

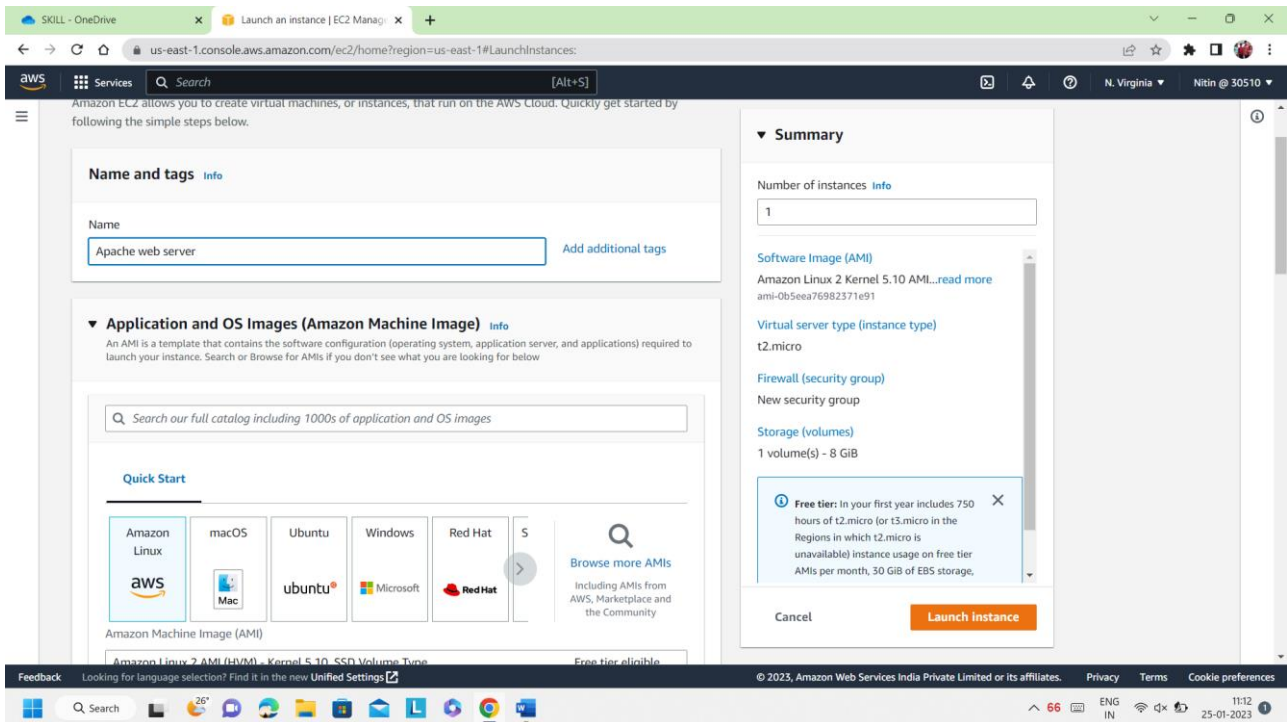
CSC-LAB-01

Name: K.Nitin reddy

Id:2000030510

Sec:13

Creating First Linux Instance and hosting an Apache web Server



us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#LaunchInstances:

Services Search [Alt+S]

No preference Create new subnet

Auto-assign public IP [Info](#)
Enable

Firewall (security groups) [Info](#)
A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.

