

Title :- Case study on Amazon EC2 and learn about Amazon EC2 web services.

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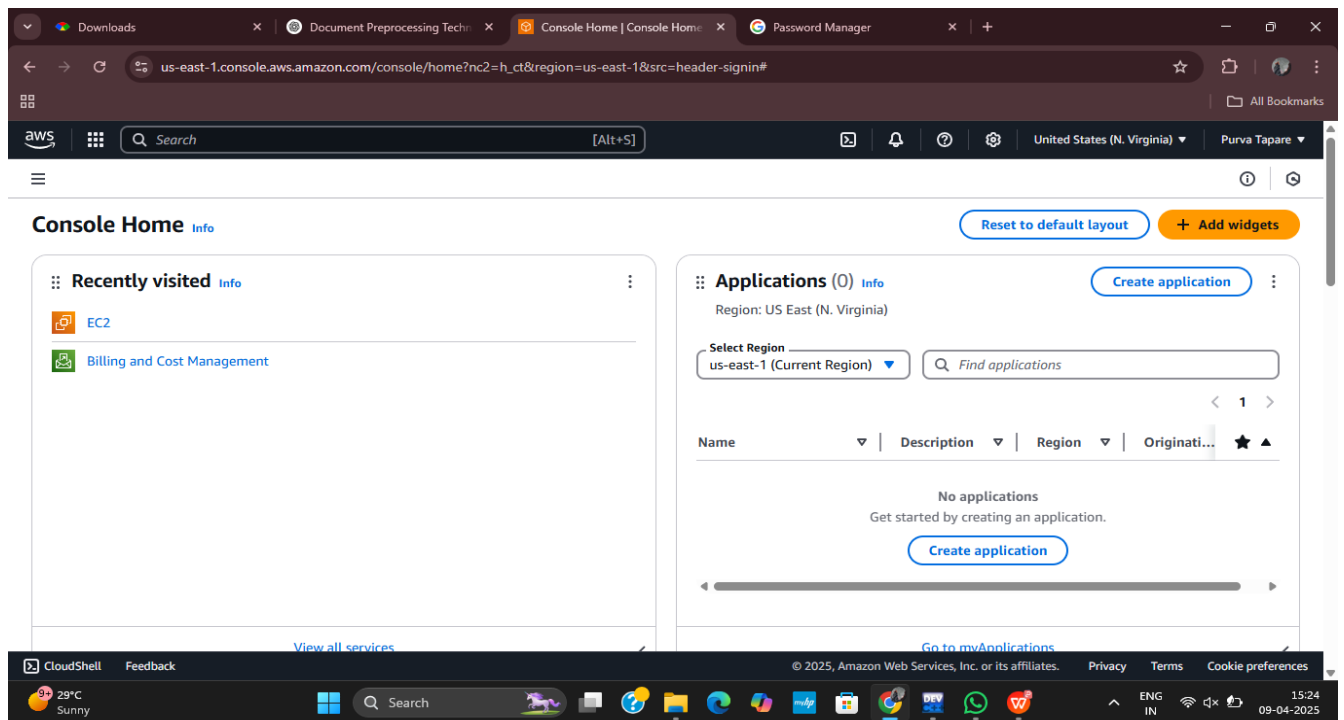
Class :- TE Computer

