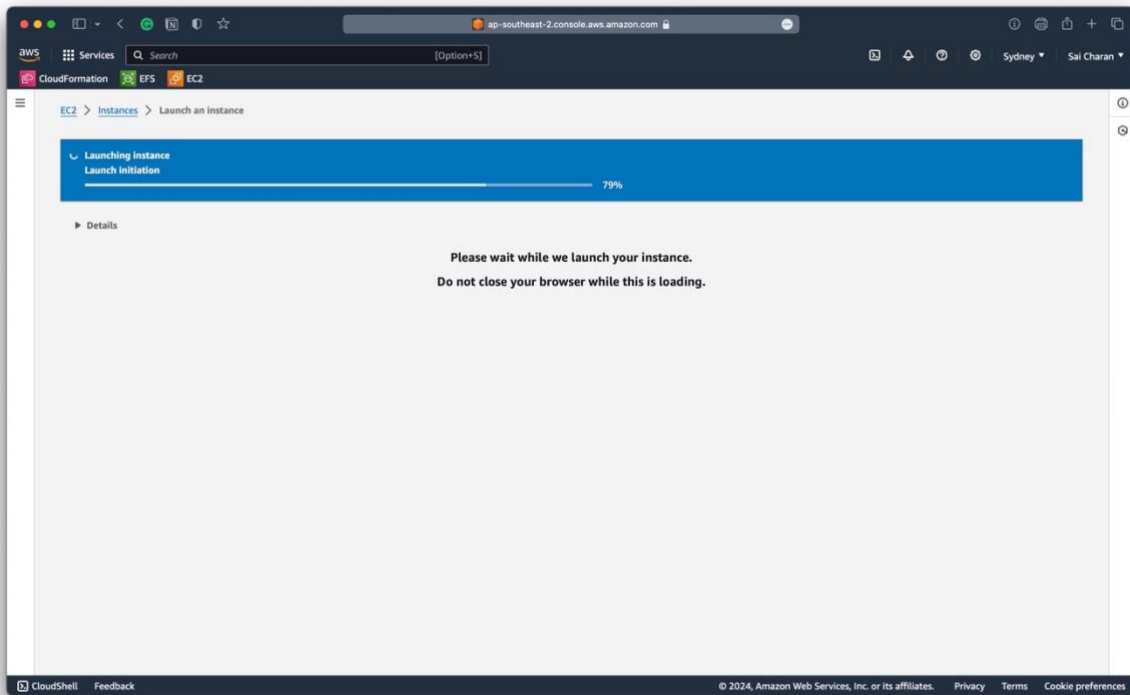
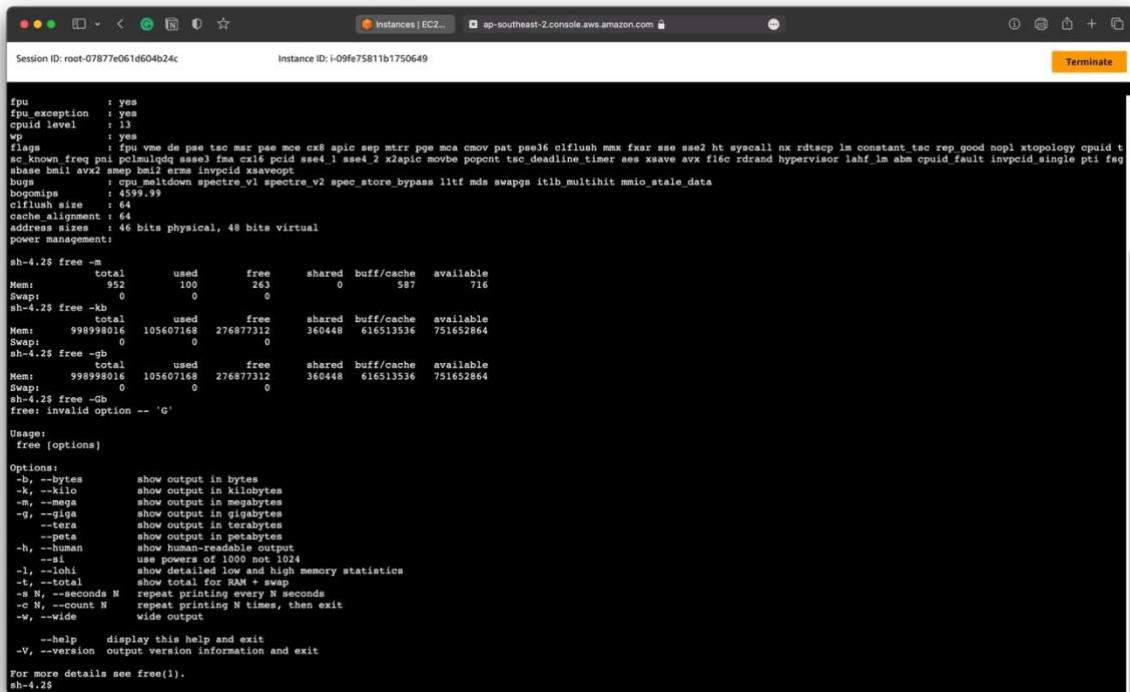


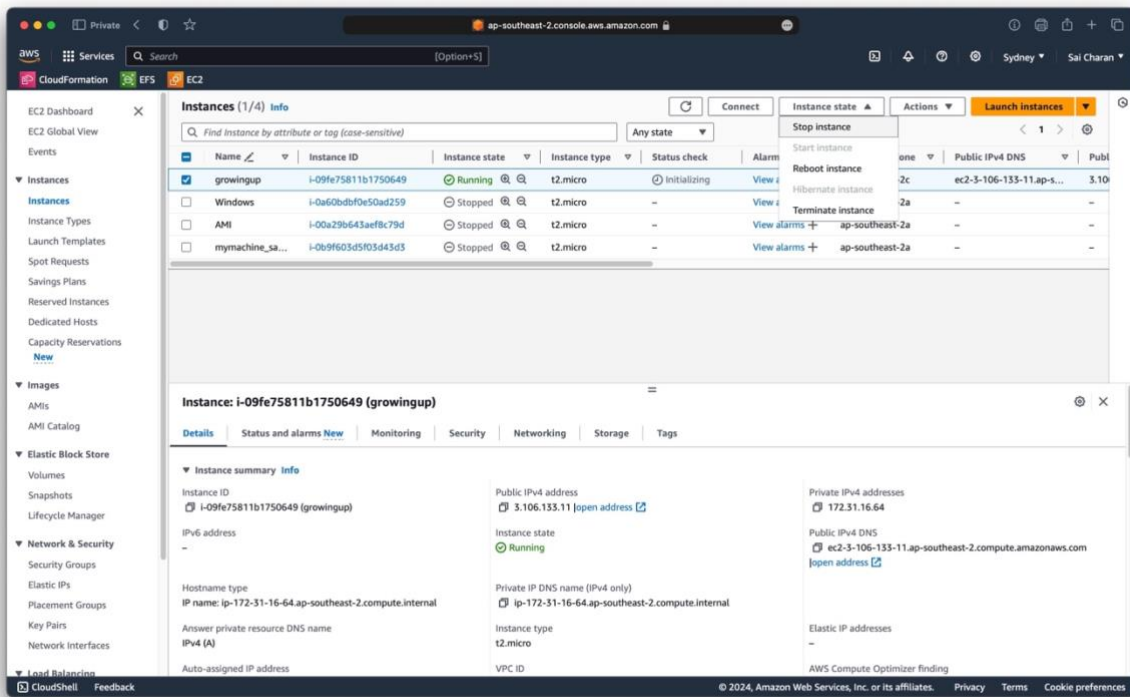
Launching the Instance:



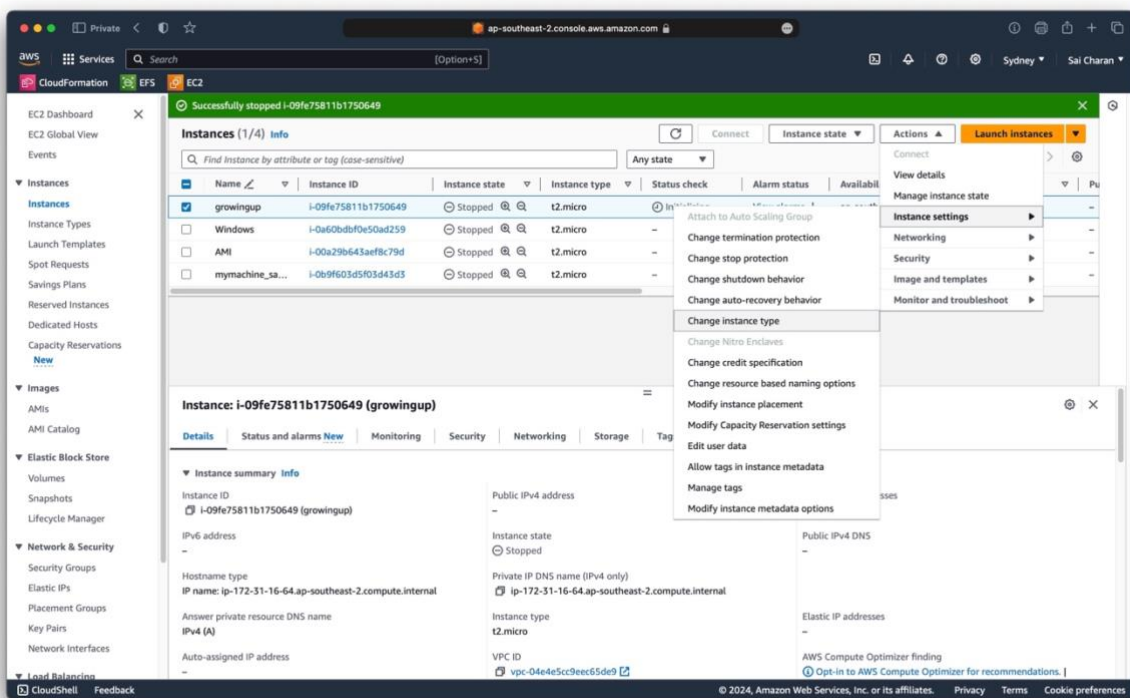
Checking the Instance status with “ Echo “ and cat /proc/cpuinfo