Create security group Select existing security group

Security group name - *required*
Apache web server SG
This security group will be added to all network interfaces. The name can't be edited after the security group is created. Max length is 255 characters. Valid characters: a-z, A-Z, 0-9, spaces, and _-./[!@#%&'()*+,-:;]{0,25}

Description - *required* [Info](#)
security group for my web server

Inbound security groups rules

Security group rule 1 (TCP, 22, 0.0.0.0/0) Remove

Type [Info](#) Protocol [Info](#) Port range [Info](#)
ssh TCP 22

Source type [Info](#) Source [Info](#) Description - *optional* [Info](#)
Anywhere Add CIDR, prefix list or security e.g. SSH for admin desktop
0.0.0.0/0

Summary

Number of instances [Info](#)
1

Software Image (AMI)
Amazon Linux 2 Kernel 5.10 AMI...[read more](#)
ami-0b5eea76982371e91

Virtual server type (instance type)
t2.micro

Firewall (security group)
New security group

Storage (volumes)
1 volume(s) - 8 GiB

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 30 GiB of EBS storage.

Cancel Launch Instance

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60 ENG IN 11:36 25-01-2023

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#LaunchInstances:

Services Search [Alt+S]

Launch an instance | EC2 Manag

Metadata accessible [Info](#)
Enabled

Metadata version [Info](#)
Select

Metadata response hop limit [Info](#)
Select

Allow tags in metadata [Info](#)
Disable

User data [Info](#)
#!/bin/bash
sudo yum install httpd -y
sudo service httpd start
echo '<html><h1>Welcome to Apache Web Server!</h1></html>' >
/var/www/html/index.html

Summary

Number of instances [Info](#)
1

Software Image (AMI)
Amazon Linux 2 Kernel 5.10 AMI...[read more](#)
ami-0b5eea76982371e91

