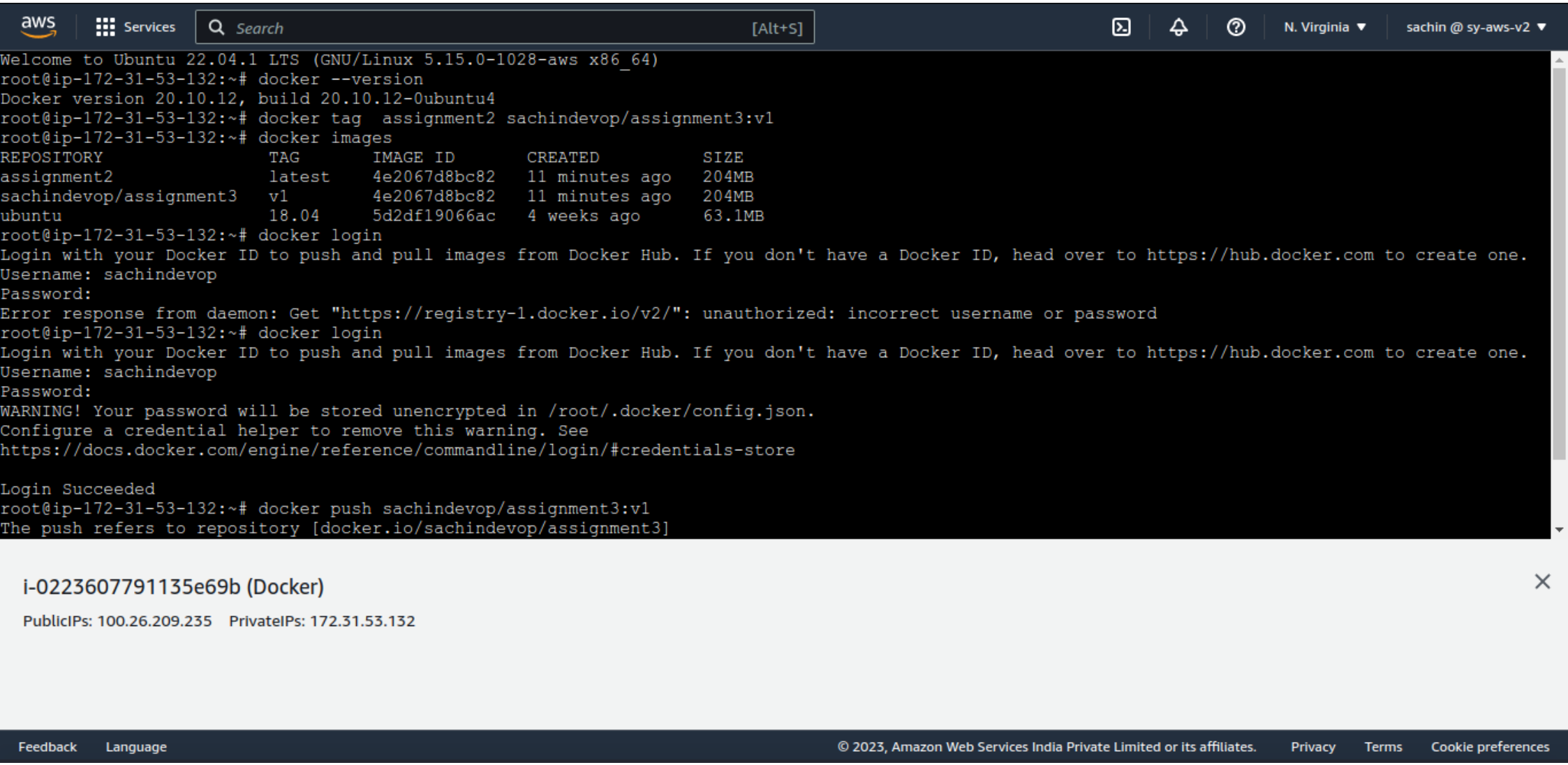
Module-3: Docker – I Assignment - 3

You have been asked to:

- Use the saved image in the previous assignment
- Upload this image on Dockerhub
- On a separate machine pull this dockerhub image, and launch it on port 80
- Start the apache2 service
- Verify if you are able to see the apache2 service


aws
Services
Search
[Alt+S]
N. Virginia
sachin @ sy-aws-v2
Welcome to Ubuntu 22.04.1 LTS (GNU/Linux 5.15.0-1028-aws x86_64)
root@ip-172-31-53-132:~# docker --version
Docker version 20.10.12, build 20.10.12-0ubuntu4
root@ip-172-31-53-132:~# docker tag assignment2 sachindevop/assignment3:v1
root@ip-172-31-53-132:~# docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
assignment2 latest 4e2067d8bc82 11 minutes ago 204MB
sachindevop/assignment3 v1 4e2067d8bc82 11 minutes ago 204MB
ubuntu 18.04 5d2df19066ac 4 weeks ago 63.1MB
root@ip-172-31-53-132:~# 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: sachindevop
Password:
Error response from daemon: Get "https://registry-1.docker.io/v2/": unauthorized: incorrect username or password
root@ip-172-31-53-132:~# 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: sachindevop
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
root@ip-172-31-53-132:~# docker push sachindevop/assignment3:v1
