

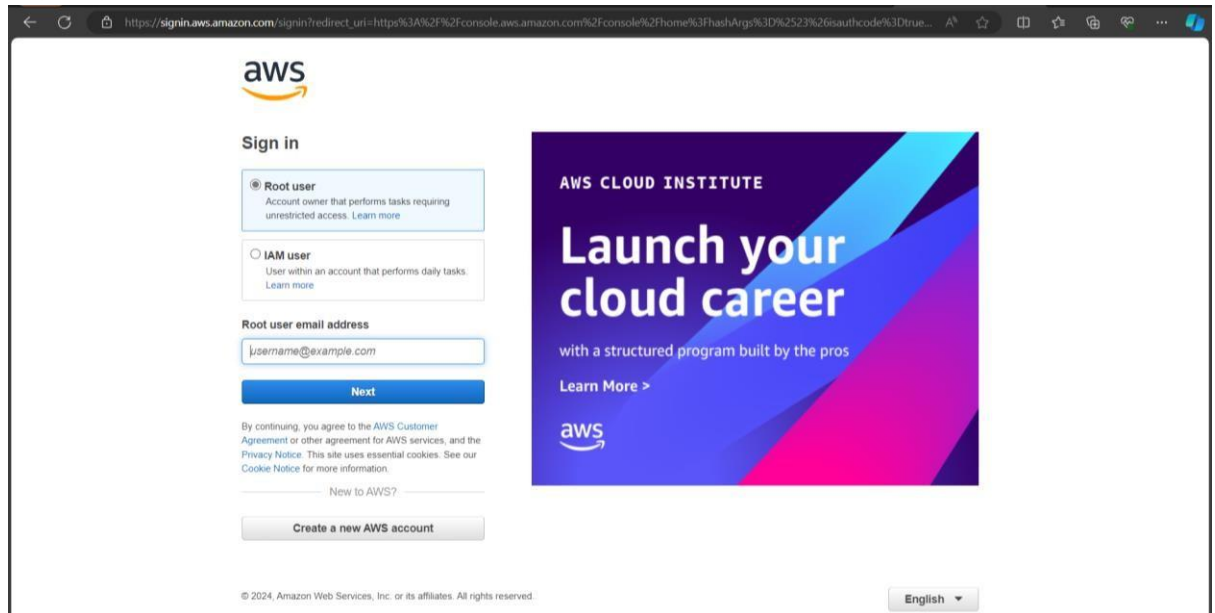
# Assignment-1

## PROBLEM STATEMENT :

Create an account in AWS and configure a budget.