Subject :- Cloud Computing

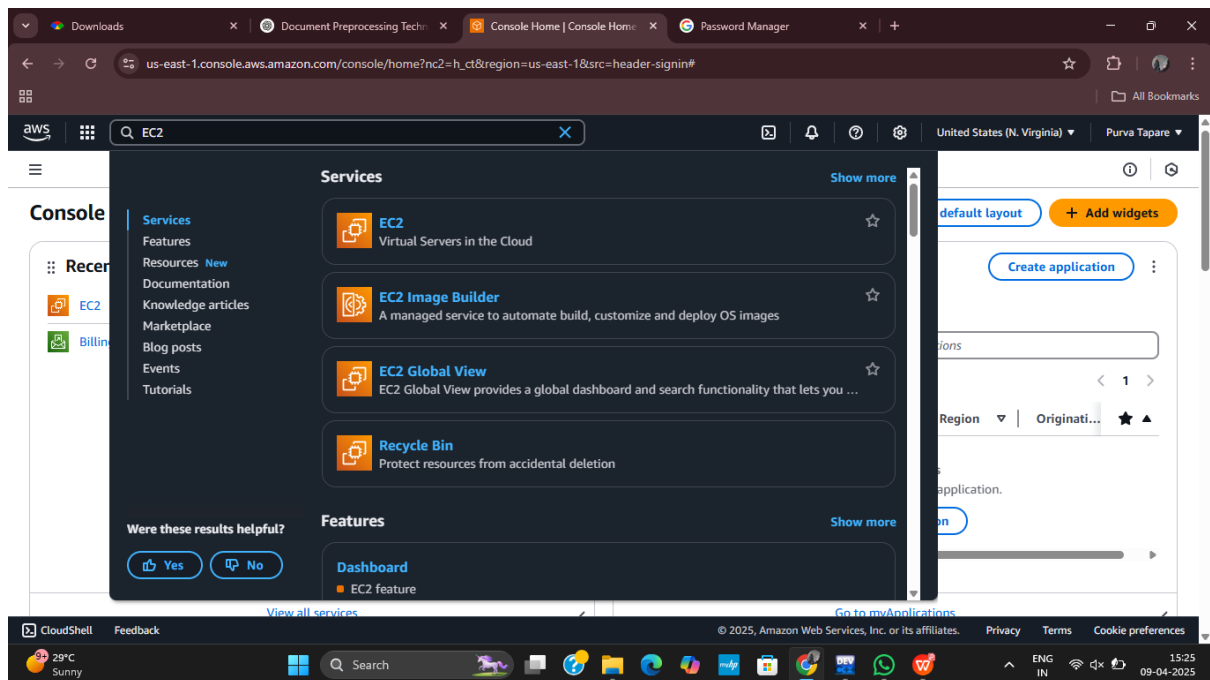
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**** Step 1 : Log into AWS Console**

Go to <https://aws.amazon.com> and sign in to the AWS Management Console.

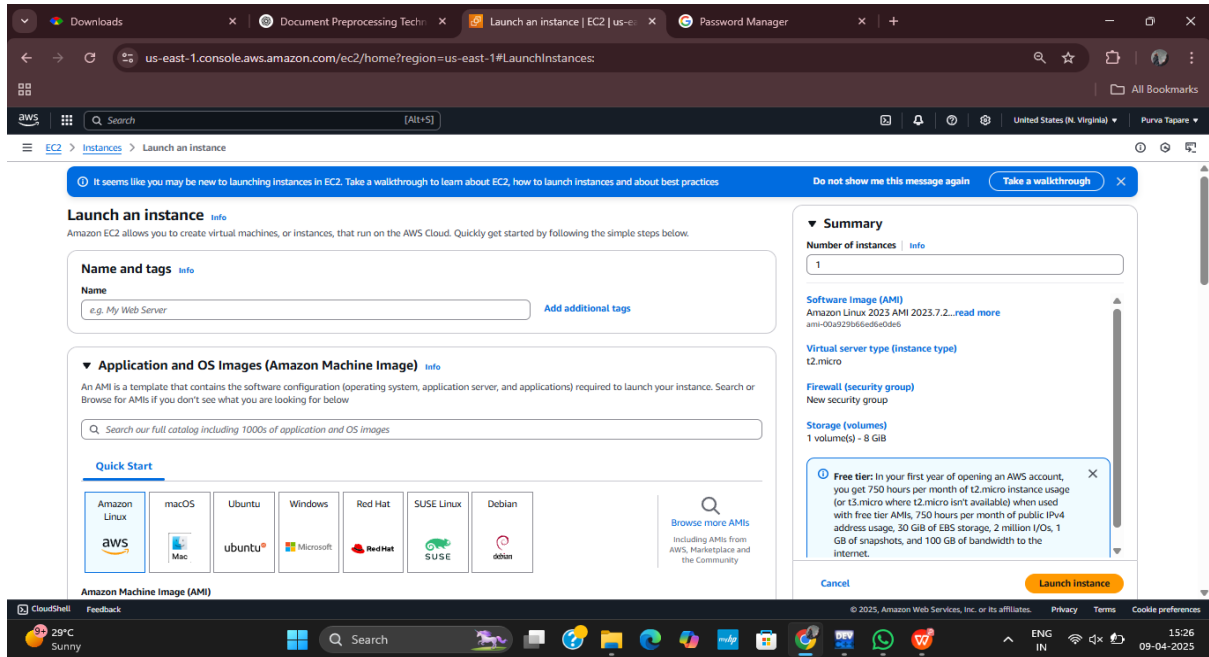


Step 2 : In the AWS Console, search for EC2 in the search bar. Click on EC2 to open the EC2 Dashboard.



Step 3 : Click on the "Launch Instance" button.