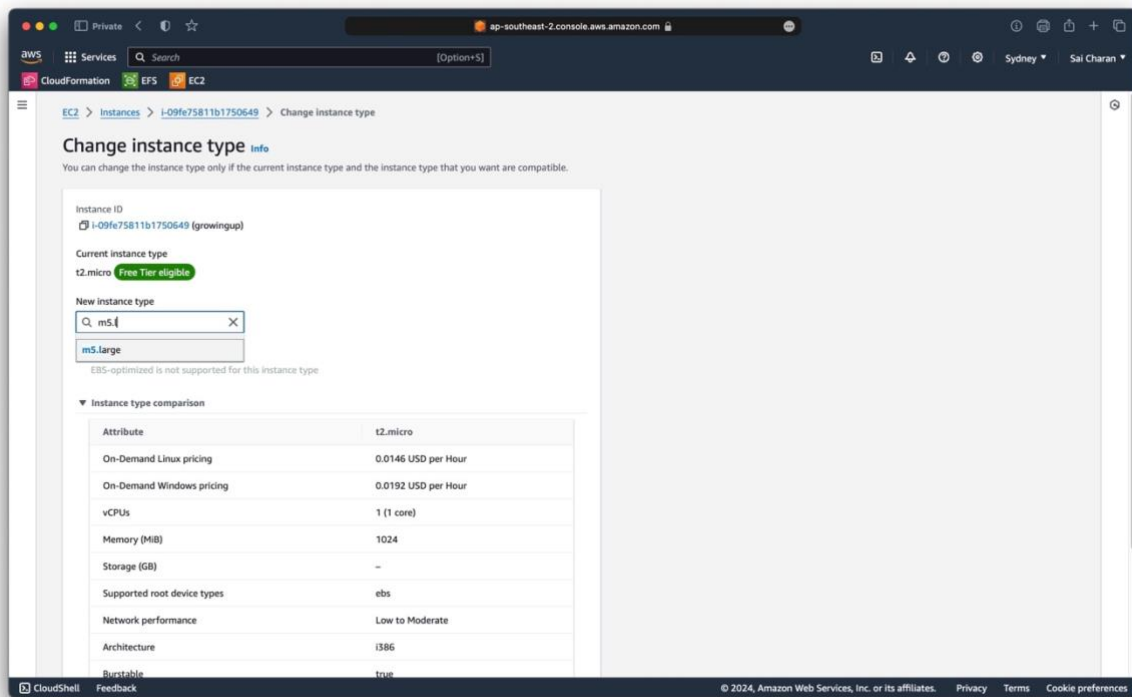
Stopping the Instance



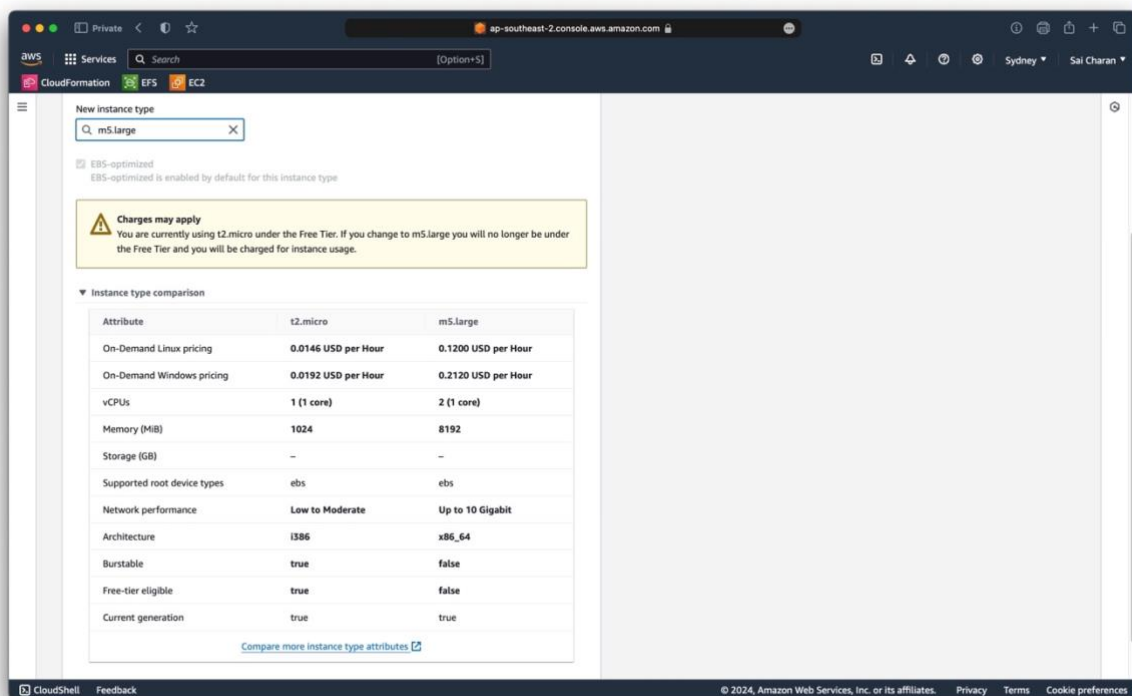
Changing the instance type:



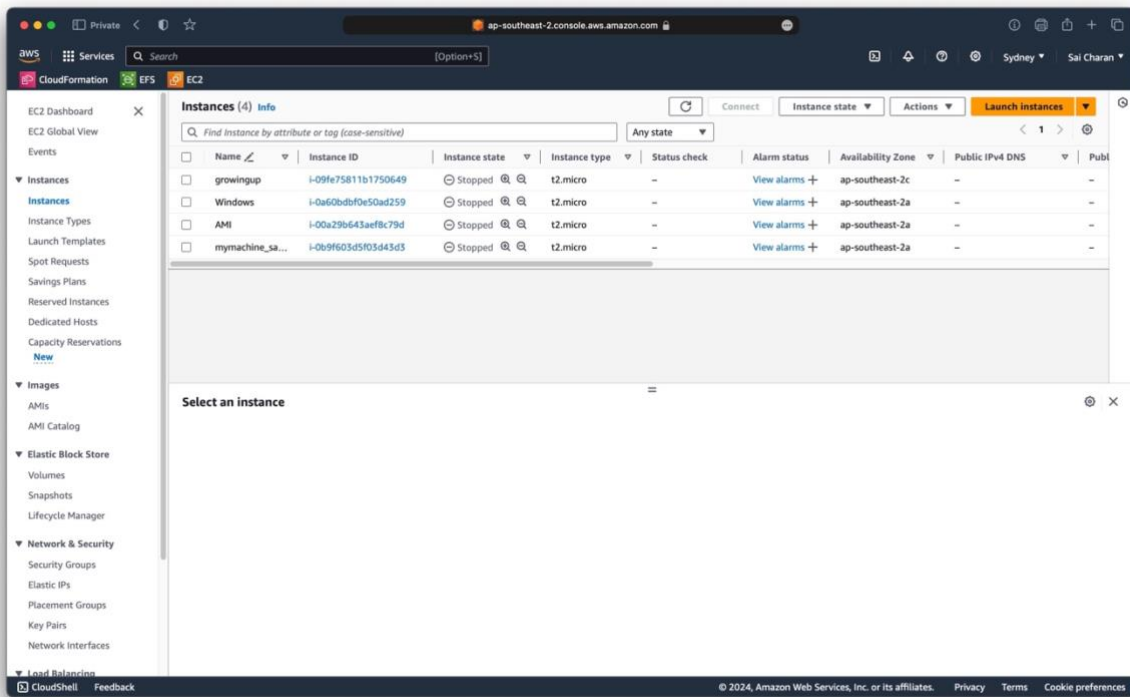
Choosing the m5.large:



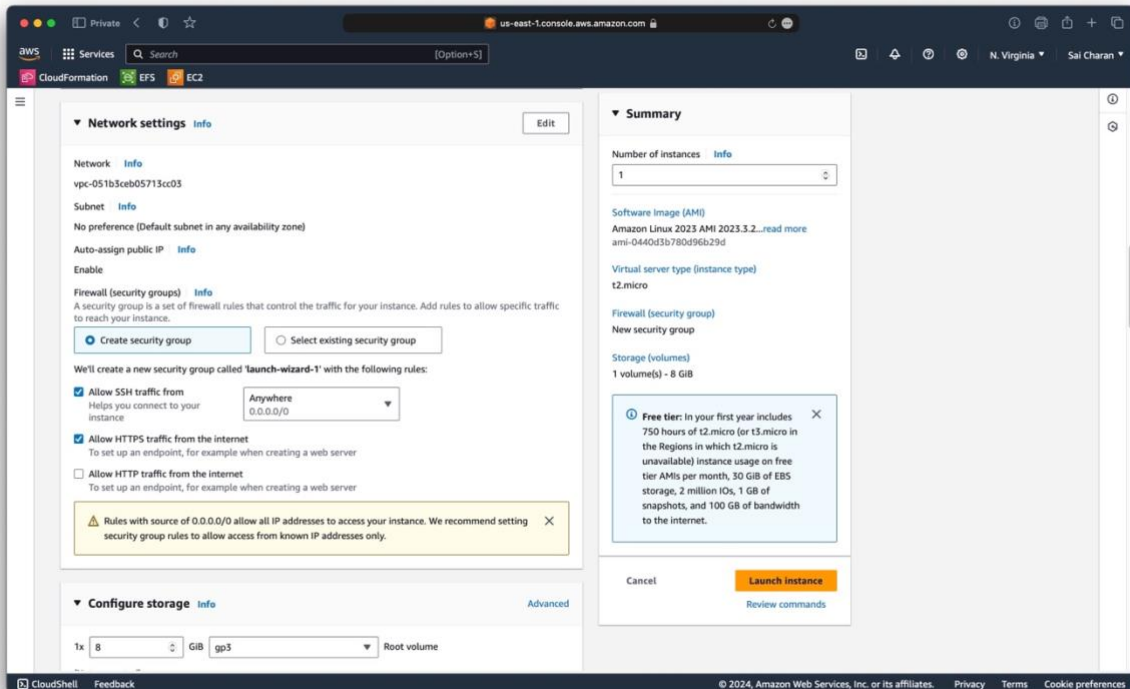
Warning about losing the free trail eligibility



