

Assignment - 1

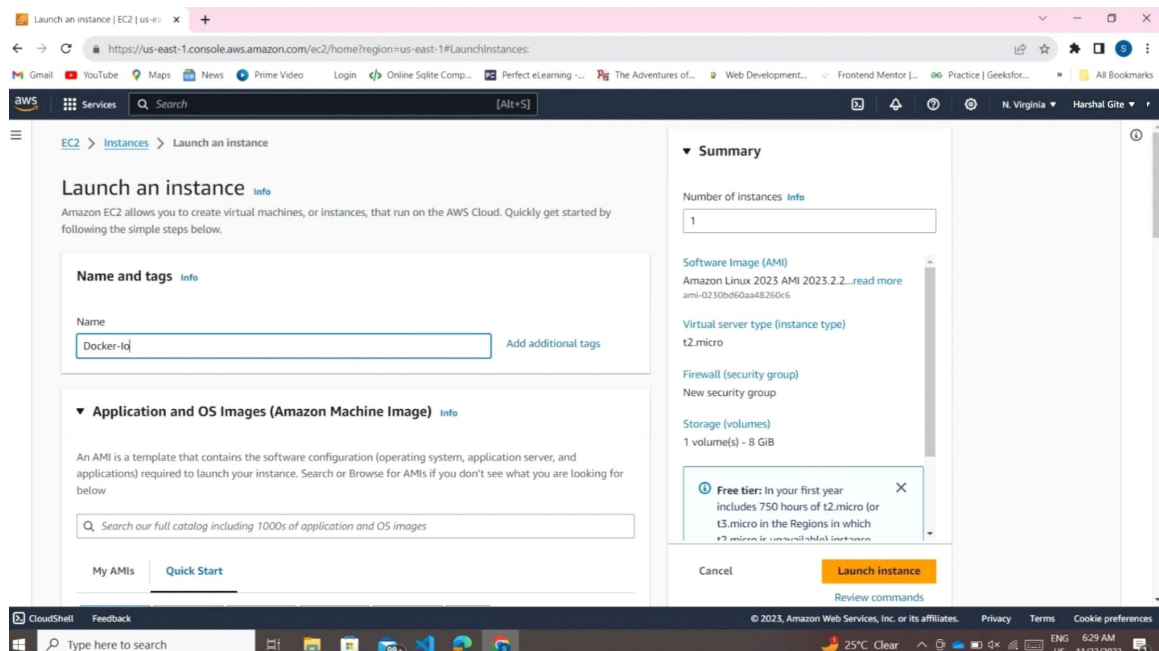
Email- harshalgite888@gmail.com

Tasks:

1. Pull Ubuntu container
2. Run this container and map port 80 on the local
3. Install Apache2 on this container
4. Check if you are able to access the Apache page on your browser

Solution:

Steps:



```
Instances | EC2 | us-east-1 x EC2 Instance Connect | us-east-1 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#/
Gmail YouTube Maps News Prime Video Login Online Sqli Comp... Perfect eLearning... The Adventures of... Web Development... Frontend Mentor L... Practice | Geeksfor... All Bookmarks
AWS Services Search [Alt+S]
et:20 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/multiverse amd64 Packages [41.6 kB]
et:21 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/multiverse Translation-en [9768 B]
et:22 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/multiverse amd64 c-n-f Metadata [472 B]
et:23 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/main amd64 Packages [64.2 kB]
et:24 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/main Translation-en [10.5 kB]
et:25 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/main amd64 c-n-f Metadata [388 B]
et:26 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/restricted amd64 c-n-f Metadata [116 B]
et:27 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 Packages [27.8 kB]
et:28 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/universe Translation-en [16.4 kB]
et:29 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 c-n-f Metadata [644 B]
et:30 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/multiverse amd64 c-n-f Metadata [116 B]
et:31 http://security.ubuntu.com/ubuntu jammy-security/main amd64 Packages [984 kB]
et:32 http://security.ubuntu.com/ubuntu jammy-security/main Translation-en [192 kB]
et:33 http://security.ubuntu.com/ubuntu jammy-security/main amd64 c-n-f Metadata [11.4 kB]
et:34 http://security.ubuntu.com/ubuntu jammy-security/restricted amd64 Packages [1134 kB]
et:35 http://security.ubuntu.com/ubuntu jammy-security/restricted Translation-en [185 kB]
et:36 http://security.ubuntu.com/ubuntu jammy-security/restricted amd64 c-n-f Metadata [520 B]
et:37 http://security.ubuntu.com/ubuntu jammy-security/universe amd64 Packages [797 kB]
et:38 http://security.ubuntu.com/ubuntu jammy-security/universe Translation-en [147 kB]
et:39 http://security.ubuntu.com/ubuntu jammy-security/universe amd64 c-n-f Metadata [16.8 kB]
et:40 http://security.ubuntu.com/ubuntu jammy-security/multiverse amd64 Packages [36.5 kB]
et:41 http://security.ubuntu.com/ubuntu jammy-security/multiverse Translation-en [7060 B]
et:42 http://security.ubuntu.com/ubuntu jammy-security/multiverse amd64 c-n-f Metadata [260 B]
etched 28.4 MB in 5s (5559 kB/s)
Reading package lists... Done
ubuntu@ip-172-31-46-223:~$ sudo apt-get install docker.io
```

i-0e453b36fb1a7be6c (Docker-io)
PublicIPs: 3.90.233.40 PrivateIPs: 172.31.46.223



```
Instances | EC2 | us-east-1 x EC2 Instance Connect | us-east-1 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#/
Gmail YouTube Maps News Prime Video Login Online Sqli Comp... Perfect eLearning... The Adventures of... Web Development... Frontend Mentor L... Practice | Geeksfor... All Bookmarks
AWS Services Search [Alt+S]
Adding group 'docker' (GID 122) ...
Done.
Created symlink /etc/systemd/system/multi-user.target.wants/docker.service -> /lib/systemd/system/docker.service.
Created symlink /etc/systemd/system/sockets.target.wants/docker.socket -> /lib/systemd/system/docker.socket.
Processing triggers for dbus (1.12.20-2ubuntu4.1) ...
Processing triggers for man-db (2.10.2-1) ...
Scanning processes...
Scanning linux images...

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-172-31-46-223:~$ sudo docker pull ubuntu
latest: Pulling from library/ubuntu
aeece493d397: Pull complete
Digest: sha256:2b74126465c37fc5bb21d3e6f1917c167358449fecac8176c6e496e5c1f05f
Status: Downloaded newer image for ubuntu:latest
docker.io/library/ubuntu:latest
ubuntu@ip-172-31-46-223:~$
```