The push refers to repository [docker.io/sachindevop/assignment3]
i-0223607791135e69b (Docker)
PublicIPs: 100.26.209.235 PrivateIPs: 172.31.53.132
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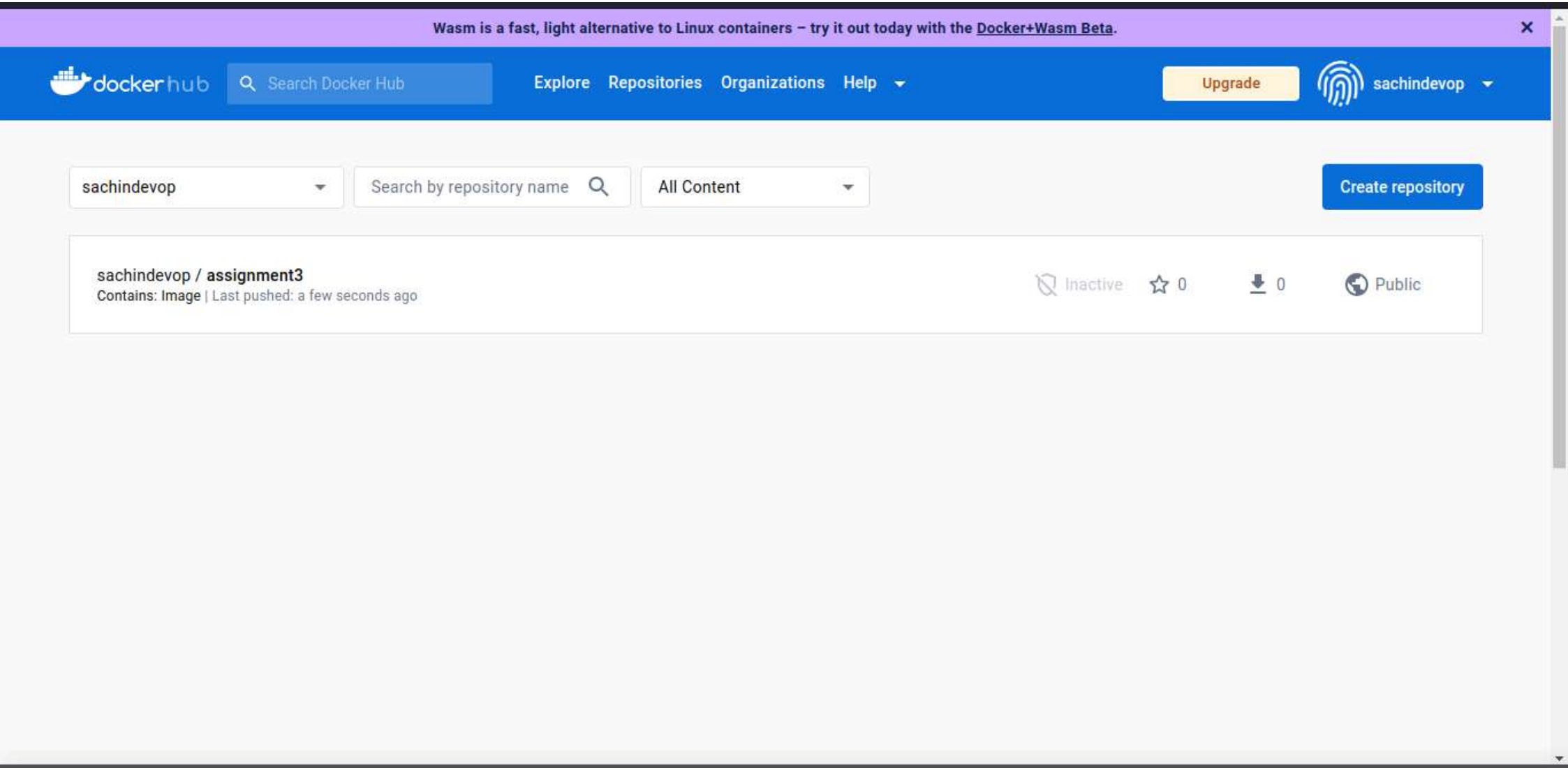
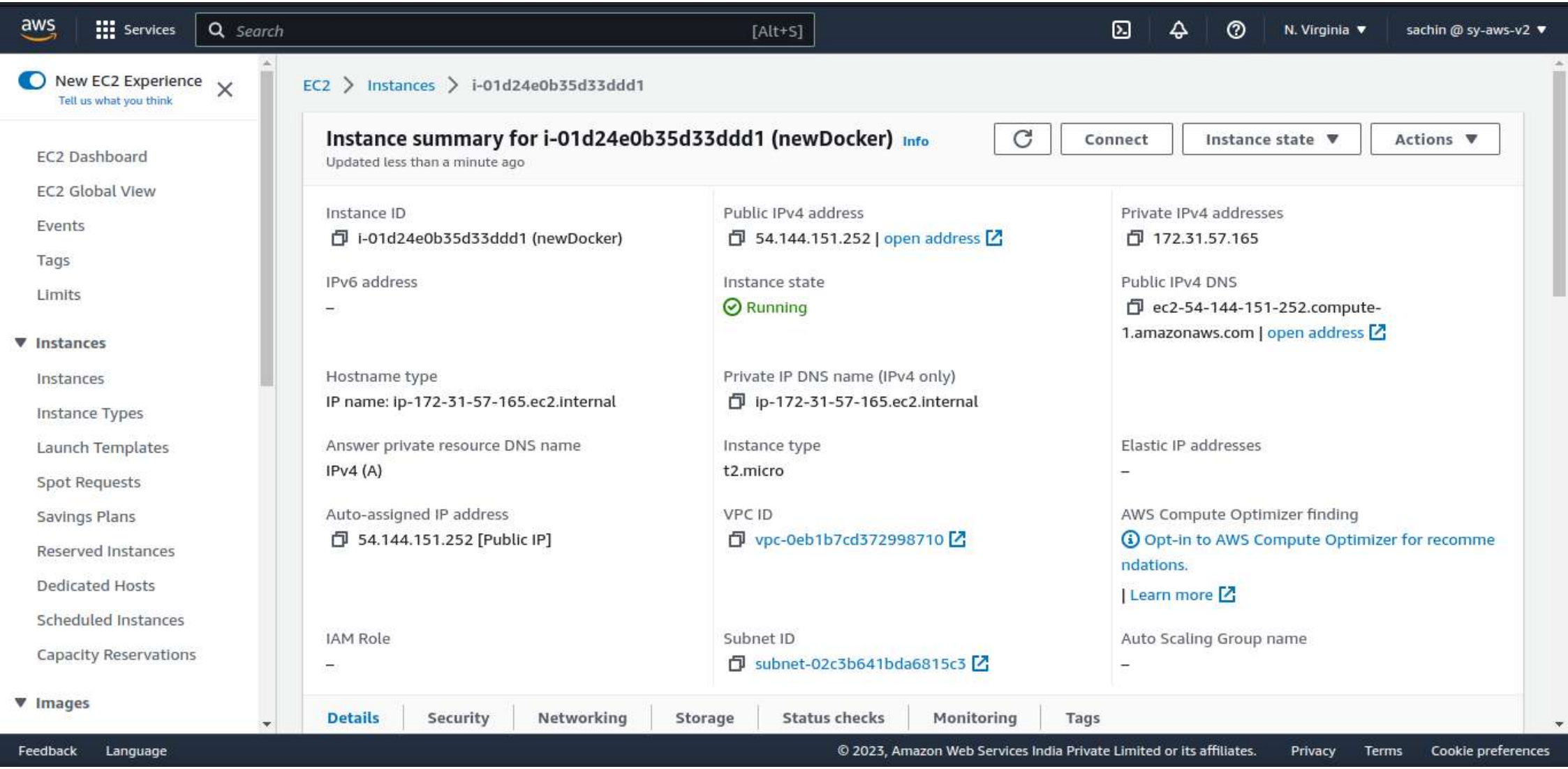
```
root@ip-172-31-53-132:~# docker login
Login with your Docker ID to push and pull images from Docker Hub. If you don't have a Docker ID, head over to https://hub.docker.com to create one.
Username: sachindevop
Password:
WARNING! Your password will be stored unencrypted in /root/.docker/config.json.
Configure a credential helper to remove this warning. See
https://docs.docker.com/engine/reference/commandline/login/#credentials-store

Login Succeeded
root@ip-172-31-53-132:~# docker push sachindevop/assignment3:v1
The push refers to repository [docker.io/sachindevop/assignment3]
2733af7bb870: Pushed
475a54c2a93d: Mounted from library/ubuntu
v1: digest: sha256:35d35d515bad06faa57ead072182e9ebd35b9954b3e9ba9ce9c184a92f9fffc0 size: 741
root@ip-172-31-53-132:~#
```

i-0223607791135e69b (Docker)

PublicIPs: 100.26.209.235 PrivateIPs: 172.31.53.132


Wasm is a fast, light alternative to Linux containers – try it out today with the Docker+Wasm Beta.
dockerhub
Search Docker Hub
Explore