Virtual server type (instance type)
t2.micro

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1 volume(s) - 8 GiB

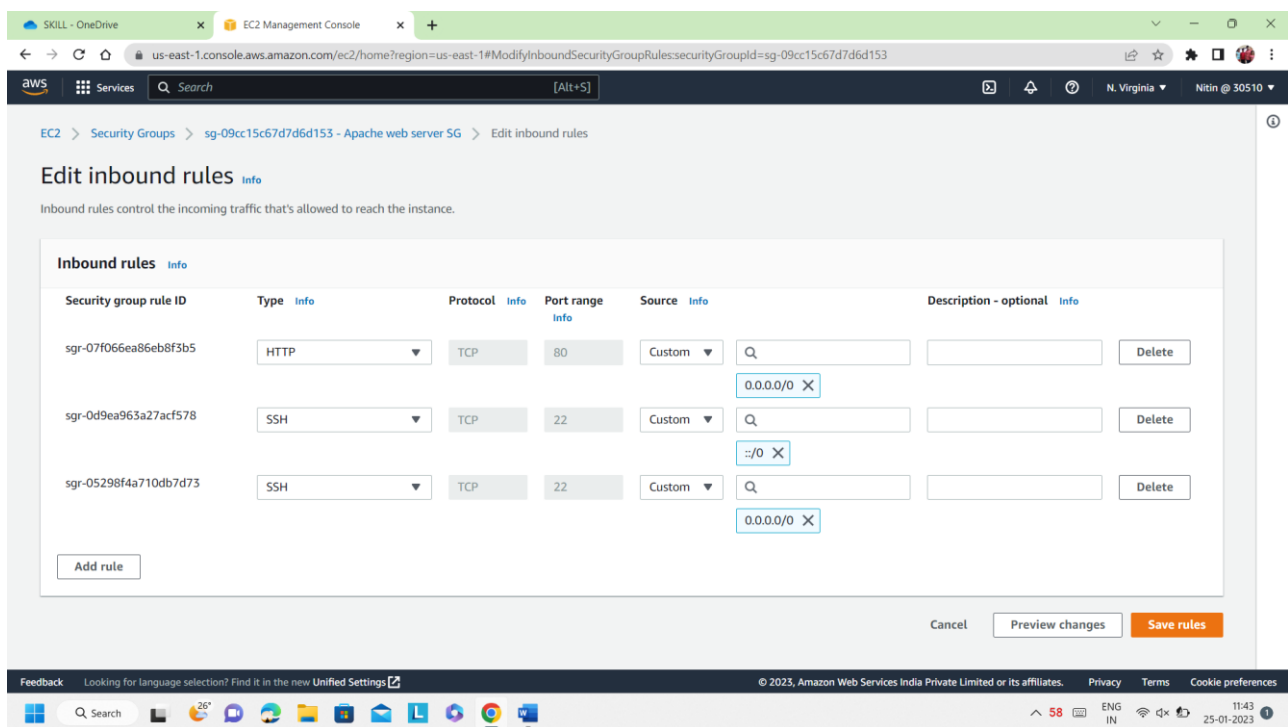
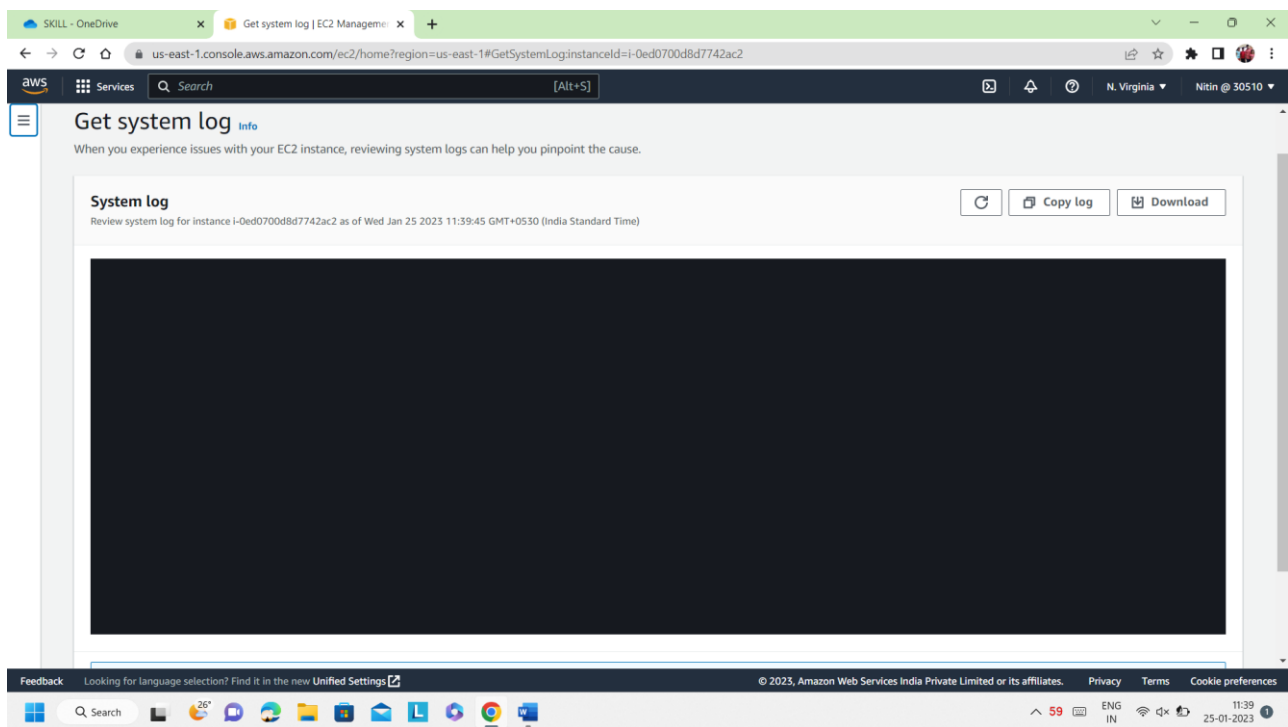
Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 30 GiB of EBS storage.

Cancel Launch Instance

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SKILL - OneDrive x Get system log | EC2 Managem... x

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#GetSystemLog:instanceId=i-Oed0700d8d7742ac2




Services Search [Alt+S]

Get system log

When you experience issues with your EC2 instance, reviewing system logs can help you pinpoint the cause.