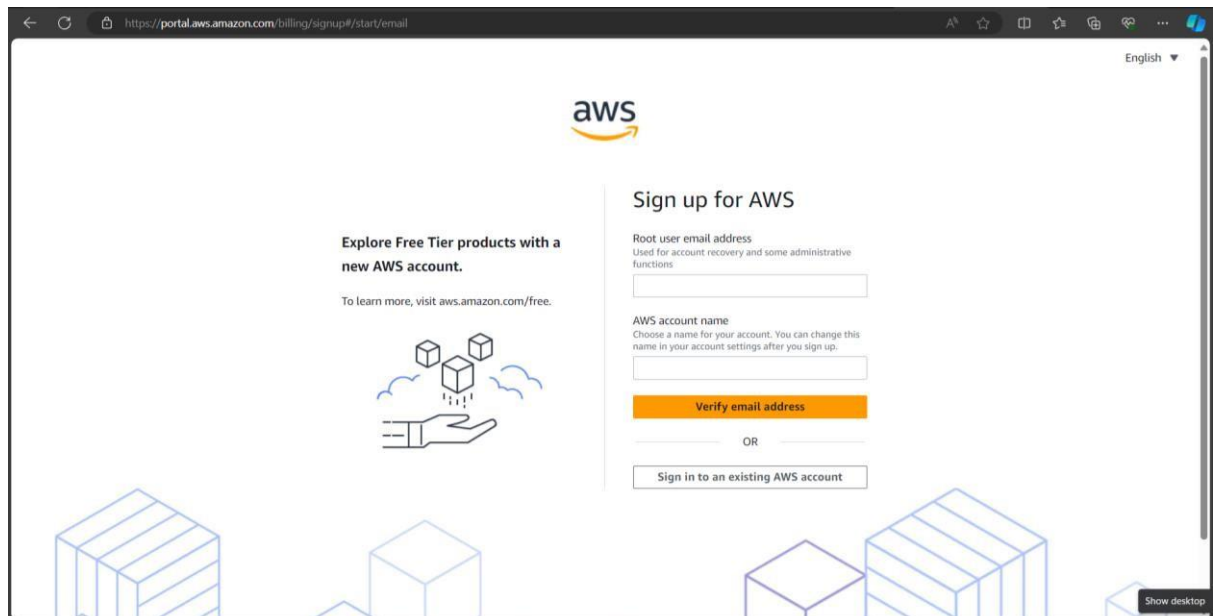
## Account Creation

1. Sign up. Create a new AWS account.



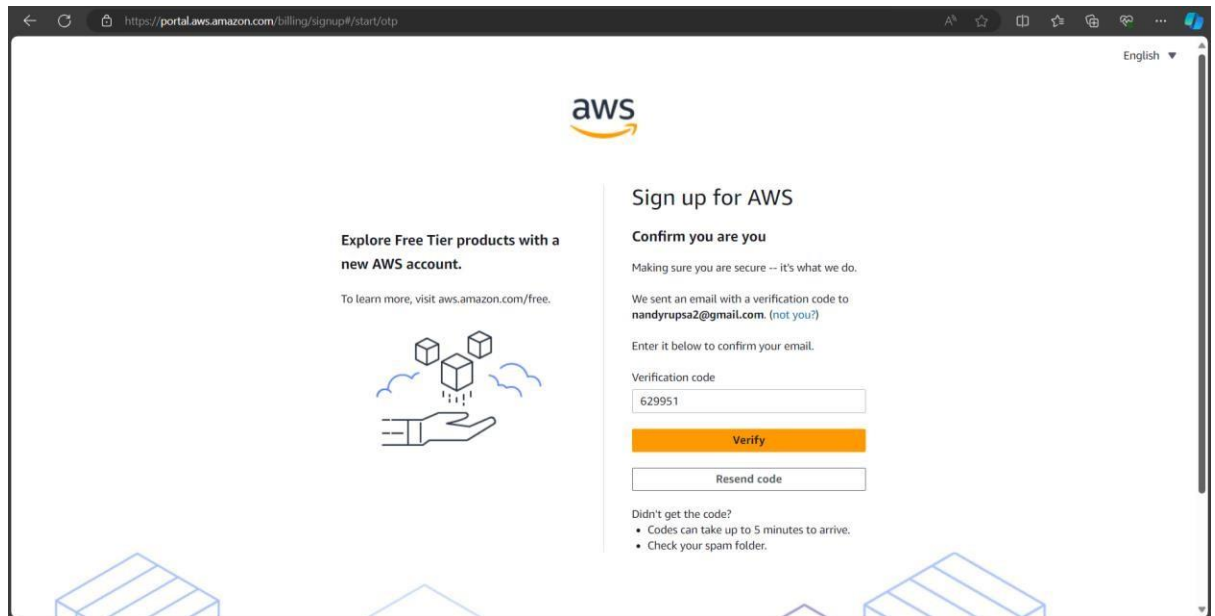
The screenshot shows the AWS Sign in page. On the left, there is a 'Sign in' section with two options: 'Root user' (selected) and 'IAM user'. Below these is a text input field for 'Root user email address' containing 'username@example.com' and a 'Next' button. At the bottom of this section is a link to 'Create a new AWS account'. On the right, there is a large purple and blue banner for the 'AWS CLOUD INSTITUTE' with the text 'Launch your cloud career' and 'with a structured program built by the pros'. Below the banner is a 'Learn More >' link. The footer includes the copyright notice '© 2024, Amazon Web Services, Inc. or its affiliates. All rights reserved.' and a language selector set to 'English'.

2. Enter root user email address and AWS account name.



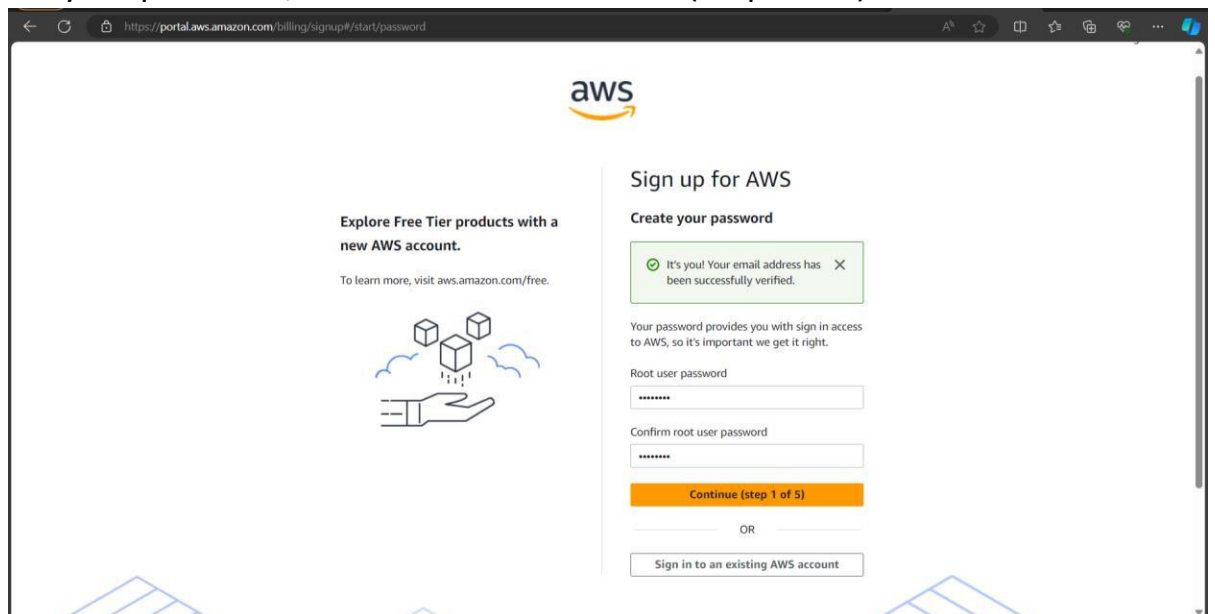
The screenshot shows the 'Sign up for AWS' page. On the left, there is a section titled 'Explore Free Tier products with a new AWS account.' with a link to 'aws.amazon.com/free.' and an illustration of a hand holding a cube. On the right, there is a 'Sign up for AWS' form with two input fields: 'Root user email address' and 'AWS account name'. Below the 'AWS account name' field is an orange 'Verify email address' button. Below this is an 'OR' separator and a 'Sign in to an existing AWS account' link. The footer includes a 'Show desktop' button.

