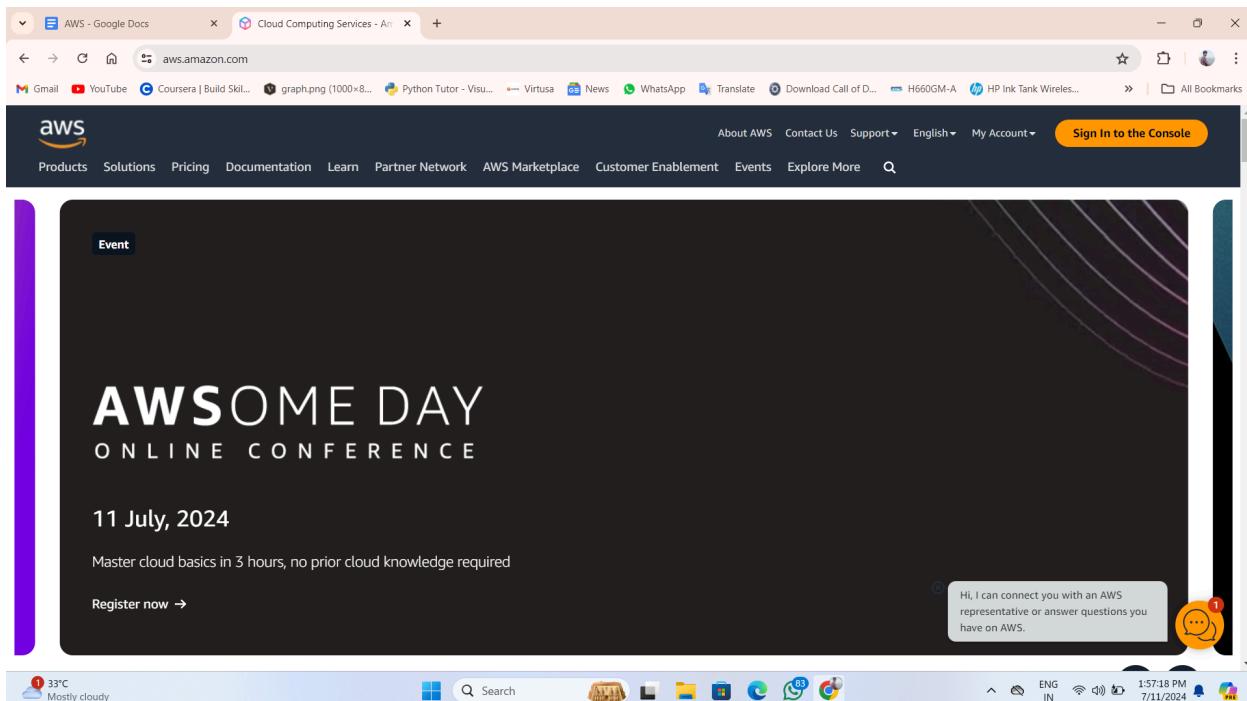


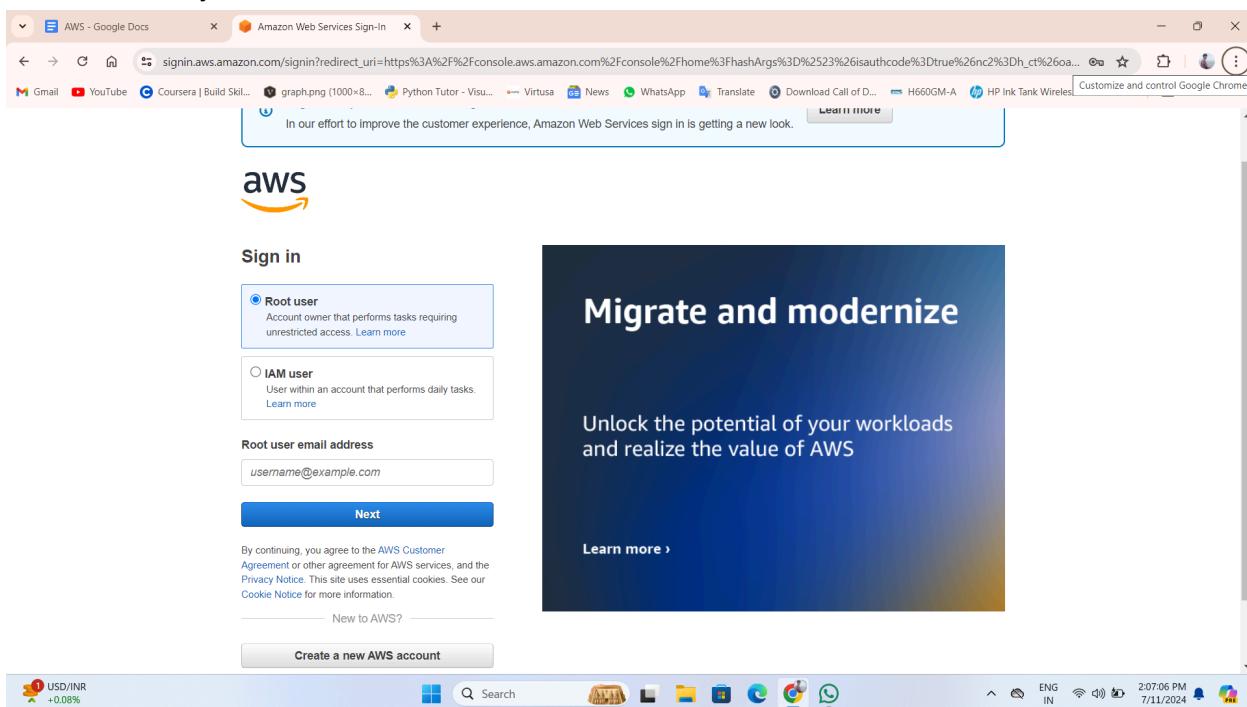
## HANDS ON AWS NOTES

### Default AWS web page



### AWS sign in page

- Ensure you are a Root user



## AWS user home page

- We can select services here

The screenshot shows the AWS Console Home page within a Google Chrome browser window. The URL in the address bar is `ap-south-1.console.aws.amazon.com/console/home?nc2=h_ct&region=ap-south-1&src=header-signin#`. The browser's toolbar includes links to Gmail, YouTube, Coursera, Python Tutor, Virtusa, News, WhatsApp, Translate, Download Call of D..., H660GM-A, HP Ink Tank Wireless, and a customization option. The AWS logo is in the top-left corner, followed by a 'Services' button and a search bar. A dropdown menu icon is also present. The main content area is titled 'Console Home' with an 'Info' link. It features two main sections: 'Recently visited' (listing EC2, IAM, Elastic Beanstalk, Lambda, and Lightsail) and 'Applications' (listing 0 applications). A 'Create application' button is available in the Applications section. The bottom navigation bar includes CloudShell, Feedback, and links to © 2024, Amazon Web Services, Inc. or its affiliates., Privacy, Terms, and Cookie preferences. The system tray at the bottom right shows the date and time as 7/11/2024, 2:08:42 PM, and icons for ENG IN, battery, signal, and network.

