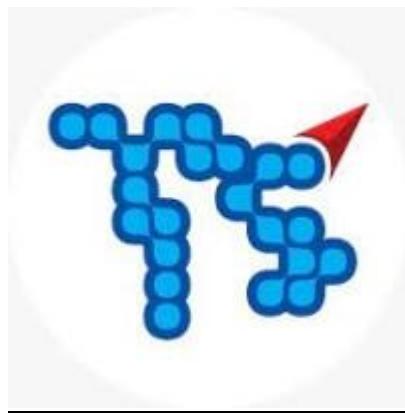


SOP0003_CREATION OF LINUX INSTANCE

Document Version / Détails : Ver 0.1



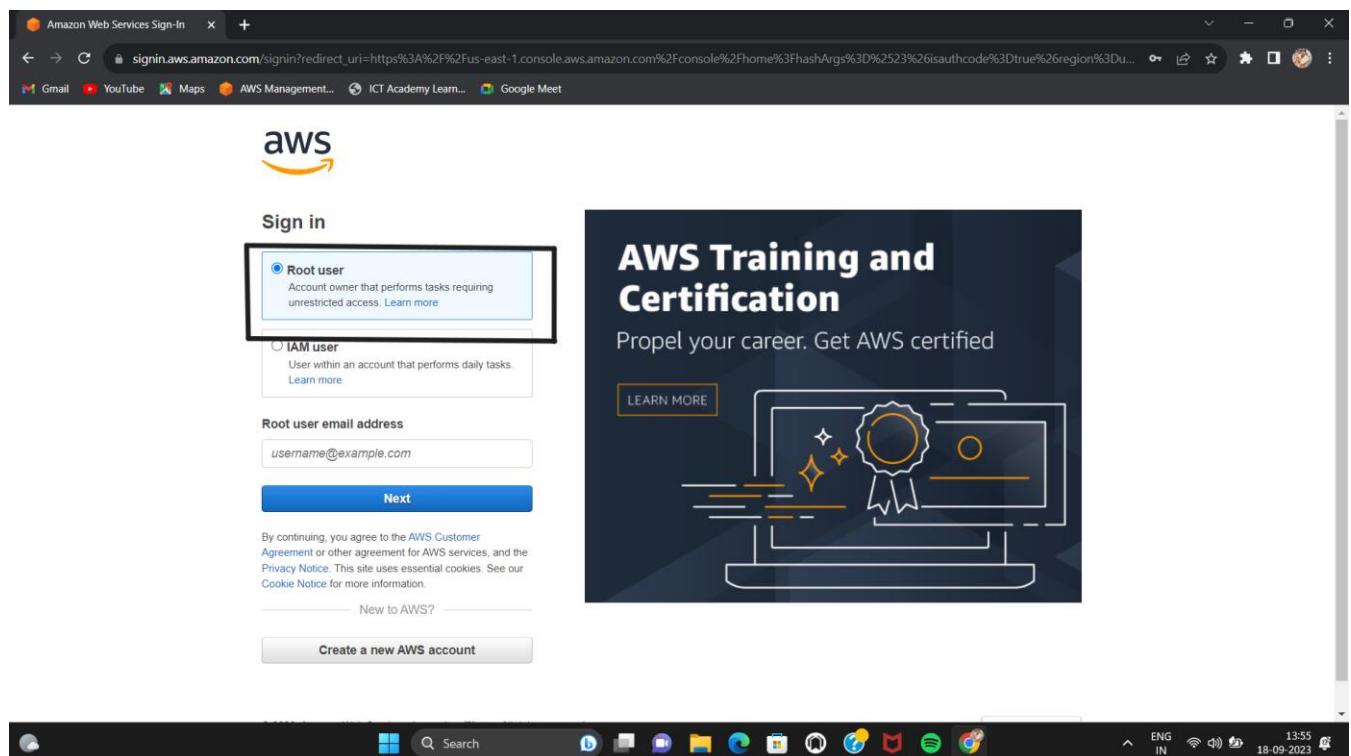
Record of Release

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

Objective

The objective of this document is to specify the SOP for creating the LINUX VIRTUAL MACHINE .

1.1.1 Work Flows



- Go to login page . Sign in with Root user .
<https://console.aws.amazon.com/ec2/>
- Enter the 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%3FflashArgs%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](#)

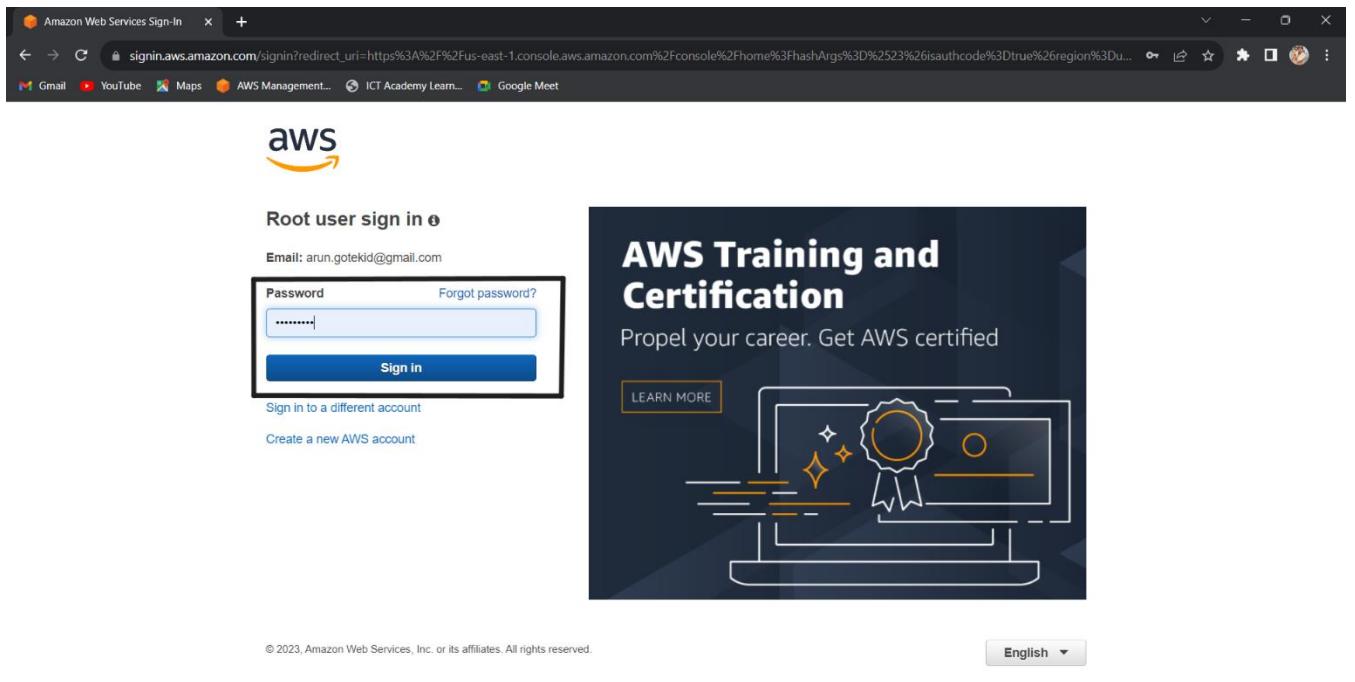
AWS Training and Certification

Propel your career. Get AWS certified

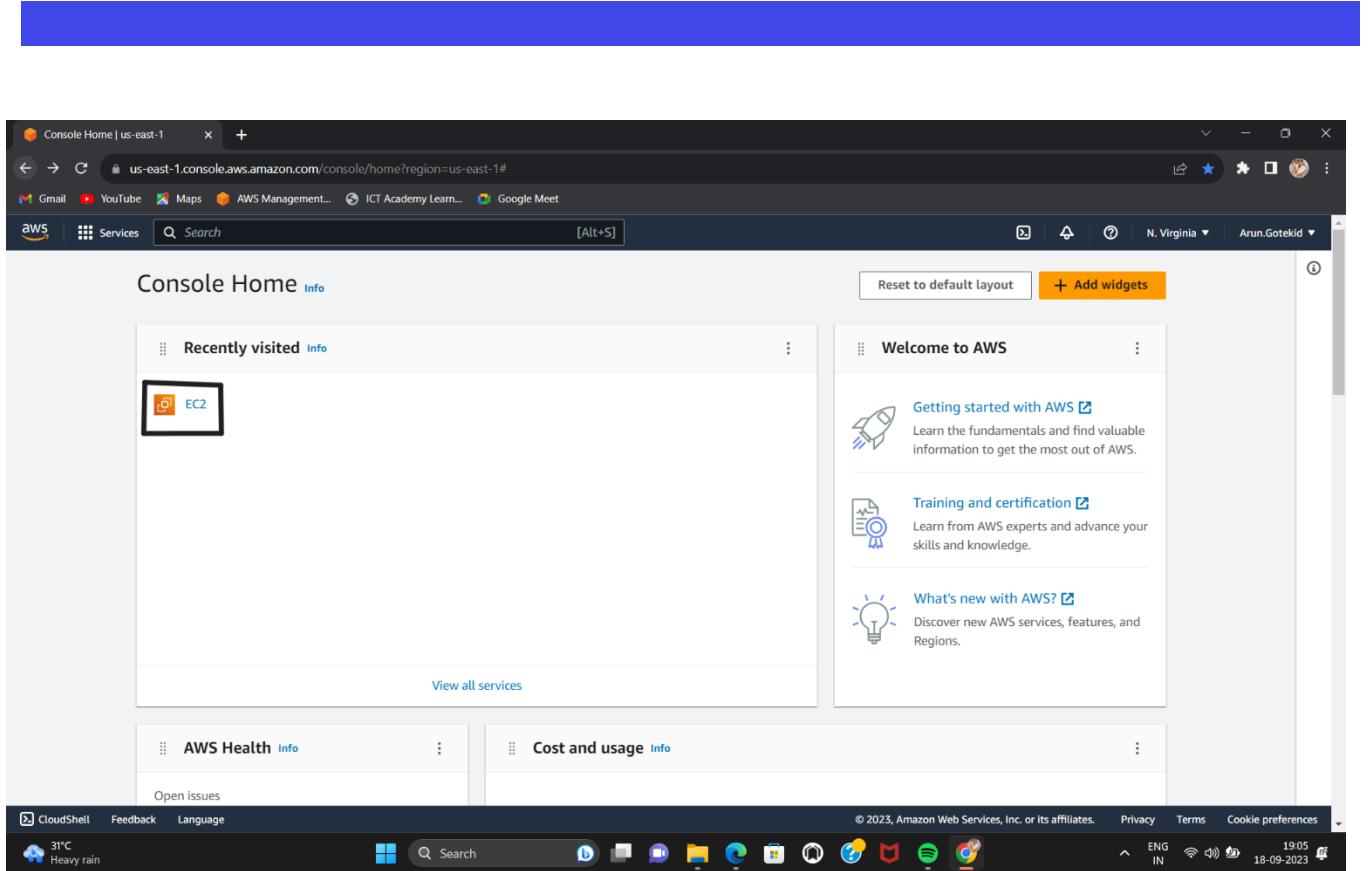
[LEARN MORE](#)

© 2023, Amazon Web Services, Inc. or its affiliates. All rights reserved.