### 3. Verify your email address.



The screenshot shows the AWS sign-up page at the URL `https://portal.aws.amazon.com/billing/signup#/start/otp`. The page features the AWS logo at the top center. On the left, there is a section titled "Explore Free Tier products with a new AWS account." with a link to `aws.amazon.com/free` and an illustration of a hand holding three cubes. On the right, the "Sign up for AWS" section is titled "Confirm you are you". It states "Making sure you are secure -- it's what we do." and "We sent an email with a verification code to `nandyrupsa2@gmail.com`. (not you?)". Below this, it says "Enter it below to confirm your email." and provides a "Verification code" input field with the value "629951". There are two buttons: "Verify" (orange) and "Resend code" (white). At the bottom, it says "Didn't get the code?" and lists two bullet points: "Codes can take up to 5 minutes to arrive." and "Check your spam folder."

### 4. Set your password, then click on "Continue". (Step 1 of 5)



The screenshot shows the AWS sign-up page at the URL `https://portal.aws.amazon.com/billing/signup#/start/password`. The page features the AWS logo at the top center. On the left, there is a section titled "Explore Free Tier products with a new AWS account." with a link to `aws.amazon.com/free` and an illustration of a hand holding three cubes. On the right, the "Sign up for AWS" section is titled "Create your password". It shows a green success message: "It's you! Your email address has been successfully verified." Below this, it says "Your password provides you with sign in access to AWS, so it's important we get it right." and provides two input fields for "Root user password" and "Confirm root user password", both masked with dots. There are two buttons: "Continue (step 1 of 5)" (orange) and "Sign in to an existing AWS account" (white). An "OR" separator is located between the two main buttons.

5. Fill the required details, tick off the check box and then click on “Continue”. (Step 2 of 5)

The screenshot shows the 'Sign up for AWS' page, specifically the 'Contact Information' section. On the left, there are 'Free Tier offers' including 'Always free', '12 months free', and 'Trials'. The 'Contact Information' section includes fields for 'Full Name' (Rupia handy), 'Phone Number' (+91 9007413395), 'Country or Region' (India), 'Address' (Kona Tetutala Poyara Bagan Howrah-71111), 'City' (Howrah), 'State, Province, or Region' (West Bengal), and 'Postal Code' (711114). A checkbox for 'I have read and agree to the terms of the AWS Customer Agreement' is checked. A 'Continue (step 2 of 5)' button is at the bottom right.

6. Complete payment for successful registration. (Step 3 of 5).

The screenshot shows the 'Sign up for AWS' page, specifically the 'Billing Information' section. On the left, there is a 'Secure verification' box with a shield icon and a note about temporary holds. The 'Billing Information' section includes fields for 'Credit or Debit card number', 'Expiration date', 'Security code', and 'Cardholder's name'. There is a checkbox for 'Save card information for faster future payments'. Below this, there is a 'Billing address' section with a checkbox for 'Use my contact address' (checked) and a checkbox for 'Use a new address'. A 'Verify and Continue (step 3 of 5)' button is at the bottom right.

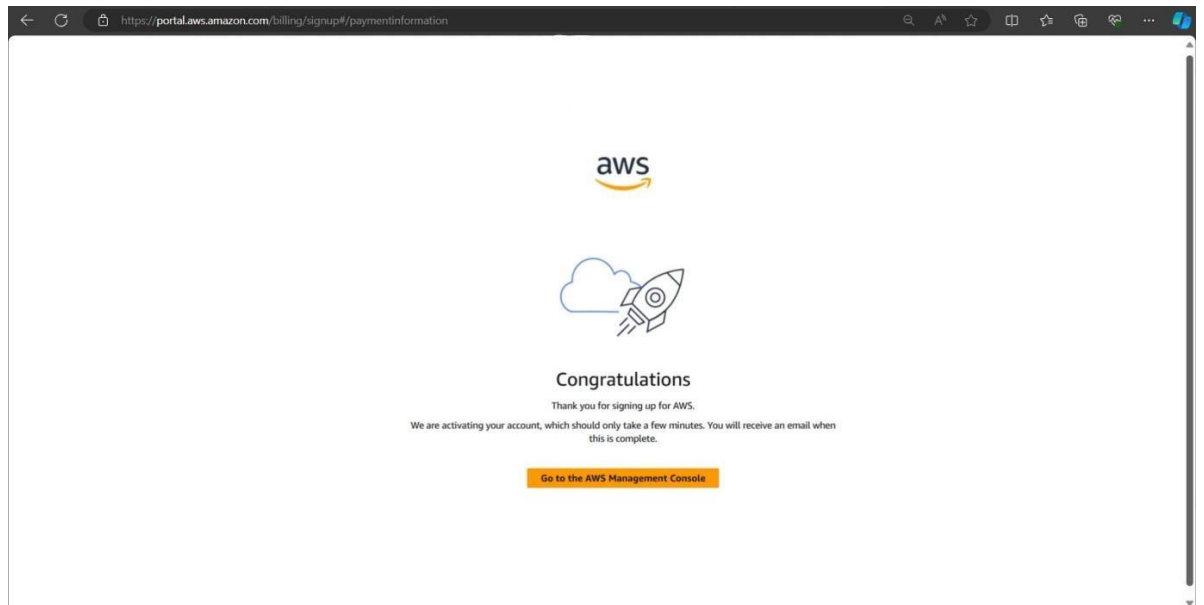
## 7. Verify phone number. (Step 4 of 5).