Repositories
Organizations
Help
Upgrade
sachindevop
sachindevop
Search by repository name
All Content
Create repository
sachindevop / assignment3
Contains: Image | Last pushed: a few seconds ago
Inactive
0
0
Public


aws
Services
Search
[Alt+S]
N. Virginia
sachin @ sy-aws-v2
New EC2 Experience
Tell us what you think
EC2 Dashboard
EC2 Global View
Events
Tags
Limits
Instances
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Scheduled Instances
Capacity Reservations
Images
EC2 > Instances > i-01d24e0b35d33ddd1
Instance summary for i-01d24e0b35d33ddd1 (newDocker) Info
Updated less than a minute ago
Connect
Instance state
Actions
Instance ID
i-01d24e0b35d33ddd1 (newDocker)
IPv6 address
–
Hostname type
IP name: ip-172-31-57-165.ec2.internal
Answer private resource DNS name
IPv4 (A)
Auto-assigned IP address
54.144.151.252 [Public IP]
IAM Role
–
Public IPv4 address
54.144.151.252 | open address
Instance state
Running
Private IP DNS name (IPv4 only)
ip-172-31-57-165.ec2.internal
Instance type
t2.micro
VPC ID
vpc-0eb1b7cd372998710
Subnet ID
subnet-02c3b641bda6815c3
Private IPv4 addresses
172.31.57.165
Public IPv4 DNS
ec2-54-144-151-252.compute-1.amazonaws.com | open address
Elastic IP addresses
–
AWS Compute Optimizer finding
Opt-in to AWS Compute Optimizer for recommendations.
