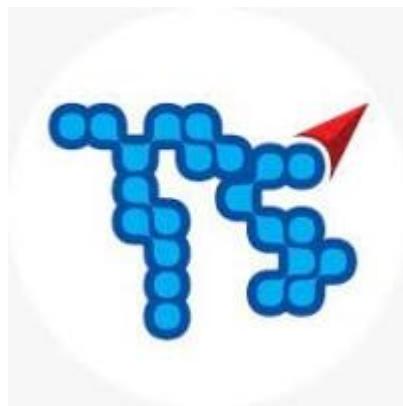


SOP0001_UBUNTU_INSTANCE_CREATION & HOSTING A WEBSITE

Document Version / Détails : Ver 0.1

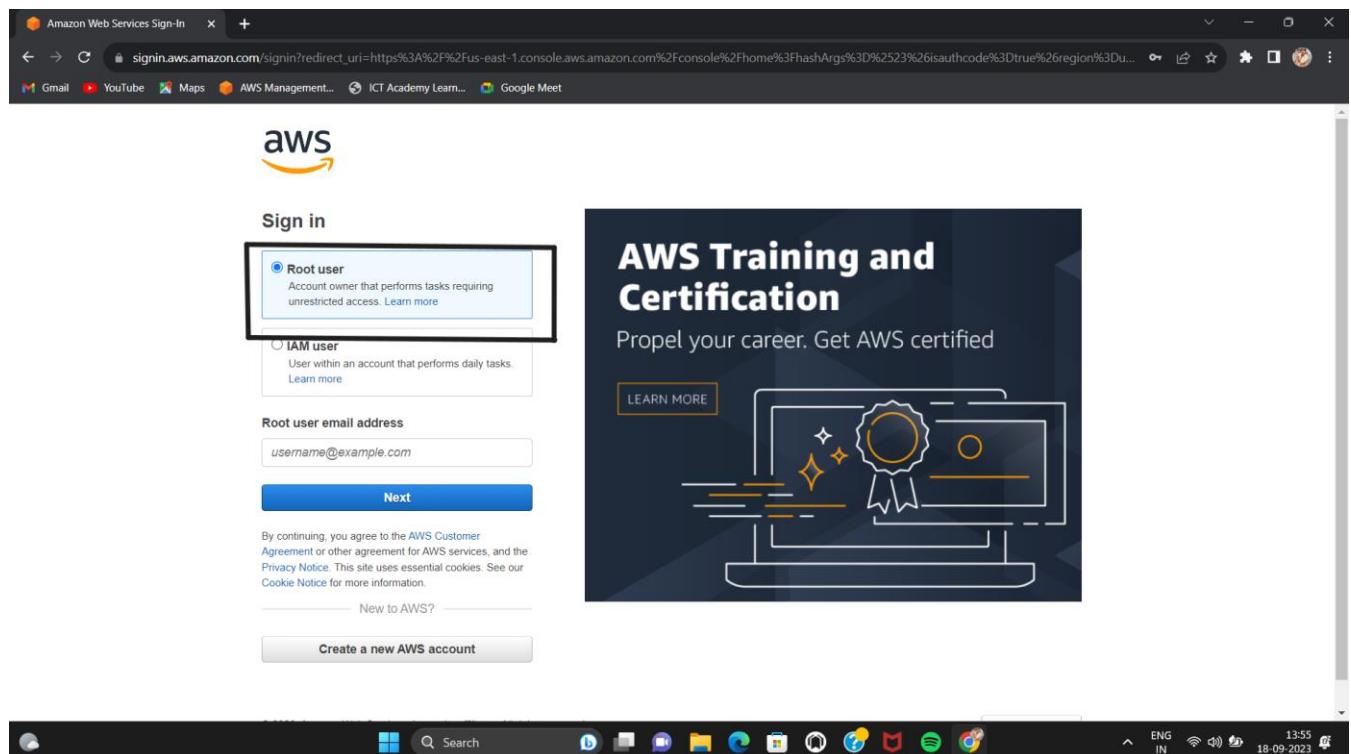


Record of Release

Version No.	Modified By	Reviewed By	Authorized By	Release Date	Modifications Done
0.1					Initial Version
1.0					
1.1					

1.0 Objective

The objective of this document is to the Ubuntu virtual machine creation .



- Go with sign page .
<https://console.aws.amazon.com/ec2/>
- Sign with the root user .
- Enter your email id .



Amazon Web Services Sign-In

signin.aws.amazon.com/signin?redirect_uri=https%3A%2F%2Fus-east-1.console.aws.amazon.com%2Fconsole%2Fhome%3FhashArgs%3D%2523%26isauthcode%3Dtrue%26region%3Du...

Gmail YouTube Maps AWS Management... ICT Academy Learn... Google Meet

aws

Root user sign in ⓘ

Email: arun.gotekid@gmail.com

Password [Forgot password?](#)

.....

[Sign in](#)

[Sign in to a different account](#)

[Create a new AWS account](#)

AWS Training and Certification

Propel your career. Get AWS certified

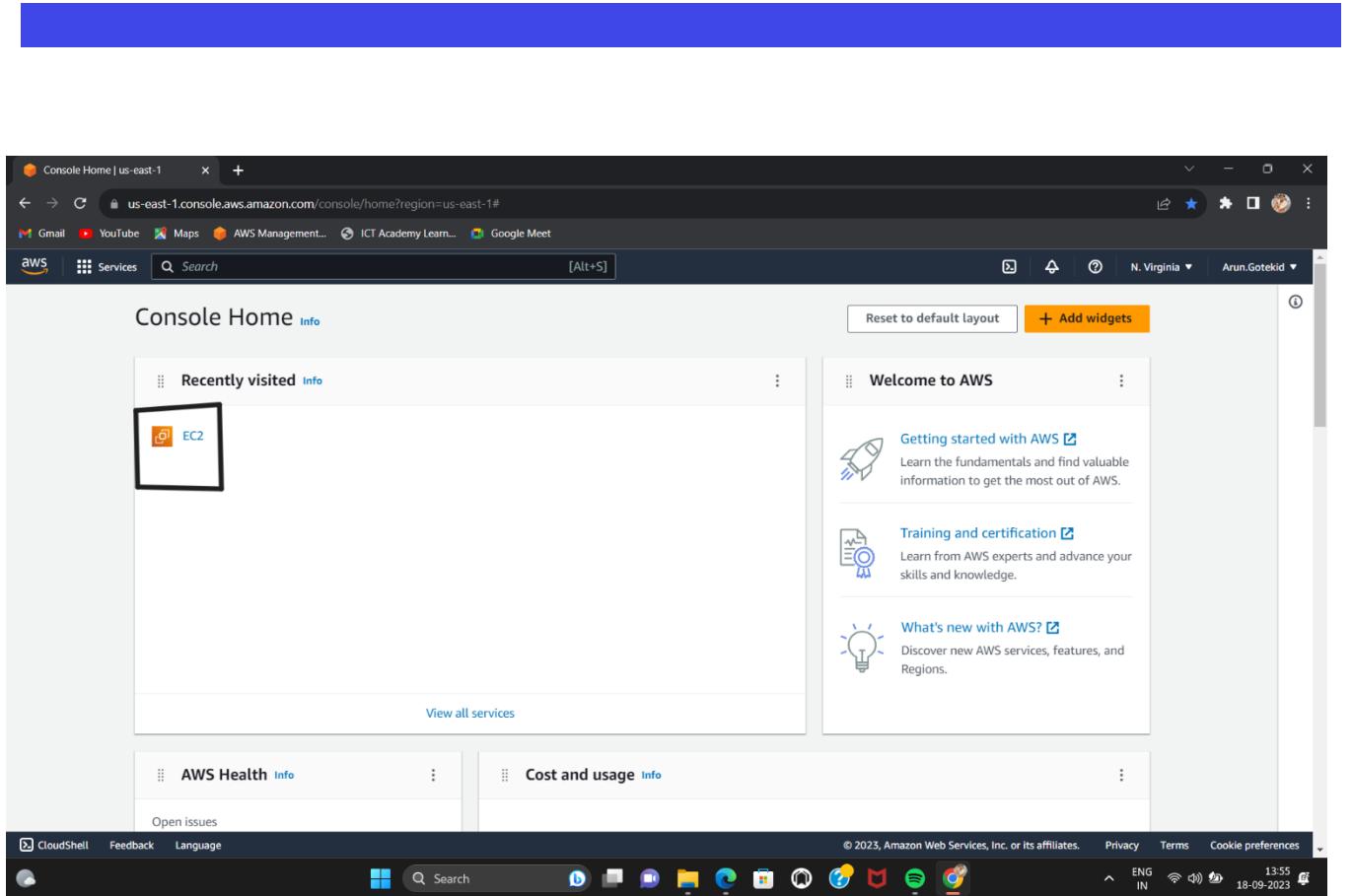
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English ▾



- Enter your password .
- Then sign up .



- Click on EC2 .



SECURITY GROUP CREATION :

The screenshot shows the AWS EC2 Dashboard for the US East (N. Virginia) Region. The left sidebar is collapsed. The main area displays the following information:

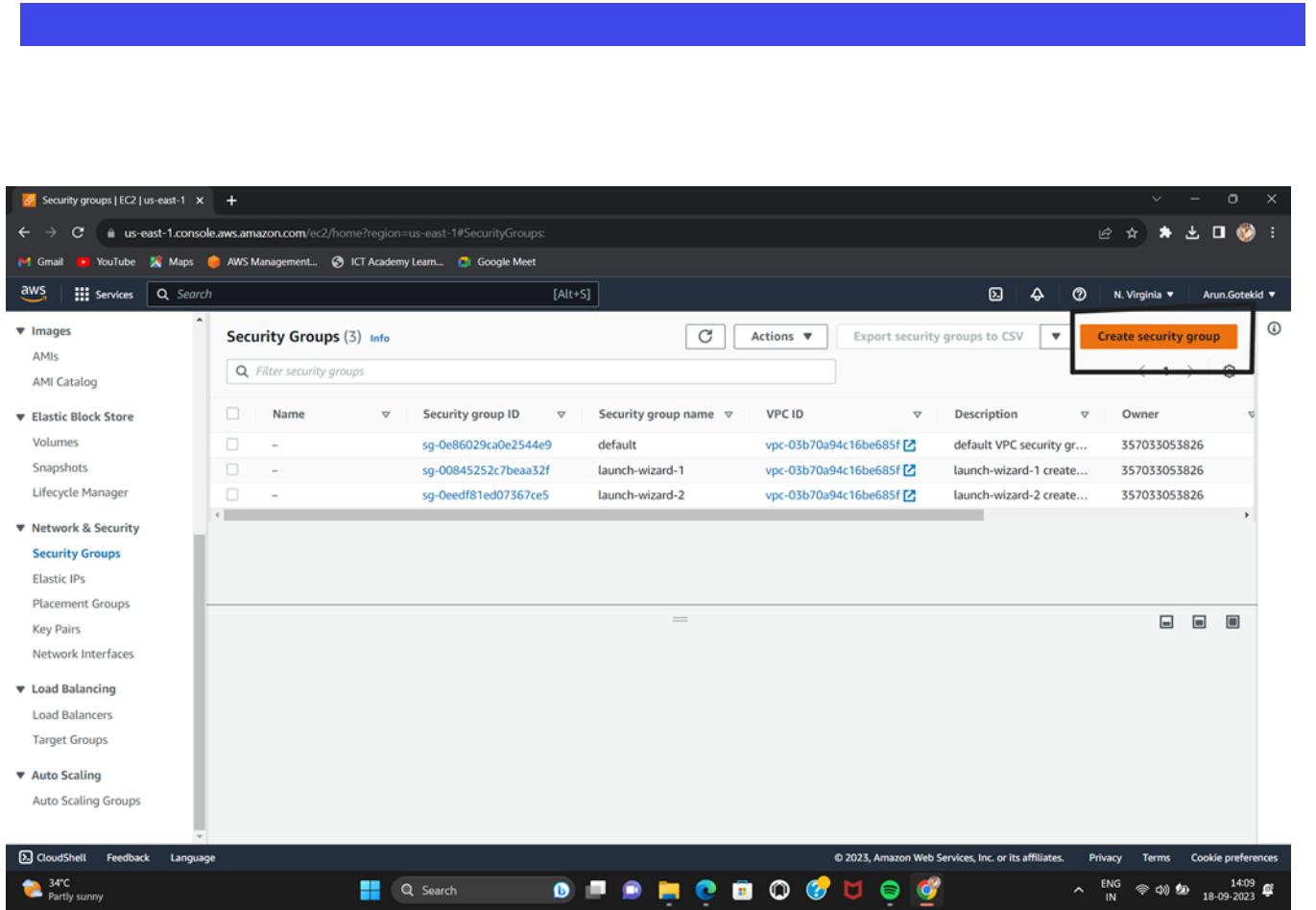
- Resources**: A summary of Amazon EC2 resources:

Instances (running)	0	Auto Scaling Groups	0	Dedicated Hosts	0
Elastic IPs	0	Instances	0	Key pairs	2
Load balancers	0	Placement groups	0	Security groups	9
Snapshots	0	Volumes	0		
- Launch instance**: A section to start an EC2 instance, with a note: "Note: Your instances will launch in the US East (N. Virginia) Region". It includes buttons for "Launch instance" and "Migrate a server".
- Service health**: A link to the AWS Health Dashboard.
- Zones**: A table showing Zone names and Zone IDs:

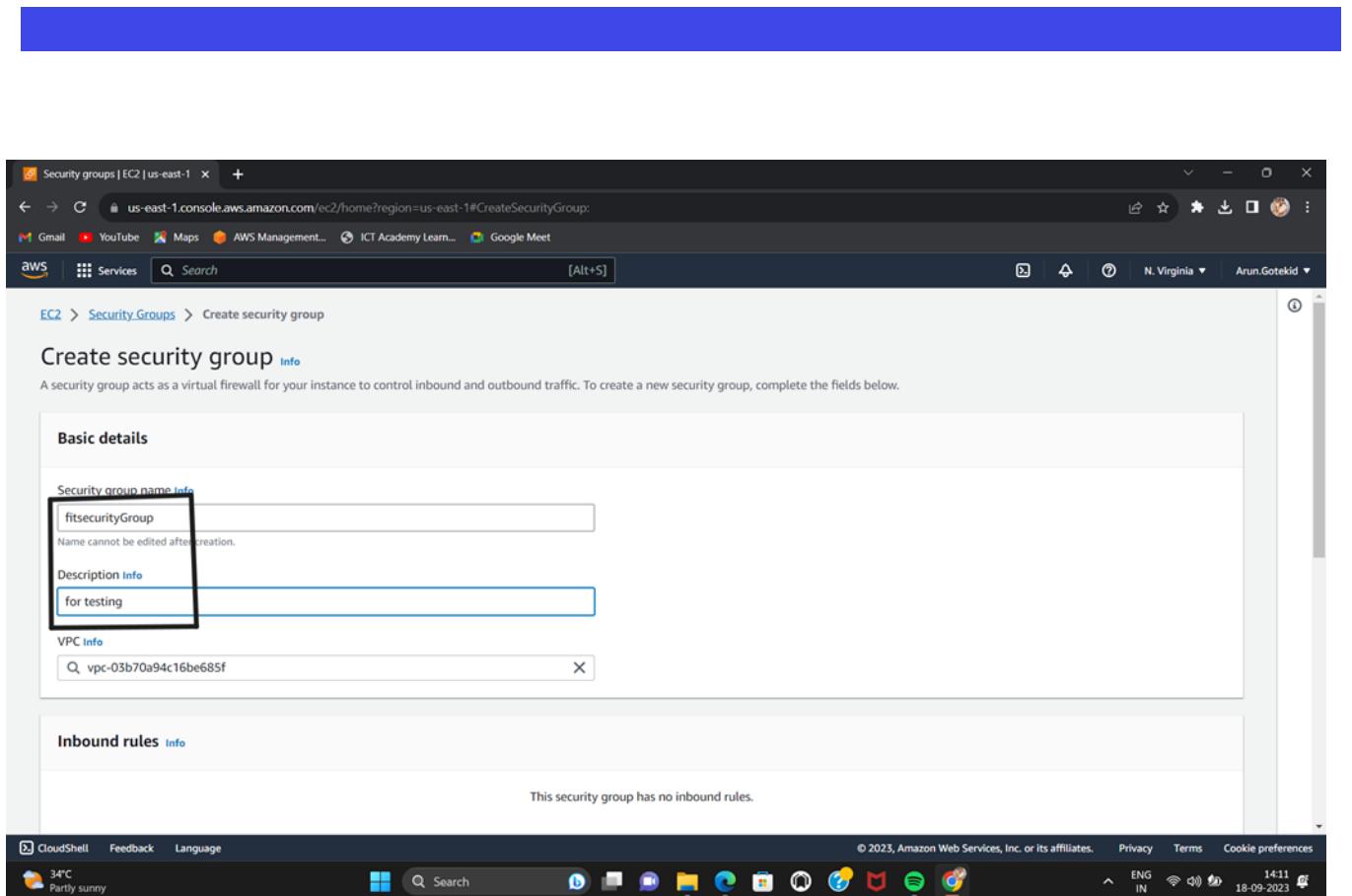
Zone name	Zone ID
us-east-1a	use1-az4
- Account attributes**: Information about the Default VPC (vpc-03b70a94c16be685f), Settings (Data protection and security, Zones, EC2 Serial Console, Default credit specification, Console experiments), and Explore AWS (Up to 40% better performance; 20% lower cost, Move your compute workloads to Graviton-based instances for better price performance compared to x86 instances, Get Up to 40% Better Price Performance).

The browser address bar shows the URL: <https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#SecurityGroups>. The system tray at the bottom indicates the date as 26-09-2023 and the time as 18:56.

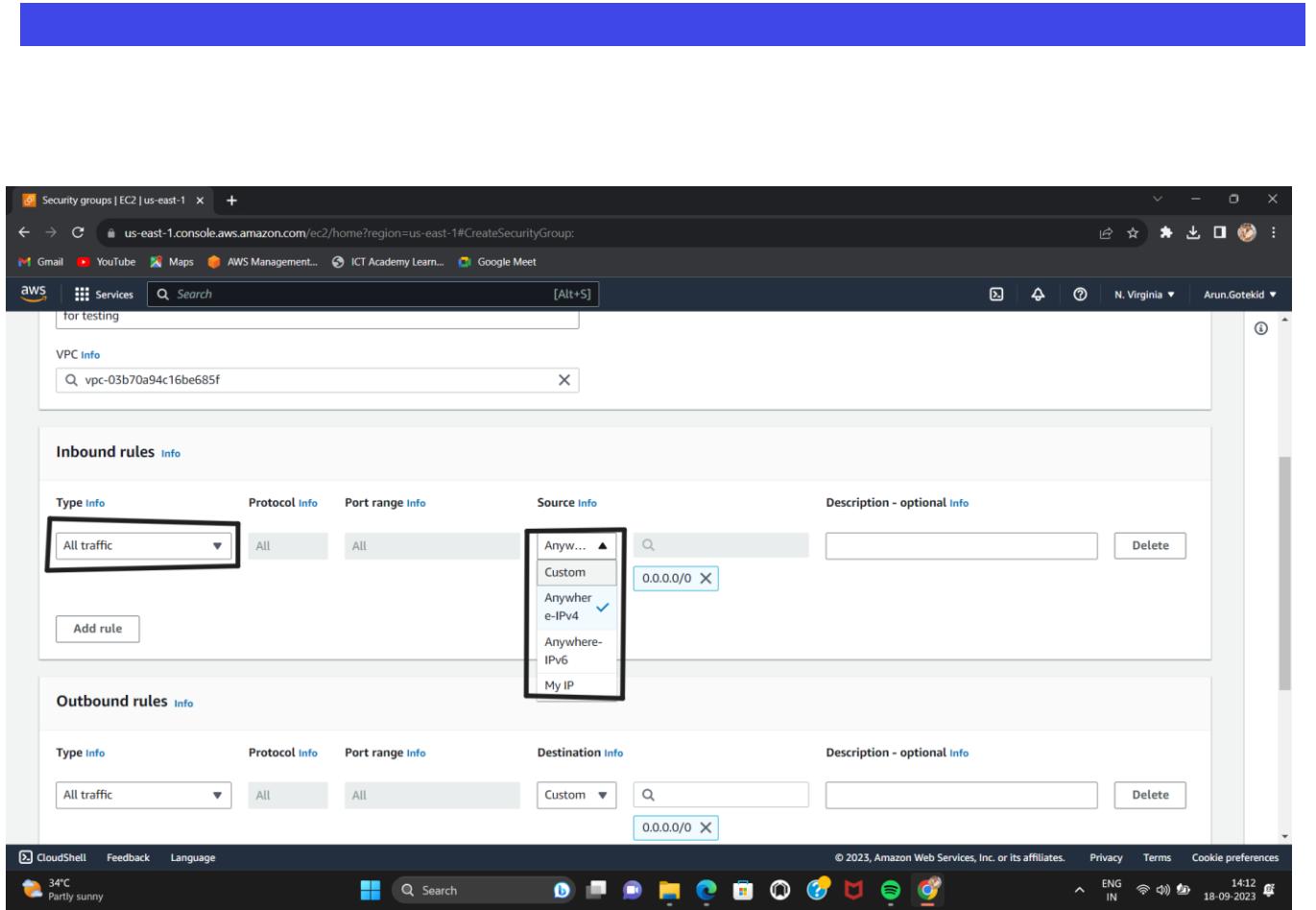
- Click security group .



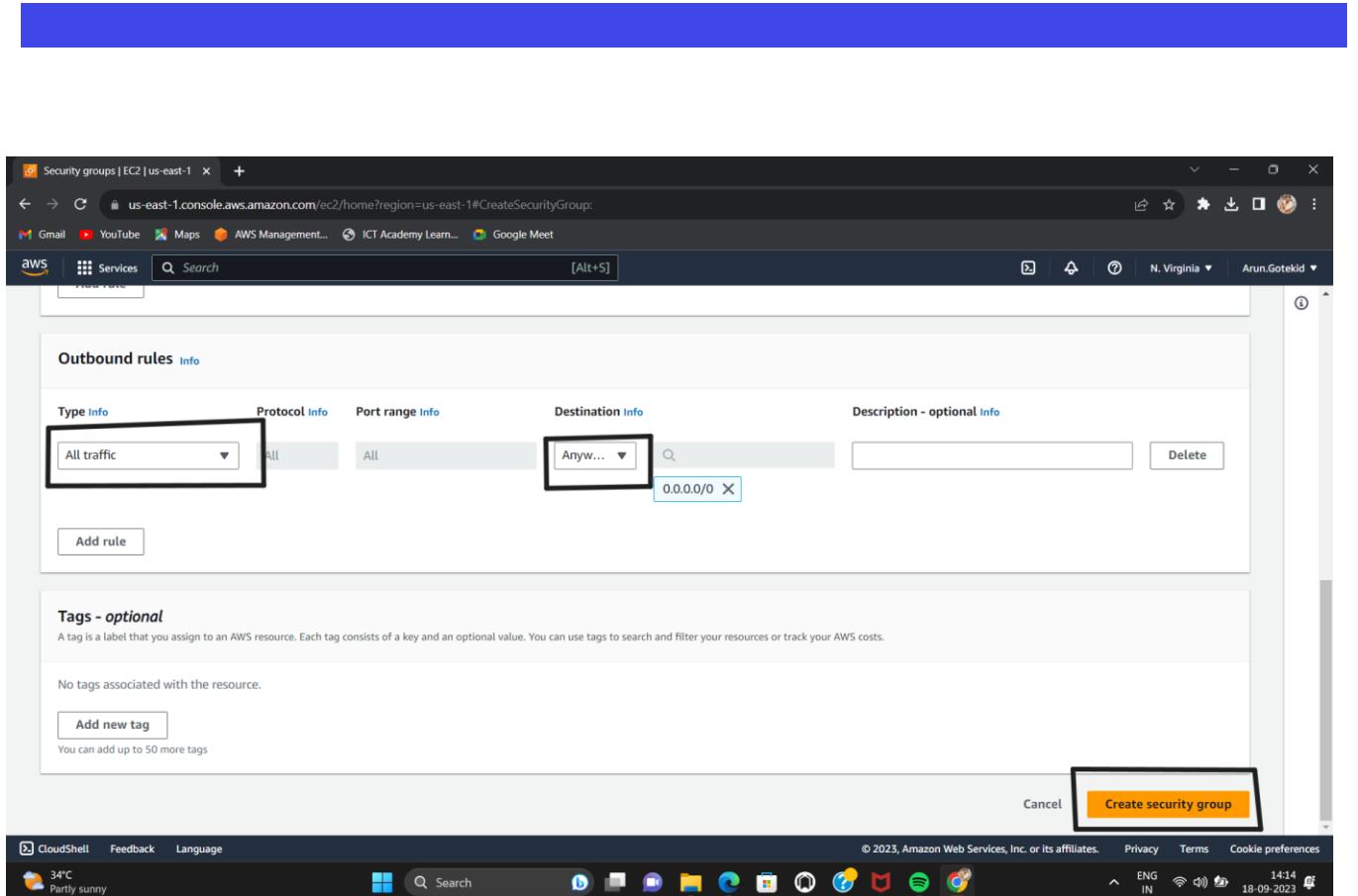
- Click create security group .



- Enter security group name .
- Give description info .



- Give Inbound Rules
- Type info is ALL TRAFFIC .
- Source info is ANYWHERE e-IPv4 .