The screenshot shows the 'Sign up for AWS' page with the 'Confirm your identity' section. It includes a 'How should we send you the verification code?' section with radio buttons for 'Text message (SMS)' (selected) and 'Voice call'. Below this is a 'Country or region code' dropdown menu set to 'India (+91)'. A 'Mobile phone number' input field is present. A 'Security check' section displays a CAPTCHA image with the text 'b5-c8x6 n3 6070'. Below the CAPTCHA is a text input field containing 'b5c8x6' and a 'Send SMS (step 4 of 5)' button.

## 8. Select a Support plan. (Step 5 of 5).

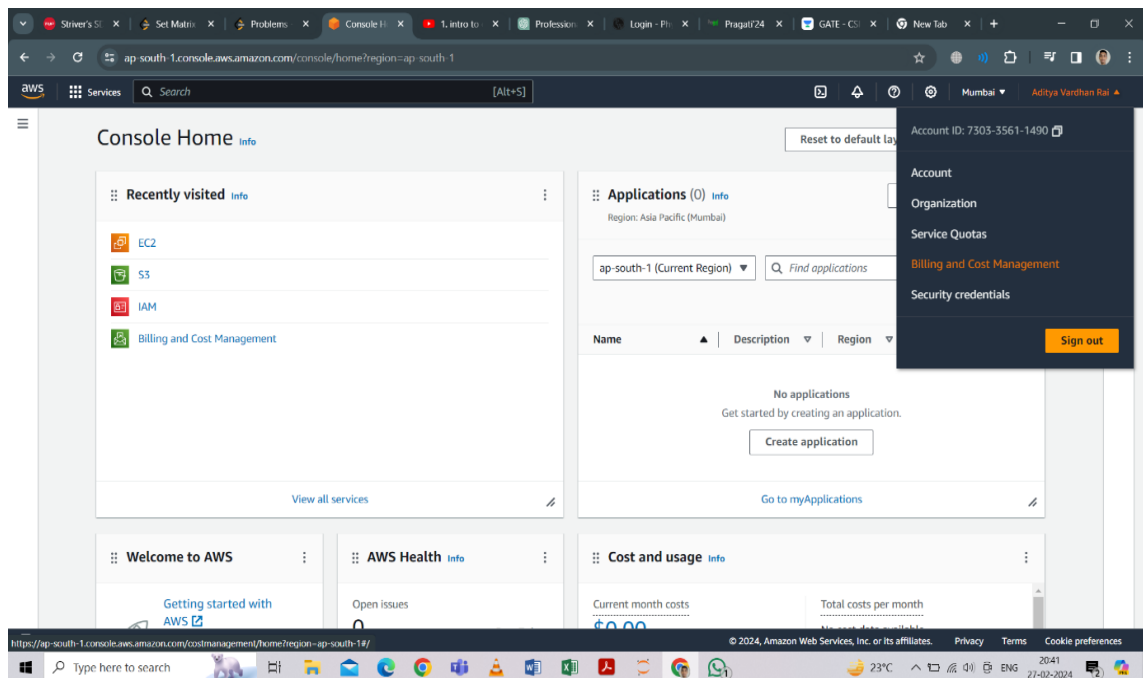
The screenshot shows the 'Sign up for AWS' page with the 'Select a support plan' section. It includes a 'Choose a support plan for your business or personal account. Compare plans and pricing examples' link. Below this are three support plan options: 'Basic support - Free' (recommended for new users), 'Developer support - From \$29/month' (recommended for developers), and 'Business support - From \$100/month' (recommended for running production workloads). Each plan has a list of features and an icon. At the bottom, there is a 'Need Enterprise level support?' section with a link to 'Learn more' and a 'Complete sign up' button.