System log

Review system log for instance i-Oed0700d8d7742ac2 as of Wed Jan 25 2023 11:42:27 GMT+0530 (India Standard Time)

```
[ 36.149075] cloud-init[3275]: Jan 25 06:08:29 cloud-init[3275]: util.py[WARNING]: Failed running /var/lib/cloud/instance/scripts/part-001 [1]
ci-info: | ssh-rsa | b6:0e:29:65:56:b1:43:12:18:7c:ce:d2:ff:2b:9d:7c | - | csc |
[ 36.161623] cloud-init[3275]: Jan 25 06:08:29 cloud-init[3275]: cc_scripts_user.py[WARNING]: Failed to run module scripts-user (scripts in /var/lib/cloud/instance/scripts
ci-info: +-----+
[ 36.179091] cloud-init[3275]: Jan 25 06:08:29 cloud-init[3275]: util.py[WARNING]: Running module scripts-user (<module 'cloudinit.config.cc_scripts_user' from '/usr/lib/
<14>Jan 25 06:08:29 ec2:
<14>Jan 25 06:08:29 ec2: #####
<14>Jan 25 06:08:29 ec2: -----BEGIN SSH HOST KEY FINGERPRINTS-----
<14>Jan 25 06:08:29 ec2: 256 SHA256:Jj0VS1Xww8/Vz+n2dg9DQ7QIurwy1FHakG5f34kej1U no comment (ECDSA)
<14>Jan 25 06:08:29 ec2: 256 SHA256:cY3P3BxpsV8kMk1Vn6IBV5Q23Cd1pKZzvKuccOBPFs no comment (ED25519)
<14>Jan 25 06:08:29 ec2: 2048 SHA256:EfK1Vj18zQk02dwpovGmSbkHziSa1aBqFLF9kjsQQ no comment (RSA)
<14>Jan 25 06:08:29 ec2: -----END SSH HOST KEY FINGERPRINTS-----
<14>Jan 25 06:08:29 ec2: #####
-----BEGIN SSH HOST KEY KEYS-----
ecdsa-sha2-nistp256 AAAAE2VjZHNhLXNoYTItbmlzdHh0YTYAAAAIbm1zdHh0YTYAAABBBokaDFBQEmoMztT1UfIkl+Tl1fw/9rEmGZBJUzDF8BU3dlyTYQxVrp1d3NlgLY3TXS8R8HvDK7UR5x/QF6iCg=
ssh-ed25519 AAAAC3NzaC1lZD11NTE5AAAAIcwQgnSR1Q4AJ0sIWj42KvF2j+bq1+Bn9R1kxksd
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQDNUSuc4anPMjBdxCKXPS0mTt9ougaMVEPWfDnv/cKXYTHQopIe3JzLC7DKv1ZqNFMRXdyVKnUBZCgSfQj2V98QMlfuP65adKcmHUVJ6h5CCKKqdySnyL0go8AB3UWkbyir
-----END SSH HOST KEY KEYS-----
[ 36.303262] cloud-init[3275]: Cloud-init v. 19.3-46.amzn2 finished at Wed, 25 Jan 2023 06:08:30 +0000. Datasource DataSourceEc2. Up 36.29 seconds
```

For host or networking issues, use the EC2 serial console for troubleshooting. Choose the Connect button to start a session.