- Give outbound rules .
- Type is ALL TRAFFIC .
- Source is ANYWHERE e-IPv4 .
- Then click “Create security group”.



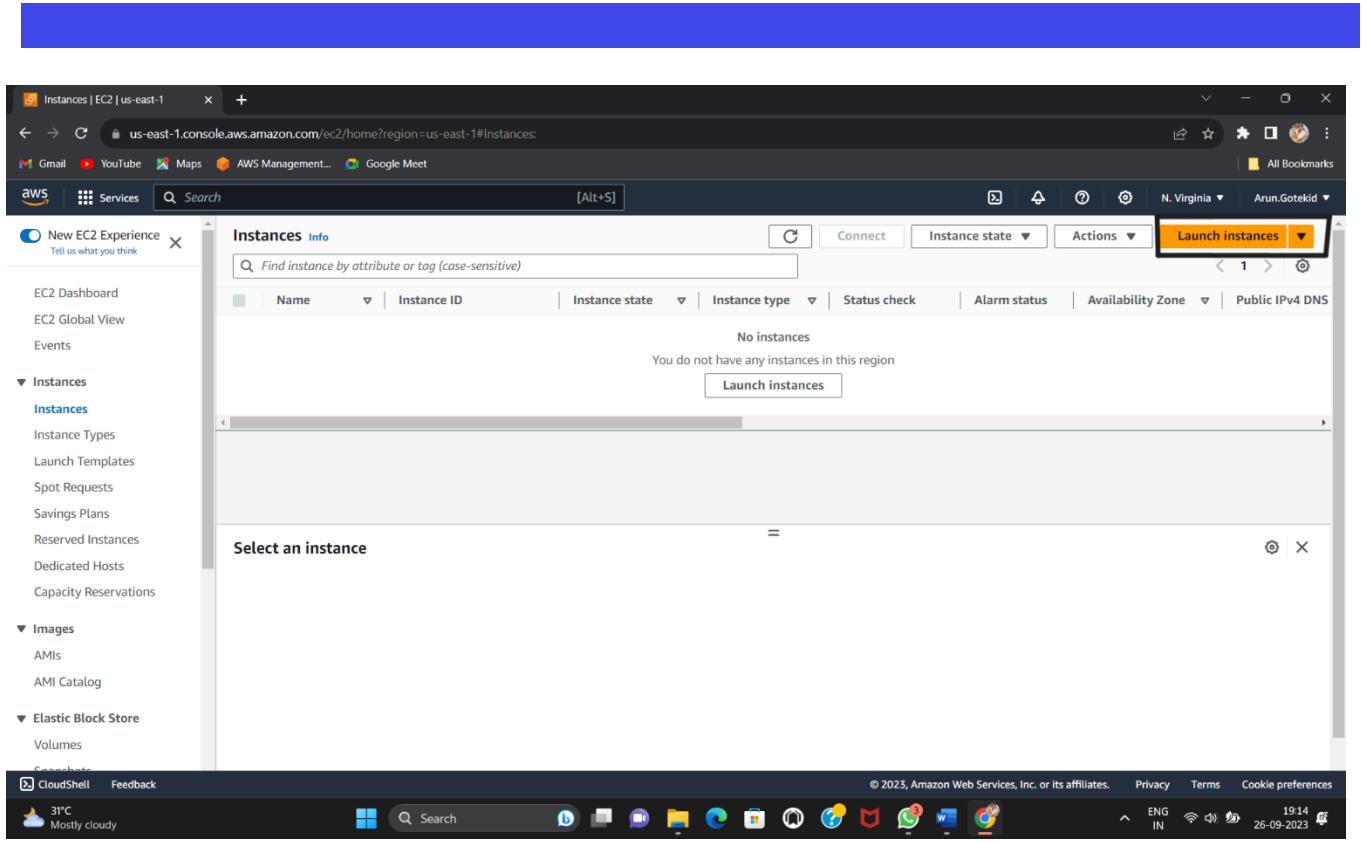
INSTANCE CREATION :

The screenshot shows the AWS EC2 console interface. The left sidebar is collapsed. The main content area displays a success message: "Security group (sg-01ab9deffd597d43e | WebSecure) was created successfully". Below this, the security group details are shown:

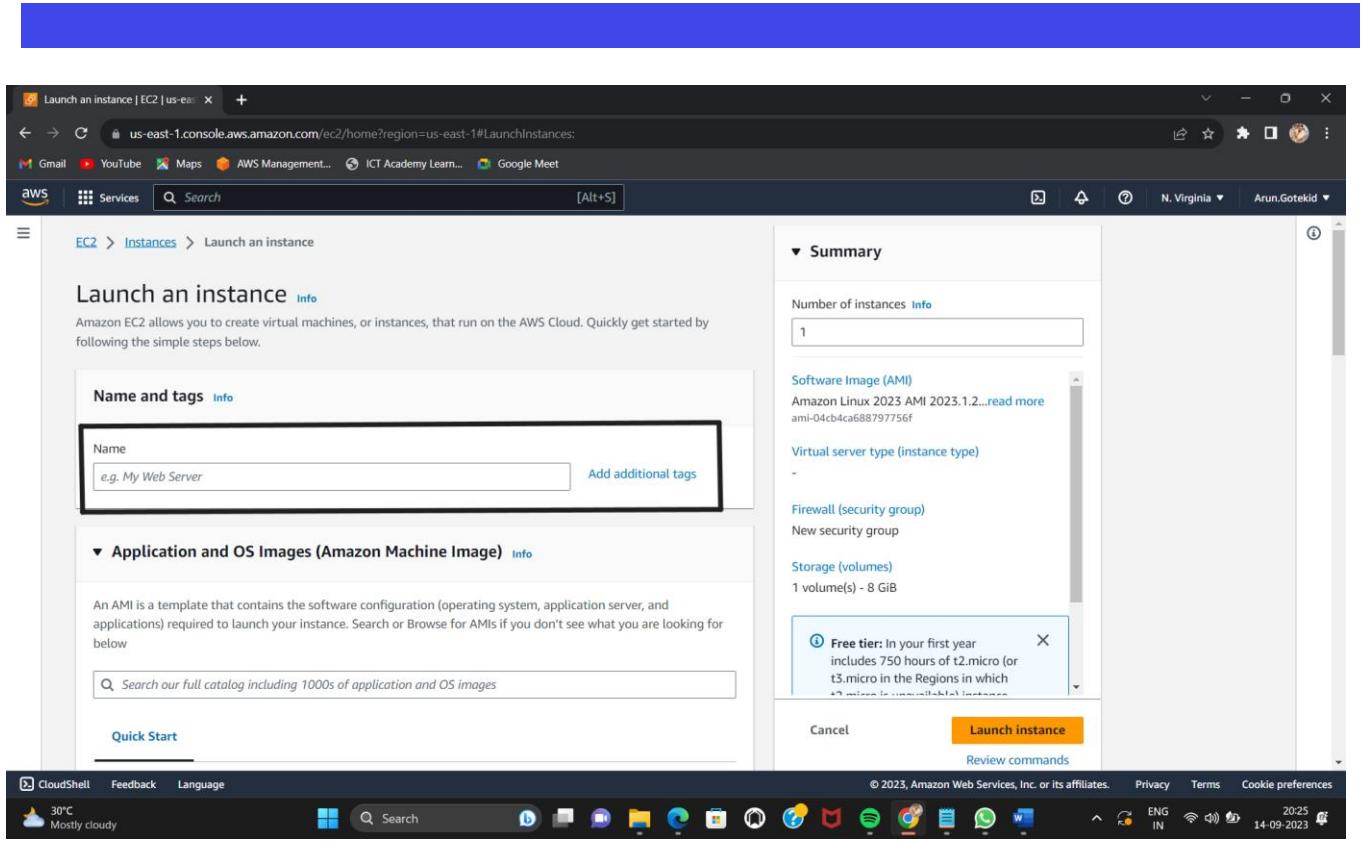
Security group name	sg-01ab9deffd597d43e	Description	VPC ID
Owner	357033053826	for testing	vpc-03b70a94c16be685f
Inbound rules count	1 Permission entry	Outbound rules count	1 Permission entry

Below the details, there are tabs for "Inbound rules" (selected), "Outbound rules", and "Tags". The "Inbound rules" section shows one rule: "1/1". At the bottom of the page, the URL is https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#instances:, and the status bar shows the date and time as 26-09-2023 19:14.

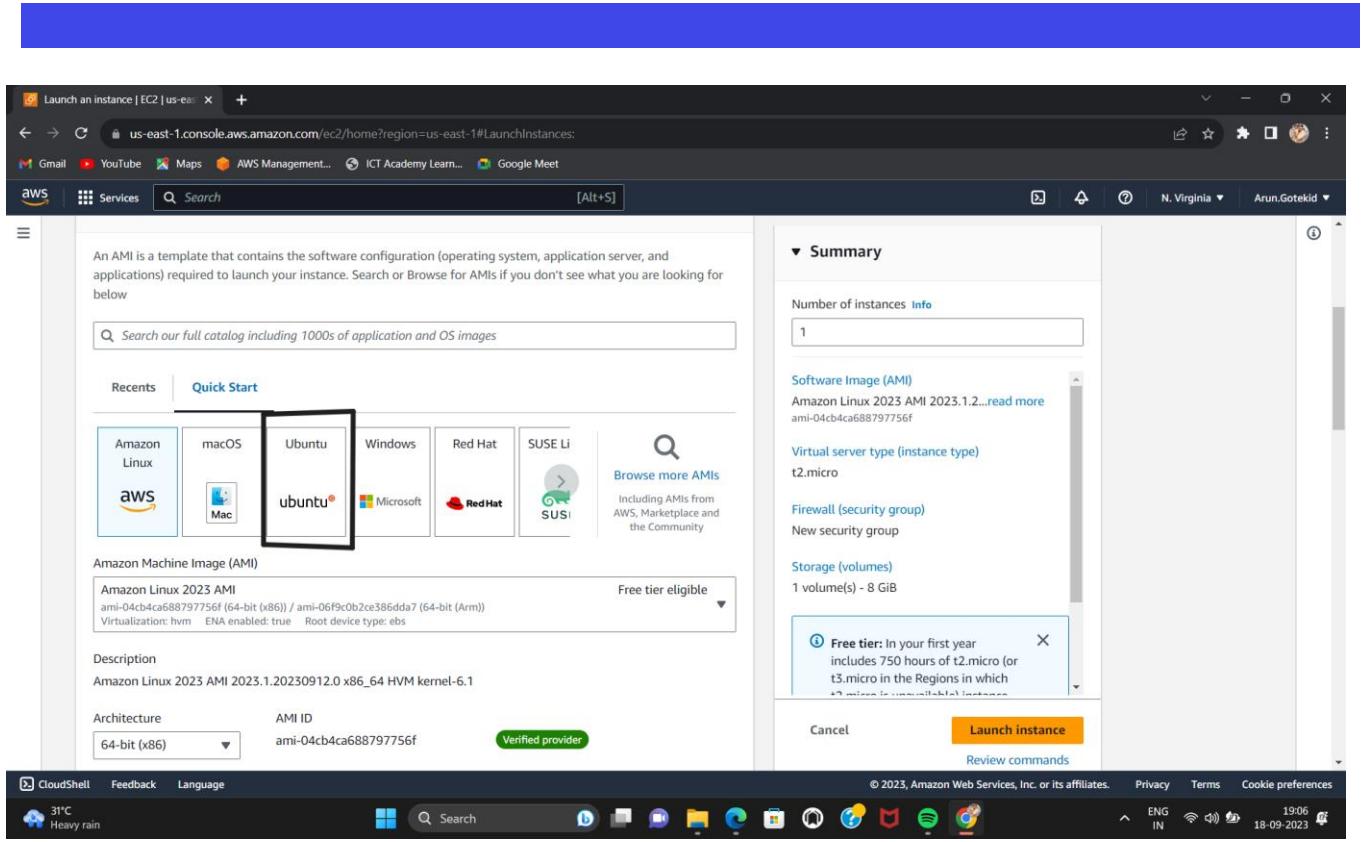
- Click instance .