## 9. Successful account creation.

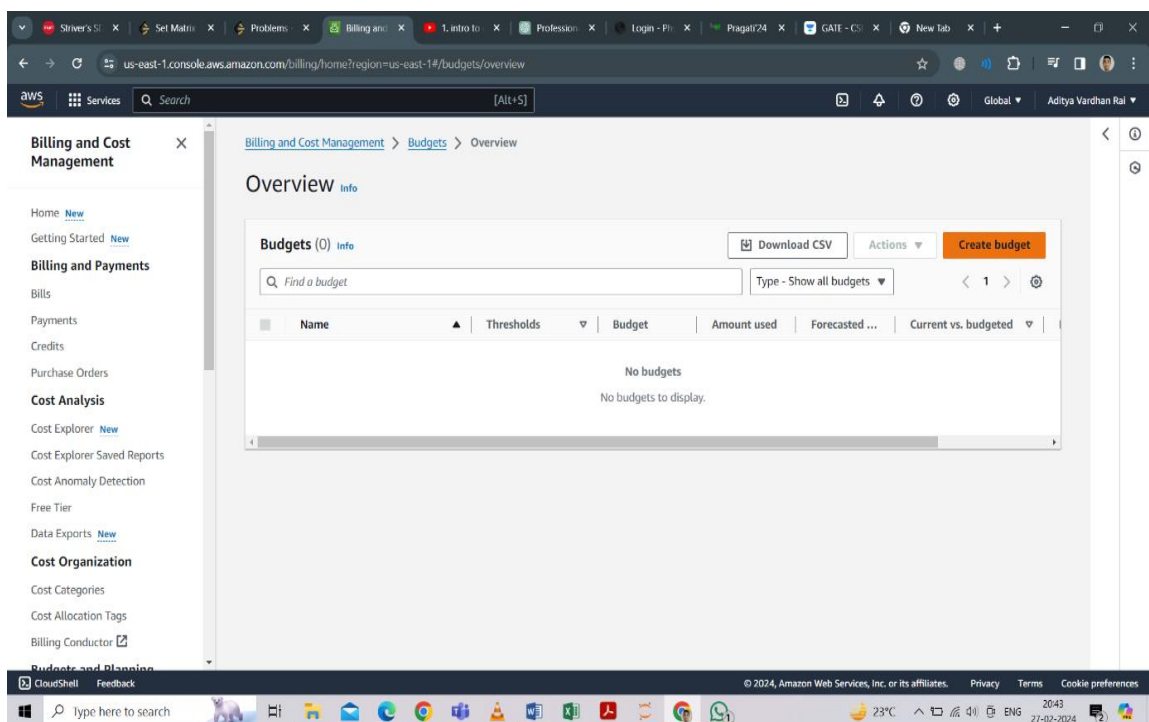


## Budget Configuration

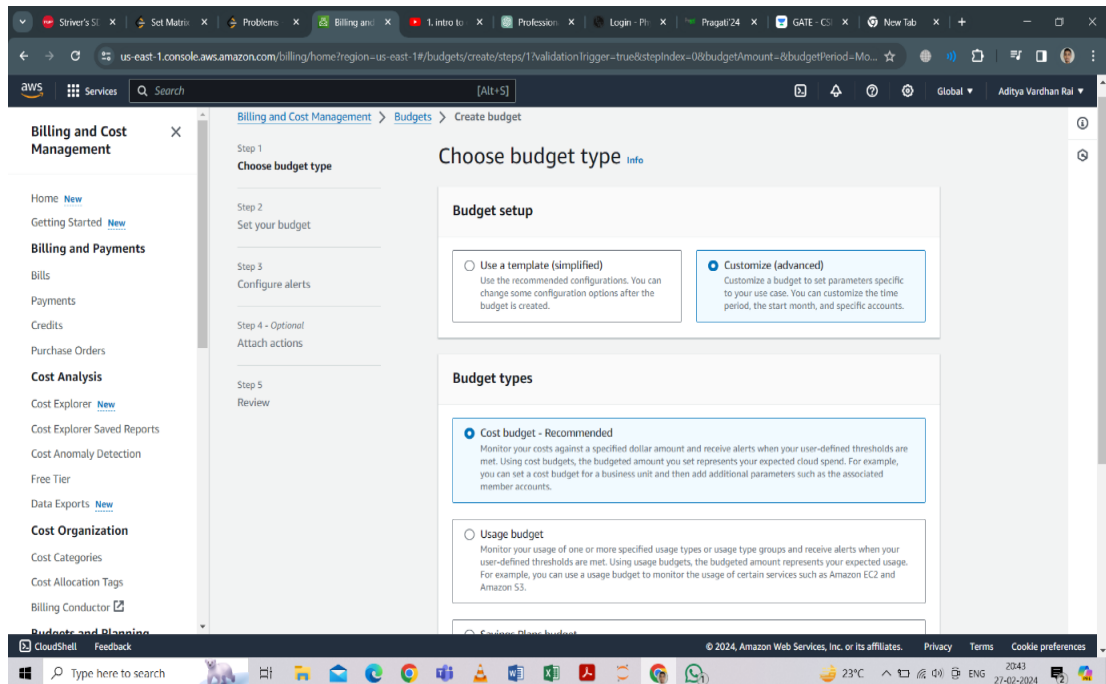
1. Log in to AWS console, go to your username and there click on 'Billing and Cost Management'.



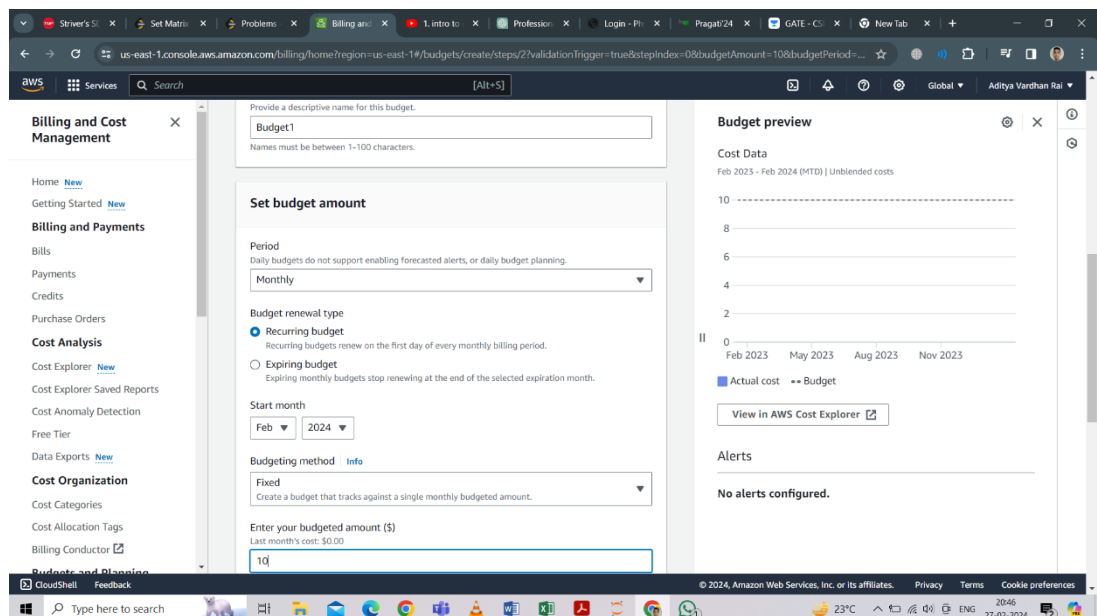
2. Under 'Budgets and Planning', click on 'Budgets' and create budget.