| Learn more
Auto Scaling Group name
–
Details
Security
Networking
Storage
Status checks
Monitoring
Tags
Feedback
Language
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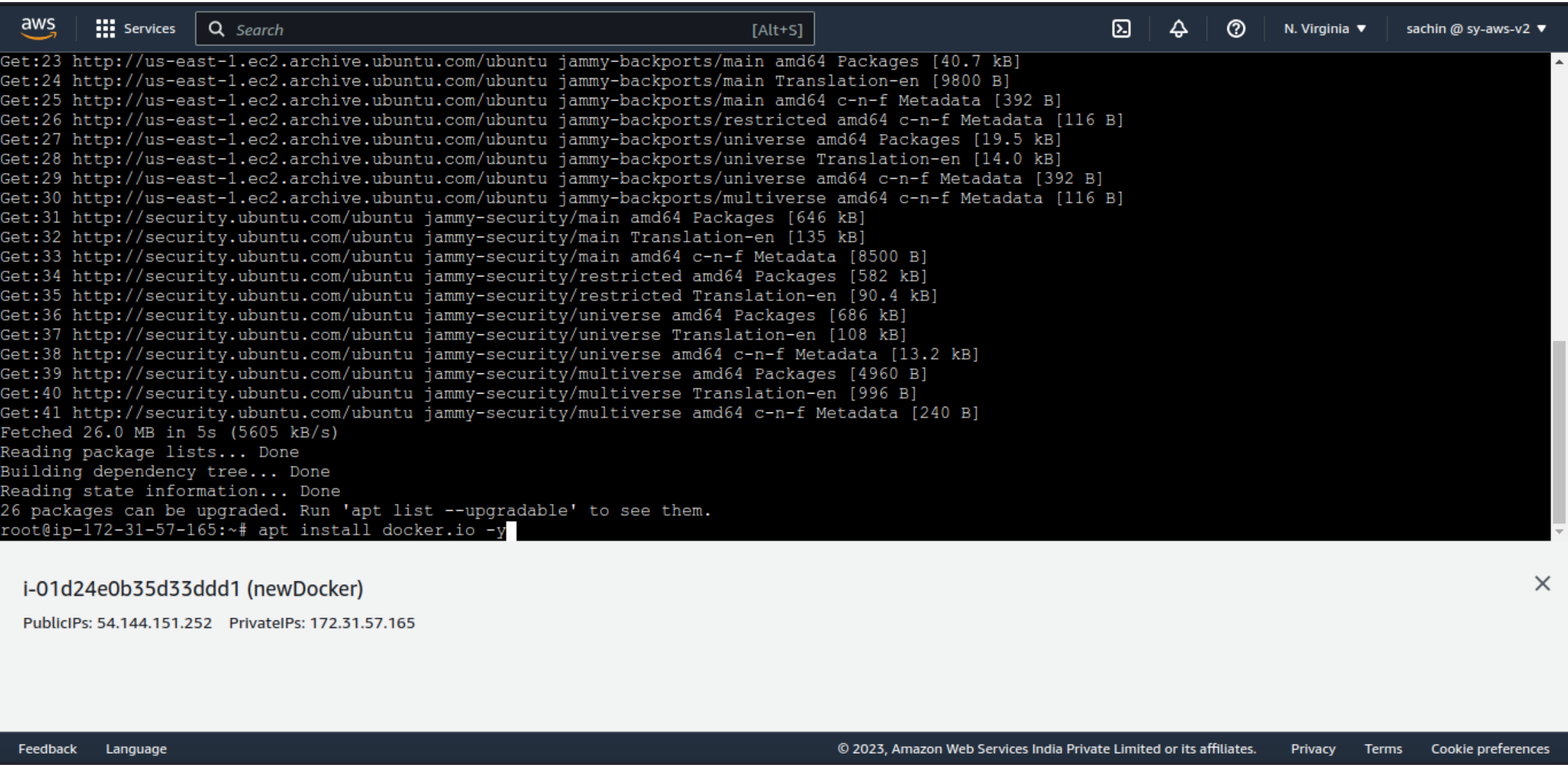
aws
Services
Search
[Alt+S]
N. Virginia
sachin @ sy-aws-v2
Get:23 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/main amd64 Packages [40.7 kB]
Get:24 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/main Translation-en [9800 B]
Get:25 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/main amd64 c-n-f Metadata [392 B]
Get:26 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/restricted amd64 c-n-f Metadata [116 B]
Get:27 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 Packages [19.5 kB]
Get:28 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/universe Translation-en [14.0 kB]
Get:29 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 c-n-f Metadata [392 B]
Get:30 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/multiverse amd64 c-n-f Metadata [116 B]
Get:31 http://security.ubuntu.com/ubuntu jammy-security/main amd64 Packages [646 kB]
Get:32 http://security.ubuntu.com/ubuntu jammy-security/main Translation-en [135 kB]
Get:33 http://security.ubuntu.com/ubuntu jammy-security/main amd64 c-n-f Metadata [8500 B]
Get:34 http://security.ubuntu.com/ubuntu jammy-security/restricted amd64 Packages [582 kB]
Get:35 http://security.ubuntu.com/ubuntu jammy-security/restricted Translation-en [90.4 kB]
Get:36 http://security.ubuntu.com/ubuntu jammy-security/universe amd64 Packages [686 kB]
Get:37 http://security.ubuntu.com/ubuntu jammy-security/universe Translation-en [108 kB]
Get:38 http://security.ubuntu.com/ubuntu jammy-security/universe amd64 c-n-f Metadata [13.2 kB]
Get:39 http://security.ubuntu.com/ubuntu jammy-security/multiverse amd64 Packages [4960 B]
Get:40 http://security.ubuntu.com/ubuntu jammy-security/multiverse Translation-en [996 B]
Get:41 http://security.ubuntu.com/ubuntu jammy-security/multiverse amd64 c-n-f Metadata [240 B]
Fetched 26.0 MB in 5s (5605 kB/s)
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
26 packages can be upgraded. Run 'apt list --upgradable' to see them.