i-0e453b36fb1a7be6c (Docker-io)
PublicIPs: 3.90.233.40 PrivateIPs: 172.31.46.223



```
Instances | EC2 | us-east-1 x EC2 Instance Connect | us-east-1 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#/

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-172-31-46-223:~$ sudo docker pull ubuntu
Using default tag: latest
latest: Pulling from library/ubuntu
ace8493d397: Pull complete
Digest: sha256:2b7412e6465c3c7fc5bb21d3e6f1917c167358449fecac8176c6e496e5c1f05f
Status: Downloaded newer image for ubuntu:latest
docker.io/library/ubuntu:latest
ubuntu@ip-172-31-46-223:~$ sudo docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
ubuntu latest e4c58950101a 6 weeks ago 77.0MB
ubuntu@ip-172-31-46-223:~$ sudo docker run -it -d -p 80:80 ubuntu
3c79e33a51939cf8c47aa3392af1f6dea9826b58c8c81ab8e6c2a040c4d761e9
ubuntu@ip-172-31-46-223:~$ docker ps
permission denied while trying to connect to the Docker daemon socket at unix:///var/run/docker.sock: Get "http://%2Fvar%2Frun%2Fdocker.sock/v1.24/containers/json": dial
unix /var/run/docker.sock: connect: permission denied
ubuntu@ip-172-31-46-223:~$ sudo docker ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
3c79e33a5193 ubuntu "/bin/bash" 55 seconds ago Up 53 seconds 0.0.0.0:80->80/tcp, :::80->80/tcp silly_hawking
ubuntu@ip-172-31-46-223:~$

i-0e453b36fb1a7be6c (Docker-io)
PublicIPs: 3.90.233.40 PrivateIPs: 172.31.46.223

CloudShell Feedback
© 2023, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences
Type here to search
22°C Junnar 7:09 AM 11/22/2023
```

```
Instances | EC2 | us-east-1 x EC2 Instance Connect | us-east-1 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#/

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-172-31-46-223:~$ sudo docker pull ubuntu
Using default tag: latest
latest: Pulling from library/ubuntu
ace8493d397: Pull complete
Digest: sha256:2b7412e6465c3c7fc5bb21d3e6f1917c167358449fecac8176c6e496e5c1f05f
Status: Downloaded newer image for ubuntu:latest
docker.io/library/ubuntu:latest
ubuntu@ip-172-31-46-223:~$ sudo docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
ubuntu latest e4c58950101a 6 weeks ago 77.0MB
ubuntu@ip-172-31-46-223:~$ sudo docker run -it -d -p 80:80 ubuntu
3c79e33a51939cf8c47aa3392af1f6dea9826b58c8c81ab8e6c2a040c4d761e9
ubuntu@ip-172-31-46-223:~$ docker ps
permission denied while trying to connect to the Docker daemon socket at unix:///var/run/docker.sock: Get "http://%2Fvar%2Frun%2Fdocker.sock/v1.24/containers/json": dial
unix /var/run/docker.sock: connect: permission denied
ubuntu@ip-172-31-46-223:~$ sudo docker ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
3c79e33a5193 ubuntu "/bin/bash" 55 seconds ago Up 53 seconds 0.0.0.0:80->80/tcp, :::80->80/tcp silly_hawking
ubuntu@ip-172-31-46-223:~$ sudo docker exec -it 3c79e33a5193 bash
root@3c79e33a5193:/#

i-0e453b36fb1a7be6c (Docker-io)
PublicIPs: 3.90.233.40 PrivateIPs: 172.31.46.223

CloudShell Feedback
© 2023, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences
Type here to search
22°C Junnar 7:15 AM 11/22/2023
```

Instances | EC2 | us-east-1 x EC2 Instance Connect | us-east-1 x +

https://us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-0e453b36fb1a7be6c&osUser=ubuntu®ion=us-east-1&sshPort=22#/?

Enabling module status.
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 (2.35-0ubuntu3.4) ...
Processing triggers for ca-certificates (20230311ubuntu0.22.04.1) ...
Updating certificates in /etc/ssl/certs...
0 added, 0 removed; done.
Running hooks in /etc/ca-certificates/update.d...
done.
root@i-0e453b36fb1a7be6c:~# service apache2 status
* apache2 is not running
root@i-0e453b36fb1a7be6c:~# 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@i-0e453b36fb1a7be6c:~# service apache2 status
* apache2 is running
root@i-0e453b36fb1a7be6c:~#

i-0e453b36fb1a7be6c (Docker-10)
PublicIPs: 3.90.233.40 PrivateIPs: 172.31.46.223

CloudShell Feedback © 2023, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences

Type here to search 22°C Junnar 7:17 AM 11/22/2023

Instances | EC2 | us-east-1 x EC2 Instance Connect | us-east-1 x Apache2 Ubuntu Default Page: x +

Not secure | http://3.90.233.40

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
```

Type here to search 22°C Junnar 7:18 AM 11/22/2023