English ▾



- Enter the password and sign in .



- Click EC2 .



SECURITY GROUP CREATION :

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

- Resources**: A summary of Amazon EC2 resources in the region:

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 a new EC2 instance, with a prominent orange "Launch instance" button.
- Service health**: A link to the AWS Health Dashboard.
- Zones**: A table showing available zones:

Zone name	Zone ID
us-east-1a	use1-az4
- Account attributes**: Settings for the Default VPC (vpc-03b70a94c16be685f), Data protection and security, Zones, EC2 Serial Console, Default credit specification, and Console experiments.
- Explore AWS**: A promotional box highlighting up to 40% better performance and 20% lower cost by moving to Graviton-based instances.

The browser address bar shows the URL: <https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#SecurityGroups>.

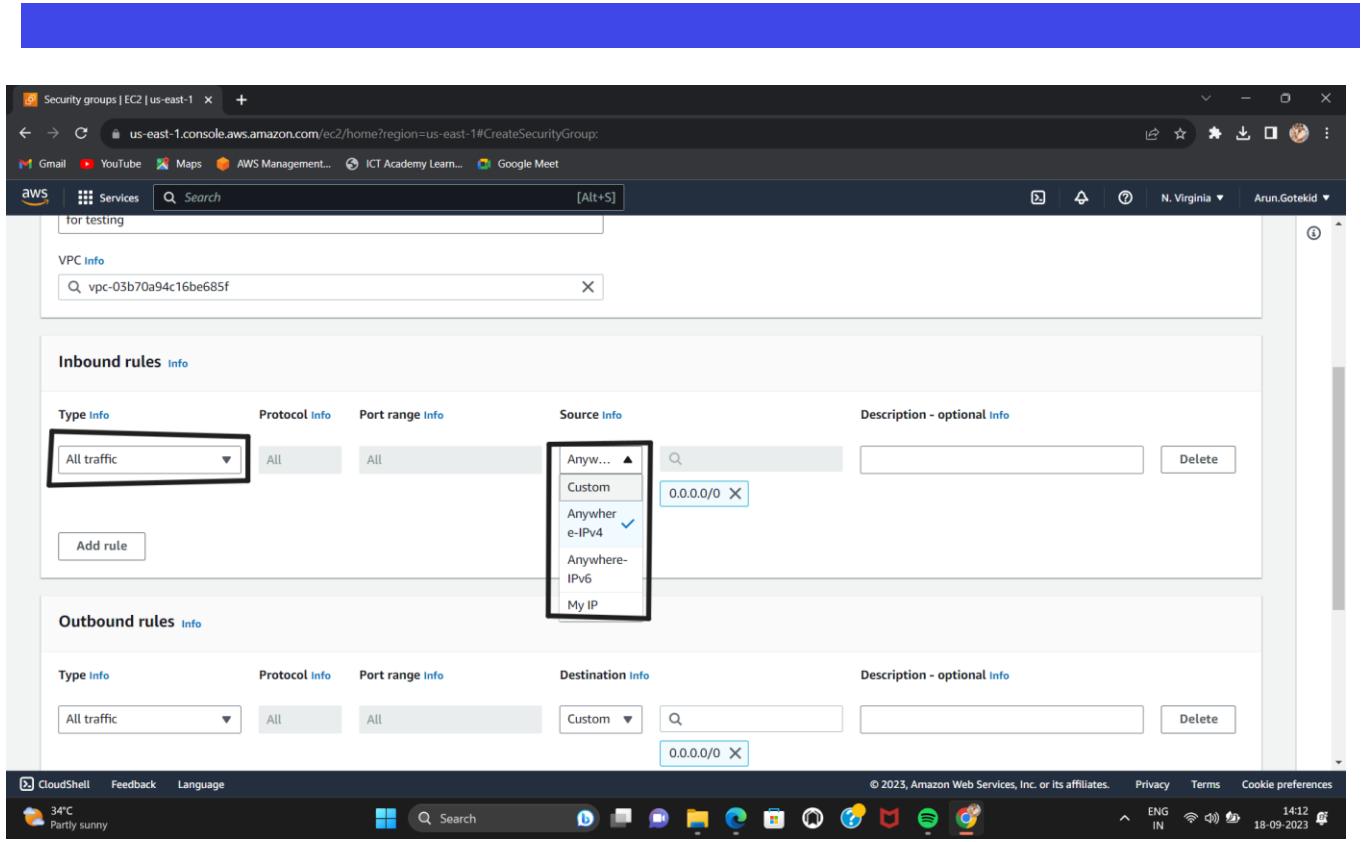
- Click security group .

The screenshot shows the AWS Management Console interface for the EC2 service, specifically the Security Groups page. The left sidebar contains navigation links for Images, AMIs, AMI Catalog, Elastic Block Store (Volumes, Snapshots, Lifecycle Manager), Network & Security (Security Groups, Elastic IPs, Placement Groups, Key Pairs, Network Interfaces), Load Balancing (Load Balancers, Target Groups), and Auto Scaling (Auto Scaling Groups). The main content area displays a table titled 'Security Groups (3) Info' with columns: Name, Security group ID, Security group name, VPC ID, Description, and Owner. The table lists three entries: 'default' (sg-0e86029ca0e2544e9), 'launch-wizard-1' (sg-00845252c7beaa32f), and 'launch-wizard-2' (sg-0eedff81ed07367ce5). An orange button labeled 'Create security group' is located in the top right corner of the table header. The browser's address bar shows the URL: us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#SecurityGroups.

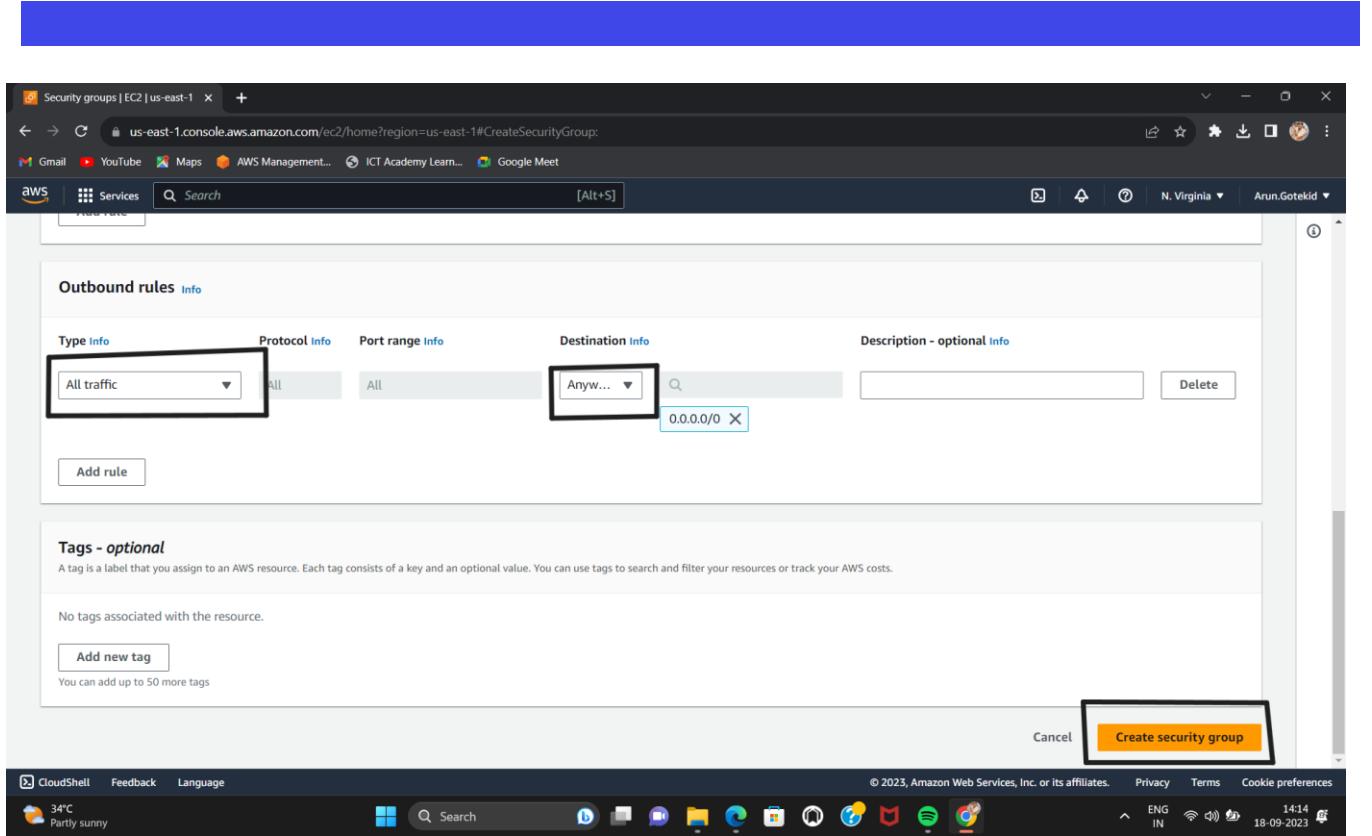
- Click create security group .

The screenshot shows the AWS Management Console with the URL us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#CreateSecurityGroup. The page is titled "Create security group". It includes a "Basic details" section with fields for "Security group name" (containing "fitsecurityGroup") and "Description" (containing "for testing"). A "VPC Info" section shows a dropdown menu with "vpc-03b70a94c16be685f". Below this is an "Inbound rules" section stating "This security group has no inbound rules." The browser's address bar and various tabs are visible at the top.

- Enter security group name .
- Give description info .