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SKILL - OneDrive x Connect to instance | EC2 Manag... x EC2 Instance Connect x 54.165.78.10 x

us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-1&connType=standard&instanceId=i-Oed0700d8d7742ac2&osUser=ec2-user&sshPort=22#

Services Search [Alt+S]

EC2 Instance Connect

Loaded plugins: extras_suggestions, langpacks, priorities, update-motd

amzn2-core | 3.7 kB 00:00:00

```
--> Resolving Dependencies
--> Running transaction check
--> Package httpd.x86_64 0:2.4.54-1.amzn2 will be installed
--> Processing Dependency: httpd-tools = 2.4.54-1.amzn2 for package: httpd-2.4.54-1.amzn2.x86_64
--> Processing Dependency: httpd-filesystem = 2.4.54-1.amzn2 for package: httpd-2.4.54-1.amzn2.x86_64
--> Processing Dependency: system-logos-httpd for package: httpd-2.4.54-1.amzn2.x86_64
--> Processing Dependency: mod_http2 for package: httpd-2.4.54-1.amzn2.x86_64
--> Processing Dependency: httpd-filesystem for package: httpd-2.4.54-1.amzn2.x86_64
--> Processing Dependency: /etc/mime.types for package: httpd-2.4.54-1.amzn2.x86_64
--> Processing Dependency: libaprutil-1.so.0() (64bit) for package: httpd-2.4.54-1.amzn2.x86_64
--> Processing Dependency: libapr-1.so.0() (64bit) for package: httpd-2.4.54-1.amzn2.x86_64
--> Running transaction check
--> Package apr.x86_64 0:1.7.0-9.amzn2 will be installed
--> Package apr-util.x86_64 0:1.6.1-5.amzn2.0.2 will be installed
--> Processing Dependency: apr-util-bdb(x86-64) = 1.6.1-5.amzn2.0.2 for package: apr-util-1.6.1-5.amzn2.0.2.x86_64
--> Package generic-logos-httpd.noarch 0:18.0.0-4.amzn2 will be installed
--> Package httpd-filesystem.noarch 0:2.4.54-1.amzn2 will be installed
--> Package httpd-tools.x86_64 0:2.4.54-1.amzn2 will be installed
--> Package mailcap.noarch 0:2.1.41-2.amzn2 will be installed
--> Package mod_http2.x86_64 0:1.15.19-1.amzn2.0.1 will be installed
--> Running transaction check
--> Package apr-util-bdb.x86_64 0:1.6.1-5.amzn2.0.2 will be installed
--> Finished Dependency Resolution

Dependencies Resolved
```

i-Oed0700d8d7742ac2 (Apache web server)

PublicIPs: 54.165.78.10 PrivateIPs: 172.31.53.177

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SKILL - OneDrive

Connect to instance | EC2 Manag

EC2 Instance Connect

54.165.78.10

+

us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-1&connType=standard&instanceId=i-0ed0700d8d7742ac2&osUser=ec2-user&sshPort=22#/

Services

Search

[Alt+S]

N. Virginia

Nitin @ 30510

Installing : httpd filesystem-2.4.54-1.amzn2.noarch 5/9

Installing : generic-logos-httpd-18.0.0-4.amzn2.noarch 6/9

Installing : mailcap-2.1.41-2.amzn2.noarch 7/9

Installing : mod_http2-1.15.19-1.amzn2.0.1.x86_64 8/9

Installing : httpd-2.4.54-1.amzn2.x86_64 9/9

Verifying : apr-util-1.6.1-5.amzn2.0.2.x86_64 1/9

Verifying : apr-util-bdb-1.6.1-5.amzn2.0.2.x86_64 2/9

Verifying : httpd-tools-2.4.54-1.amzn2.x86_64 3/9

Verifying : mod_http2-1.15.19-1.amzn2.0.1.x86_64 4/9

Verifying : httpd-2.4.54-1.amzn2.x86_64 5/9

Verifying : mailcap-2.1.41-2.amzn2.noarch 6/9

Verifying : generic-logos-httpd-18.0.0-4.amzn2.noarch 7/9

Verifying : httpd filesystem-2.4.54-1.amzn2.noarch 8/9

Verifying : apr-1.7.0-9.amzn2.x86_64 9/9

Installed:
httpd.x86_64 0:2.4.54-1.amzn2

Dependency Installed:
apr.x86_64 0:1.7.0-9.amzn2 apr-util.x86_64 0:1.6.1-5.amzn2.0.2 apr-util-bdb.x86_64 0:1.6.1-5.amzn2.0.2 generic-logos-httpd.noarch 0:18.0.0-4.amzn2
httpd filesystem.noarch 0:2.4.54-1.amzn2 httpd-tools.x86_64 0:2.4.54-1.amzn2 mailcap.noarch 0:2.1.41-2.amzn2 mod_http2.x86_64 0:1.15.19-1.amzn2.0.1

Complete!