Because I'm already using the "SYDNEY"



Now, I switch to N.Virginia:



Using “sudo yum install httpd -y”

```
Session ID: root-03952a9714f98198 Instance ID: i-0087ed8661f318294 Terminate

sh-5.2$ sudo yum install httpd -y
Last metadata expiration check: 0:01:00 ago on Tue Feb 27 16:52:51 2024.
Dependencies resolved.

Package Architecture Version Repository Size
-----
Installing:
httpd x86_64 2.4.58-1.amzn2023 amazonlinux 47 k
Installing dependencies:
apr x86_64 1.7.2-2.amzn2023.0.2 amazonlinux 129 k
apr-util x86_64 1.6.3-1.amzn2023.0.1 amazonlinux 98 k
generic-logos-httpd noarch 18.0-0.12.amzn2023.0.3 amazonlinux 19 k
httpd-core x86_64 2.4.58-1.amzn2023 amazonlinux 1.4 M
httpd-filesystem noarch 2.4.58-1.amzn2023 amazonlinux 14 k
httpd-tools x86_64 2.4.58-1.amzn2023 amazonlinux 81 k
libbrotli x86_64 1.0.9-4.amzn2023.0.2 amazonlinux 315 k
mailcap noarch 2.1.49-3.amzn2023.0.3 amazonlinux 33 k
Installing weak dependencies:
apr-util-openssl x86_64 1.6.3-1.amzn2023.0.1 amazonlinux 17 k
mod_http2 x86_64 2.0.11-2.amzn2023 amazonlinux 150 k
mod_lua x86_64 2.4.58-1.amzn2023 amazonlinux 61 k

Transaction Summary
Install 12 Packages

Total download size: 2.3 M
Installed size: 4.9 M
Downloading Packages:
(1/12): httpd-core-2.4.58-1.amzn2023.x86_64.rpm 16 MB/s | 1.4 MB 00:00
(2/12): mod_lua-2.4.58-1.amzn2023.x86_64.rpm 683 kB/s | 61 kB 00:00
(3/12): apr-util-1.6.3-1.amzn2023.0.1.x86_64.rpm 1.0 MB/s | 98 kB 00:00
(4/12): httpd-tools-2.4.58-1.amzn2023.x86_64.rpm 4.1 MB/s | 81 kB 00:00
(5/12): libbrotli-1.0.9-4.amzn2023.0.2.x86_64.rpm 13 MB/s | 315 kB 00:00
(6/12): apr-1.7.2-2.amzn2023.0.2.x86_64.rpm 3.6 MB/s | 129 kB 00:00
(7/12): mod_http2-2.0.11-2.amzn2023.x86_64.rpm 8.1 MB/s | 150 kB 00:00
(8/12): httpd-2.4.58-1.amzn2023.x86_64.rpm 2.2 MB/s | 47 kB 00:00
(9/12): apr-util-openssl-1.6.3-1.amzn2023.0.1.x86_64.rpm 876 kB/s | 17 kB 00:00
(10/12): generic-logos-httpd-18.0-0.12.amzn2023.0.3.noarch.rpm 1.4 MB/s | 19 kB 00:00
(11/12): httpd-filesystem-2.4.58-1.amzn2023.noarch.rpm 1.0 MB/s | 14 kB 00:00
(12/12): mailcap-2.1.49-3.amzn2023.0.3.noarch.rpm 2.0 MB/s | 33 kB 00:00
Total 10 MB/s | 2.3 MB 00:00

Running transaction check
Transaction check succeeded.
Running transaction test
Transaction test succeeded.
Running transaction
Preparing 1/1
Installing : apr-1.7.2-2.amzn2023.0.2.x86_64 1/12
Installing : apr-util-openssl-1.6.3-1.amzn2023.0.1.x86_64 2/12
Installing : apr-util-1.6.3-1.amzn2023.0.1.x86_64 3/12
```

Now using “sudo systemctl start httpd”