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



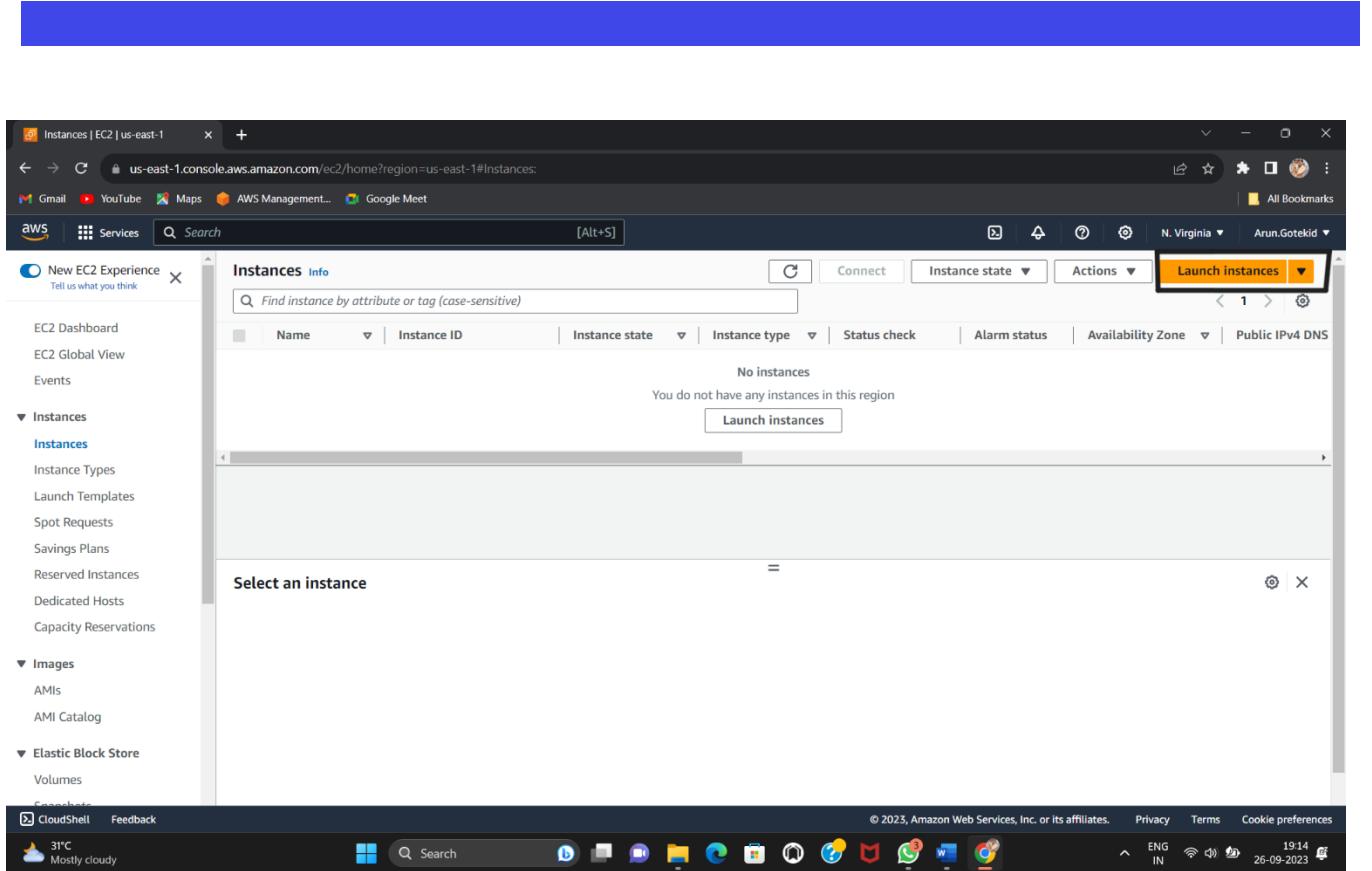
- Give outbound rules .
- Type is ALL TRAFFIC .
- Source is ANYWHERE e-IPv4 .
- Then click “Create security group”.



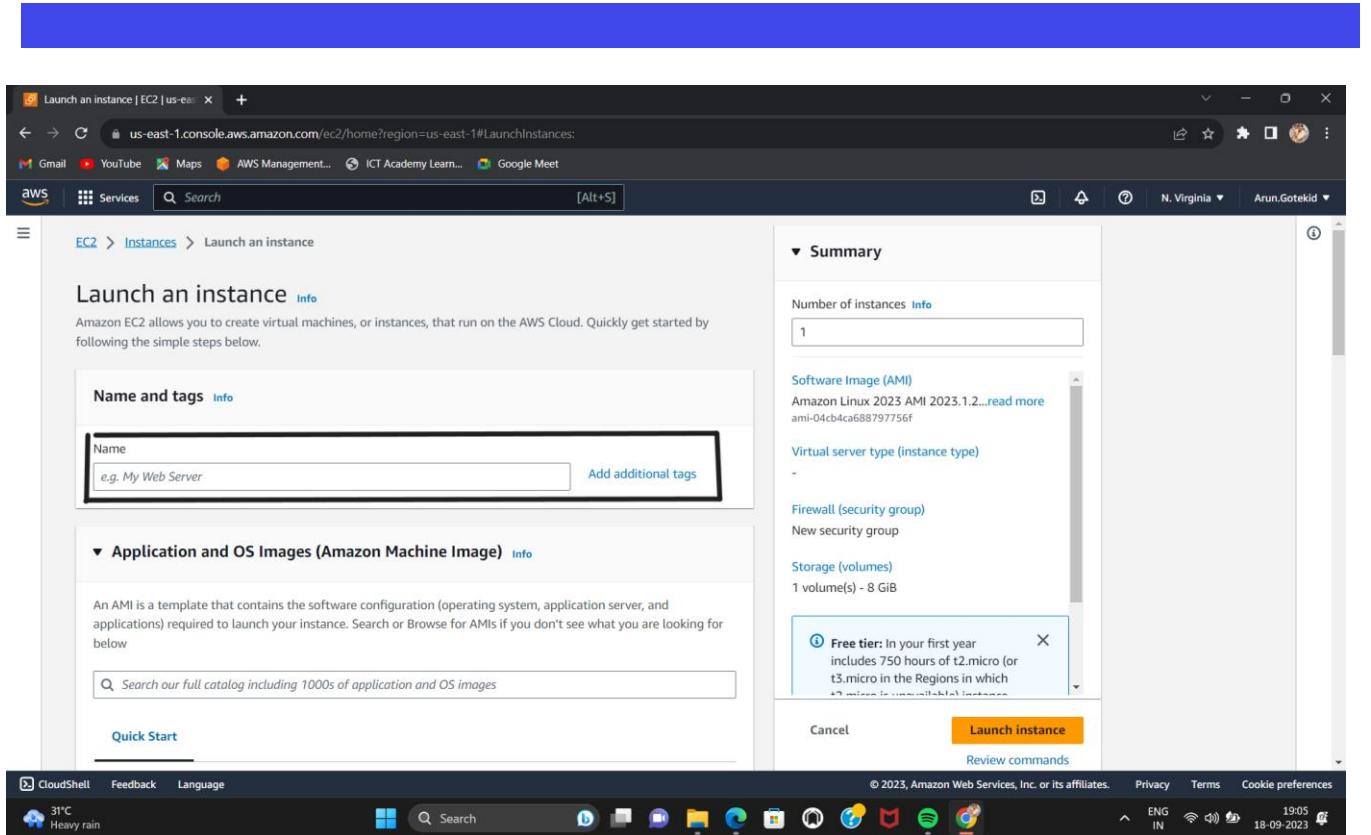
INSTANCE CREATION :

The screenshot shows the AWS EC2 console in the us-east-1 region. The left sidebar is collapsed. The main content area displays a green success message: "Security group (sg-01ab9deffd597d43e | WebSecure) was created successfully". Below this, the breadcrumb navigation shows "EC2 > Security Groups > sg-01ab9deffd597d43e - WebSecure". The page title is "sg-01ab9deffd597d43e - WebSecure". On the left, a sidebar menu is open, showing sections like Instances (selected), Images, and Elastic Block Store. The Instances section has sub-options like Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, and Capacity Reservations. The main content area has tabs for Details, Inbound rules, Outbound rules, and Tags. Under Inbound rules, it shows 1 rule: "Allow traffic from 0.0.0.0/0". The VPC ID is listed as "vpc-03b70a94c16be685f". The bottom of the screen shows the Windows taskbar with various pinned icons.

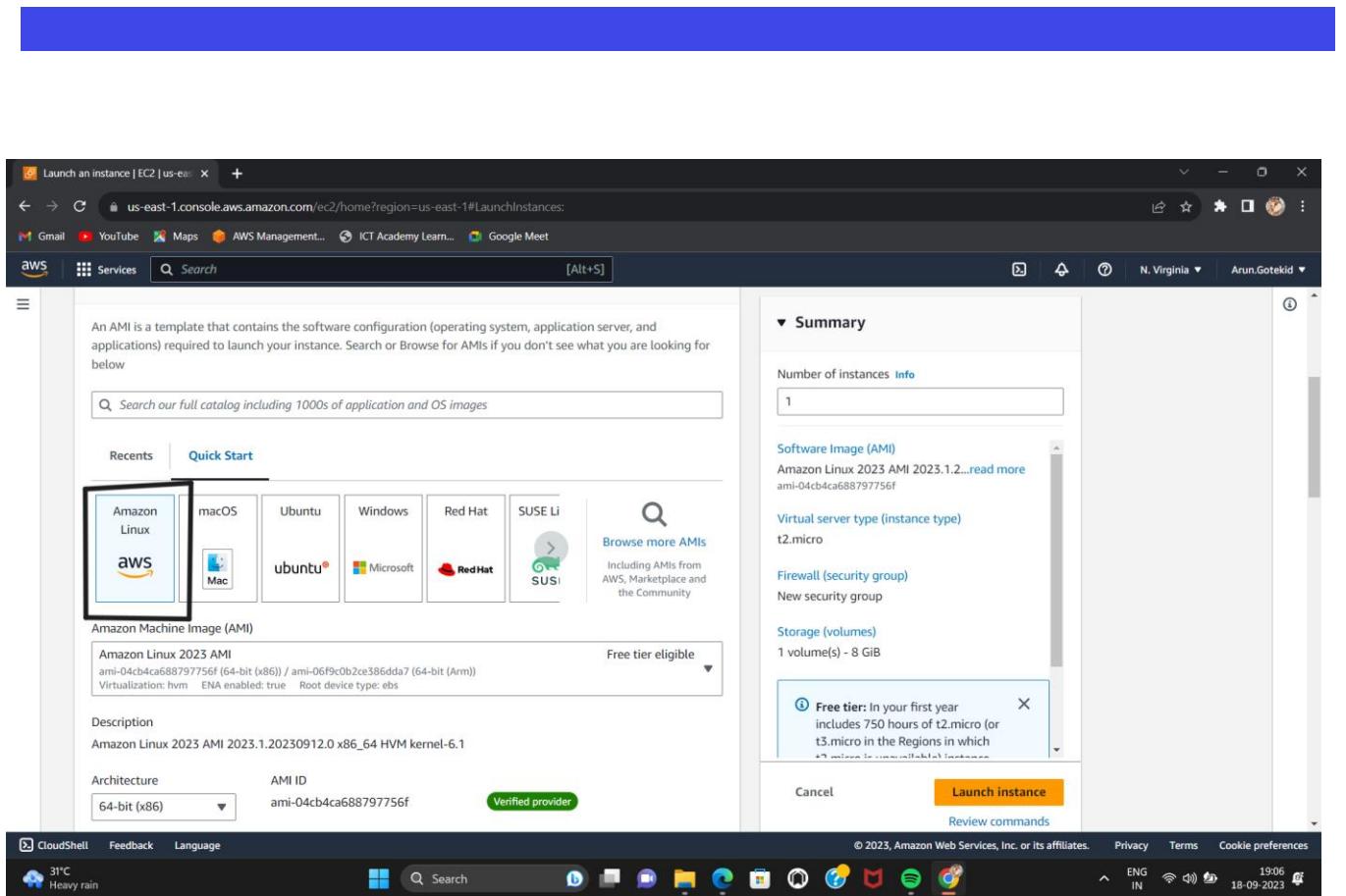
- Click instance .