[root@ip-172-31-53-177 ec2-user]# sudo service httpd start

Redirecting to /bin/systemctl start httpd.service

[root@ip-172-31-53-177 ec2-user]# cd /var/www/html

[root@ip-172-31-53-177 html]# nano index.html

[root@ip-172-31-53-177 html]#

i-0ed0700d8d7742ac2 (Apache web server)

PublicIPs: 54.165.78.10 PrivateIPs: 172.31.53.177

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Search

26°

57

ENG IN

11:46

25-01-2023

SKILL - OneDrive

Connect to instance | EC2 Manag

EC2 Instance Connect

54.165.78.10

+

Not secure | 54.165.78.10

Welcome to Apache Web Server!

Windows Taskbar

Search

26°

57

ENG IN

11:47

25-01-2023

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Instances:

Successfully stopped i-0ed0700d8d7742ac2

Instances (1/4) info

Find instance by attribute or tag (case-sensitive)

	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS
<input type="checkbox"/>	web server	i-0869a57317c653683	Terminated	t2.micro	-	No alarms	us-east-1b	-
<input type="checkbox"/>	Apache web se...	i-06063388ef37d1045	Terminated	t2.micro	-	No alarms	us-east-1e	-
<input checked="" type="checkbox"/>	Apache web se...	i-0ed0700d8d7742ac2	Stopping	t2.micro	2/2 checks passed	No alarms	us-east-1e	ec2-54-165-78-10.c
<input type="checkbox"/>	aws web server	i-0c787cd7c57496a9b	Terminated	t2.micro	-	No alarms	us-east-1e	-

Instance: i-0ed0700d8d7742ac2 (Apache web server)

Details Security Networking Storage Status checks Monitoring Tags

Instance summary info

Instance ID Public IPv4 address Private IPv4 addresses

Feedback Looking for language selection? Find it in the new Unified Settings

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11:48 25-01-2023

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Instances:

Successfully stopped i-0ed0700d8d7742ac2

Instances (1/4) info

Find instance by attribute or tag (case-sensitive)

	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS
<input type="checkbox"/>	web server	i-0869a57317c653683	Terminated	t2.micro	-	No alarms	us-east-1b	-
<input type="checkbox"/>	Apache web se...	i-06063388ef37d1045	Terminated	t2.micro	-	No alarms	us-east-1e	-
<input checked="" type="checkbox"/>	Apache web se...	i-0ed0700d8d7742ac2	Stopped	t2.micro	-	No alarms	us-east-1e	-
<input type="checkbox"/>	aws web server	i-0c787cd7c57496a9b	Terminated	t2.micro	-	No alarms	us-east-1e	-

Instance: i-0ed0700d8d7742ac2 (Apache web server)