root@ip-172-31-57-165:~# apt install docker.io -y
i-01d24e0b35d33ddd1 (newDocker)
PublicIPs: 54.144.151.252 PrivateIPs: 172.31.57.165
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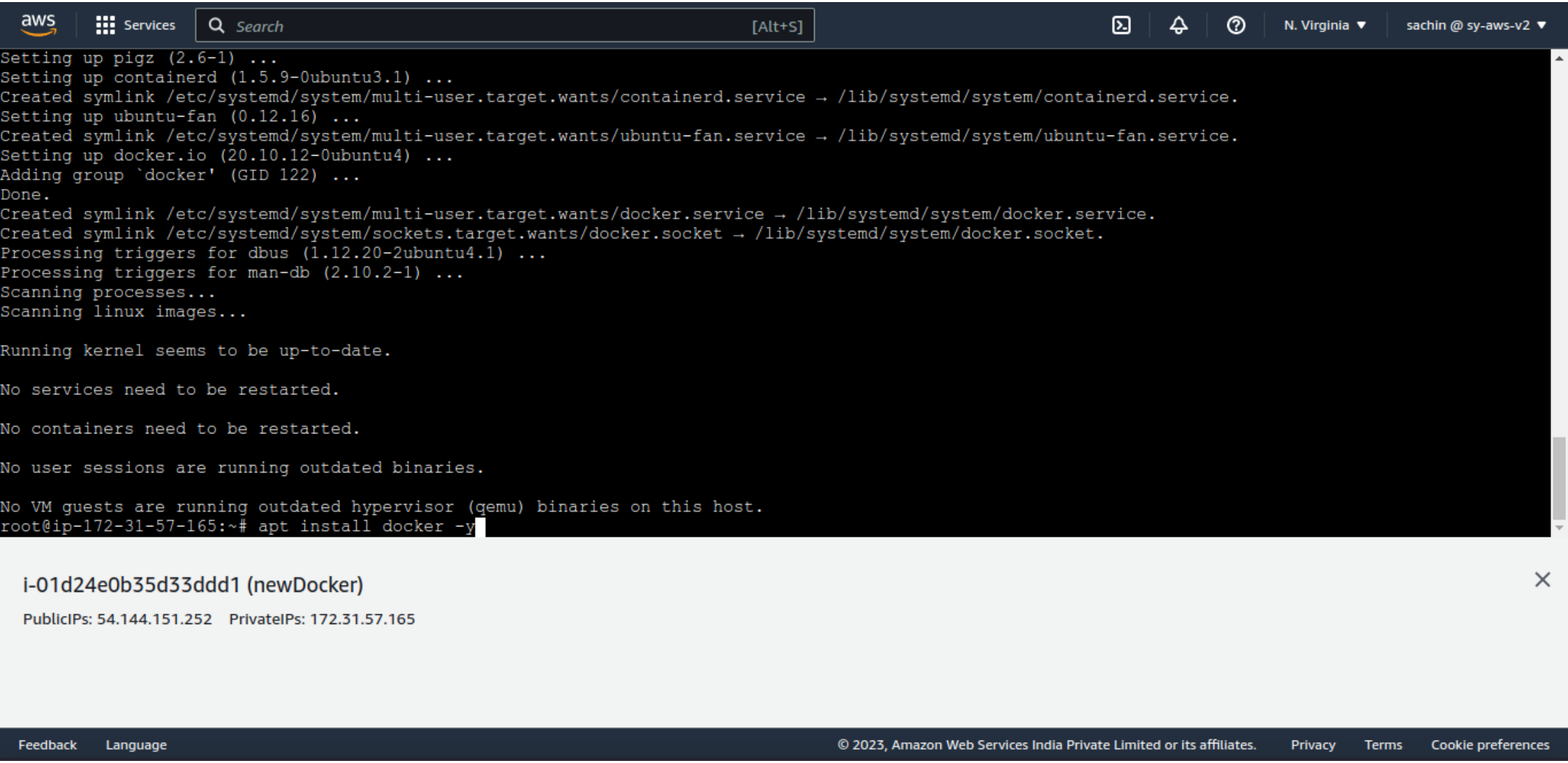
aws
Services
Search
[Alt+S]
N. Virginia
sachin @ sy-aws-v2
Setting up pigz (2.6-1) ...
Setting up containerd (1.5.9-0ubuntu3.1) ...
Created symlink /etc/systemd/system/multi-user.target.wants/containerd.service → /lib/systemd/system/containerd.service.
Setting up ubuntu-fan (0.12.16) ...
Created symlink /etc/systemd/system/multi-user.target.wants/ubuntu-fan.service → /lib/systemd/system/ubuntu-fan.service.
Setting up docker.io (20.10.12-0ubuntu4) ...
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.