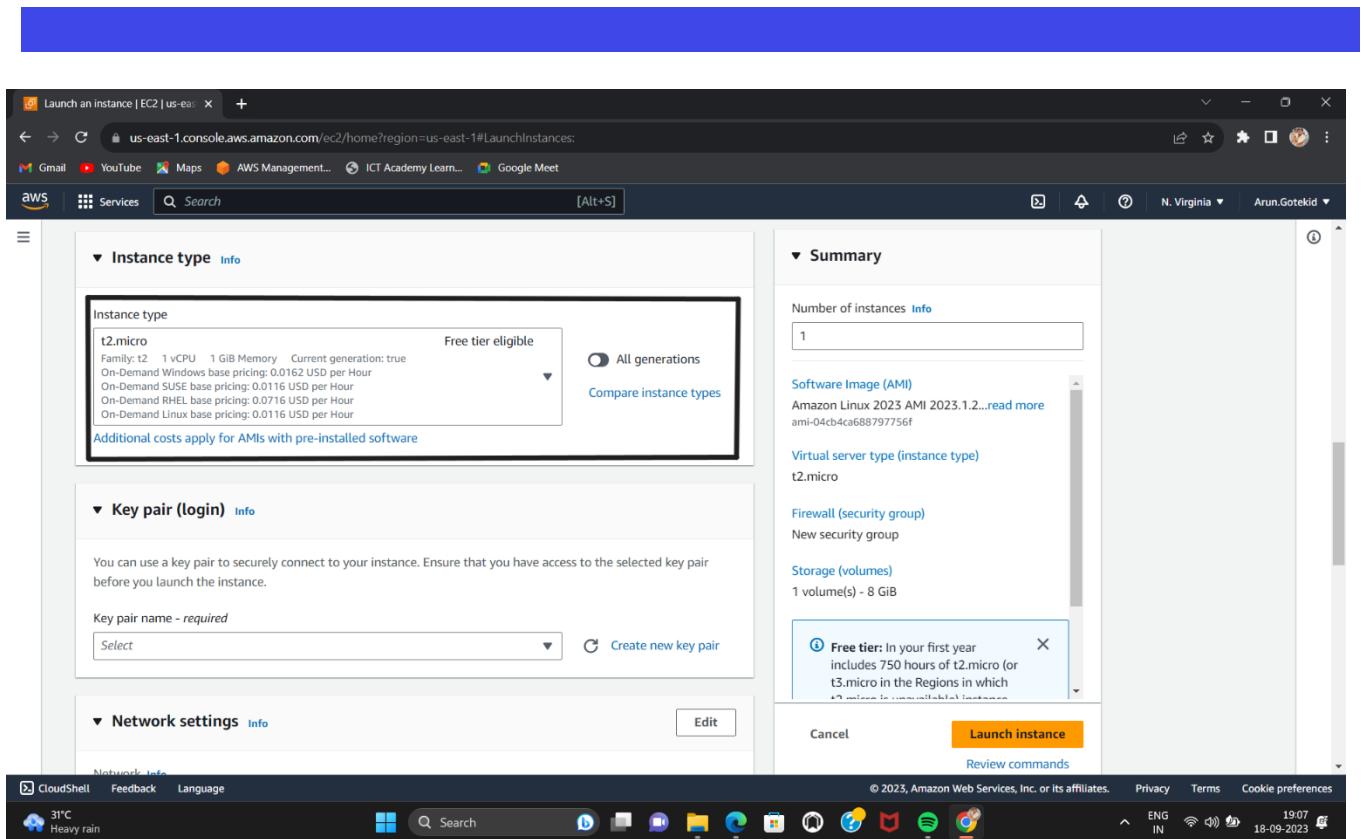
- Select Launch Instance .



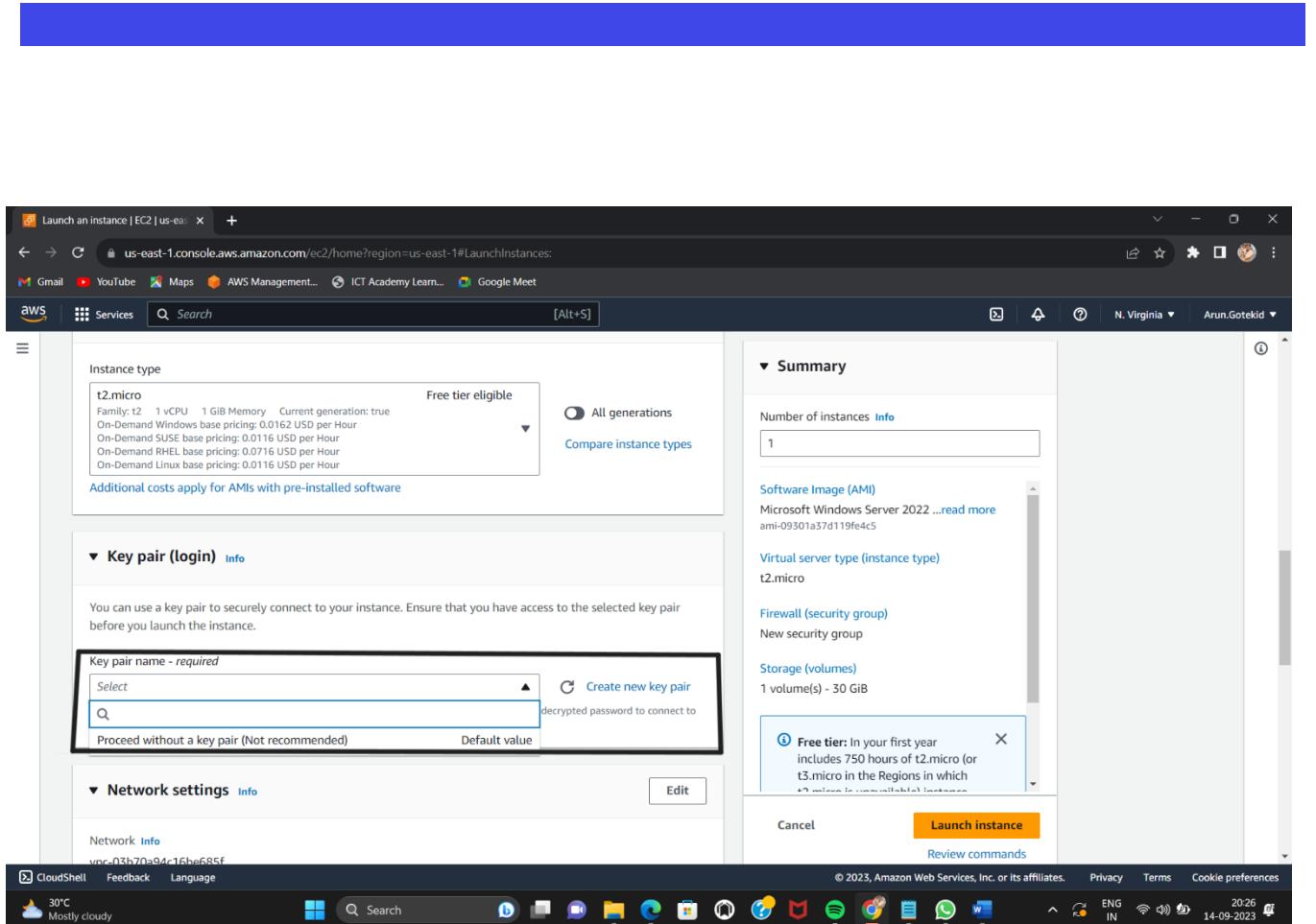
- Give Name and tags .
 - The first letter of first word should be in uppercase.
 - The first letter of second word should be in uppercase .
- Example : (Linux Sop)



- Select AWS - Amazon linux .
- check whether it is free tier eligible.



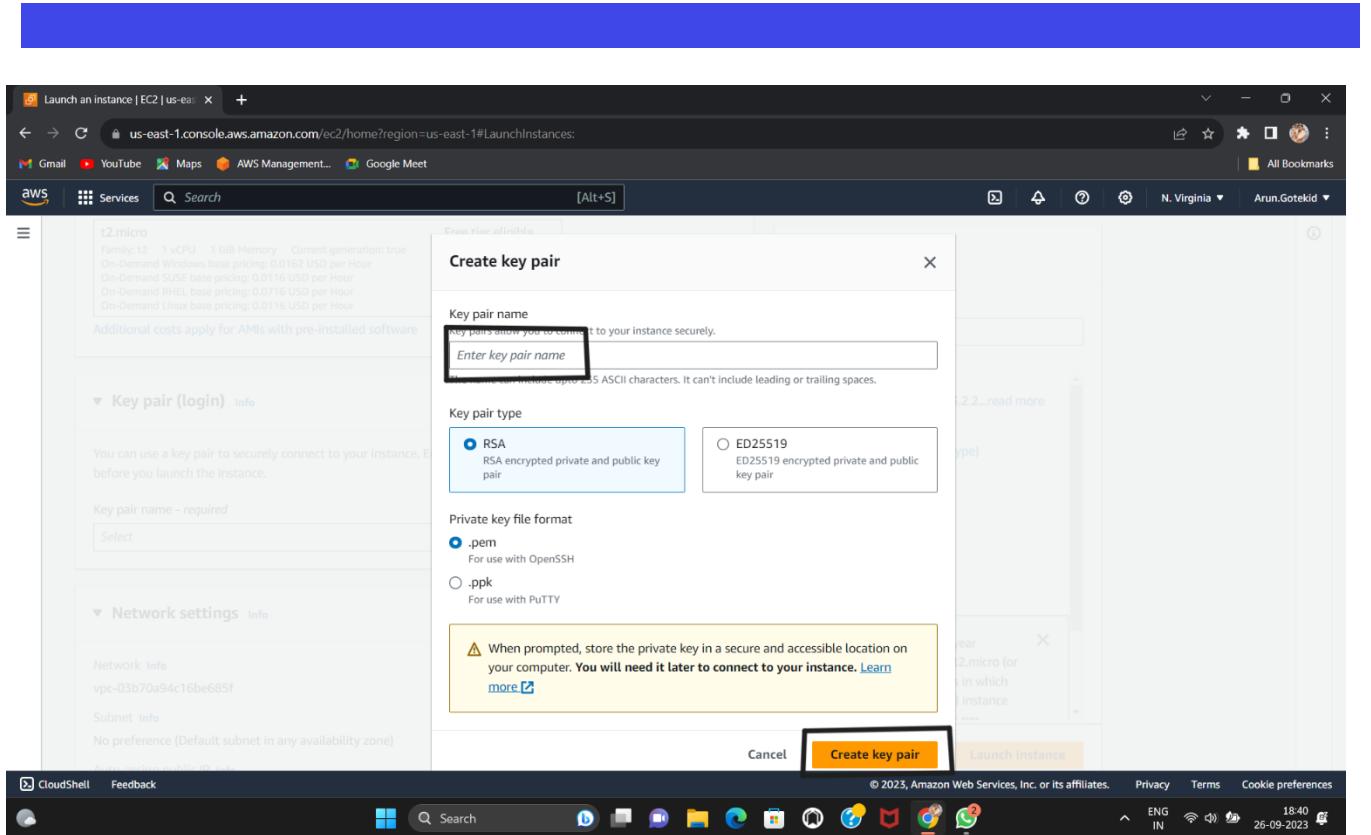
- Select the Instance type is t2.micro .
- Check whether it is Free tier eligible.