Here i have selected EC2

## Creating instance

- Launch instance

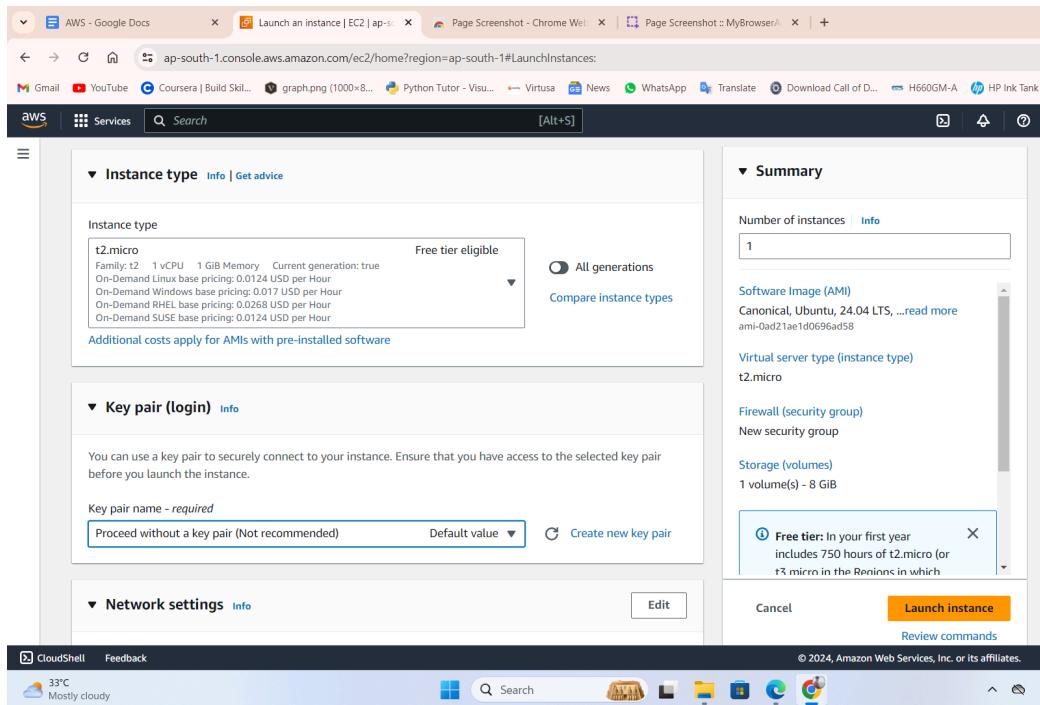
The screenshot shows the AWS EC2 Instances page. The left sidebar is expanded, showing categories like EC2 Dashboard, EC2 Global View, Events, Instances (with sub-options like Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Capacity Reservations), Images (AMIs, AMI Catalog), and Elastic Block Store (Volumes). The main content area has a heading 'Instances Info' with a search bar and filters for 'Instance state = running'. A message says 'No matching instances found'. Below this is a 'Select an instance' section. The bottom of the screen shows the Windows taskbar with various pinned icons.

- Select OS

The screenshot shows the 'Launch an instance' page. The left sidebar is collapsed. The main content area has a heading 'Application and OS Images (Amazon Machine Image)'. It includes a search bar, a 'Recent' tab, and a 'Quick Start' tab. Under 'Quick Start', there are icons for Amazon Linux, macOS, Ubuntu, Windows, Red Hat, and SUSE Linux. A 'Browse more AMIs' link is also present. Below this is a section for 'Amazon Machine Image (AMI)' showing 'Ubuntu Server 24.04 LTS (HVM), SSD Volume Type'. It lists details like 'Free tier eligible', 'Virtualization: hvm', and 'ENAs enabled: true'. A 'Description' section follows, mentioning 'Ubuntu Server 24.04 LTS (HVM), EBS General Purpose (SSD) Volume Type. Support available from Canonical (<http://www.ubuntu.com/cloud/services>).'. To the right, a 'Summary' panel shows 'Number of instances: 1'. It includes sections for 'Software Image (AMI)', 'Virtual server type (instance type)', 'Firewall (security group)', 'Storage (volumes)', and a note about 'Free tier'. At the bottom right is a large orange 'Launch instance' button. The bottom of the screen shows the Windows taskbar.