Details Security Networking Storage Status checks Monitoring Tags

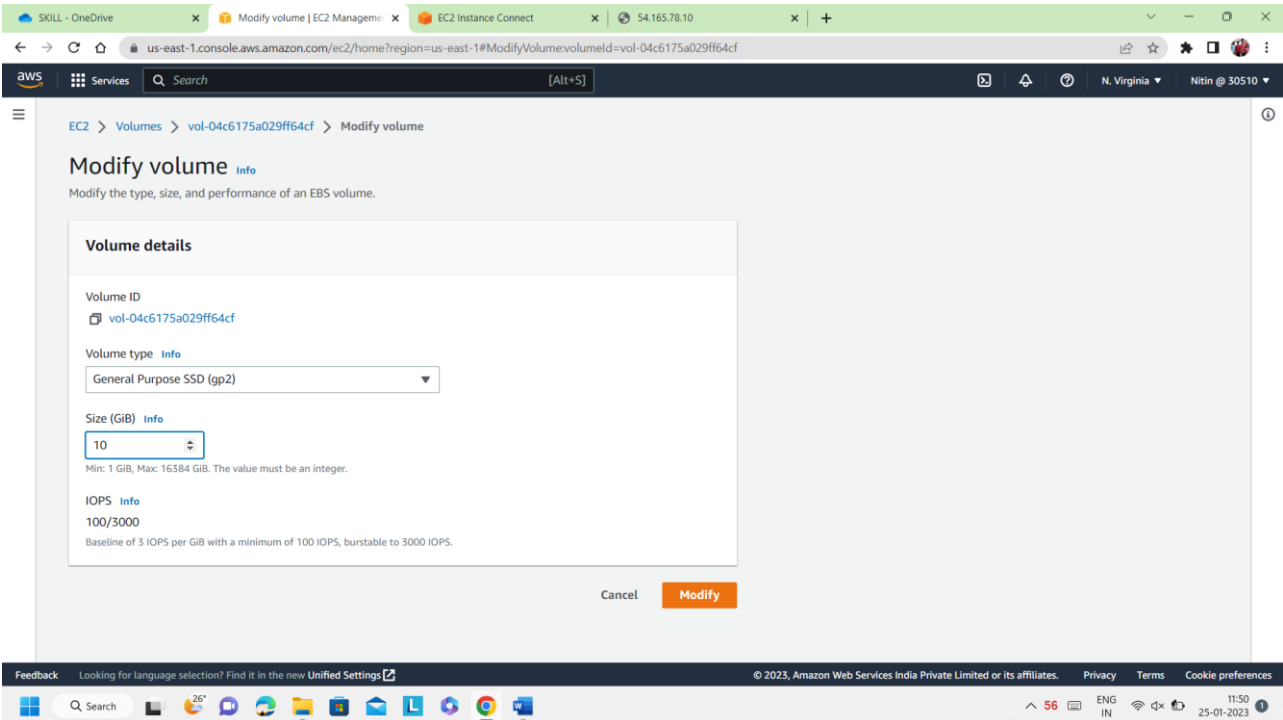
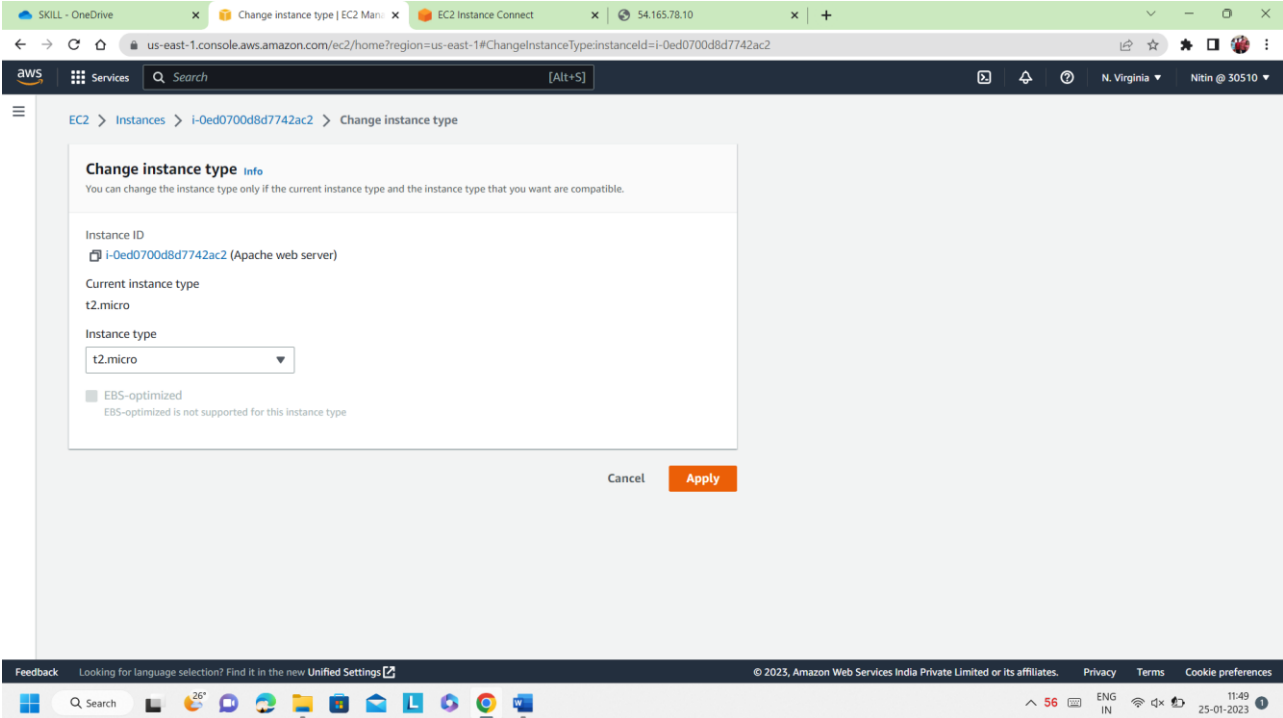
Instance summary info