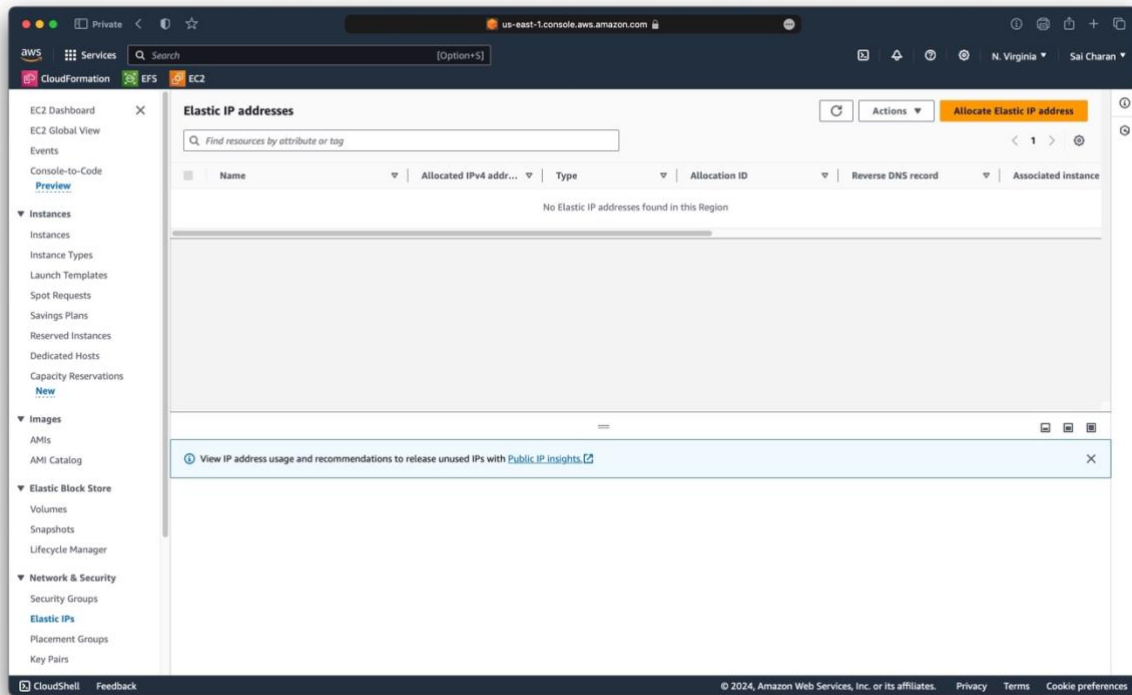
```
Session ID: root-03952a9714f98198 Instance ID: i-0087ed8661f318294 Terminate

Transaction test succeeded.
Running transaction
Preparing 1/1
Installing : apr-1.7.2-2.amzn2023.0.2.x86_64 1/12
Installing : apr-util-openssl-1.6.3-1.amzn2023.0.1.x86_64 2/12
Installing : apr-util-1.6.3-1.amzn2023.0.1.x86_64 3/12
Installing : mailcap-2.1.49-3.amzn2023.0.3.noarch 4/12
Installing : httpd-tools-2.4.58-1.amzn2023.x86_64 5/12
Running scriptlet: httpd-filesystem-2.4.58-1.amzn2023.noarch 6/12
Installing : httpd-filesystem-2.4.58-1.amzn2023.noarch 6/12
Installing : httpd-core-2.4.58-1.amzn2023.x86_64 7/12
Installing : mod_lua-2.4.58-1.amzn2023.x86_64 8/12
Installing : mod_http2-2.0.11-2.amzn2023.x86_64 9/12
Installing : generic-logos-httpd-18.0-0.12.amzn2023.0.3.noarch 10/12
Installing : libbrotli-1.0.9-4.amzn2023.0.2.x86_64 11/12
Installing : httpd-2.4.58-1.amzn2023.x86_64 12/12
Running scriptlet: httpd-2.4.58-1.amzn2023.x86_64 12/12
Verifying : httpd-core-2.4.58-1.amzn2023.x86_64 1/12
Verifying : apr-util-1.6.3-1.amzn2023.0.1.x86_64 2/12
Verifying : mod_lua-2.4.58-1.amzn2023.x86_64 3/12
Verifying : apr-1.7.2-2.amzn2023.0.2.x86_64 4/12
Verifying : httpd-tools-2.4.58-1.amzn2023.x86_64 5/12
Verifying : libbrotli-1.0.9-4.amzn2023.0.2.x86_64 6/12
Verifying : mod_http2-2.0.11-2.amzn2023.x86_64 7/12
Verifying : httpd-2.4.58-1.amzn2023.x86_64 8/12
Verifying : apr-util-openssl-1.6.3-1.amzn2023.0.1.x86_64 9/12
Verifying : generic-logos-httpd-18.0-0.12.amzn2023.0.3.noarch 10/12
Verifying : mailcap-2.1.49-3.amzn2023.0.3.noarch 11/12
Verifying : httpd-filesystem-2.4.58-1.amzn2023.noarch 12/12

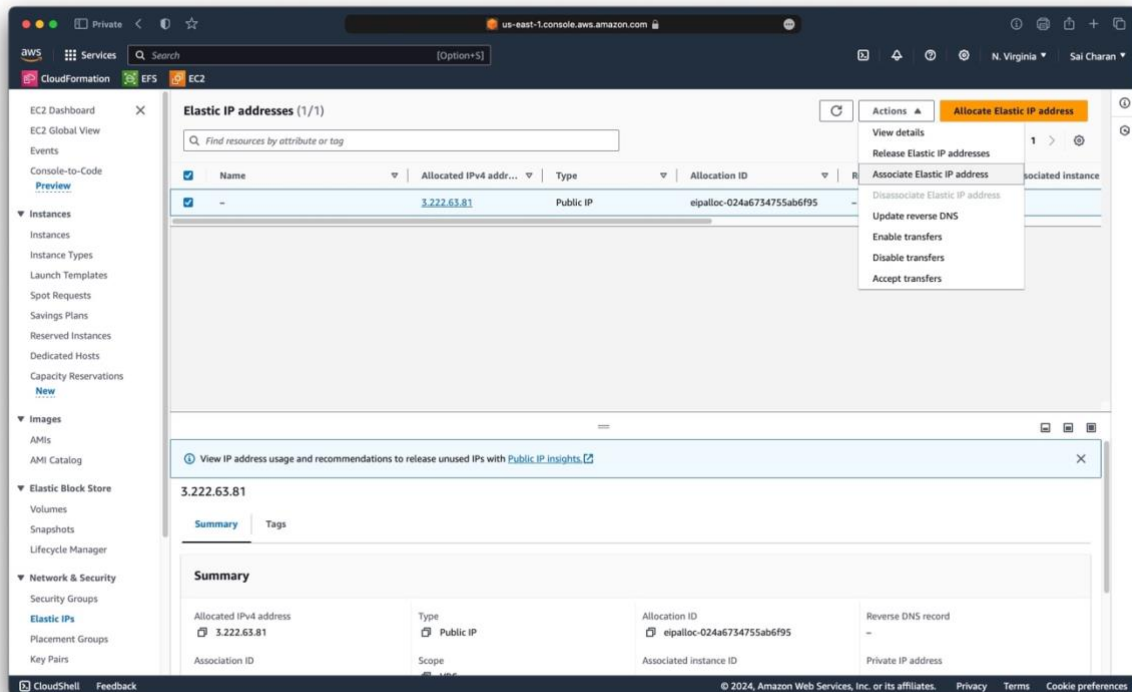
Installed:
apr-1.7.2-2.amzn2023.0.2.x86_64 apr-util-1.6.3-1.amzn2023.0.1.x86_64 apr-util-openssl-1.6.3-1.amzn2023.0.1.x86_64 generic-logos-httpd-18.0-0.12.amzn2023.0.3.noarch
httpd-2.4.58-1.amzn2023.x86_64 httpd-core-2.4.58-1.amzn2023.x86_64 httpd-filesystem-2.4.58-1.amzn2023.noarch httpd-tools-2.4.58-1.amzn2023.x86_64
libbrotli-1.0.9-4.amzn2023.0.2.x86_64 mailcap-2.1.49-3.amzn2023.0.3.noarch mod_http2-2.0.11-2.amzn2023.x86_64 mod_lua-2.4.58-1.amzn2023.x86_64

Complete!
sh-5.2$ sudo systemctl start httpd
Created symlink /etc/systemd/system/multi-user.target.wants/httpd.service → /usr/lib/systemd/system/httpd.service.
sh-5.2$ curl http://169.254.169.254/latest/meta-data/public-ipv4
<?xml version="1.0" encoding="iso-8859-1"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en" lang="en">
<head>
<title>401 - Unauthorized</title>
</head>
<body>
<h1>401 - Unauthorized</h1>
</body>
</html>
sh-5.2$
```