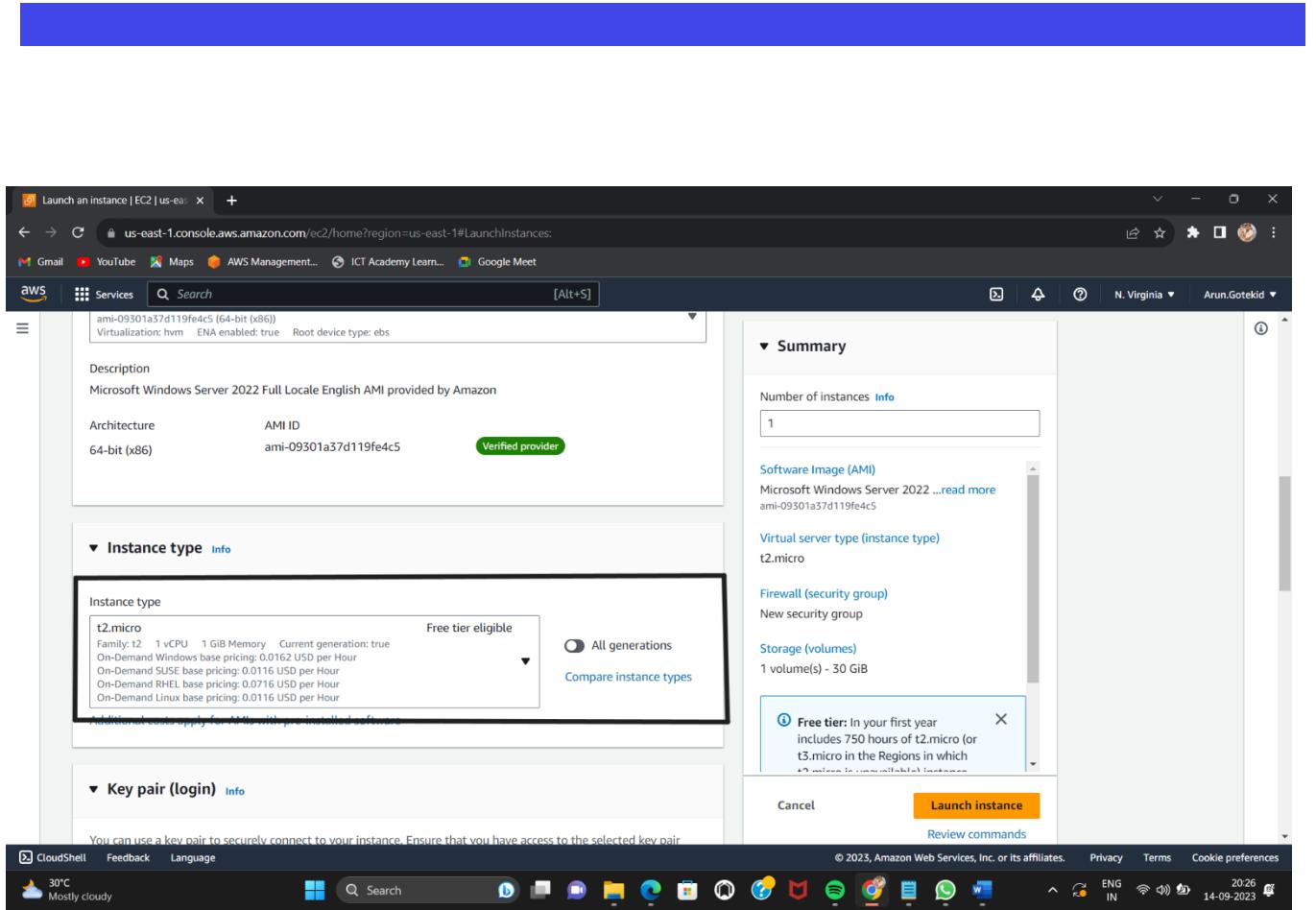
- Select Launch Instance .



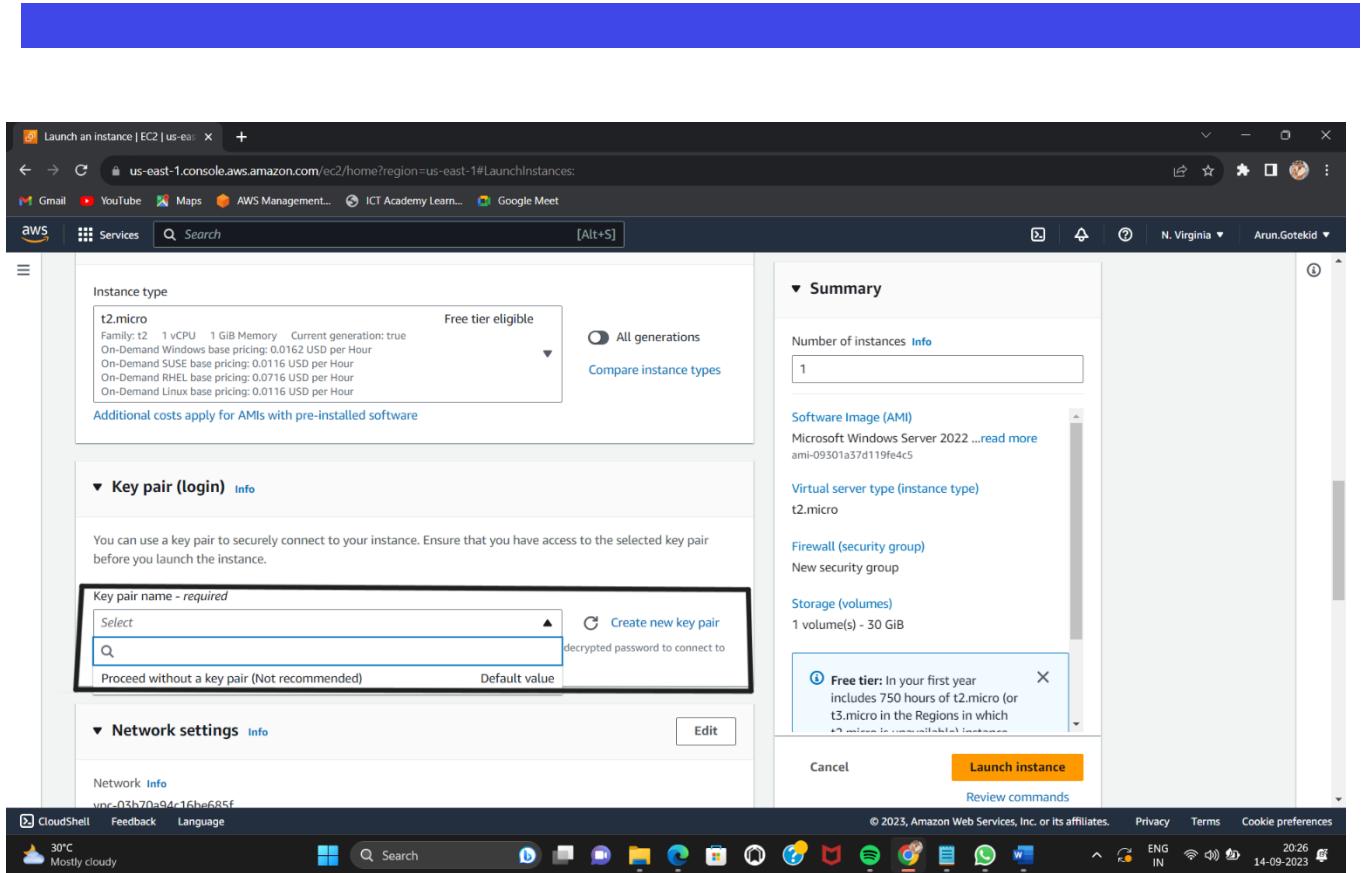
- Enter Name and tags info .
- First letter of first word should be in uppercase and first letter of second word should be in uppercase .
Eg) Aws Sop



- Select Ubuntu .
- check whether it is free tier eligible.



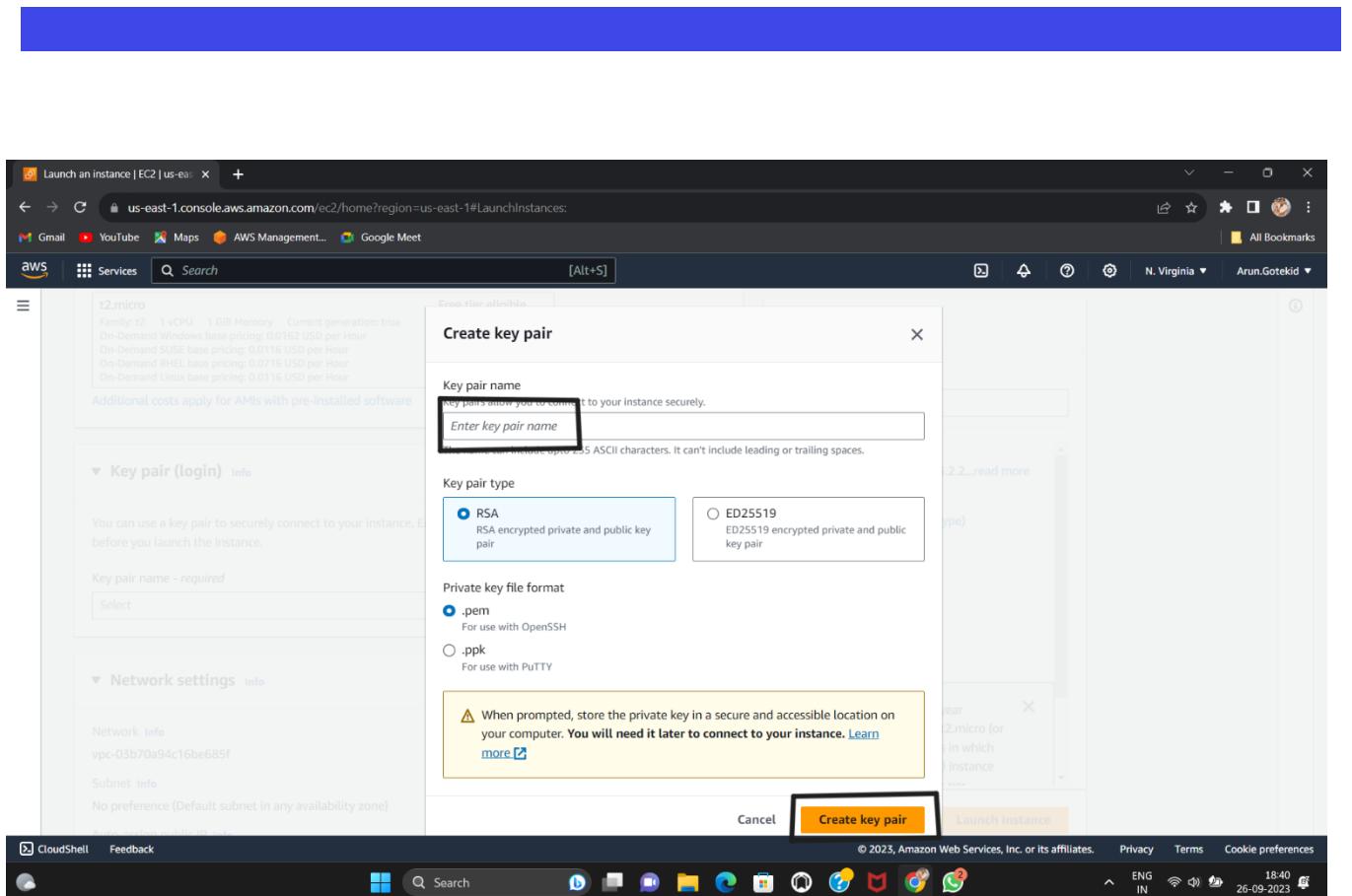
- Select the Instance type is t2.micro .
- Check whether it is Free tier eligible.