3. Configure budget setup by clicking on “Customize (advanced)” then click on next.



4. Add budget details. (Name, period, amount, etc)



5. After clicking on add threshold, we fill-in necessary details and then click on “Next”.

The screenshot shows the AWS Billing and Cost Management console. The left sidebar contains navigation links for Home, Getting Started, Billing and Payments, Bills, Payments, Credits, Purchase Orders, Cost Analysis, Cost Explorer, Cost Explorer Saved Reports, Cost Anomaly Detection, Free Tier, Data Exports, Cost Organization, Cost Categories, Cost Allocation Tags, and Billing Conductor. The main content area is titled 'Set alert threshold' and includes a 'Threshold' section with a value of 60 and a unit of '% of budgeted amount'. The 'Trigger' section is set to 'Actual'. A summary states: 'When your actual cost is greater than 60.00% (\$6.00) of your budgeted amount (\$10.00), the alert threshold will be exceeded.' The 'Notification preferences' section shows 'Email recipients' with the email 'raiadityvardhan@gmail.com'. At the bottom, there are 'Cancel', 'Previous', and 'Next' buttons. To the right, a 'Budget preview' section shows a line chart for 'Feb 2023 - Feb 2024 (MTD) | Unblended costs' with a legend for 'Actual cost', 'Budget', and 'Alert #1 (actual)'. Below the chart, it shows 'Alerts' with the message 'Actual cost > 60% | No actions'.

6. We review our budget and click on “Create Budget”.

The screenshot shows the AWS Billing and Cost Management console at the 'Step 3: Configure alerts' stage. The left sidebar is the same as in the previous screenshot. The main content area has a title 'Step 3: Configure alerts' and an 'Edit' button. Below this, there is a section for 'Alerts' with 'Alert #1' showing a threshold of '60% of budgeted amount' and 'Threshold measured against Actual costs'. Below this is a section for 'Step 4: Attach actions - optional' with an 'Edit' button. The 'Actions' section shows 'You have no budgets actions'. At the bottom, there are 'Cancel', 'Previous', and 'Create budget' buttons. The 'Create budget' button is highlighted in orange.



## 7. Budget is successfully created.

The screenshot displays the AWS Billing and Cost Management console. A green notification banner at the top states: "Your budget Budget1 has been created successfully." The left sidebar shows the navigation menu with categories like Billing and Payments, Cost Analysis, and Cost Organization. The main content area is titled "Overview" and shows a table of budgets. The table has columns for Name, Thresholds, Budget, Amount used, Forecasted, and Current vs. budgeted. A single budget, "Budget1", is listed with a threshold of "OK", a budget of "\$10.00", and a current vs. budgeted value of "0.00%".

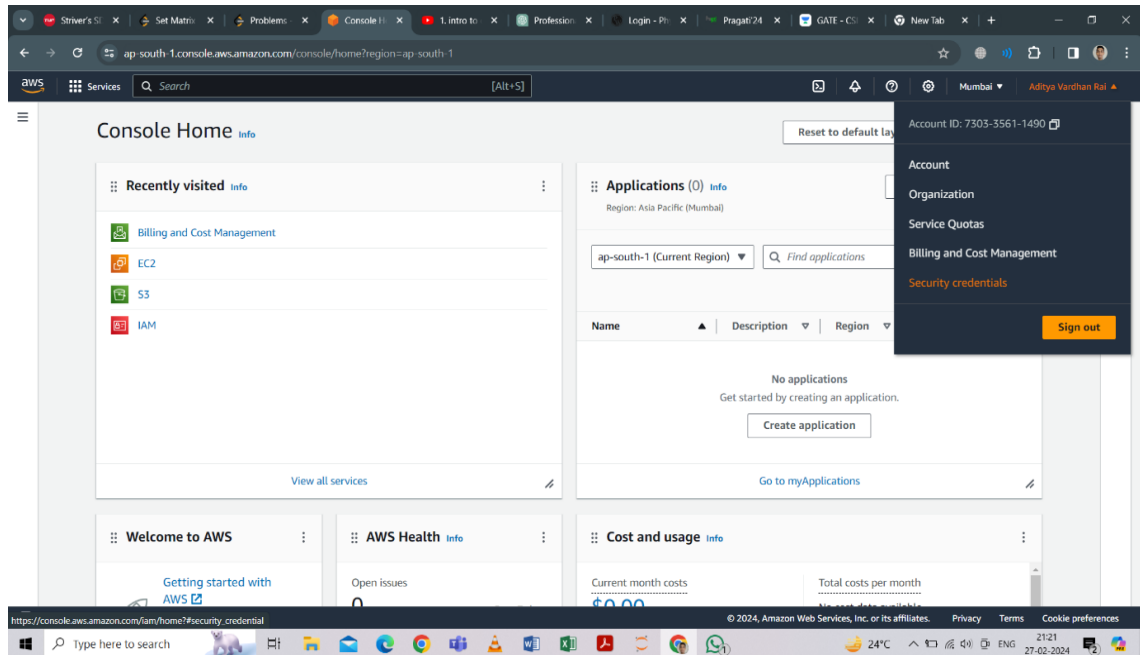
Name	Thresholds	Budget	Amount used	Forecasted	Current vs. budgeted
Budget1	OK	\$10.00	\$0.00	-	0.00%