root@ip-172-31-57-165:~# apt install docker -y
i-01d24e0b35d33ddd1 (newDocker)
PublicIPs: 54.144.151.252 PrivateIPs: 172.31.57.165
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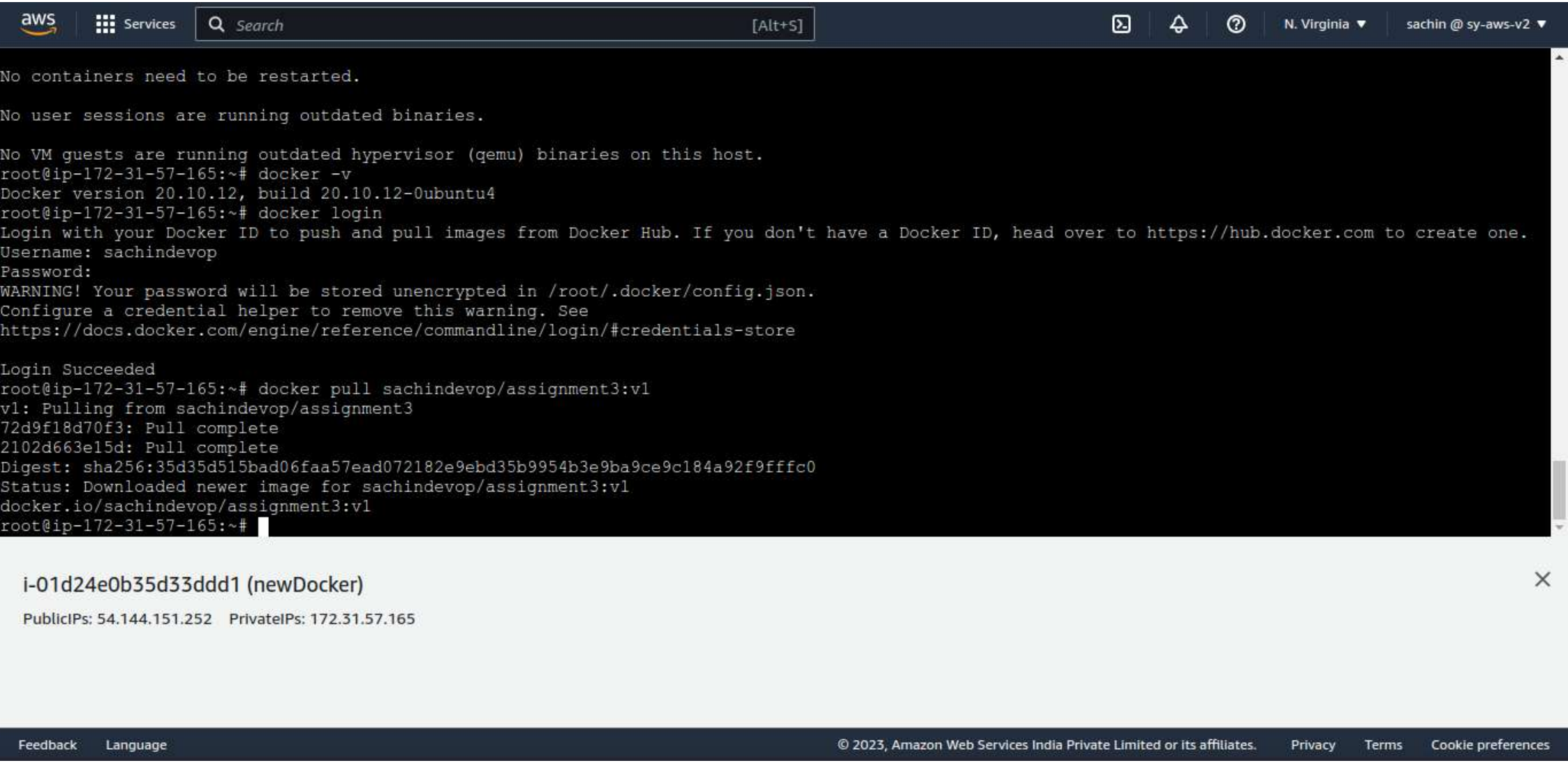
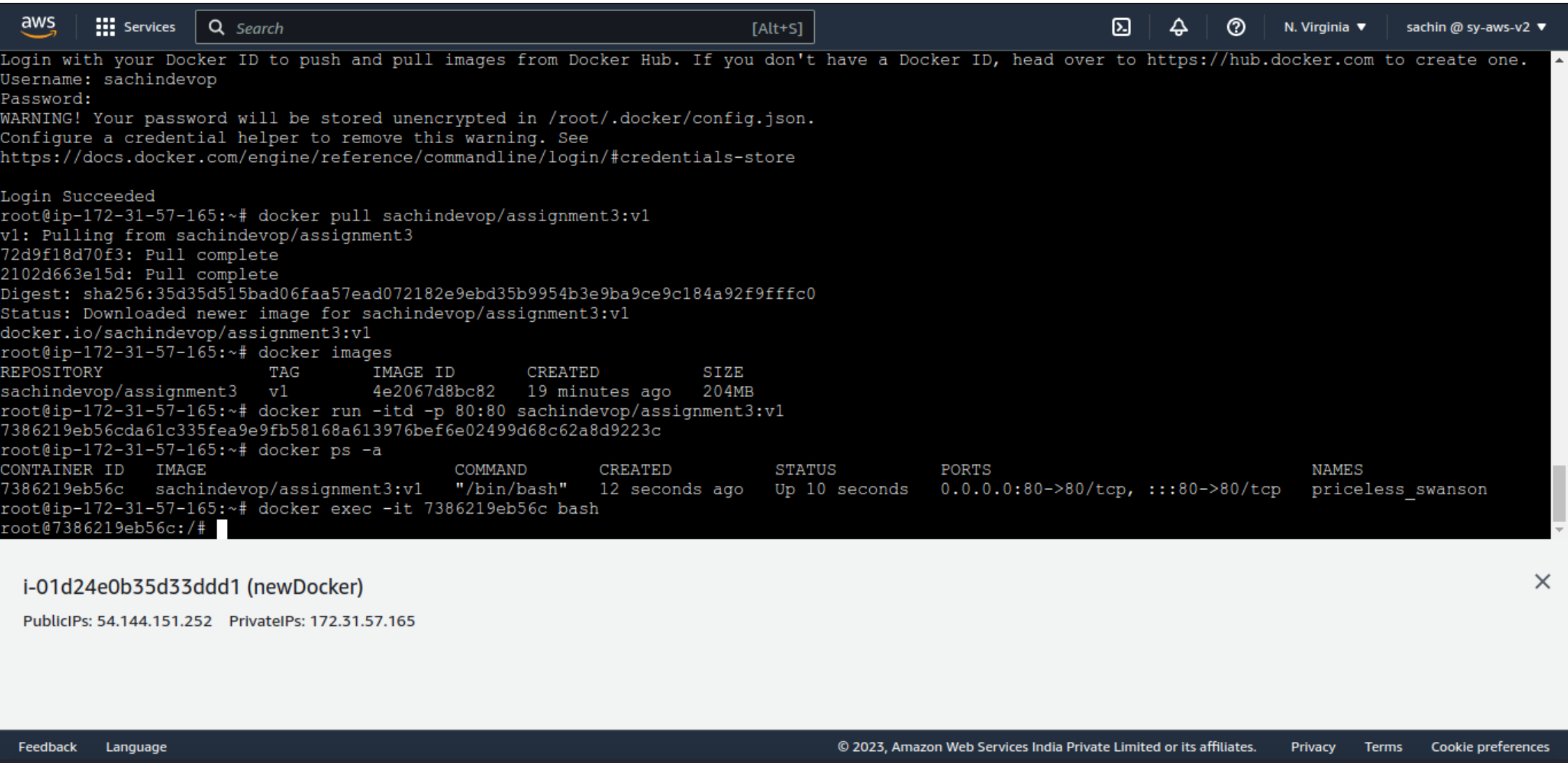


i-01d24e0b35d33ddd1 (newDocker)

PublicIPs: 54.144.151.252 PrivateIPs: 172.31.57.165


aws
Services
Search
[Alt+S]
N. Virginia
sachin @ sy-aws-v2
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: sachindevop
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
root@ip-172-31-57-165:~# docker pull sachindevop/assignment3:v1
v1: Pulling from sachindevop/assignment3
72d9f18d70f3: Pull complete