Select an operating system (like Amazon Linux, Ubuntu, or Windows).



Step 4 : Choose an Instance Type

Select t3.micro (free tier eligible if you're on the free tier)

The screenshot shows the AWS Management Console interface for launching an EC2 instance. The browser address bar indicates the URL: `us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#LaunchInstances:`. The console header shows the AWS logo and a search bar. The main content area is titled "Launch an instance" and is divided into two main sections: "Network settings" and "Summary".

Network settings (Expanded):

- Network:** `vpc-02bf660d4685c8b82`
- Subnet:** No preference (Default subnet in any availability zone)
- Auto-assign public IP:** Enable
- Firewall (security groups):** Create security group (selected) or Select existing security group
- Rules:** We'll create a new security group called 'launch-wizard-1' with the following rules:
 - ☒ Allow SSH traffic from: Anywhere (0.0.0.0/0)
 - ☐ Allow HTTPS traffic from the internet
 - ☐ Allow HTTP traffic from the internet
- Warning:** Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

Summary:

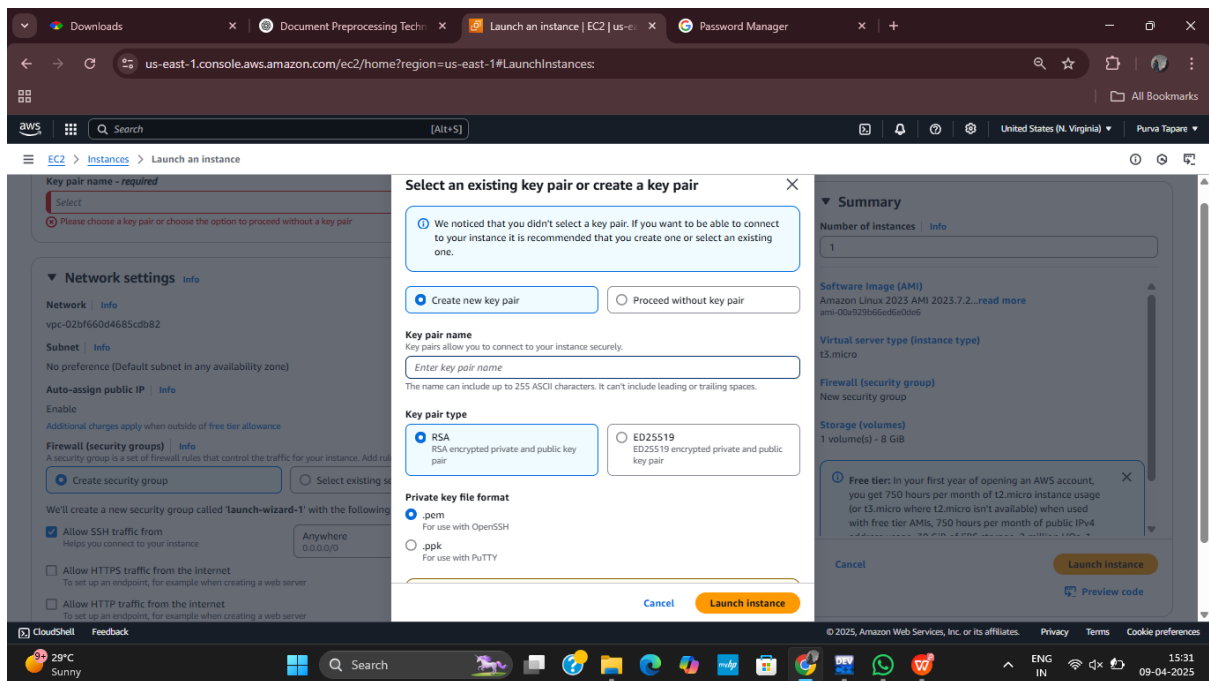
- Number of instances:** 1
- Software Image (AMI):** Amazon Linux 2023 AMI 2023.7.2...read more
- Virtual server type (instance type):** t3.micro
- Firewall (security group):** New security group
- Storage (volumes):** 1 volume(s) - 8 GiB
- Free tier:** In your first year of opening an AWS account, you get 750 hours per month of t2.micro instance usage (or t3.micro where t2.micro isn't available) when used with free tier AMIs, 750 hours per month of public IPv4.
- Buttons:** Cancel, Launch instance, Preview code

The bottom of the screenshot shows the Windows taskbar with various application icons and the system clock indicating 15:29 on 09-04-2025.