## Assignment-2

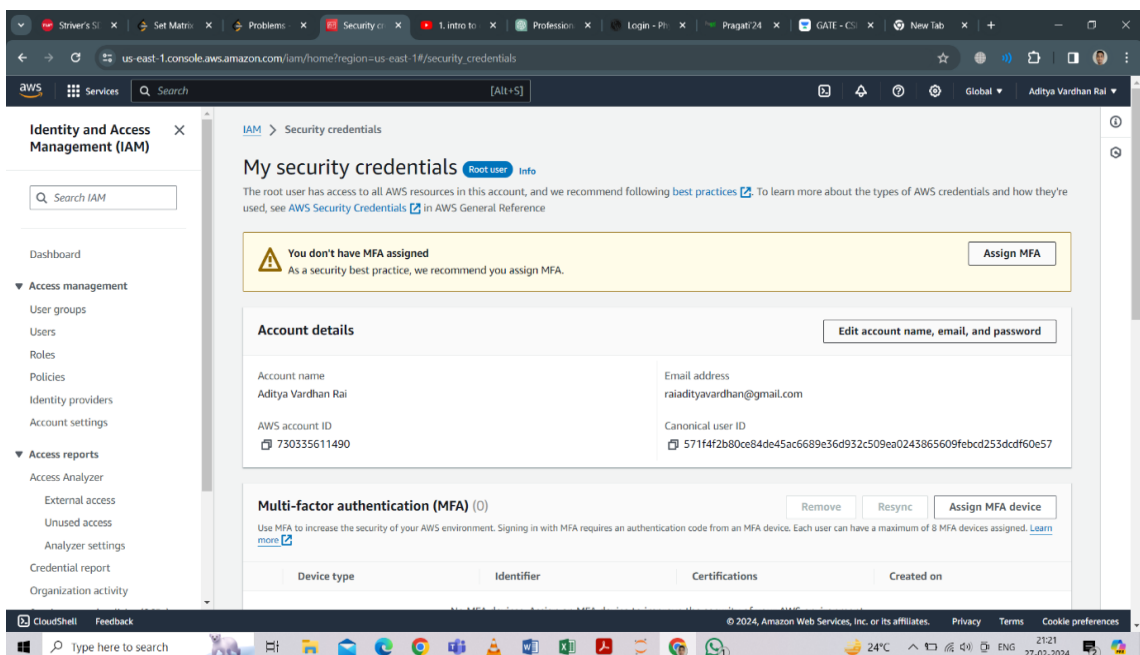
### PROBLEM STATEMENT :

->Create MFA for authentication.

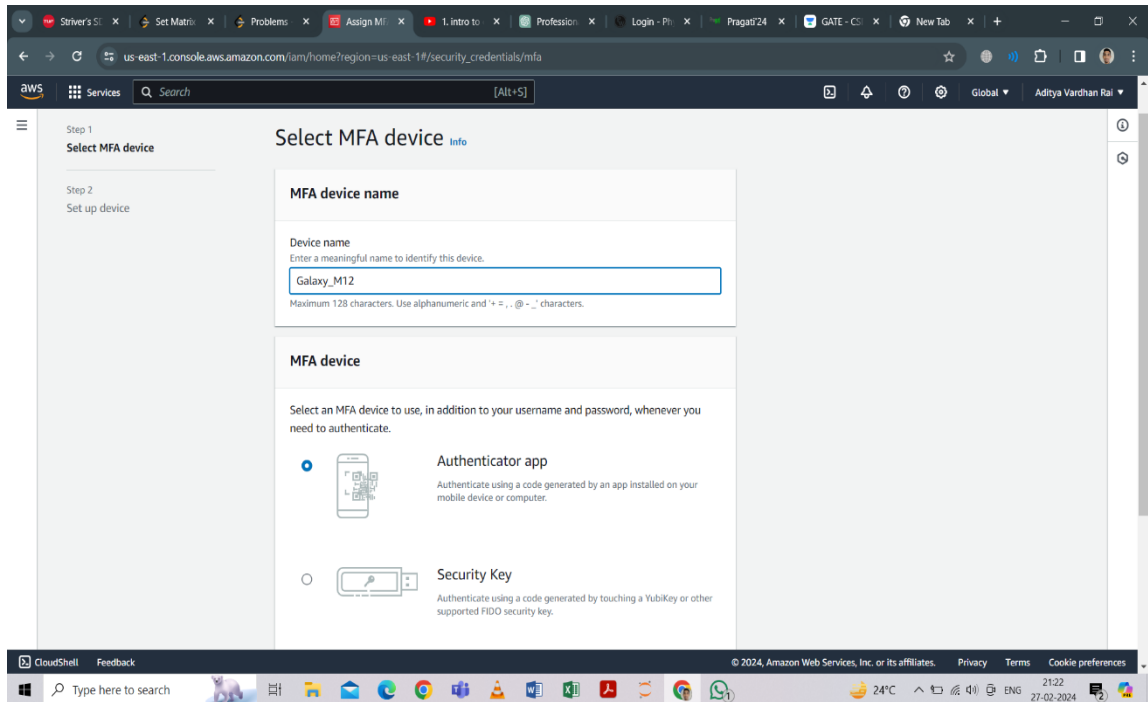
1. Log into AWS account and go to security credentials.