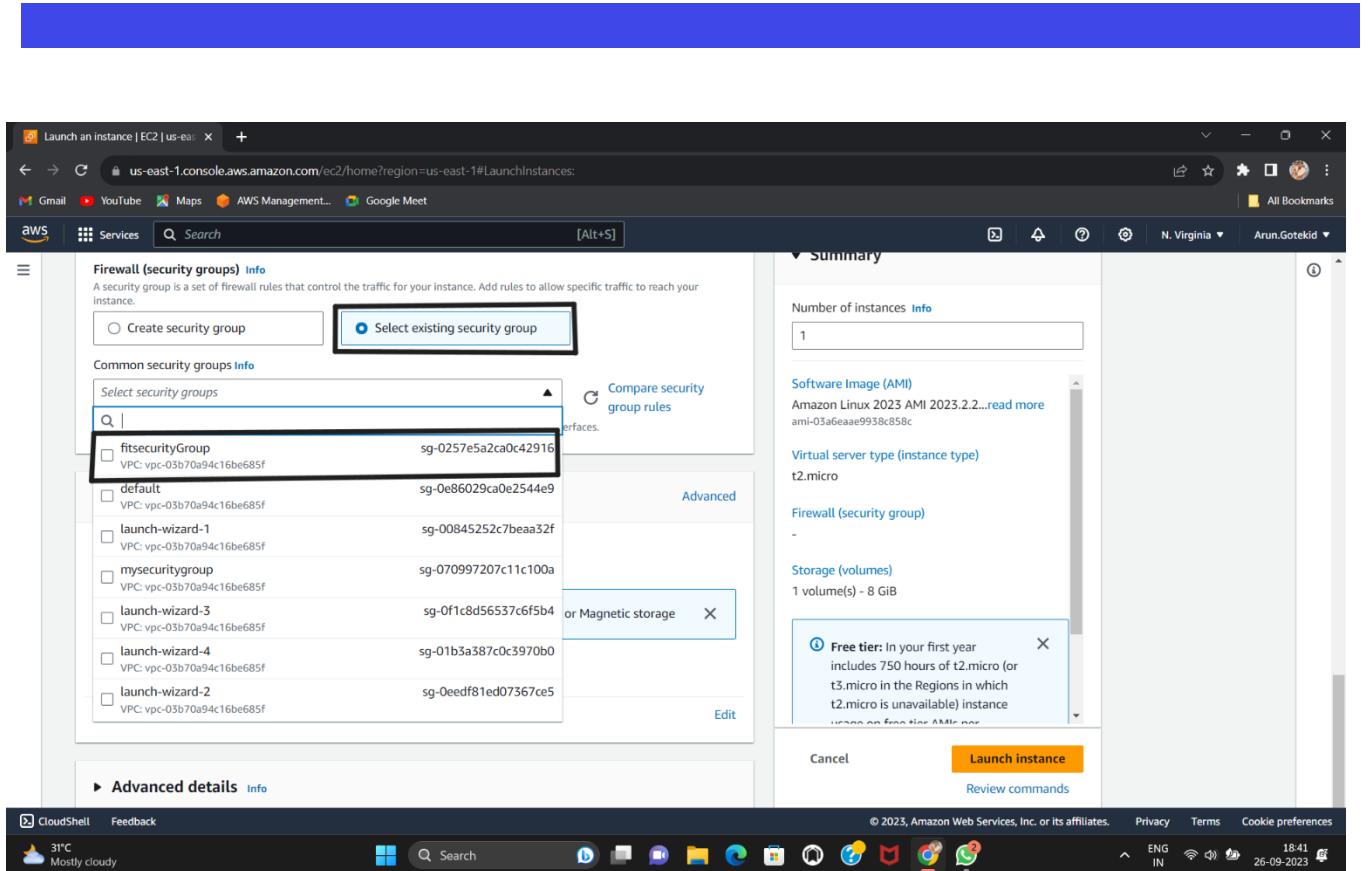
- Click Create a new key pair .

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

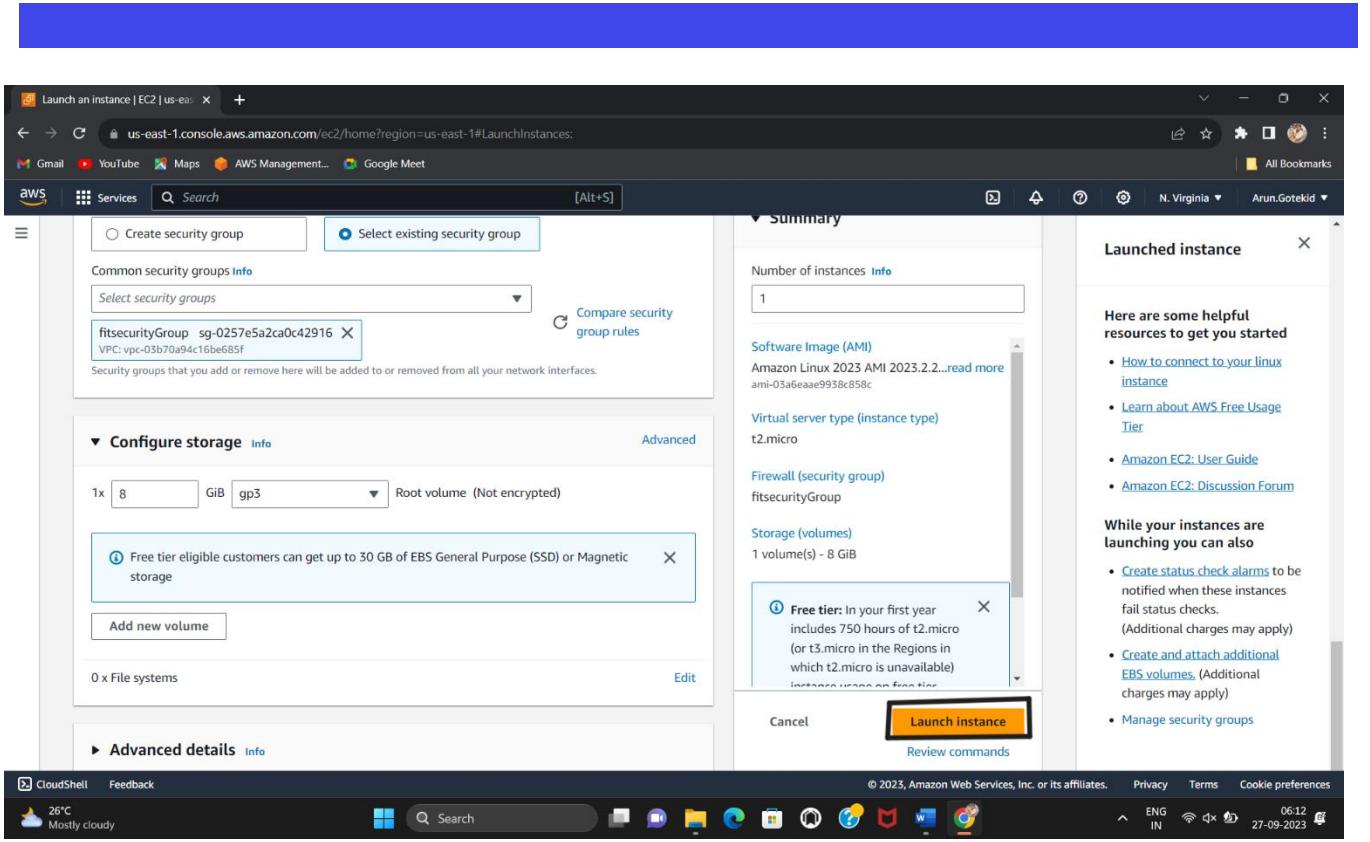
Drop down and click the key pair you have created .