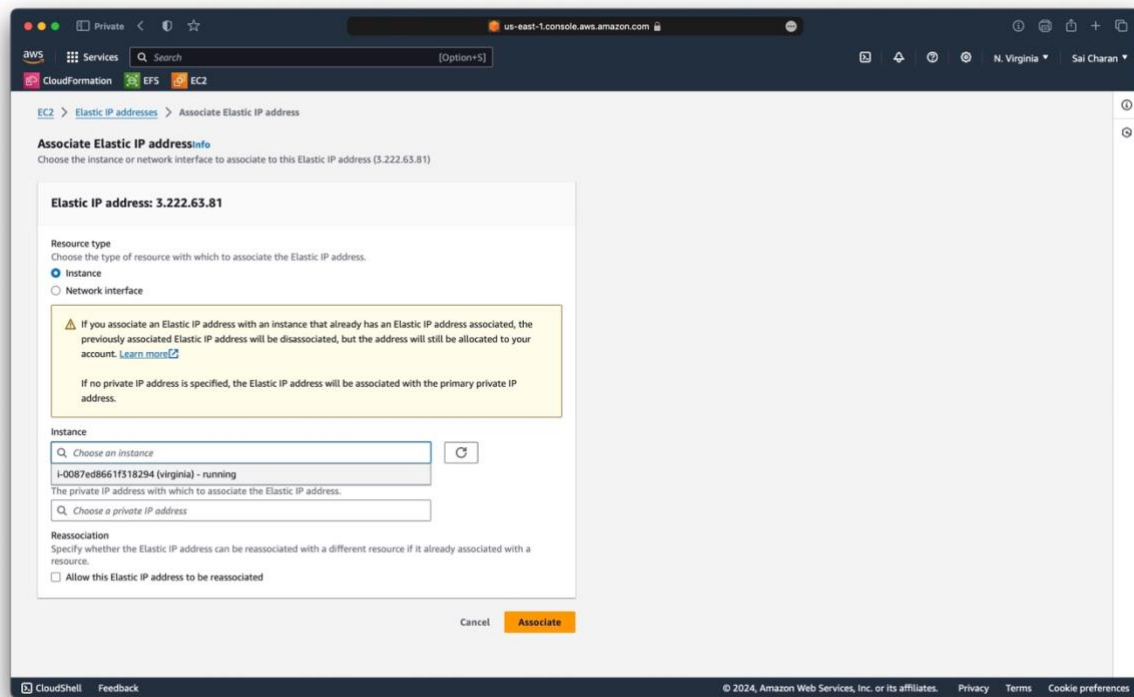
Elastic IP:



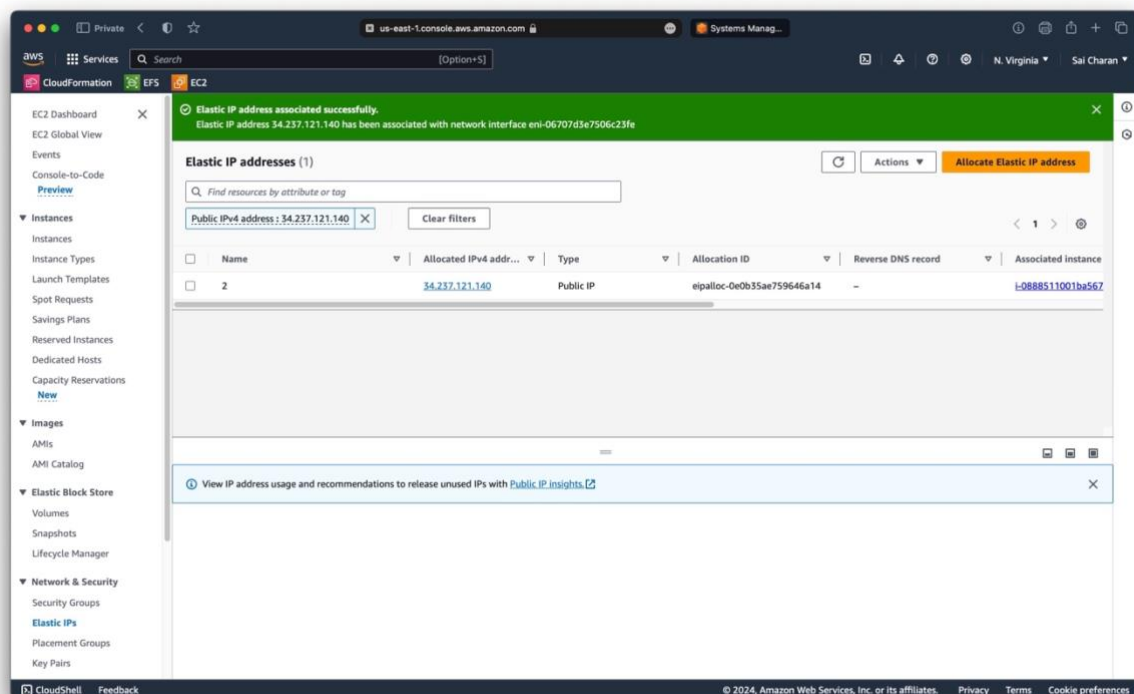
Allocating the IP:



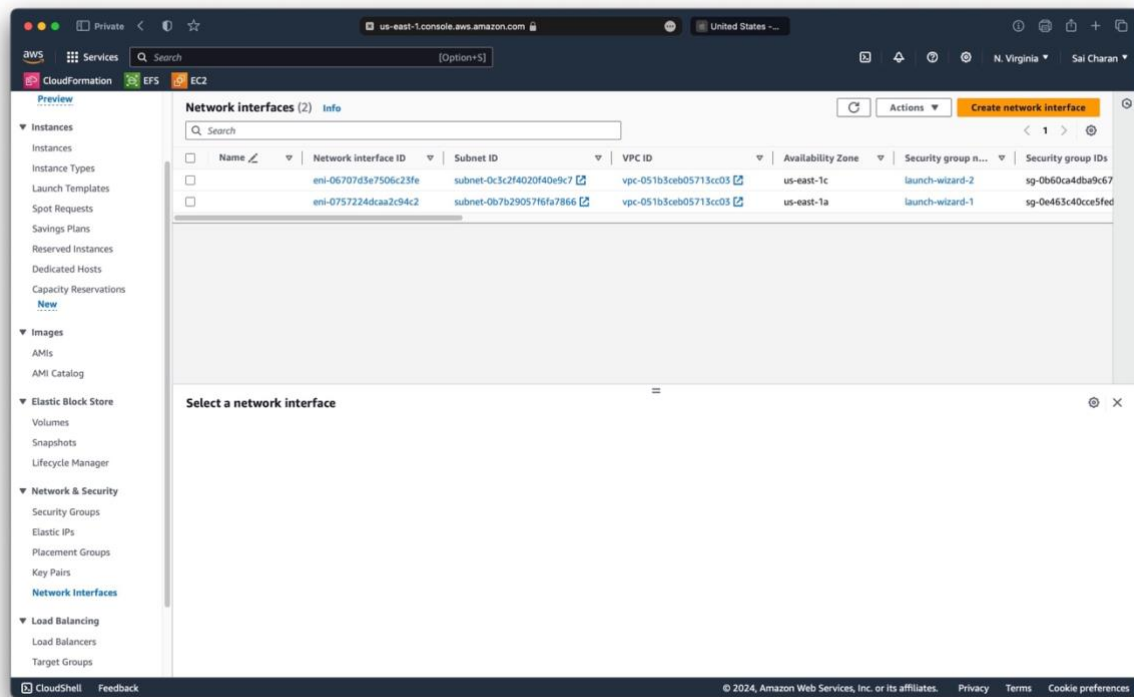
Choosing “i-0087ed8661f318294 (virginia) – running” Instance:



Successfully Allocated



Network Interface:



Running the commands for change the “IFCONFIG”

Private < ☆ Careers at Apple Instance details... us-east-1.console.aws.amazon.com Content STUDENT

CloudFormation EFS EC2

Amazon Linux 2023

https://aws.amazon.com/linux/amazon-linux-2023

```
[ec2-user@ip-172-31-47-232 ~]$ ifconfig
enx0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 9001
    inet 172.31.47.232 netmask 255.255.240.0 broadcast 172.31.47.255
    inet6 fe80::c85:d7ff:feb:f90d prefixlen 64 scopeid 0x20<link>
    ether 0e:85:d7:bf:ff:0d txqueuelen 1000 (Ethernet)
    RX packets 3826 bytes 944192 (922.0 KiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 3468 bytes 627768 (613.0 KiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
    inet 127.0.0.1 netmask 255.0.0.0
    inet6 ::1 prefixlen 128 scopeid 0x10<host>
    loop txqueuelen 1000 (Local Loopback)
    RX packets 12 bytes 1020 (1020.0 B)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 12 bytes 1020 (1020.0 B)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

[ec2-user@ip-172-31-47-232 ~]$
```

i-0888511001ba56743 (virginia - b)

PublicIPs: 34.237.121.140 PrivateIPs: 172.31.47.232

CloudShell Feedback © 2024, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences

Private < ☆ Careers at Apple Instances | EC2... us-east-1.console.aws.amazon.com Content STUDENT

Session ID: root-0c2d9ef7f6db29d2 Instance ID: i-0888511001ba56743 Terminate

```
sh-5.2$ wget -P /var/www/html/a \
- https://raw.githubusercontent.com/AWSInAction/code3/main/chapter03
- /a/index.html
--2024-02-27 23:27:12-- http://xn--lgi/
Resolving xn--lgi (xn--lgi)... failed: Name or service not known.
wget: unable to resolve host address 'xn--lgi'
--2024-02-27 23:27:12-- ftp://https//
=> /var/www/html/a/.listing
Resolving https (https)... failed: Name or service not known.
wget: unable to resolve host address 'https'
/raw.githubusercontent.com/AWSInAction/code3/main/chapter03: Scheme missing.
sh: !: command not found
sh-5.2$
```

```
Session ID: root-0c2d9ef7f6db29d2 Instance ID: i-0888511001ba56743 Terminate

sh-5.2$ sudo -s
[root@ip-172-31-47-232 bin]# mkdir /var/www/html/a
mkdir: cannot create directory '/var/www/html/a': File exists
[root@ip-172-31-47-232 bin]# cd /var/www/html/a
[root@ip-172-31-47-232 a]# wget -P /var/www/html/a \
- https://raw.githubusercontent.com/AWSInAction/code3/main/chapter03
- /a/index.html
--2024-02-27 23:28:20-- http://xn--lgi/
Resolving xn--lgi (xn--lgi)... failed: Name or service not known.
wget: unable to resolve host address 'xn--lgi'
--2024-02-27 23:28:20-- ftp://https//
=> /var/www/html/a/.listing'
Resolving https (https)... failed: Name or service not known.
wget: unable to resolve host address 'https'
/raw.githubusercontent.com/AWSInAction/code3/main/chapter03: Scheme missing.
bash: *: command not found
[root@ip-172-31-47-232 a]#
```

```
Session ID: root-0c2d9ef7f6db29d2 Instance ID: i-0888511001ba56743 Terminate

sh-5.2$ sudo -s
[root@ip-172-31-47-232 bin]# mkdir /var/www/html/a
mkdir: cannot create directory '/var/www/html/a': File exists
[root@ip-172-31-47-232 bin]# cd /var/www/html/a
[root@ip-172-31-47-232 a]# wget -P /var/www/html/a \
- https://raw.githubusercontent.com/AWSInAction/code3/main/chapter03
- /a/index.html
--2024-02-27 23:28:20-- http://xn--lgi/
Resolving xn--lgi (xn--lgi)... failed: Name or service not known.
wget: unable to resolve host address 'xn--lgi'
--2024-02-27 23:28:20-- ftp://https//
=> /var/www/html/a/.listing'
Resolving https (https)... failed: Name or service not known.
wget: unable to resolve host address 'https'
/raw.githubusercontent.com/AWSInAction/code3/main/chapter03: Scheme missing.
bash: *: command not found
[root@ip-172-31-47-232 a]# mkdir /var/www/html/b
[root@ip-172-31-47-232 a]# wget -P /var/www/html/b \
- https://raw.githubusercontent.com/AWSInAction/code3/main/chapter03
- /b/index.html
--2024-02-27 23:28:49-- http://xn--lgi/
Resolving xn--lgi (xn--lgi)... failed: Name or service not known.
wget: unable to resolve host address 'xn--lgi'
--2024-02-27 23:28:49-- ftp://https//
=> /var/www/html/b/.listing'
Resolving https (https)... failed: Name or service not known.
wget: unable to resolve host address 'https'
/raw.githubusercontent.com/AWSInAction/code3/main/chapter03: Scheme missing.
bash: *: command not found
[root@ip-172-31-47-232 a]#
```

```
Session ID: root-0c2d9ef7f6db29d2 Instance ID: i-088511001ba56743 Terminate

GNU nano 5.8 /etc/httpd/conf.d/a.conf Modified
<VirtualHost 172.31.x.x:80>
<DocumentRoot /var/www/html/a>
</VirtualHost>

File Name to Write: /etc/httpd/conf.d/a.conf
[?] Help [?] DOS Format [?] Append [?] Backup File
[?] Cancel [?] Mac Format [?] Prepend [?] Browse
```