Step 5 : Configure Security Group

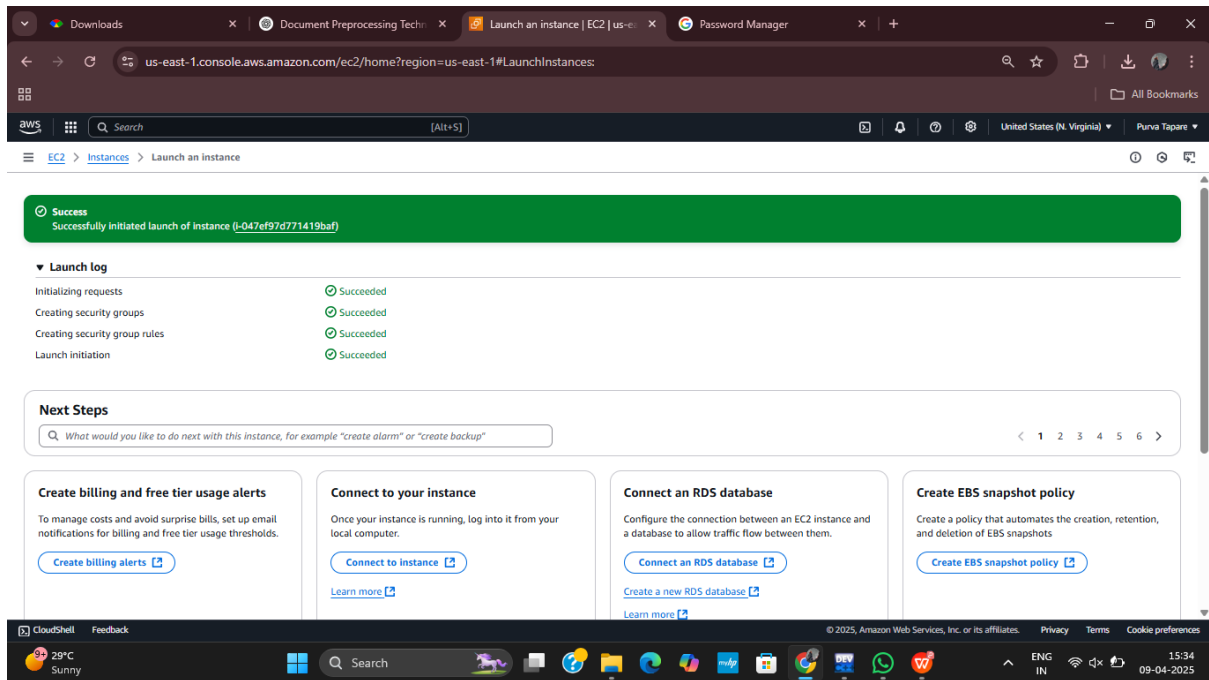
- Create a new security group or use an existing one.
- Allow SSH (port 22) if you're using Linux, or RDP (port 3389) for Windows.

Click Review and Launch.