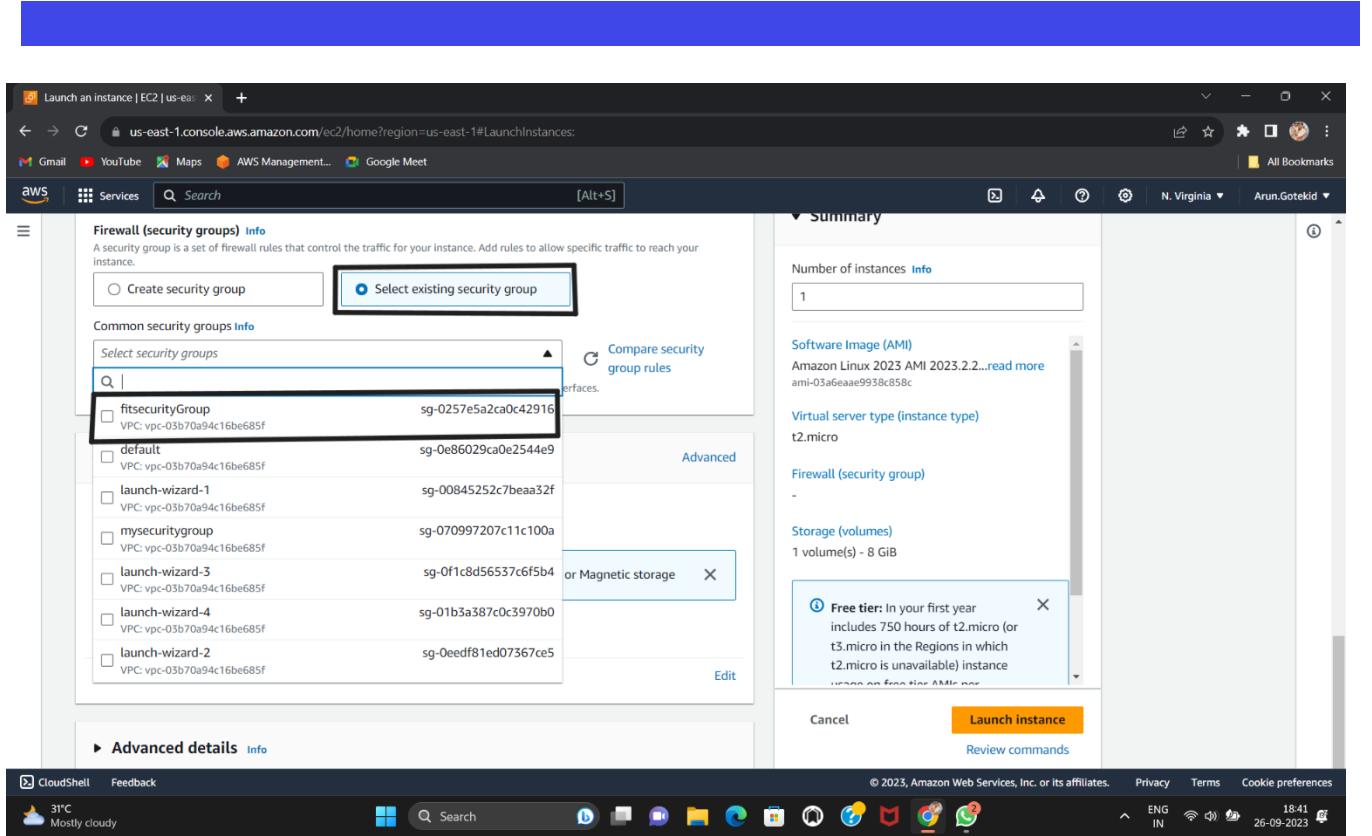
- Click Create a new key pair .

NOTE : If you already created the key pair . Do not need to create a new key pair .

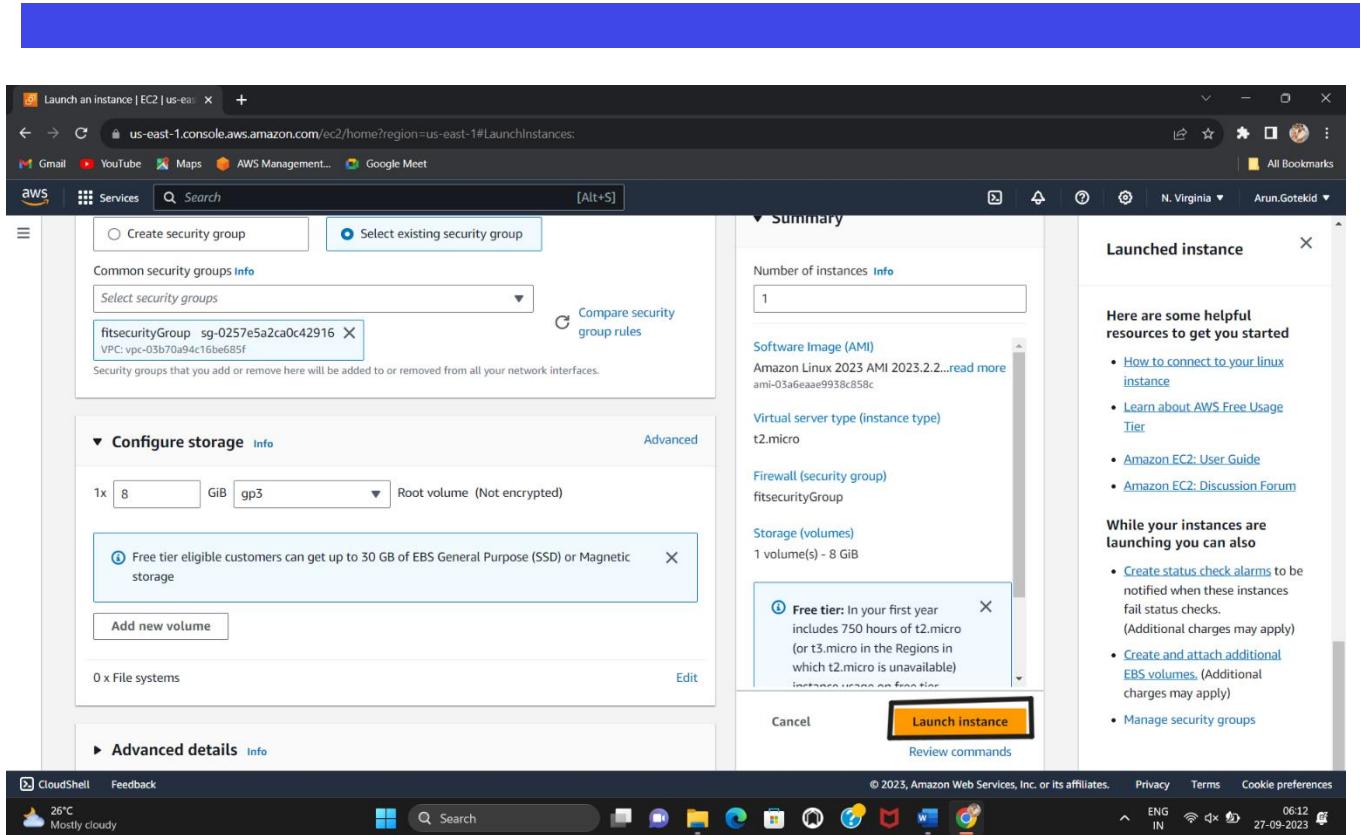
Drop down and click the key pair you have created .



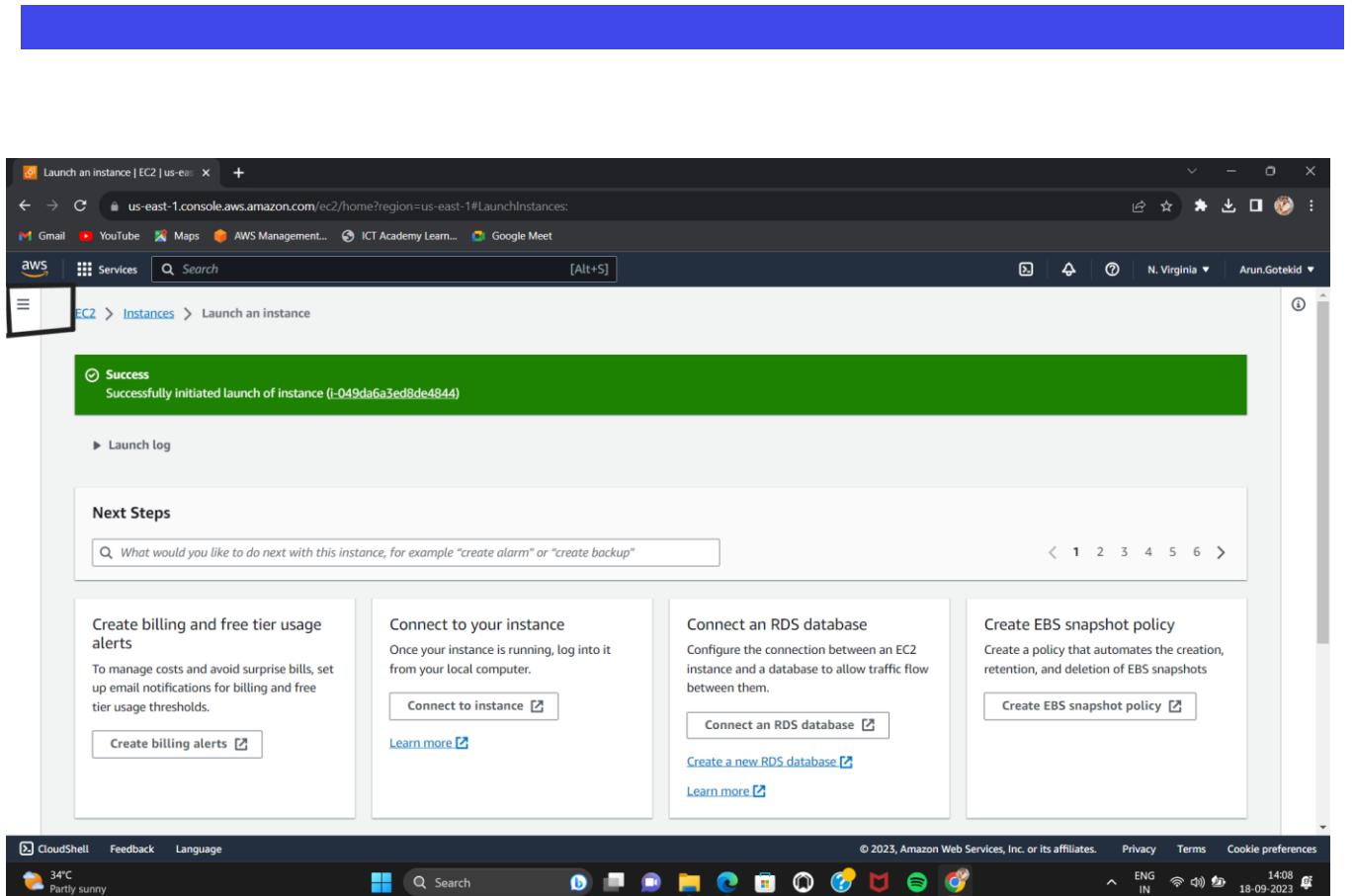
- Enter Key Pair Name .
- Click create key pair .



- Select the existing security group, which is you created .



● Select launch instance .



- Launch of instance is initiated .
- Click the dots under the aws logo .

The screenshot shows the AWS EC2 console in the us-east-1 region. The left sidebar is collapsed, and the main content area displays the 'Security Groups' page. A green success message at the top states: 'Security group (sg-0257e5a2ca0c42916 | fitsecurityGroup) was created successfully'. Below this, the security group details are shown:

Security group name	Security group ID	Description	VPC ID
fitsecurityGroup	sg-0257e5a2ca0c42916	for testing	vpc-03b70a94c16be685f

The 'Owner' is listed as 357033053826. Under the 'Inbound rules' tab, there is one rule entry:

Inbound rules (1/1)
Filter security group rules

At the bottom of the page, there are links for 'Actions', 'Edit inbound rules', 'Manage tags', and a search bar.

- Click Intsance .

The screenshot shows the AWS EC2 Instances page. On the left, there's a navigation sidebar with links like EC2 Dashboard, EC2 Global View, Events, Instances (selected), Images, AMIs, AMI Catalog, and Elastic Block Store. The main content area displays a table of instances:

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS
Aws Sop	i-049da6a3ed8de4844	Running	t2.micro	2/2 checks passed	No alarms	us-east-1b	ec2-52-200-196-
Aws Sop	i-005ad4c04c50579e1	Running	t2.micro	2/2 checks passed	No alarms	us-east-1b	ec2-3-85-42-48.c

Below the table, a modal window titled "Select an instance" is open, prompting the user to choose an instance to proceed.

- Select the Instance you created .

The screenshot shows the AWS EC2 Instances page. On the left, there's a sidebar with navigation links like EC2 Dashboard, EC2 Global View, Events, Instances (selected), Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Capacity Reservations, Images, AMIs, and AMI Catalog. Below the sidebar is a footer with CloudShell, Feedback, Language, and other system status indicators.

Instances (3) Info

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS
-	i-06ad48bc6536ee4de	Running	t2.micro	2/2 checks passed	No alarms	us-east-1b	ec2-3-88-31-49.c...
Aws Sop	i-0bcee20c5515fc002	Terminated	t2.micro	-	No alarms	us-east-1b	-
Linux Sop	i-0fff878d8a5b8c9d0	Running	t2.micro	(Initializing)	No alarms	us-east-1b	ec2-54-175-57-7...

