5413235133: Pull complete
Digest: sha256:682c3572ae03286bff4045f64e2aebabeba2ad0e039922ca089244b2b2441e6d
Status: Downloaded newer image for jadhavsakshi/appl:latest
docker.io/jadhavsakshi/appl:latest
ubuntu@ip-172-31-30-93:~$ sudo docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
jadhavsakshi/appl latest 876591dc0c39 2 hours ago 232MB
ubuntu@ip-172-31-30-93:~$ sudo docker run -it -d -p 80:80 jadhavsakshi/appl:latest
8ec37c0397f8434b4a5f647006f005033fa483df13a17a72330acbeb9b087b3
ubuntu@ip-172-31-30-93:~$ sudo docker ps -a
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
8ec37c0397f8 jadhavsakshi/appl:latest "/bin/bash" 12 seconds ago Up 11 seconds 0.0.0.0:80->80/tcp, :::80->80/tcp xenodochial_montalcini
ubuntu@ip-172-31-30-93:~$ sudo docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
jadhavsakshi/appl latest 876591dc0c39 2 hours ago 232MB
ubuntu@ip-172-31-30-93:~$ sudo docker exec -it 8ec37c0397f8 bash
root@8ec37c0397f8:/# service apache2 status
* apache2 is not running
root@8ec37c0397f8:/# service apache2 start
* Starting Apache httpd web server apache2
AH00558: apache2: Could not reliably determine the server's fully qualified domain name, using 172.17.0.2. Set the 'ServerName' directive globally to suppress this message
*
root@8ec37c0397f8:/# service apache2 status
* apache2 is running
root@8ec37c0397f8:/#


i-08bf90ec91e0ad1de (Docker-2)
PublicIPs: 3.93.188.188 PrivateIPs: 172.31.30.93

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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  
|   |-- *.conf  
|-- conf-enabled  
|   |-- *.conf  
|-- sites-enabled  
|   |-- *.conf
```

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