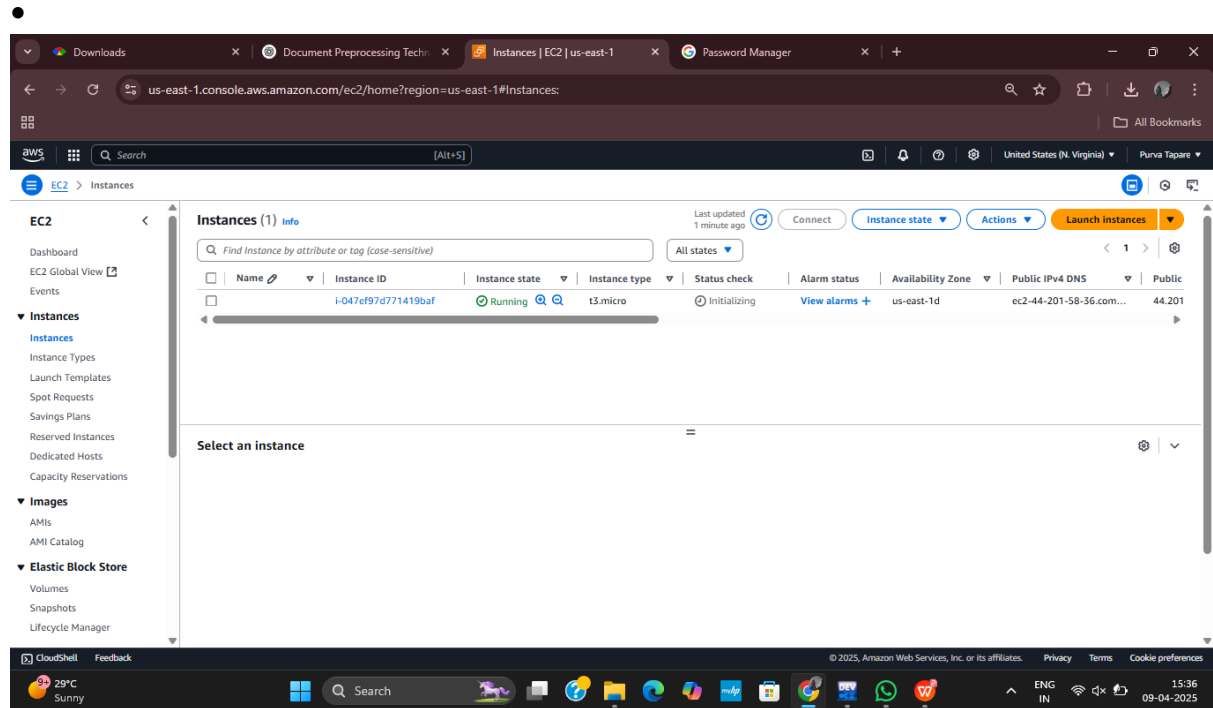
Step 6 : Launch the Instance

- Click Launch.
- Download the key pair (.pem file) and keep it safe – you'll need it to access your instance.
- Click Launch Instances



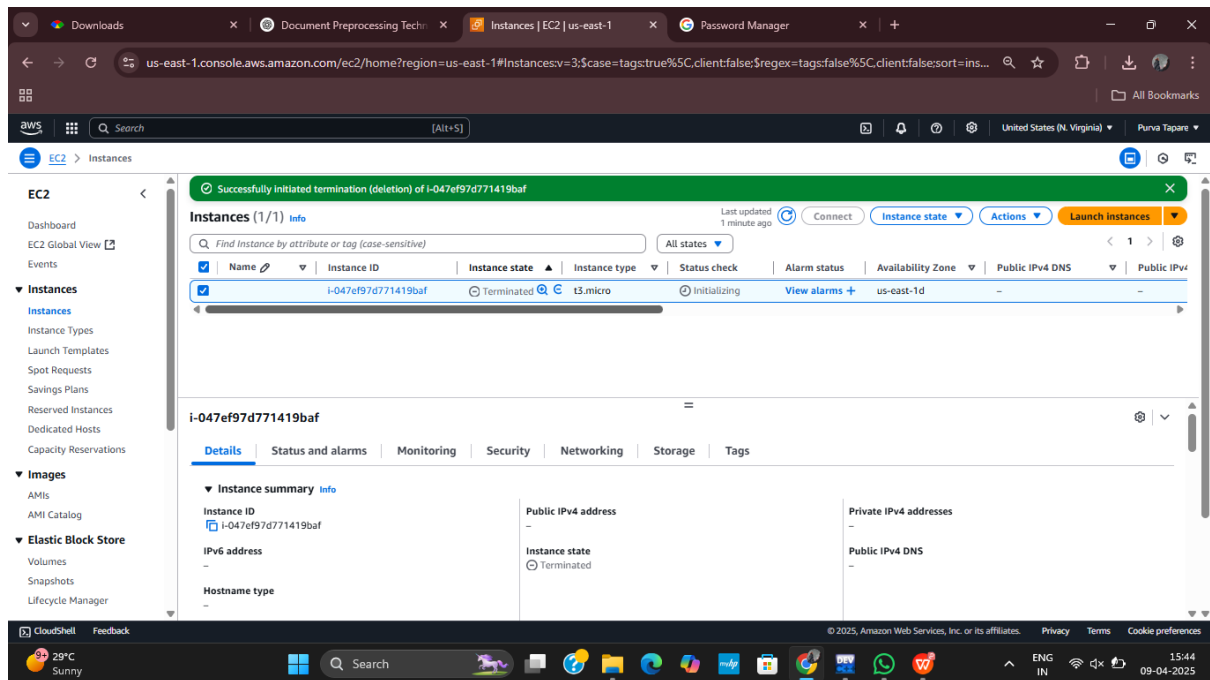
Step 7 : Access Your Instance

Go back to the EC2 dashboard



Step 8 : Click on “Instance State” > “Terminate Instance”

- At the top menu, click “Instance State”.
- Choose “Terminate Instance” from the dropdown.
- Click “Terminate” to confirm.



Conclusion : Successfully Created and Launch an Instance in Amazon EC2 Services.