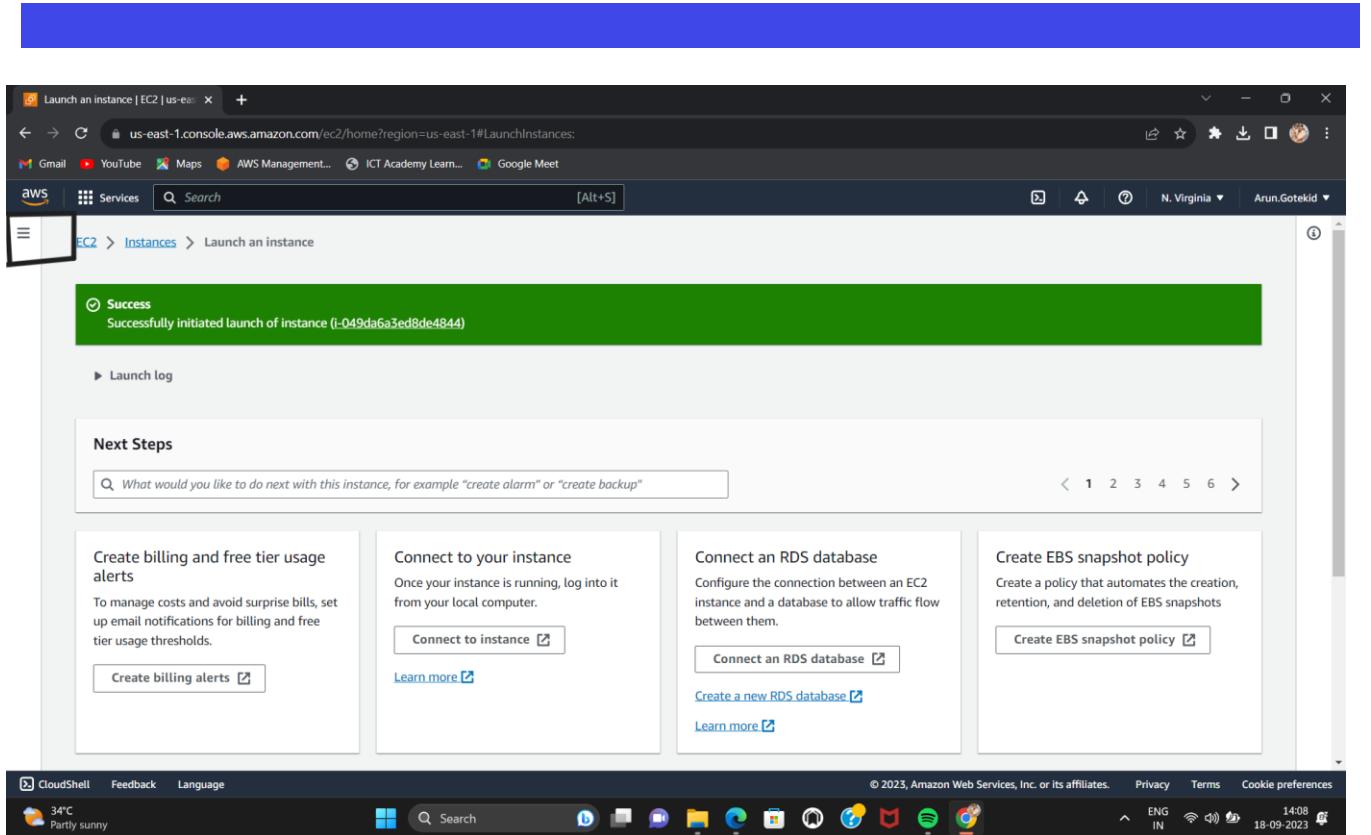
- Enter Key Pair Name .
- Click create key pair .



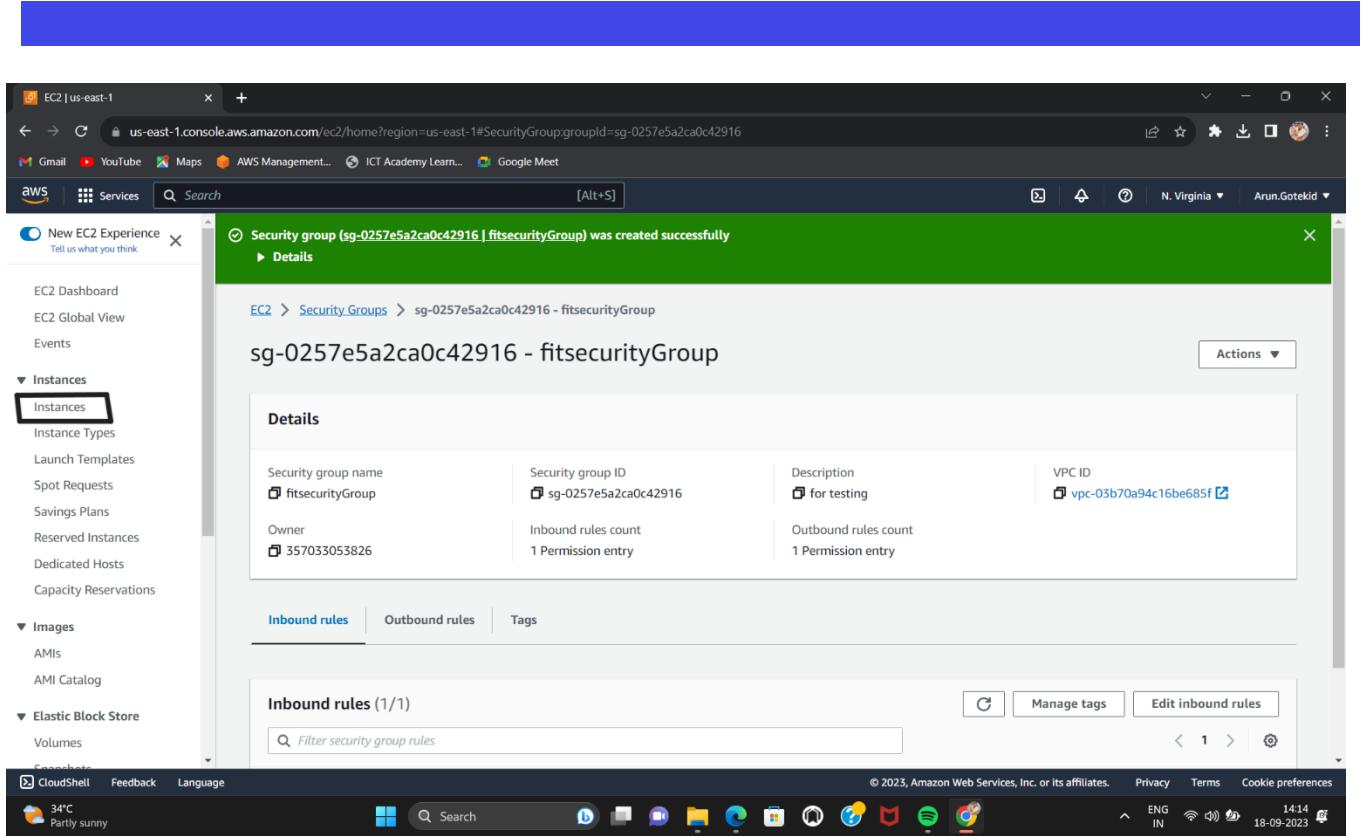
- Select the existing security group, which is you created .



● Select launch instance.



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



- Click Instance .

The screenshot shows the AWS EC2 Instances page. On the left, a sidebar menu includes 'EC2 Dashboard', 'EC2 Global View', 'Events', 'Instances' (selected), 'Instance Types', 'Launch Templates', 'Spot Requests', 'Savings Plans', 'Reserved Instances', 'Dedicated Hosts', 'Capacity Reservations', 'Images' (AMIs, AMI Catalog), and 'Elastic Block Store' (Volumes). 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-0f7f878d8a5b8c9d0	Running	t2.micro	Initializing	No alarms	us-east-1b	ec2-54-175-57-7...

A modal window titled 'Select an instance' is overlaid on the table, covering the bottom portion of the list. The 'Linux Sop' instance is highlighted with a red box.

- Select the instance .

The screenshot shows the AWS EC2 Instances page. The main table displays 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	(Initializing)	No alarms	us-east-1b	ec2-54-175-57-7...

A search bar at the top is highlighted with a red box. Below the table, a 'Select an instance' dropdown is open, also highlighted with a red box.

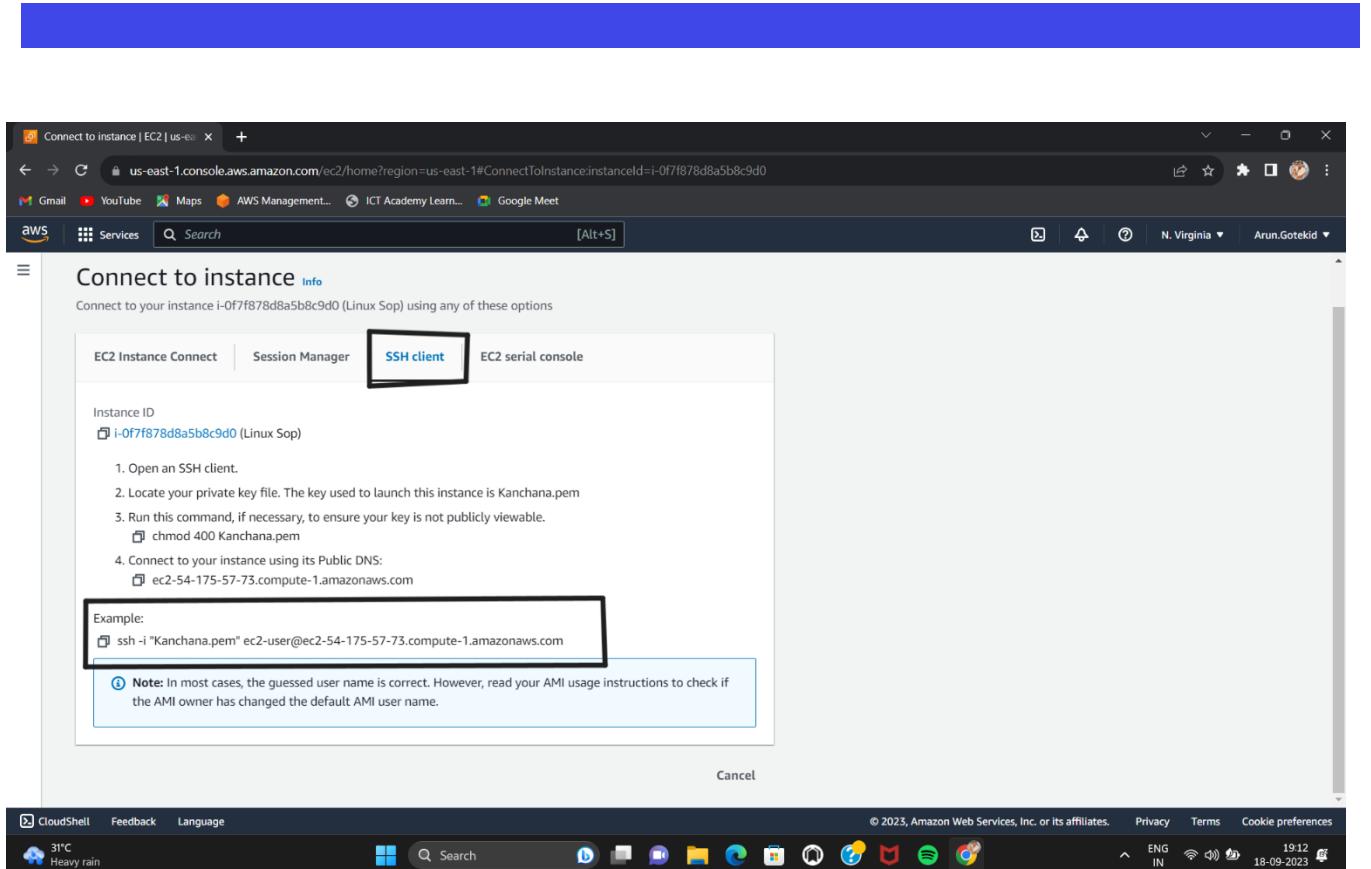
- Refresh the instance until the instance get “2/2 checks passed”