Select an instance

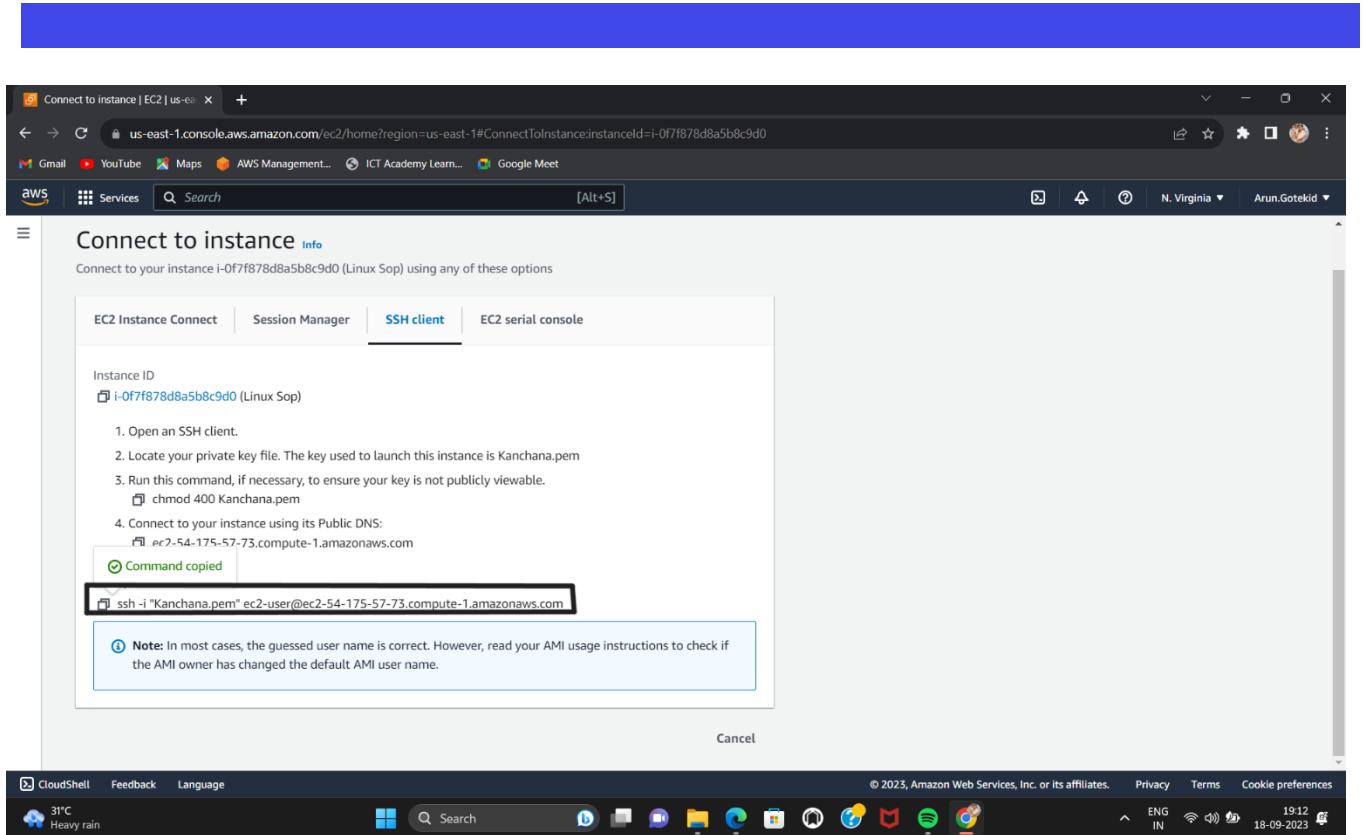
- Refresh the instance until the instance status get “2/2 checks passed”

The screenshot shows the AWS EC2 Instances page. At the top, there's a search bar and a 'Connect' button highlighted with a red box. Below the search bar is a table listing three instances:

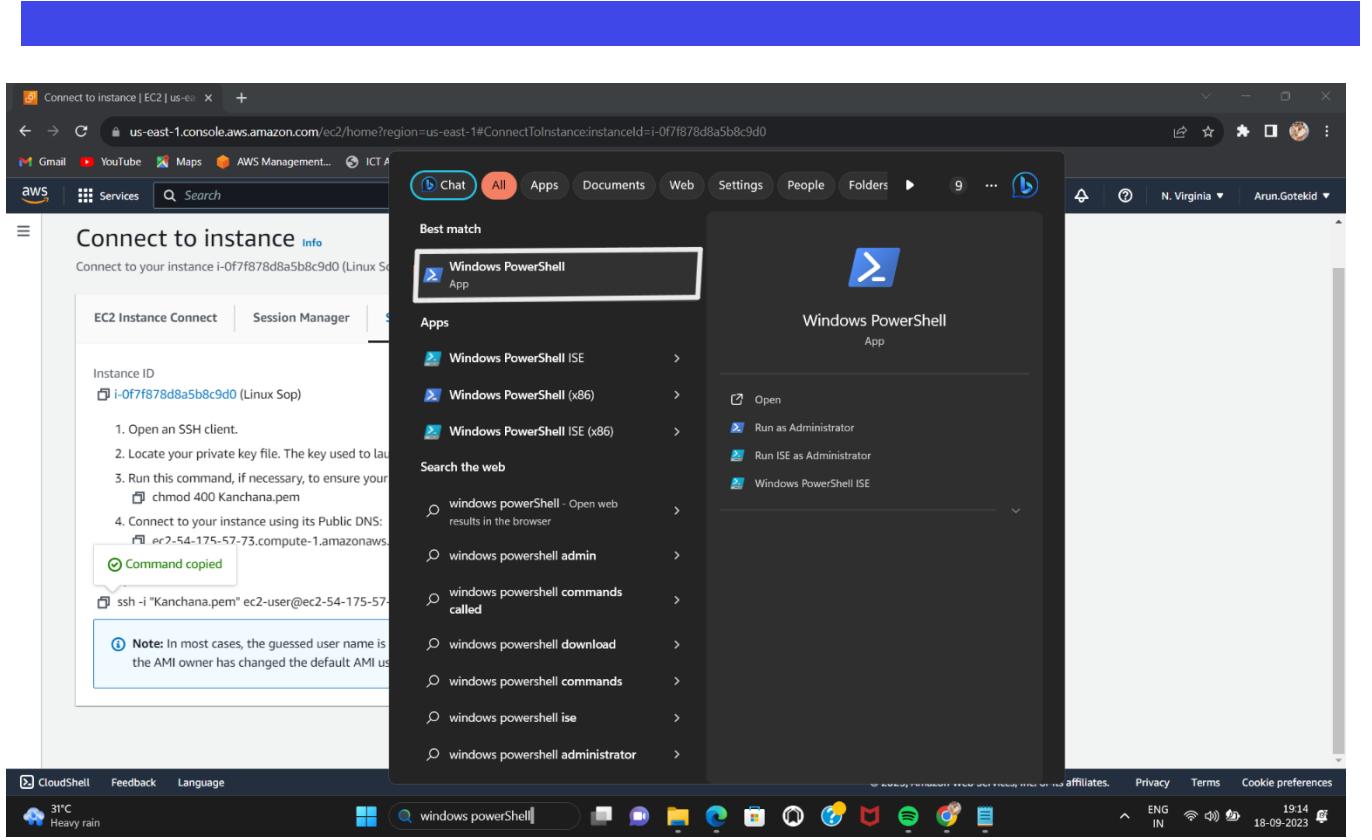
Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS
-	i-06ad48bc6536ee4de	Running	t2.micro	2/2 checks passed	No alarms	us-east-1b	ec2-3-88-31-49.c...
Aws Sop	i-0bcee20c5515fc002	Terminated	t2.micro	-	No alarms	us-east-1b	-
Linux Sop	i-0fff878d8a5b8c9d0	Running	t2.micro	2/2 checks passed	No alarms	us-east-1b	ec2-54-175-57-7

The left sidebar includes sections for EC2 Dashboard, EC2 Global View, Events, Instances (selected), Images, AMIs, AMI Catalog, and Elastic Block Store. The bottom of the screen shows a Windows taskbar with various icons and system status.

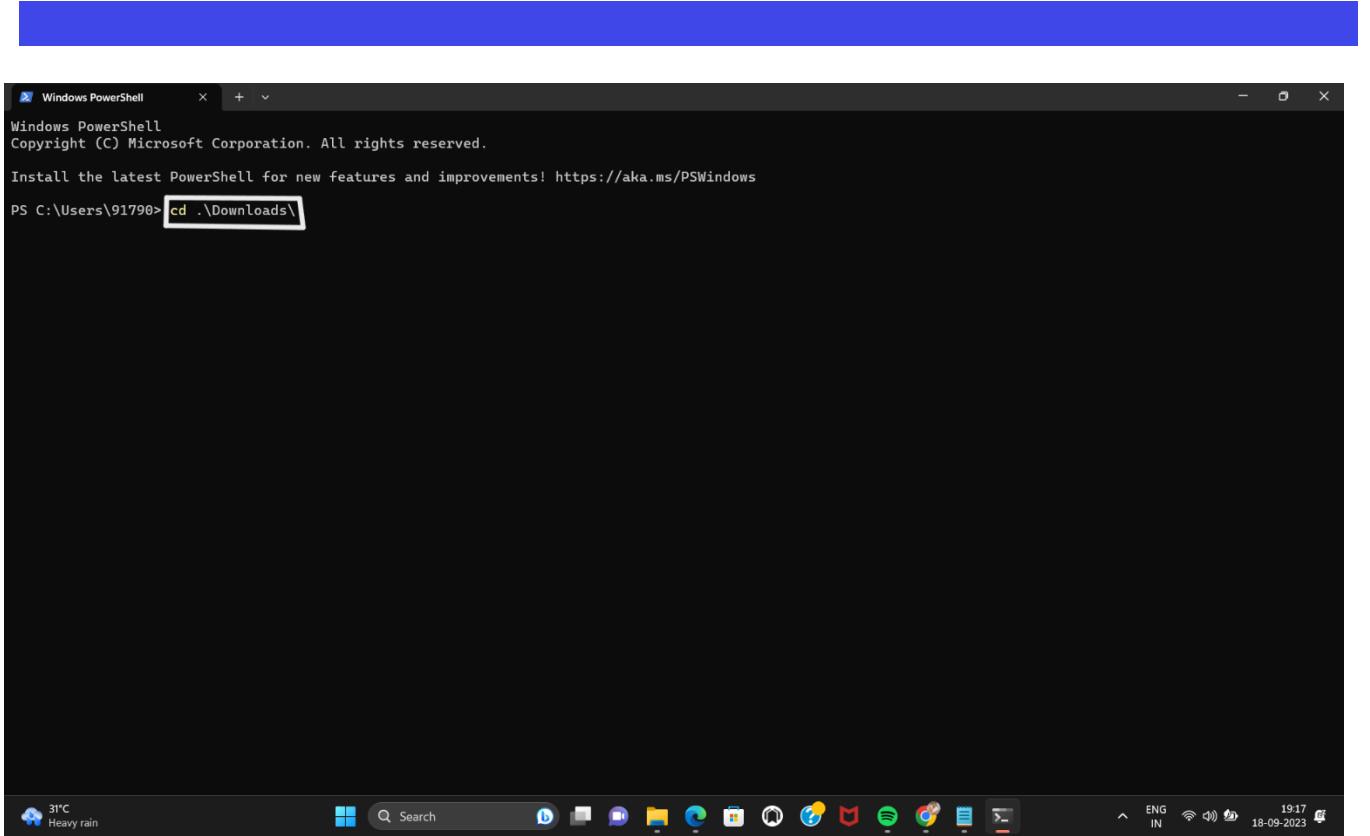
- Select the instance .
- Click connect .



- Click SSH Client.
- Copy the example and open a notepad, paste the example and save .



- Go to windows search and search WINDOWS POWER SHELL .



```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\91790> cd .\Downloads\
```

- After opened power shell .
- Use the command [cd Download]
- Hit enter .

```
ec2-user@ip-172-31-33-37:~ + v
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\91790> cd .\Downloads>
PS C:\Users\91790\Downloads> ssh -i "Kanchana.pem" ec2-user@ec2-54-175-57-73.compute-1.amazonaws.com
The authenticity of host 'ec2-54-175-57-73.compute-1.amazonaws.com (64.119.0.5949)' can't be established.
ED25519 key fingerprint is SHA256:ypfogYM6wHCgZvGVIWU/Ne+tC8h07MsMxXNcQ+t9DZQ.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? Yes
Warning: Permanently added 'ec2-54-175-57-73.compute-1.amazonaws.com' (ED25519) to the list of known hosts.

#_ _\_\_ #####_ Amazon Linux 2023
~~ \_\#\#\#\_
~~ \#\#\#
~~ \#\#/
~~ \#/ ___ https://aws.amazon.com/linux/amazon-linux-2023
~~ \~' '--->
~~ /_/
~~ ./_/ /_/
~~ /m/_/ /_/
/_/m/_/ /_/
[ec2-user@ip-172-31-33-37 ~]$ |
```

The screenshot shows a Windows PowerShell window titled 'ec2-user@ip-172-31-33-37:~'. The command entered is 'ssh -i "Kanchana.pem" ec2-user@ec2-54-175-57-73.compute-1.amazonaws.com'. The terminal displays the host's fingerprint and asks for confirmation to proceed. The user types 'Yes' and the connection is established. The terminal then shows the Amazon Linux 2023 welcome message. The taskbar at the bottom includes icons for weather (31°C Heavy rain), search, file explorer, and various application icons like Spotify and Google Chrome. The system tray shows the date (18-09-2023) and time (19:19).