2102d663e15d: Pull complete
Digest: sha256:35d35d515bad06faa57ead072182e9ebd35b9954b3e9ba9ce9c184a92f9fffc0
Status: Downloaded newer image for sachindevop/assignment3:v1
docker.io/sachindevop/assignment3:v1
root@ip-172-31-57-165:~# docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
sachindevop/assignment3 v1 4e2067d8bc82 19 minutes ago 204MB
root@ip-172-31-57-165:~# docker run -itd -p 80:80 sachindevop/assignment3:v1
7386219eb56cda61c335fea9e9fb58168a613976bef6e02499d68c62a8d9223c
root@ip-172-31-57-165:~# docker ps -a
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
7386219eb56c sachindevop/assignment3:v1 "/bin/bash" 12 seconds ago Up 10 seconds 0.0.0.0:80->80/tcp, :::80->80/tcp priceless_swanson
root@ip-172-31-57-165:~# docker exec -it 7386219eb56c bash
root@7386219eb56c:/#
i-01d24e0b35d33ddd1 (newDocker)
PublicIPs: 54.144.151.252 PrivateIPs: 172.31.57.165
Feedback
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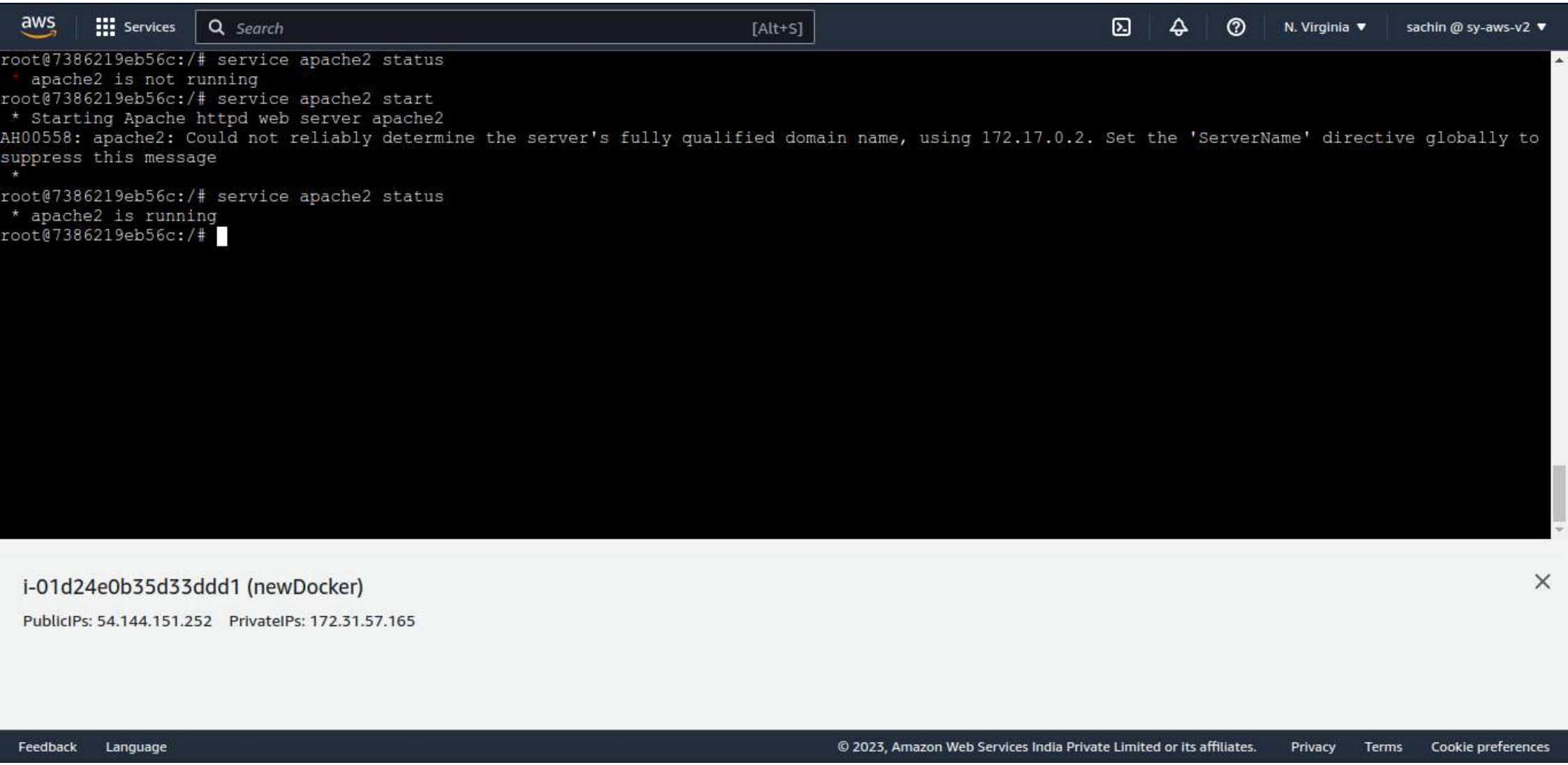
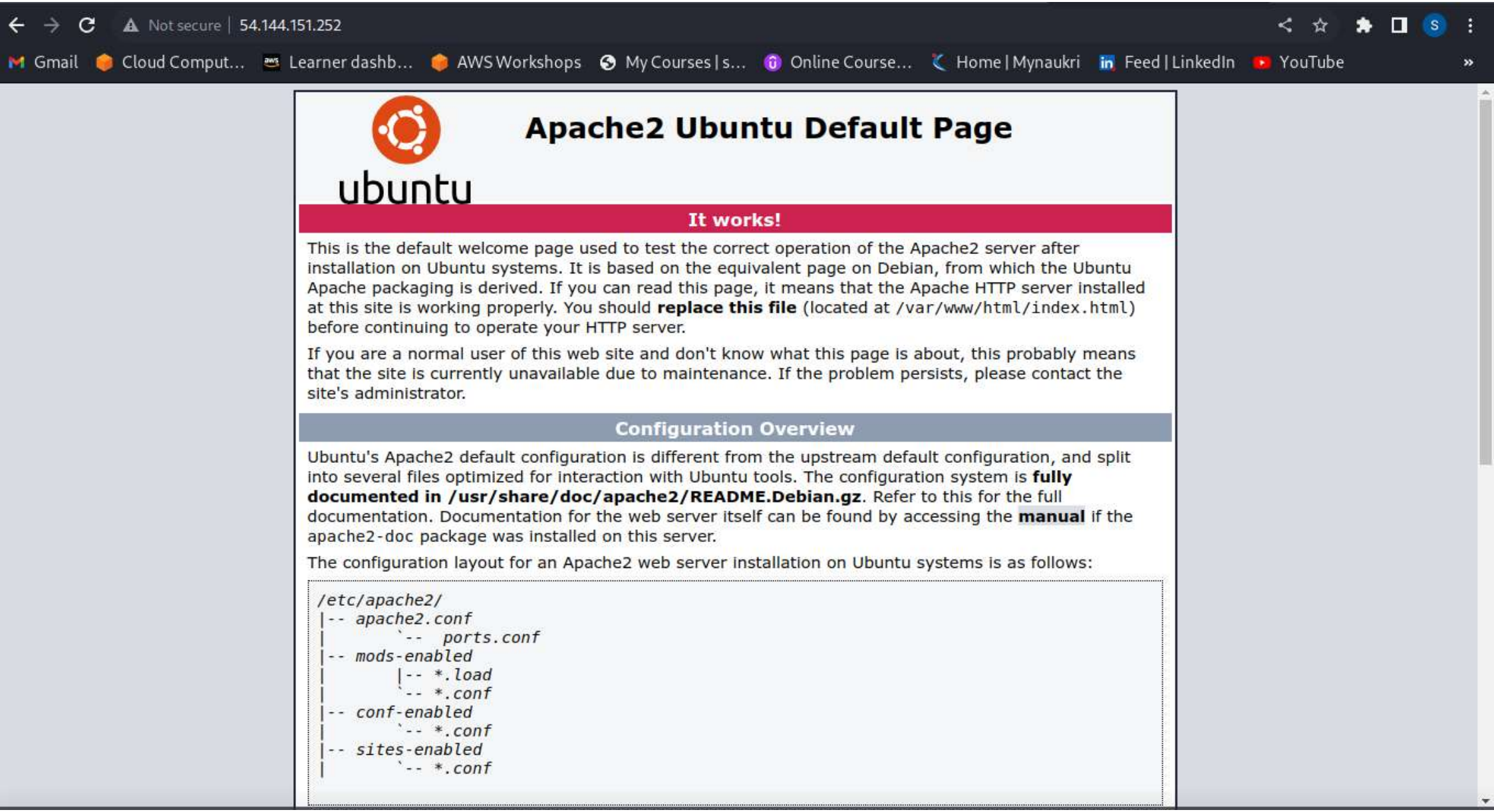


i-01d24e0b35d33ddd1 (newDocker)

PublicIPs: 54.144.151.252 PrivateIPs: 172.31.57.165


Not secure | 54.144.151.252
Gmail
Cloud Comput...
Learner dashb...
AWS Workshops
My Courses | s...
Online Course...
Home | Mynaukri
Feed | LinkedIn
YouTube
Apache2 Ubuntu 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