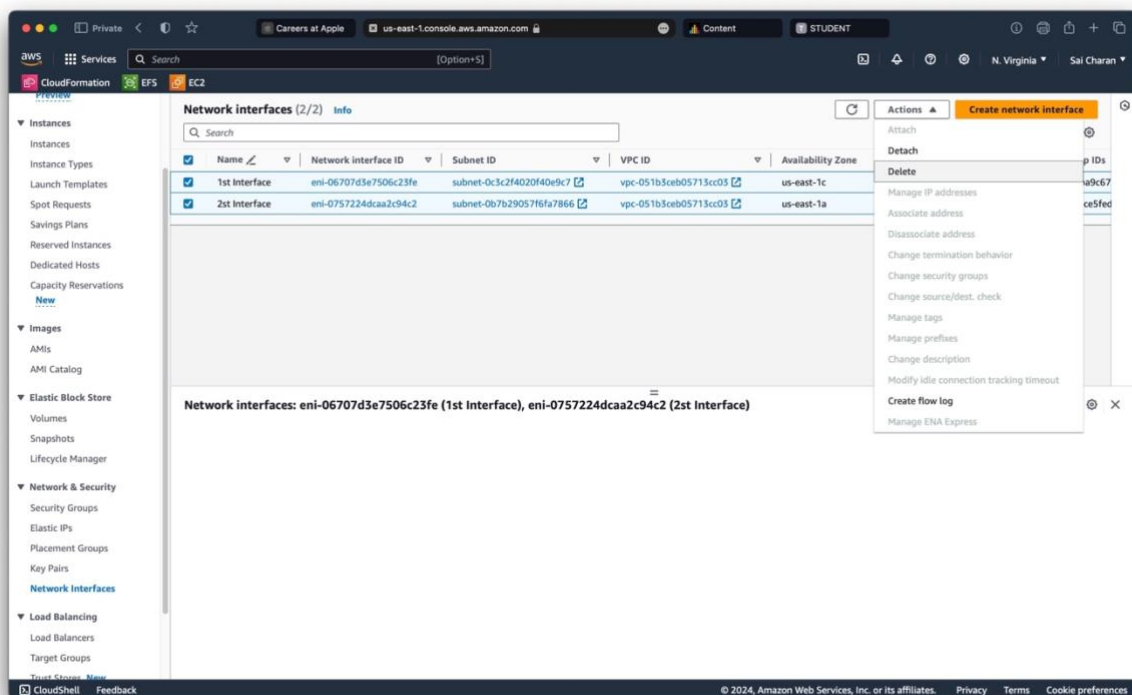
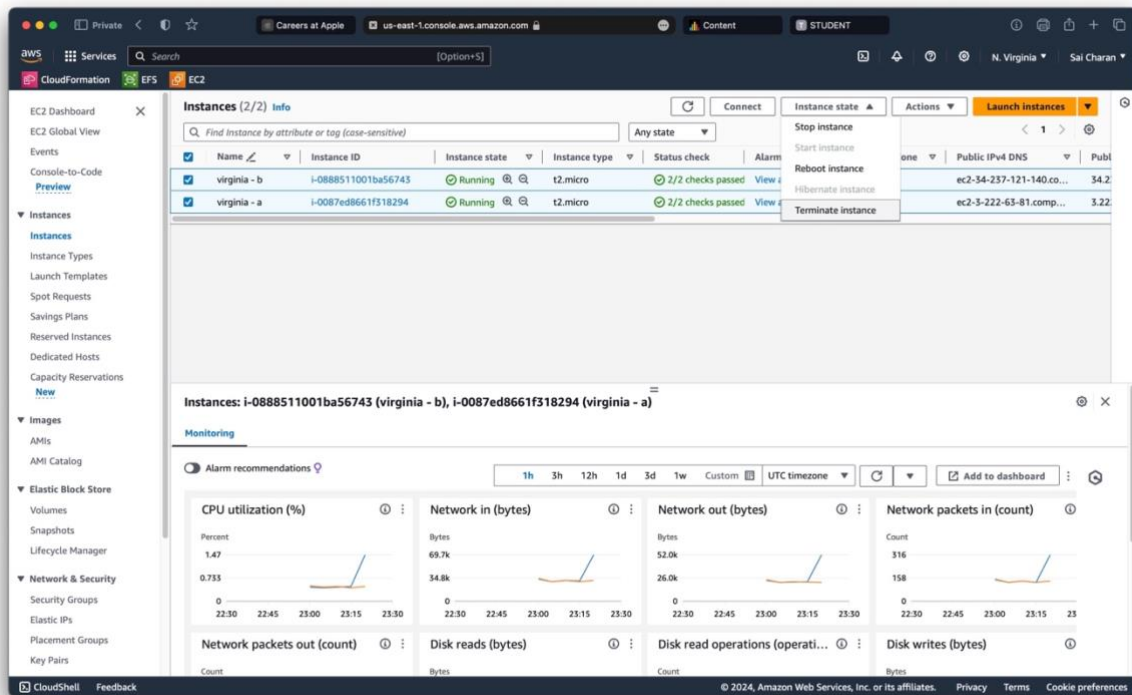
```
Session ID: root-0c2d9ef7f6db29d2 Instance ID: i-088511001ba56743 Terminate

sh-5.2$ sudo -s
[root@ip-172-31-47-232 bin]# mkdir /var/www/html/a
mkdir: cannot create directory '/var/www/html/a': File exists
[root@ip-172-31-47-232 bin]# cd /var/www/html/a
[root@ip-172-31-47-232 a]# wget -P /var/www/html/a \
- https://raw.githubusercontent.com/AMISinAction/code3/main/chapter03
- /a/index.html
--2024-02-27 23:28:20-- http://xn--lgi/
Resolving xn--lgi (xn--lgi)... failed: Name or service not known.
wget: unable to resolve host address 'xn--lgi'
--2024-02-27 23:28:20-- ftp://https//
  => "/var/www/html/a/.listing"
Resolving https (https)... failed: Name or service not known.
wget: unable to resolve host address 'https'
/raw.githubusercontent.com/AMISinAction/code3/main/chapter03: Scheme missing.
bash: !: command not found
[root@ip-172-31-47-232 a]# mkdir /var/www/html/b
[root@ip-172-31-47-232 a]# wget -P /var/www/html/b \
- https://raw.githubusercontent.com/AMISinAction/code3/main/chapter03
- /b/index.html
--2024-02-27 23:28:49-- http://xn--lgi/
Resolving xn--lgi (xn--lgi)... failed: Name or service not known.
wget: unable to resolve host address 'xn--lgi'
--2024-02-27 23:28:49-- ftp://https//
  => "/var/www/html/b/.listing"
Resolving https (https)... failed: Name or service not known.
wget: unable to resolve host address 'https'
/raw.githubusercontent.com/AMISinAction/code3/main/chapter03: Scheme missing.
bash: !: command not found
[root@ip-172-31-47-232 a]# nano /etc/httpd/conf.d/a.conf
[root@ip-172-31-47-232 a]# ifconfig
enx0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 9001
    inet 172.31.47.232 netmask 255.255.240.0 broadcast 172.31.47.255
    inet6 fe80:c85:d7ff:febf:f90d prefixlen 64 scopeid 0x20<link>
    ether 0e:85:d7:bf:f9:0d txqueuelen 1000 (Ethernet)
    RX packets 5325 bytes 1237976 (1.1 MiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 4907 bytes 912785 (891.3 KiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
    inet 127.0.0.1 netmask 255.0.0.0
    inet6 ::1 prefixlen 128 scopeid 0x10<host>
    loop txqueuelen 1000 (Local Loopback)
    RX packets 12 bytes 1020 (1020.0 B)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 12 bytes 1020 (1020.0 B)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

[root@ip-172-31-47-232 a]#
```

Terminating the Instance, Elastic IP and Network Interface



Note: Hello Professor, I haven't change my instance type to m5.large. Because when I checked on google the source says that once we lose the eligibility of FREE TRAIL it can not be undone.

Thanks and Regards
Sai Charan Pasupuleti