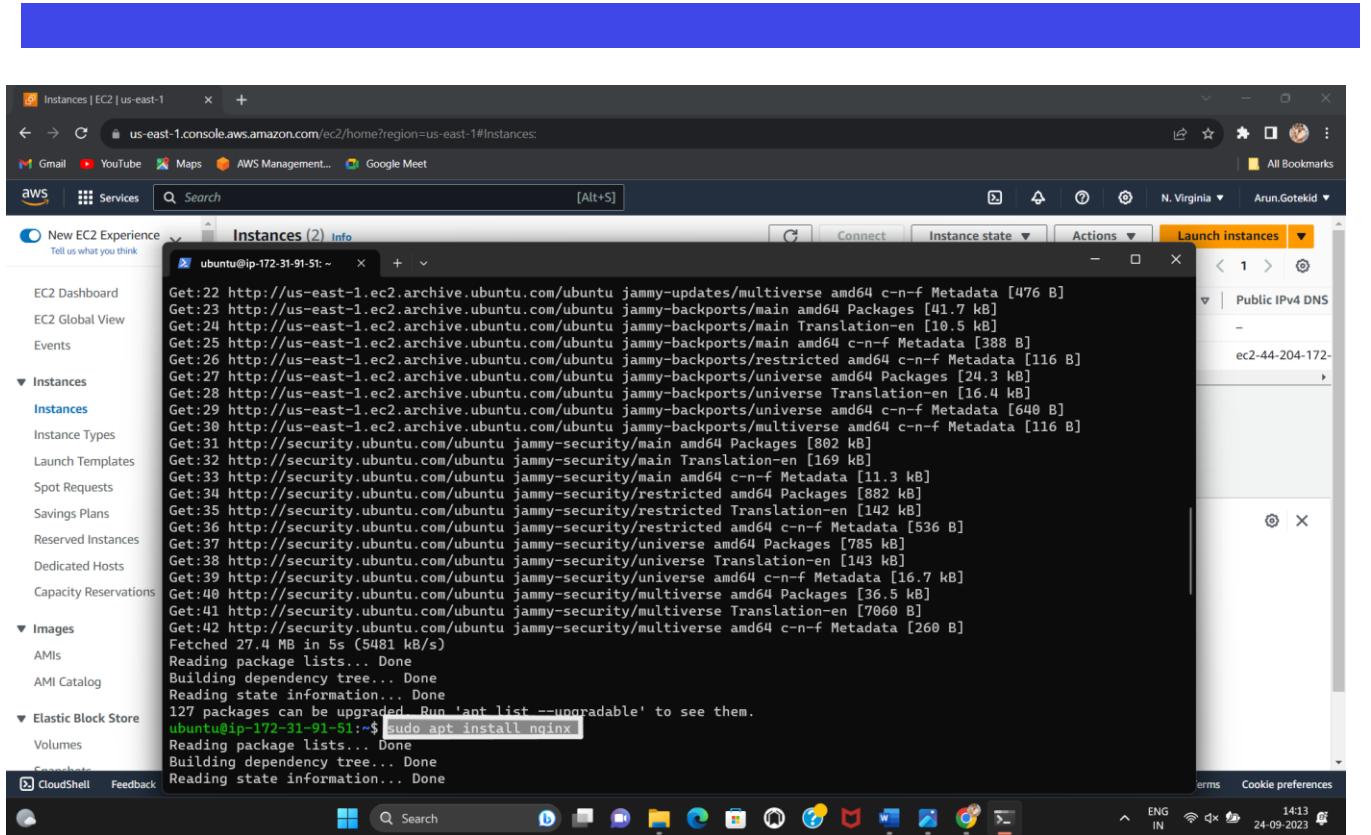
- Paste the example which you copied and saved in note pad .
- Hit enter .
- Then Type Yes .

```

ubuntu@ip-172-31-91-51:~ $ sudo apt update
Hit:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy InRelease
Get:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates InRelease [119 kB]
Get:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports InRelease [109 kB]
Get:4 http://security.ubuntu.com/ubuntu jammy-security InRelease [118 kB]
Get:5 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 Packages [14.1 MB]
Get:6 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/universe Translation-en [5652 kB]
Get:7 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 c-n-f Metadata [286 kB]
Get:8 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/multiverse amd64 Packages [217 kB]
Get:9 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/multiverse Translation-en [112 kB]
Get:10 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/multiverse amd64 c-n-f Metadata [8372 B]
Get:11 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 Packages [1012 kB]
Get:12 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main Translation-en [227 kB]
Get:13 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 c-n-f Metadata [15.6 kB]
Get:14 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/restricted amd64 Packages [898 kB]
Get:15 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/restricted Translation-en [145 kB]
Get:16 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/restricted amd64 c-n-f Metadata [536 B]
Get:17 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 Packages [984 kB]
Get:18 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/universe Translation-en [215 kB]
Get:19 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 c-n-f Metadata [21.8 kB]

```

- Type the command [sudo apt update].
- Hit enter .



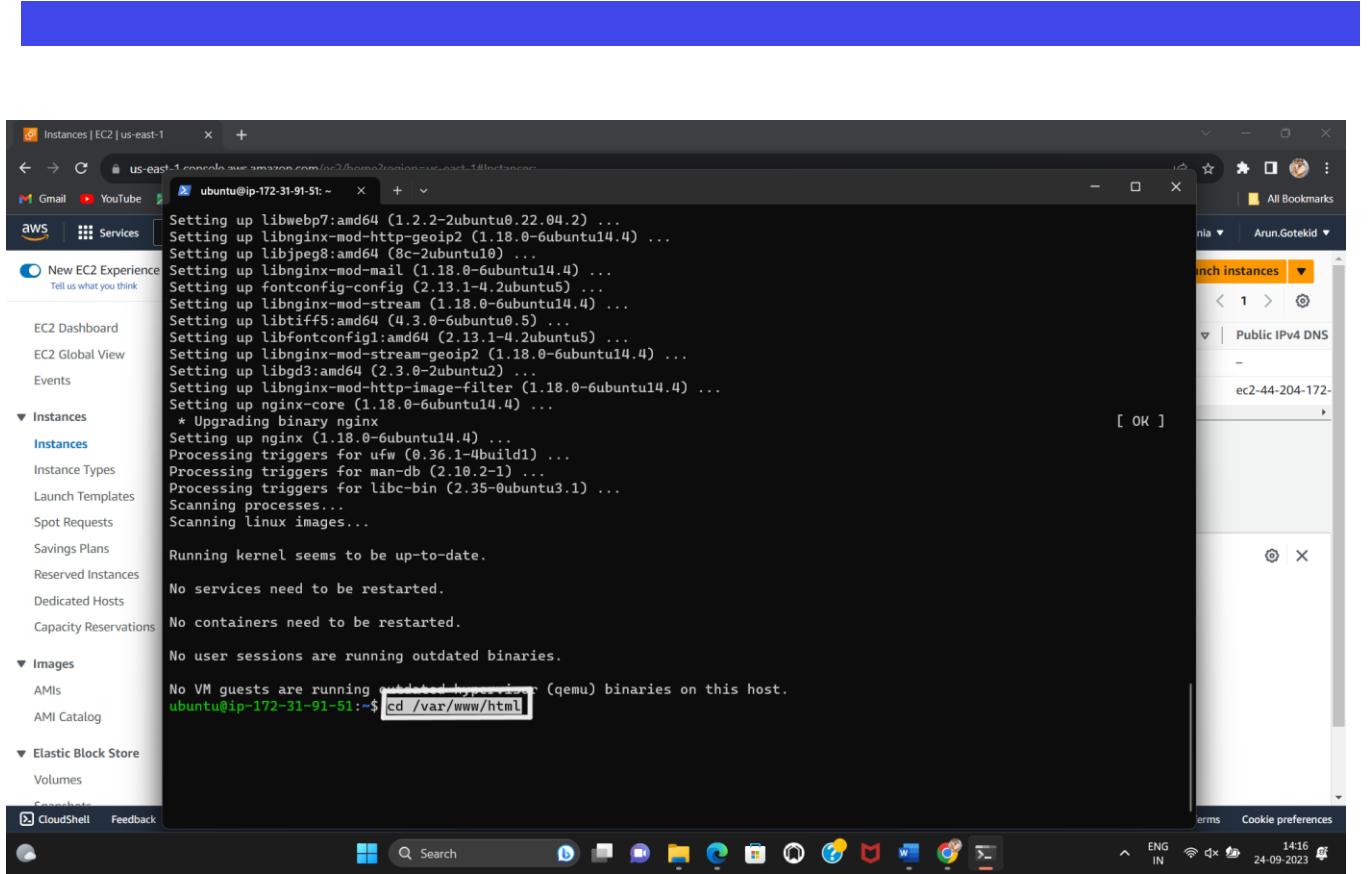
- Type the command [sudo apt install nginx].
- Hit enter .

```

ubuntu@ip-172-31-91-5: ~ + ~
Reading state information... Done
The following additional packages will be installed:
  fontconfig-config fonts-dejavu-core libdeflate0 libfontconfig1 libgd3 libjbig0 libjpeg-turbo0 libjpeg8
  libnginx-mod-http-geoip2 libnginx-mod-http-image-filter libnginx-mod-http-xslt-filter libnginx-mod-mail
  libnginx-mod-stream libnginx-mod-stream-geoip2 libtiff5 libwebp7 libxpm4 nginx-common nginx-core
Suggested packages:
  libgd-tools fcgiwrap nginx-doc ssl-cert
The following NEW packages will be installed:
  fontconfig-config fonts-dejavu-core libdeflate0 libfontconfig1 libgd3 libjbig0 libjpeg-turbo0 libjpeg8
  libnginx-mod-http-geoip2 libnginx-mod-http-image-filter libnginx-mod-http-xslt-filter libnginx-mod-mail
  libnginx-mod-stream libnginx-mod-stream-geoip2 libtiff5 libwebp7 libxpm4 nginx nginx-common nginx-core
0 upgraded, 20 newly installed, 0 to remove and 127 not upgraded.
Need to get 2691 kB of archives.
After this operation, 8339 kB of additional disk space will be used.
Do you want to continue? [Y/n] Y
Get:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/main amd64 fonts-dejavu-core all 2.37-2build1 [1041 kB]
Get:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/main amd64 fontconfig-config all 2.13.1-4.2ubuntu5 [29.1 kB]
Get:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/main amd64 libdeflate0 amd64 1.10-2 [70.9 kB]
Get:4 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/main amd64 libfontconfig1 amd64 2.13.1-4.2ubuntu5 [131 kB]
Get:5 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/main amd64 libjpeg-turbo0 amd64 2.1.2-0ubuntu1 [134 kB]
Preparing to unpack .../19-nginx_1.18.0-6ubuntu14.4_amd64.deb ...
Unpacking nginx (1.18.0-6ubuntu14.4) ...
Setting up libxpm4:amd64 (1:3.5.12-1ubuntu0.22.04.1) ...
Setting up libdeflate0:amd64 (1.10-2) ...
Setting up libnginx-common (1.18.0-6ubuntu14.4) ...
Created symlink /etc/systemd/system/multi-user.target.wants/nginx.service → /lib/systemd/system/nginx.service.
Setting up libjbig0:amd64 (2.1-3.1ubuntu0.22.04.1) ...
Setting up libnginx-mod-http-xslt-filter (1.18.0-6ubuntu14.4) ...
Setting up fonts-dejavu-core (2.37-2build1) ...
Setting up libjpeg-turbo0:amd64 (2.1.2-0ubuntu1) ...

```

- Type Y and hit enter .



- Type the command [cd /var/www/html].
- Hit enter .

The screenshot shows a CloudShell session on an EC2 instance. The terminal window displays the following command and its output:

```
ubuntu@ip-172-31-91-51:/var/www/html$ ls
index.nginx-debian.html
```

- Type the command [ls] For check any default files in html .
- Hit enter .