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, AMI Catalog, and Elastic Block Store. The main content area displays a table of instances:

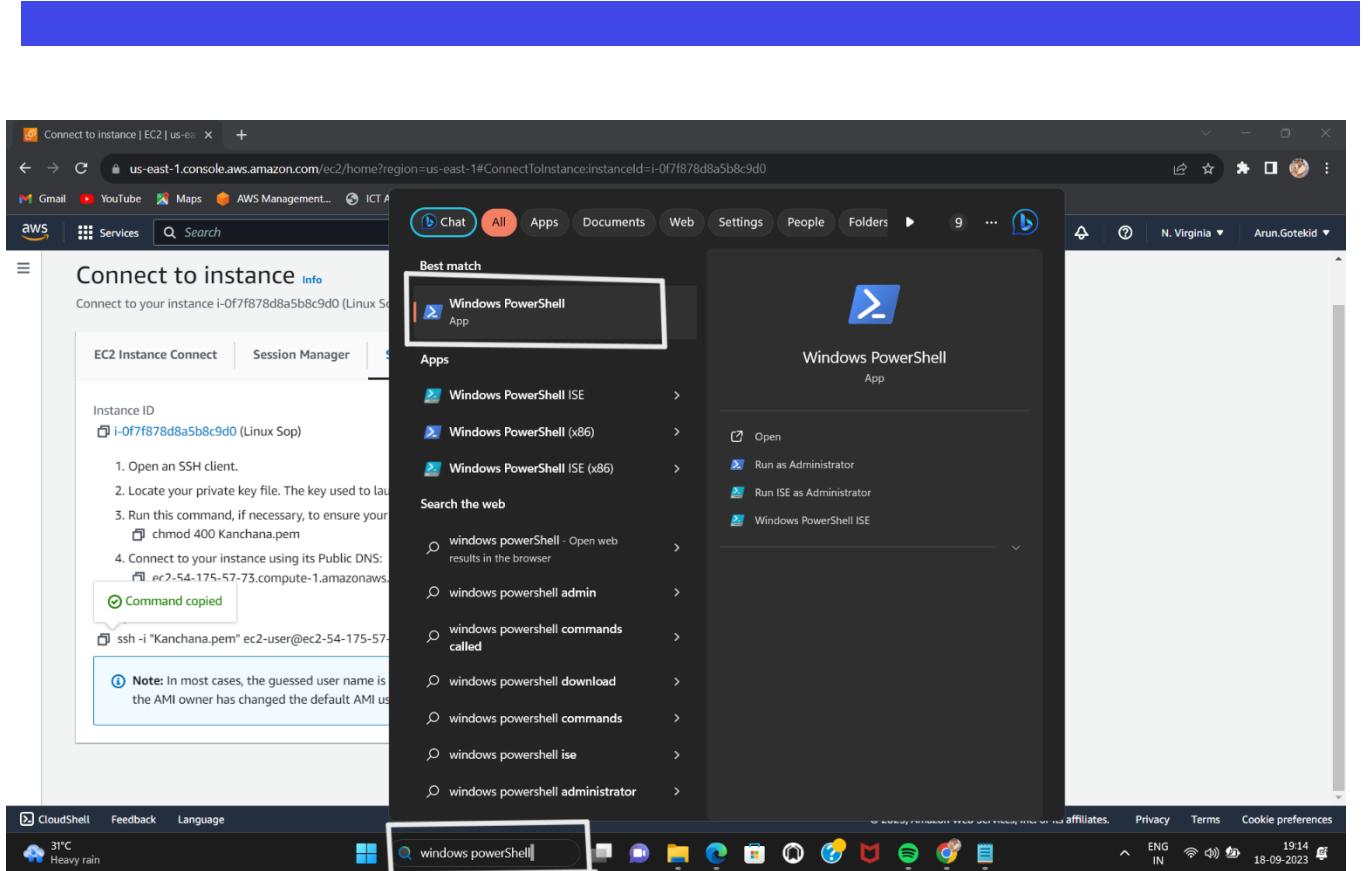
Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS
-	i-06ad48bc6536ee4de	Running	t2.micro	2/2 checks passed	No alarms	us-east-1b	ec2-3-88-31-49.c...
Aws Sop	i-0bcee20c5515fc002	Terminated	t2.micro	-	No alarms	us-east-1b	-
Linux Sop	i-0fff878d8a5b8c9d0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

Below the table, a modal window titled "Select an instance" is open. At the top right of the main content area, the "Connect" button is highlighted with a red box.

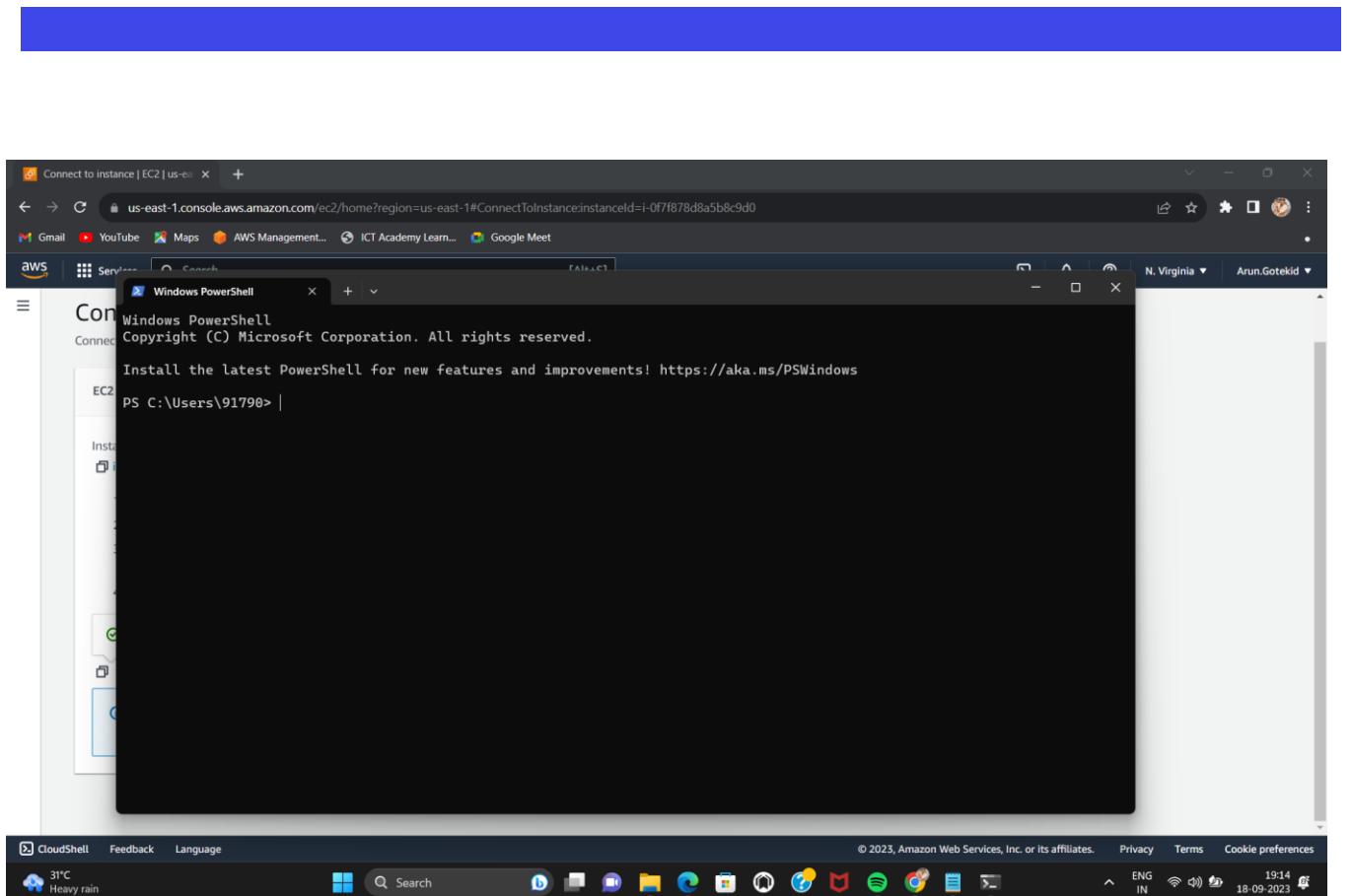
- Select the instance , which you have created .
- Click connect .



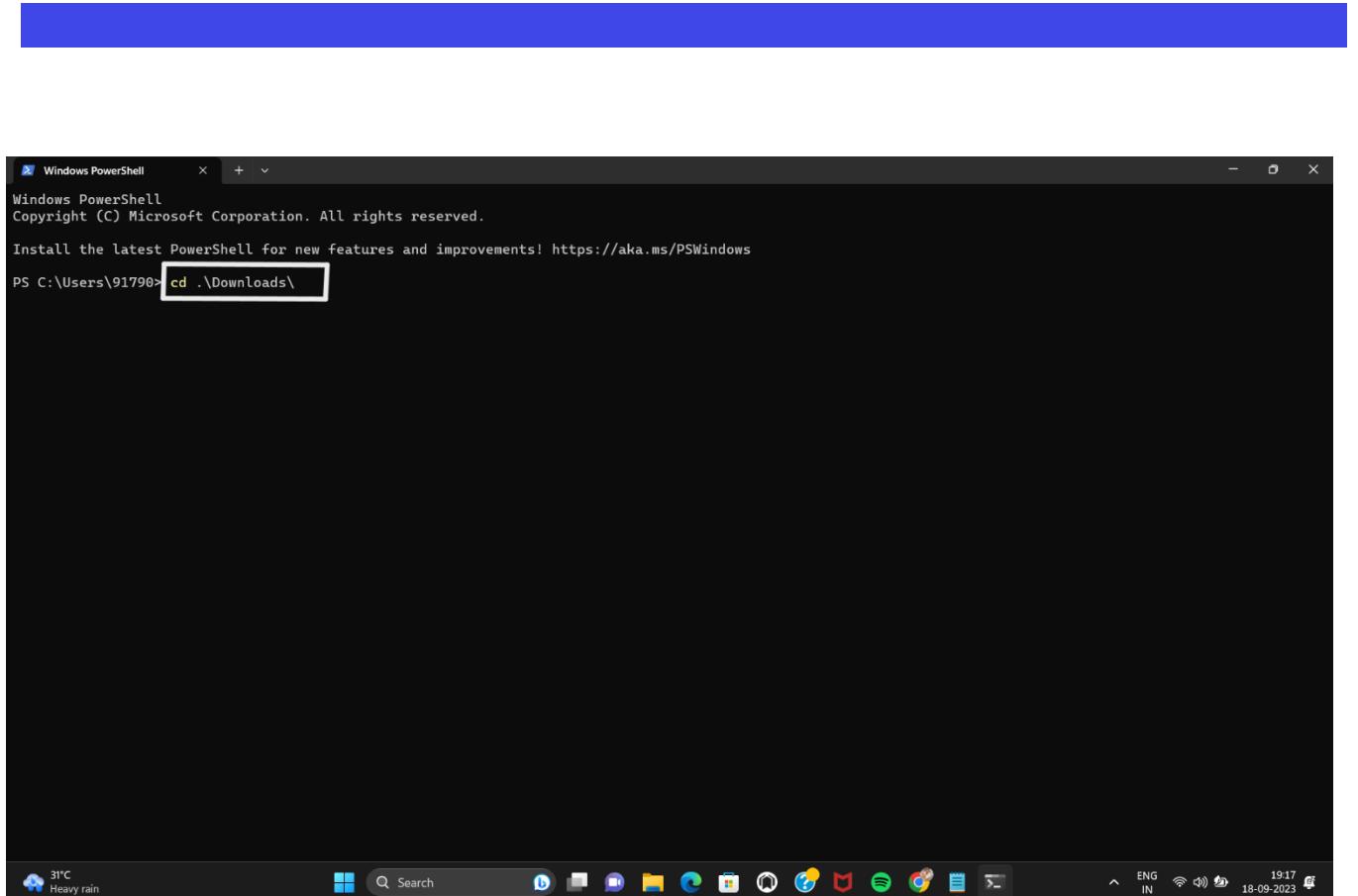
- Click SSH client and copy the Example .