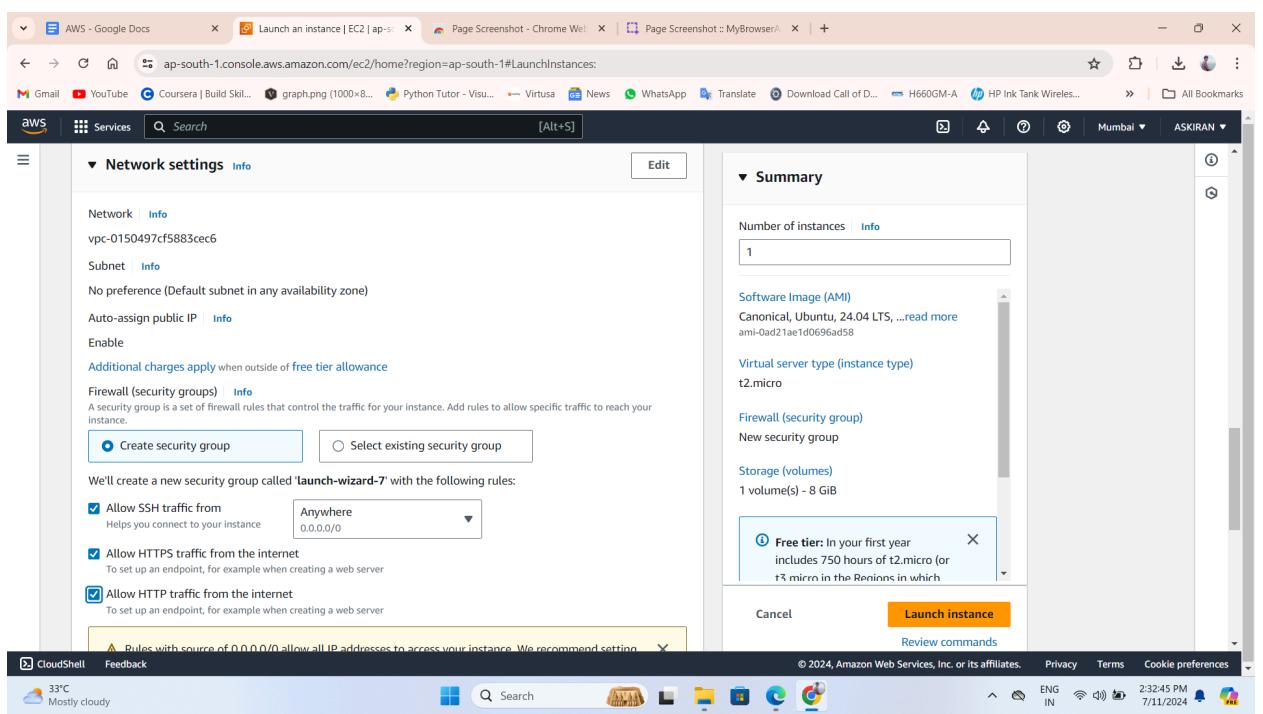
## Select Instance Type and keypair

- For windows we need to create new Keypair
- For ubuntu we can proceed without keypair