Instance ID Public IPv4 address Private IPv4 addresses

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11:49 25-01-2023



us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Instances:v=3;\$case=tags:true%5C,client:false;\$regex=tags:false%5C,client:false

Instance type changed successfully

Instances (1/4) info

Find instance by attribute or tag (case-sensitive)

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS
web server	i-0869a57317c653683	Terminated	t2.micro	-	No alarms	us-east-1b	-
Apache web se...	i-06063388ef37d1045	Terminated	t2.micro	-	No alarms	us-east-1e	-
Apache web se...	i-0ed0700d8d7742ac2	Terminated	t2.micro	-	No alarms	us-east-1e	-
aws web server	i-0c787cd7c57496a9b	Terminated	t2.micro	-	No alarms	us-east-1e	-

Terminate instance?

On an EBS-backed instance, the default action is for the root EBS volume to be deleted when the instance is terminated. Storage on any local drives will be lost.

Are you sure you want to terminate these instances?

☒ i-0ed0700d8d7742ac2 (Apache web server)

To confirm that you want to terminate the instances, choose the terminate button below. Terminating the instance cannot be undone.

Cancel Terminate

Instance: i-0ed0700d8d7742ac2 (Apache web server)

Details Security Networking Storage Status checks Monitoring Tags

Instance summary info

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us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Instances:v=3;\$case=tags:true%5C,client:false;\$regex=tags:false%5C,client:false

Successfully terminated i-0ed0700d8d7742ac2

Instance type changed successfully

Instances (4/4) info

Find instance by attribute or tag (case-sensitive)

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS
web server	i-0869a57317c653683	Terminated	t2.micro	-	No alarms	us-east-1b	-
Apache web se...	i-06063388ef37d1045	Terminated	t2.micro	-	No alarms	us-east-1e	-
Apache web se...	i-0ed0700d8d7742ac2	Terminated	t2.micro	-	No alarms	us-east-1e	-
aws web server	i-0c787cd7c57496a9b	Terminated	t2.micro	-	No alarms	us-east-1e	-

Instances: i-0ed0700d8d7742ac2 (Apache web server), i-0869a57317c653683 (web server), i-06063388ef37d1045 (Apache web server), i-0c787cd7c57496a9b (aws web server)

Monitoring

1h 3h 12h 1d 3d 1w Custom Add to dashboard

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