- Search WINDOWS POWER SHELL in windows and Click it .



- Open the windows power shell .



A screenshot of a Windows PowerShell window titled "Windows PowerShell". The window shows the following text:

```
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\
```

The command "cd .\Downloads\" is highlighted with a white rectangular box.

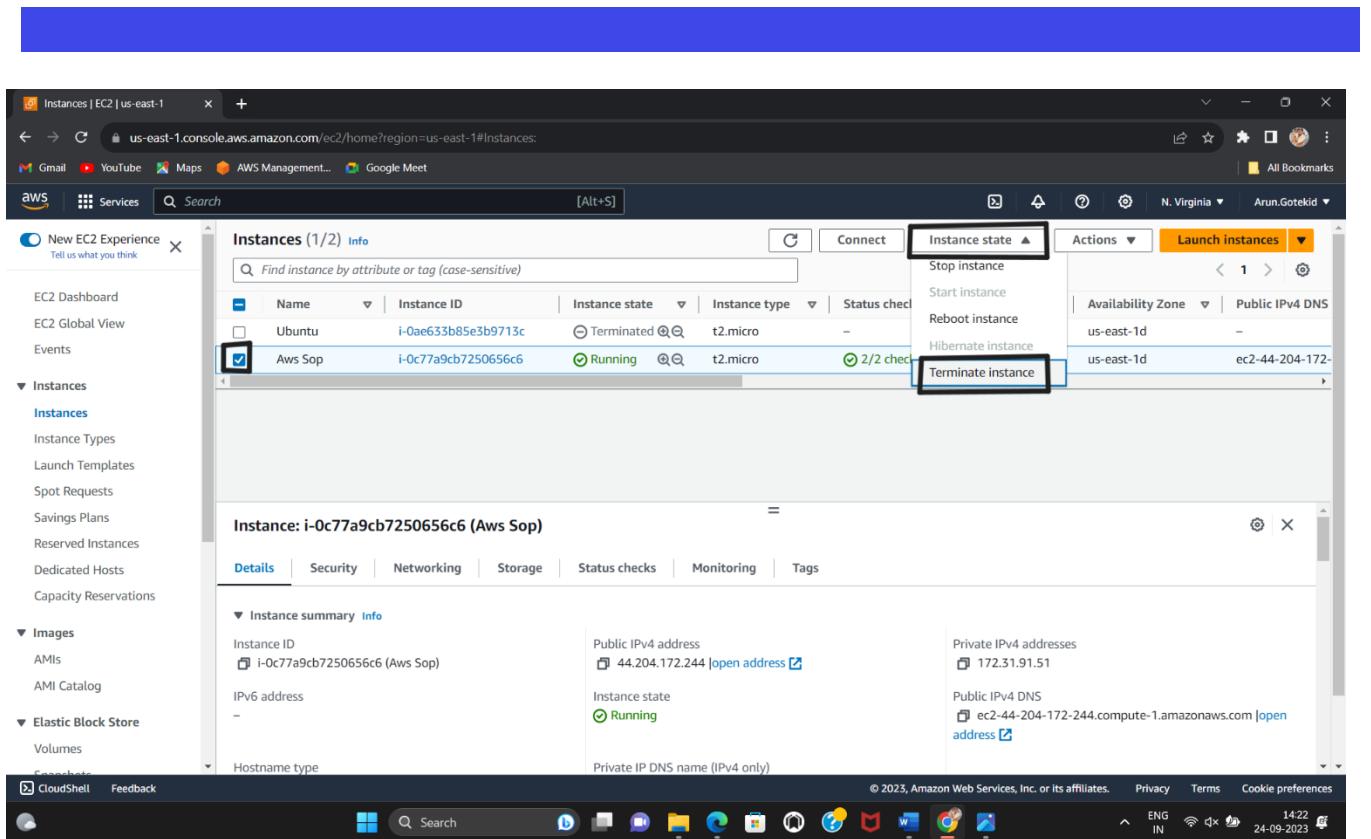
- Type `cd .\Downloads\`

A screenshot of a Windows PowerShell window titled "ec2-user@ip-172-31-33-37~". The window shows the command "ssh -i "Kanchana.pem" ec2-user@ec2-54-175-57-73.compute-1.amazonaws.com" being run. A red box highlights the command. The output shows a fingerprint for the host and asks if the user wants to continue connecting. The user has typed "Yes" and a red box highlights the "Yes" key. The response "Warning: Permanently added 'ec2-54-175-57-73.compute-1.amazonaws.com' (ED25519) to the list of known hosts." is shown. Below the window, the Windows taskbar is visible with various icons and system status.

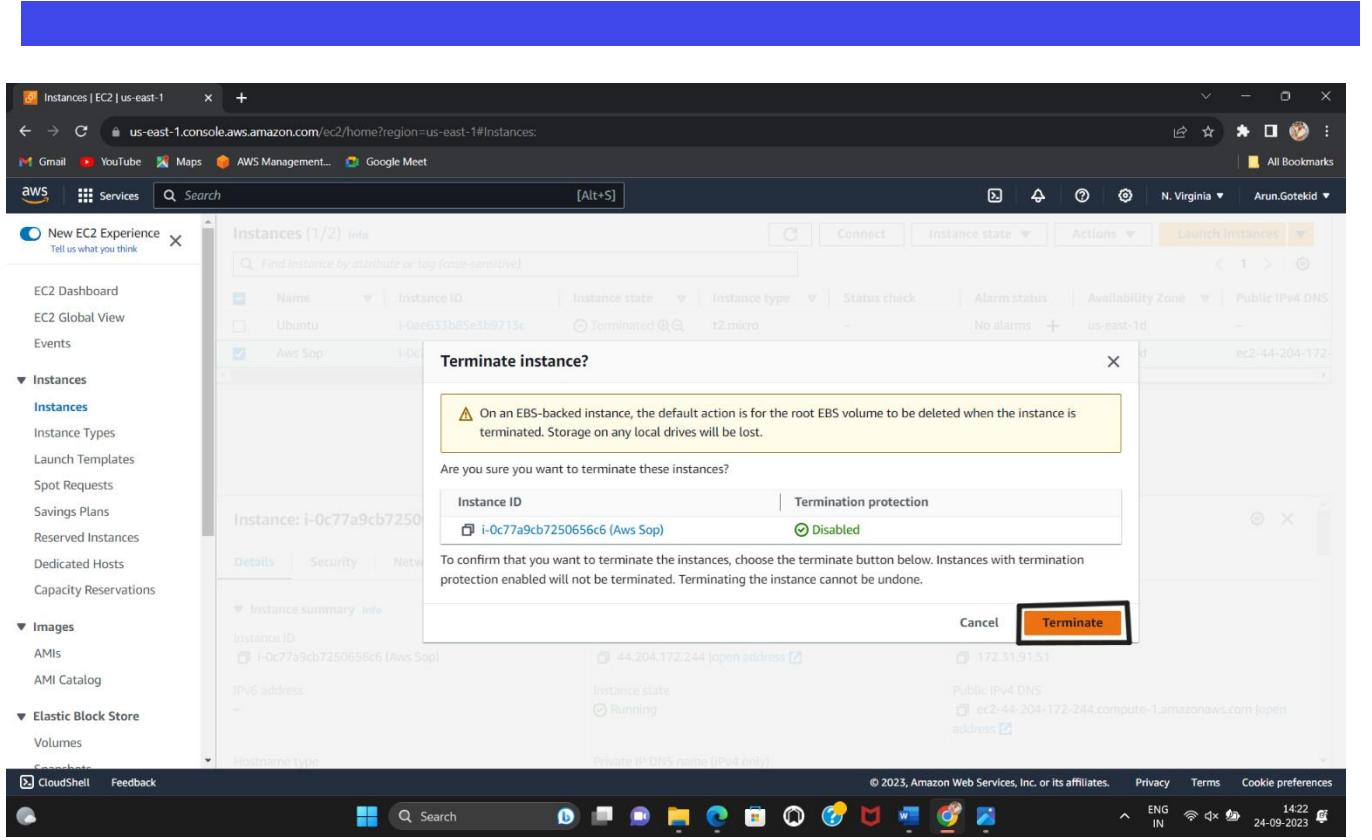
```
PS C:\Users\91790> cd ..\Downloads\<red box>
PS C:\Users\91790\Downloads> ssh -i "Kanchana.pem" ec2-user@ec2-54-175-57-73.compute-1.amazonaws.com
The authenticity of host 'ec2-54-175-57-73.compute-1.amazonaws.com (64.175.57.73)' can't be established.
ED25519 key fingerprint is SHA256:ypfogYM6wHCgZGVlWU/Net+C8h07MsMxXNcQ+t9DZQ.
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.

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

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



- Select the instance .
- Click Instance state and click terminate.



- 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 second instance. Below the table, a modal window titled "Select an instance" is open.

- The instance is terminated .



THANK YOU