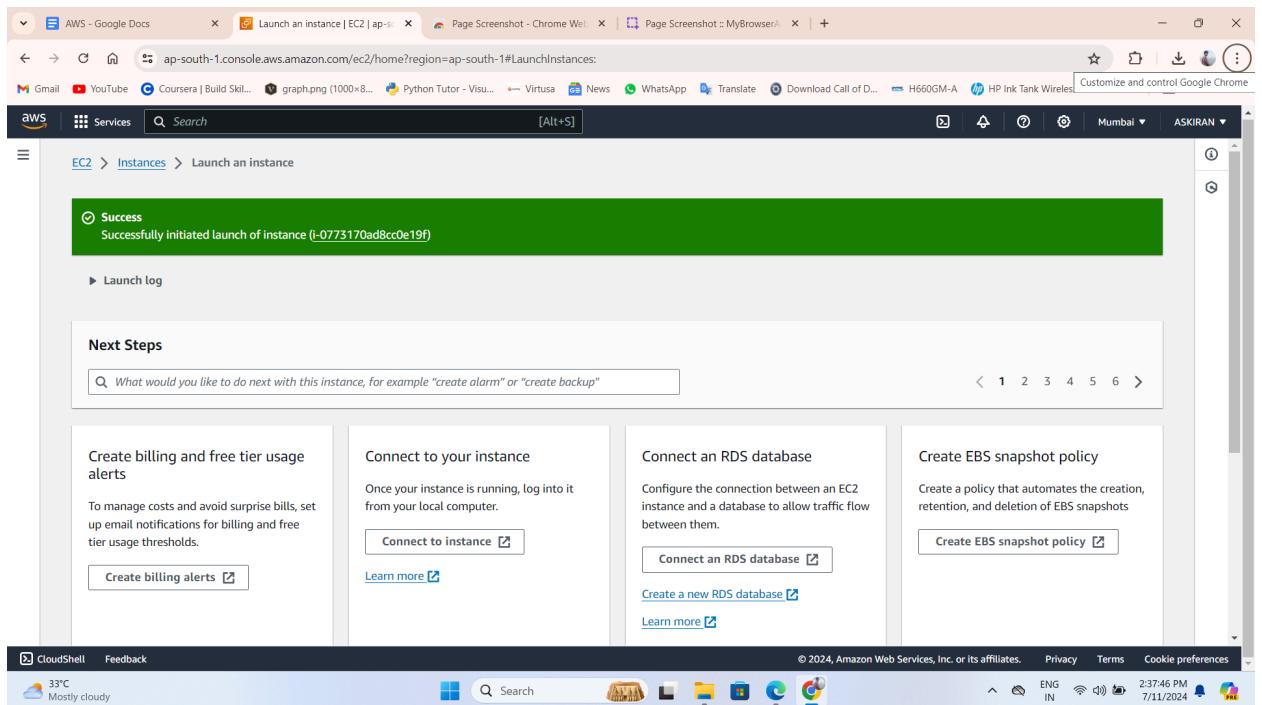


## Network settings we need to select

- Allow HTTPS & HTTP



- Review from the summary panel and click on launch instance.



- Instance creation done

## Connecting instance

- Click on instance from the left panel

The screenshot shows the AWS EC2 Instances page. On the left, there's a navigation sidebar with options 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, AMI Catalog), and Elastic Block Store (Volumes, Snapshots, Lifecycle Manager). The main content area has a title 'Instances (1) Info' with a search bar and filters (All states). A table lists one instance: 'Instance1' (i-0773170ad8cc0e19f), which is 'Running' on a 't2.micro' instance type, 'Initializing' status check, in 'ap-south-1b' availability zone, and has a public IPv4 address 'ec2-13-201-21-116.ap-south-1.compute.amazonaws.com'. Below the table is a modal window titled 'Select an instance' with a single option: 'Instance1'.

- Select instance click on connect

This screenshot is similar to the previous one, showing the EC2 Instances page with a single running instance 'Instance1'. However, the 'Connect' button in the top right of the main table header is now highlighted in orange, indicating it is active or about to be clicked. The rest of the interface and instance details are identical to the first screenshot.

- It will redirect to a page and scroll down select Connect

```

Usage of /: 22.7% of 6.71GB Users logged in: 0
Memory usage: 20% IPv4 address for enX0: 172.31.12.206
Swap usage: 0$

Expanded Security Maintenance for Applications is not enabled.

0 updates can be applied immediately.

Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status

The list of available updates is more than a week old.
To check for new updates run: sudo apt update

The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/*copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

ubuntu@ip-172-31-12-206:~$ i-0773170ad8cc0e19f (Instance1)
Public IPs: 13.201.21.116 Private IPs: 172.31.12.206