The screenshot shows a CloudShell session in the AWS Management Console. The terminal window displays the following command and its execution:

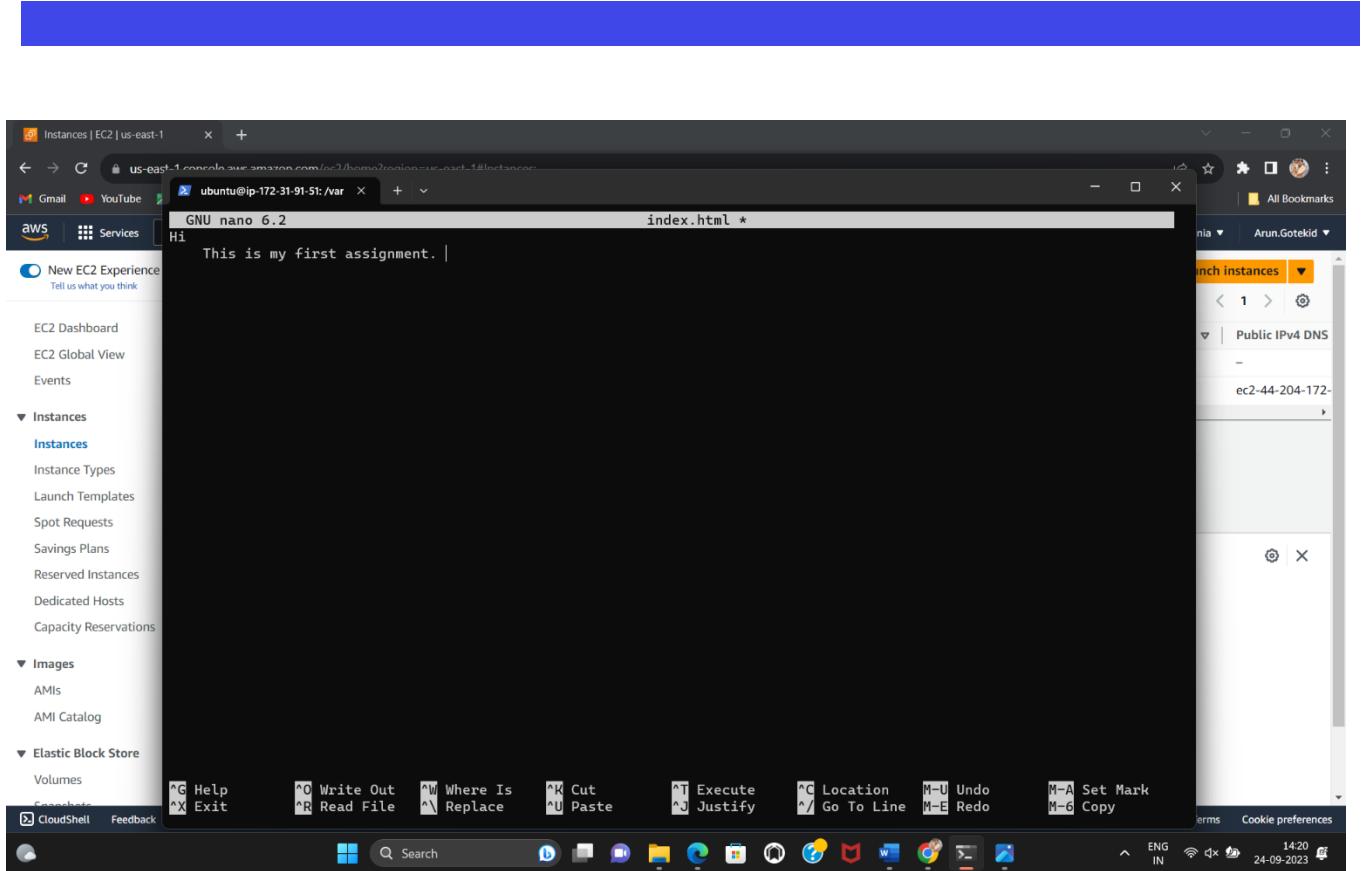
```
ubuntu@ip-172-31-91-51:~$ cd /var/www/html
ubuntu@ip-172-31-91-51:/var/www/html$ ls
index.nginx-debian.html
ubuntu@ip-172-31-91-51:/var/www/html$ sudo rm index.nginx-debian.html
ubuntu@ip-172-31-91-51:/var/www/html$ ls
```

- Type the command [`sudo rm index.nginx-debian.html`]
- Hit enter .
- Then Type [`ls`] command for recheck there is any default files .

The screenshot shows a CloudShell session in the AWS Management Console. The terminal window displays the following command and its execution:

```
ubuntu@ip-172-31-91-51:~$ sudo nano index.html
```

- Type the command [sudo nano index.html].
- Hit enter .



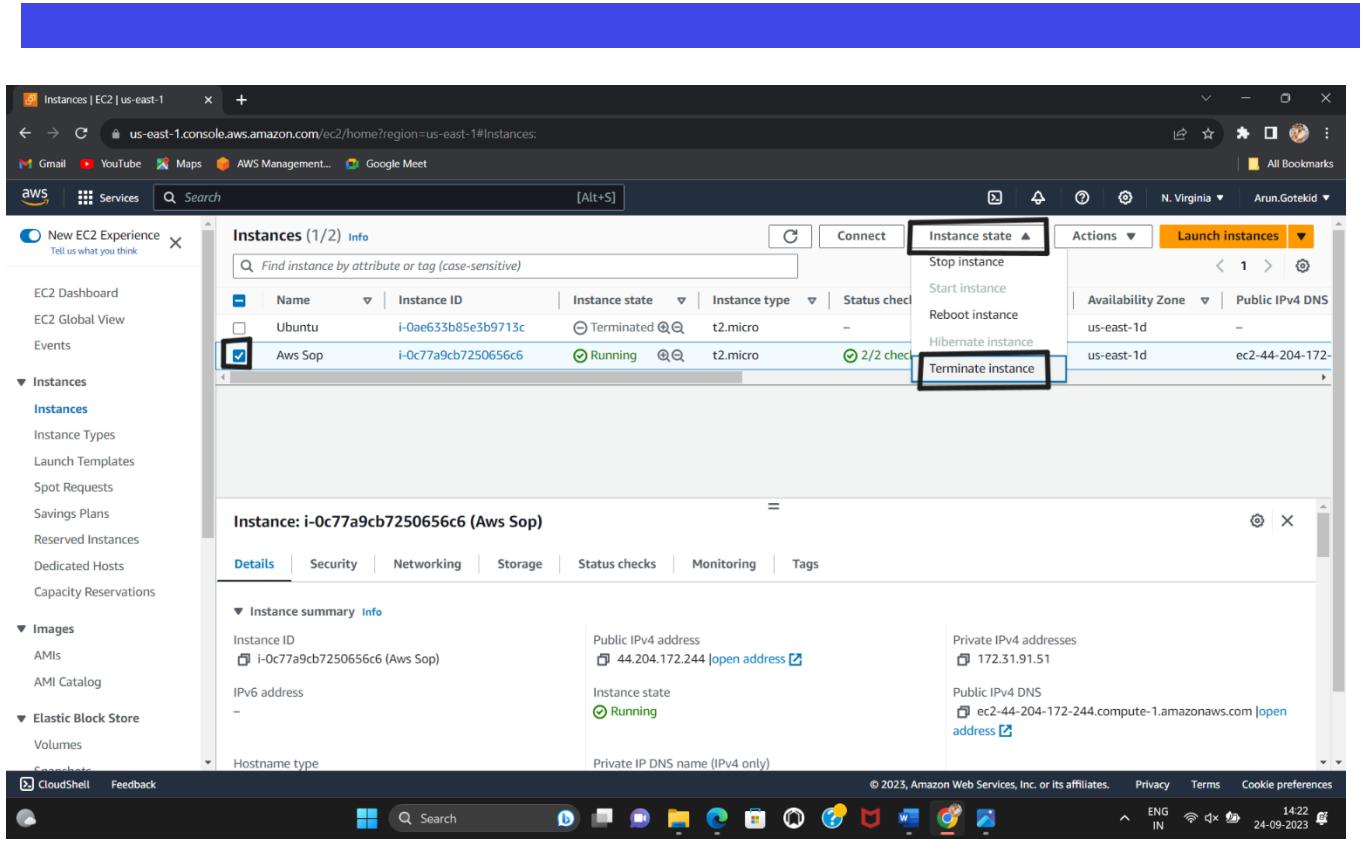
- Type something in this page .
- Then click CRTL O
- Hit enter .
- Click CRTL X .

The screenshot shows the AWS EC2 Instances page. On the left, there's a sidebar with navigation links like EC2 Dashboard, EC2 Global View, Events, Instances (selected), Images, AMIs, and Elastic Block Store. The main content area displays a table of instances. One instance, named 'Aws Sop' with Instance ID i-0c77a9cb7250656c6, is selected and highlighted with a blue border. The instance is listed as 'Running' in the 'Status checks' column. To the right of the table, there's a 'Actions' dropdown menu with options: Stop instance, Start instance, Reboot instance, Hibernate instance, and Terminate instance (which is currently selected and highlighted). Below the table, a detailed view for the selected instance is shown, including its summary, public and private IP addresses, and instance state.

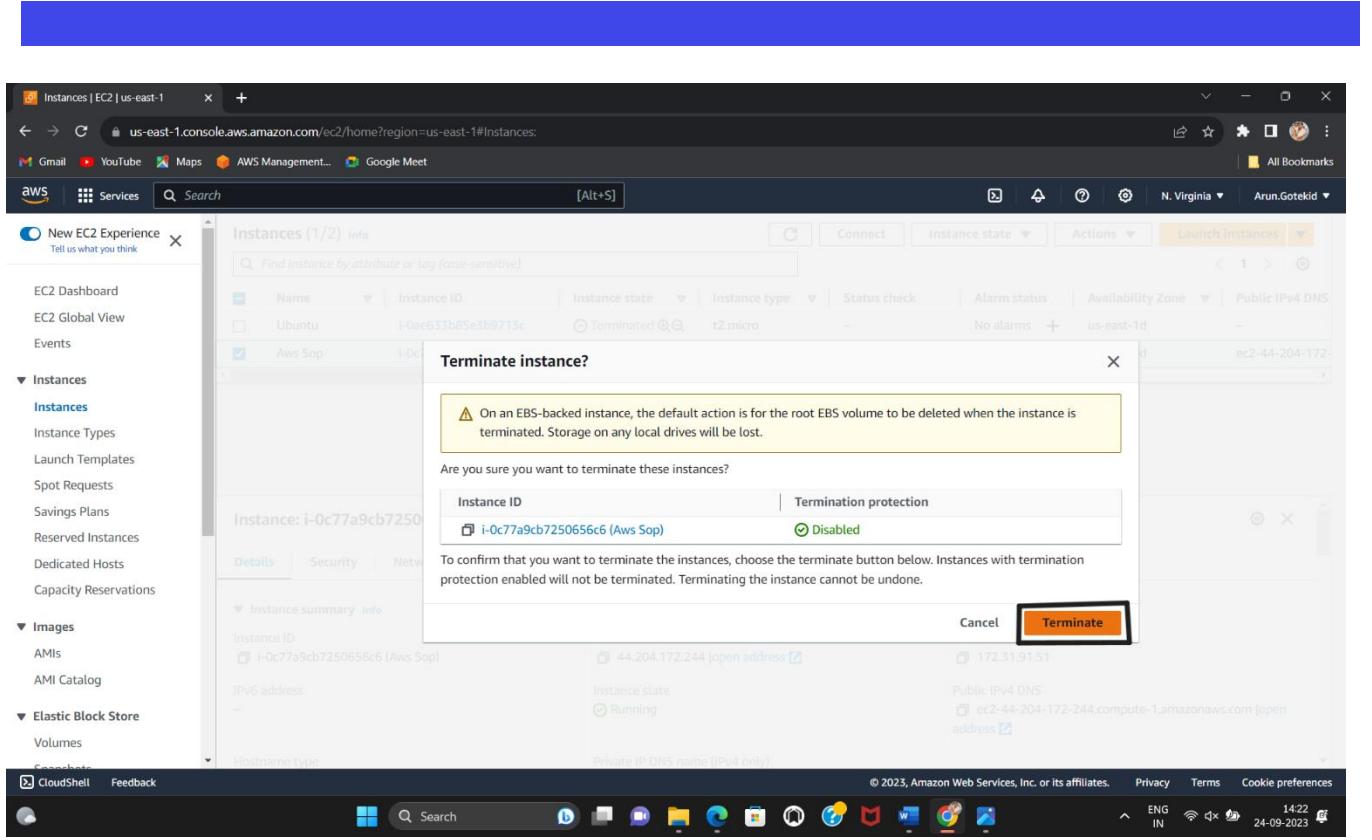
- Copy the Public IP address and paste it in a new tab .



- The web page is opened .



- Select the instance and click instance state to terminate the instance .



- Click terminate .

The screenshot shows the AWS EC2 Instances page. The top navigation bar includes links for Gmail, YouTube, Maps, AWS Management Console, ICT Academy Learn..., Google Meet, and the user Arun.Gotekid. The main content area displays a table of instances:

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS
-	i-06ad48bc6536ee4de	Running	t2.micro	2/2 checks passed	No alarms	us-east-1b	ec2-3-88-31-49.c...
Aws Sop	i-0bcee20c5515fc002	Terminated	t2.micro	-	No alarms	us-east-1b	-
Linux Sop	i-0fff878d8a5b8c9d0	Running	t2.micro	Initializing	No alarms	us-east-1b	ec2-54-175-57-7...

The "Instance state" column header is highlighted with a red box. A second red box highlights the "Terminated" status of the instance named "Aws Sop". Below the table, a modal window titled "Select an instance" is open.

- The instance is terminated .



THANK YOU