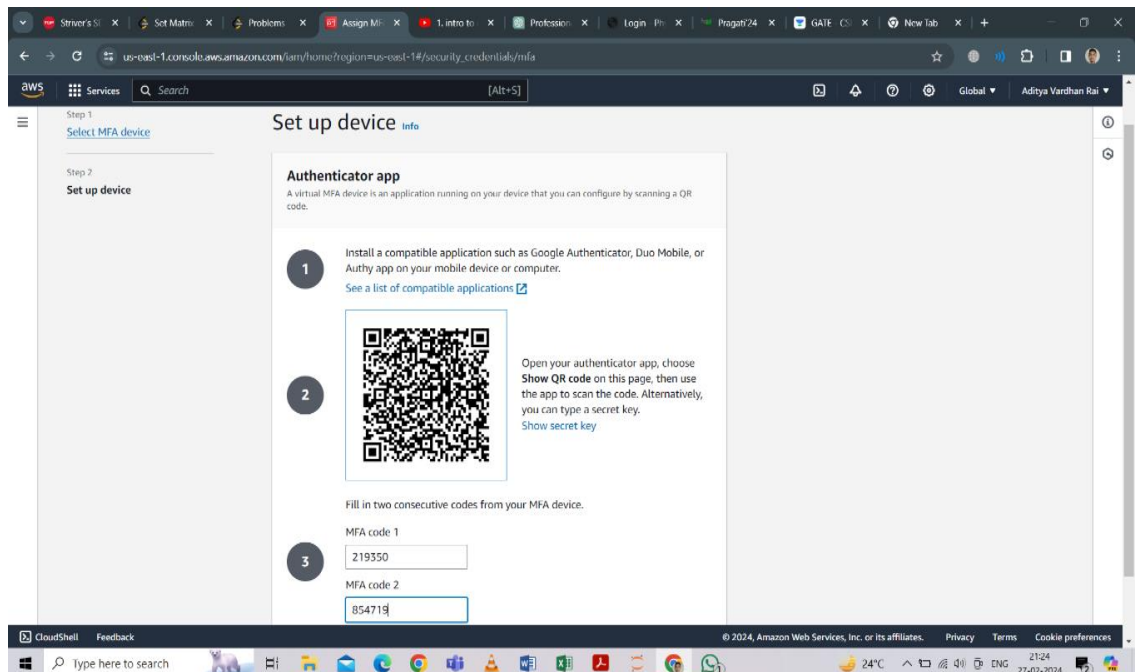
2. Add MFA device by clicking on 'Assign MFA device'.



3. Enter a desired device name, MFA device and then click on 'Next'.



4. Enter code using authenticator app and click on 'Add MFA' to complete the process.



## 5. MFA device assigned successfully.

The screenshot displays the AWS IAM console interface. A green notification banner at the top states: "MFA device assigned. You can register up to 8 MFA devices of any combination of the currently supported MFA types with your AWS account root and IAM user. With multiple MFA devices, you only need one MFA device to sign in to the AWS console or create a session through the AWS CLI with that user." Below this, the "Account details" section shows the account name "Aditya Vardhan Rai", email address "raladityavardhan@gmail.com", AWS account ID "730335611490", and Canonical user ID "57114f2b80ce84de45ac6689e36d932c509ea0243865609febcd253dcd60e57". The "Multi-factor authentication (MFA) (1)" section shows a table with one entry: a Virtual device with identifier "arn:aws:iam::730335611490:mfa/Galaxy\_M12", no certifications, and created on "Now". The "Access keys (0)" section shows a "Create access key" button. The left sidebar contains navigation links for Identity and Access Management (IAM), Access management, Access reports, and Access analyzer. The bottom of the screen shows the Windows taskbar with various application icons and system tray information.

**Identity and Access Management (IAM)**

Search IAM

Dashboard

▼ Access management

- User groups
- Users
- Roles
- Policies
- Identity providers
- Account settings

▼ Access reports

- Access Analyzer
- External access
- Unused access
- Analyzer settings
- Credential report
- Organization activity

**Account details** [Edit account name, email, and password](#)

Account name: Aditya Vardhan Rai

Email address: raladityavardhan@gmail.com

AWS account ID: 730335611490

Canonical user ID: 57114f2b80ce84de45ac6689e36d932c509ea0243865609febcd253dcd60e57

**Multi-factor authentication (MFA) (1)** [Remove](#) [Resync](#) [Assign MFA device](#)

Use MFA to increase the security of your AWS environment. Signing in with MFA requires an authentication code from an MFA device. Each user can have a maximum of 8 MFA devices assigned. [Learn more](#)

Device type	Identifier	Certifications	Created on
<input type="radio"/> Virtual	arn:aws:iam::730335611490:mfa/Galaxy_M12	Not Applicable	Now

**Access keys (0)** [Create access key](#)

Use access keys to send programmatic calls to AWS from the AWS CLI, AWS Tools for PowerShell, AWS SDKs, or direct AWS API calls. You can have a maximum of two access keys (active or inactive) at a time. [Learn more](#)

Access key ID	Created on	Access key last used	Region last used	Service last used	Status
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