```

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33°C Mostly cloudy

ENG IN 24:37 PM 7/11/2024

- Instance started working

## Terminate instance

- Select the instance which you want to terminate

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IP
Instance1	i-0773170ad8cc0e19f	Running	t2.micro	2/2 checks passed	View alarms +	ap-south-1b	ec2-13-201-21-116.ap-south-1.compute.amazonaws.com   open address

**i-0773170ad8cc0e19f (Instance1)**

**Details** Status and alarms Monitoring Security Networking Storage Tags

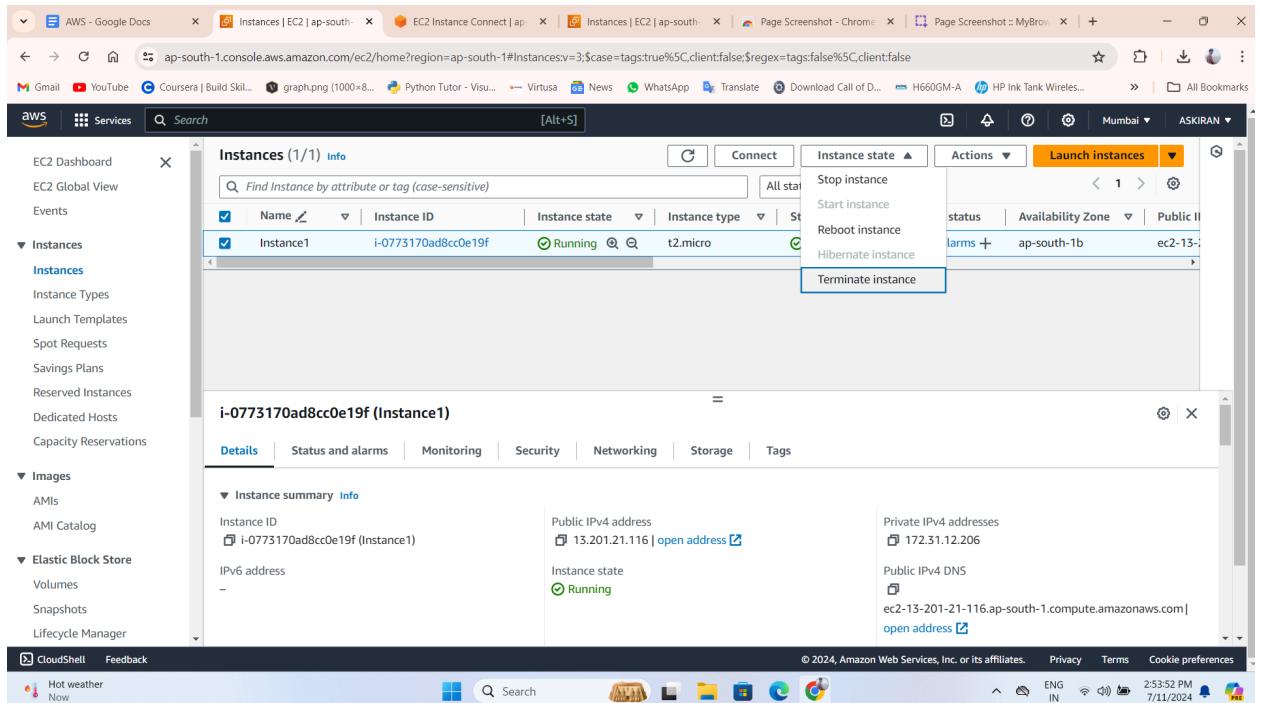
**Instance summary**

Instance ID: i-0773170ad8cc0e19f (Instance1)  
Public IPv4 address: 13.201.21.116 | [open address](#)  
Private IPv4 addresses: 172.31.12.206  
IPv6 address: -  
Instance state: Running  
Public IPv4 DNS: ec2-13-201-21-116.ap-south-1.compute.amazonaws.com | [open address](#)

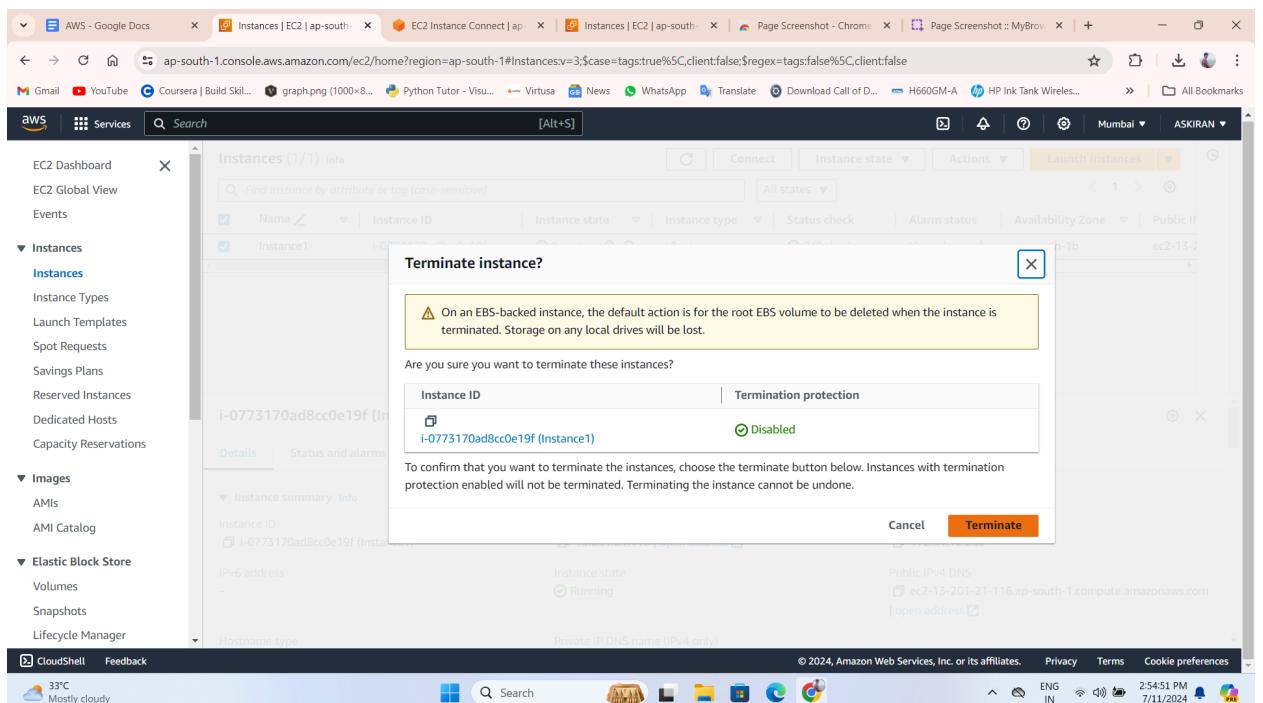
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Hot weather Now ENG IN 2:53:14 PM 7/11/2024

- Click on instance state
- Select terminate Instance



- Click on terminate



- Instance terminated

The screenshot shows the AWS EC2 Instances page. A success message at the top states "Successfully initiated termination of i-0773170ad8cc0e19f". The main table displays one instance:

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IP
Instance1	i-0773170ad8cc0e19f	Shutting-down	t2.micro	2/2 checks passed	View alarms	ap-south-1b	ec2-13-201-21-116.ap-south-1.compute.amazonaws.com

The instance summary details are as follows:

Instance ID	Public IPv4 address	Private IPv4 addresses
i-0773170ad8cc0e19f (Instance1)	13.201.21.116   open address	172.31.12.206
IPv6 address	Instance state	Public IPv4 DNS
-	Shutting-down	ec2-13-201-21-116.ap-south-1.compute.amazonaws.com   open address

The left sidebar shows the navigation menu for EC2 services. The "Instances" section is expanded, showing options like Instance Types, Launch Templates, and Spot Requests.