

**DEPARTMENT OF MASTER OF COMPUTER APPLICATIONS**

**LABORATORY MANUAL**

**III Semester**

**Batch:2024-26**

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**Course: Cloud Computing**

**Course code: 24MCASS3**

**Course Credits: 0 : 1: 2**

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**RAMAIAH INSTITUTE OF TECHNOLOGY**

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**Table of Lab Programs**

|  |  |
| --- | --- |
| **Sl. No.** | **Programs/Exercise/Topic.** |
| 1**.** | AWS Account Setup and Configuration. AWS Console Overview. Enable MFA. Create AWS budget alert. |
| 2. |  |
| 3. |  |
| 4. |  |
| 5. |  |
| 6. |  |
| 7. |  |
| 8. |  |
| 9. |  |
| 10. |  |
| 11. |  |
| 12. |  |
| 13. |  |
| 14. |  |
| 15. |  |
| 16. |  |
| 17. |  |
| 18. |  |
| 19. |  |
| 20. |  |
| 21. |  |
| 22. |  |
| 23. |  |
| 24. |  |
| 25. |  |
| 26. |  |
| 27. |  |

**Date: 8-10-2025**

**Exercise:** AWS Account Setup and Configuration. AWS Console Overview. Enable MFA. Create AWS budget alert.

AWS Console overview / AWS Home page/ AWS Dash board

Widgets – default view/ Add or remove widgets - small panels on the dashboard showing metrics or shortcuts; users can add or remove them as needed.

Region – Specifies the geographical data center location where your AWS resources are deployed.

Services – A categorized list of all AWS offerings such as Compute, Storage, Database, etc.

Search bar – A quick-access bar to search and pin frequently used services for faster access.

pin the most used services to console by clicking on star next to the service name.

Enable MFA

**Notes**

* Make sure your phone is unlocked, Bluetooth is on, and it uses a screen lock (fingerprint/PIN).

**Option 1: Add a Passkey for Easier Login**

**Step1: Go to Security Credentials**

* **Sign in to AWS console.**
* Go to **your username → Security credentials**.
* Under **Multi-factor authentication (MFA)** click **“Assign MFA device.”**
* Choose **“Passkeys and security keys”** → **Next**.
* On the next screen choose **“Phone or tablet”**.
* AWS will show a **browser pop-up** asking to use a device.
  1. Select **your phone** (or “Use another device” if it prompts).
* Look at your phone — you should get a **“Use passkey”** or **biometric prompt**.
* Approve using **fingerprint or phone PIN**.
* Back in AWS, click **Finish**. The passkey is now your MFA method.

Next time you sign in, just choose **“Sign in with a passkey” → approve on phone**.

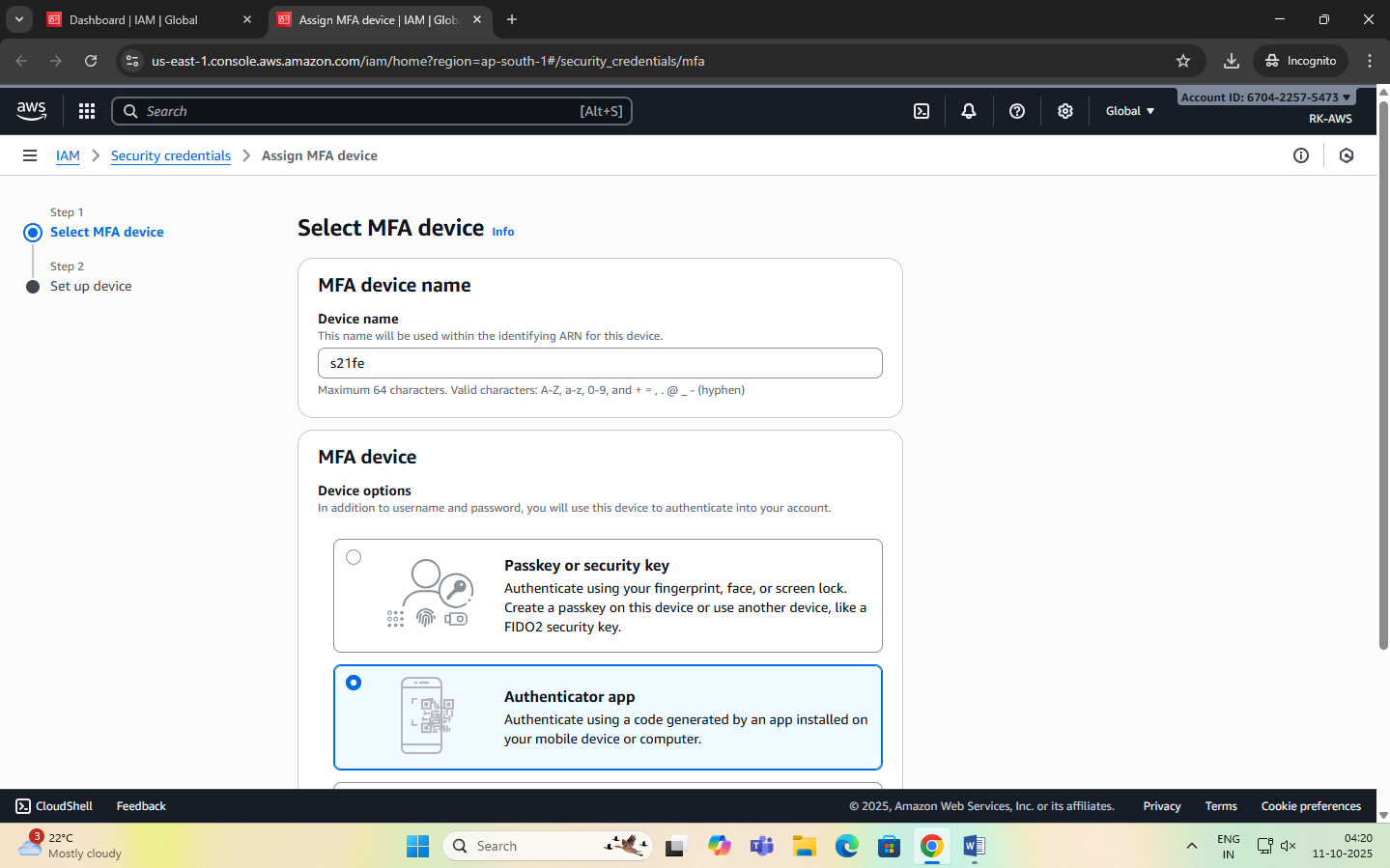
**Step 2: Test the Login**

* Sign out of AWS.
* Go to the login page.
* Choose “Sign in with a passkey” → Select your phone.
* Approve the prompt on your phone — you should be signed in without any MFA codes.

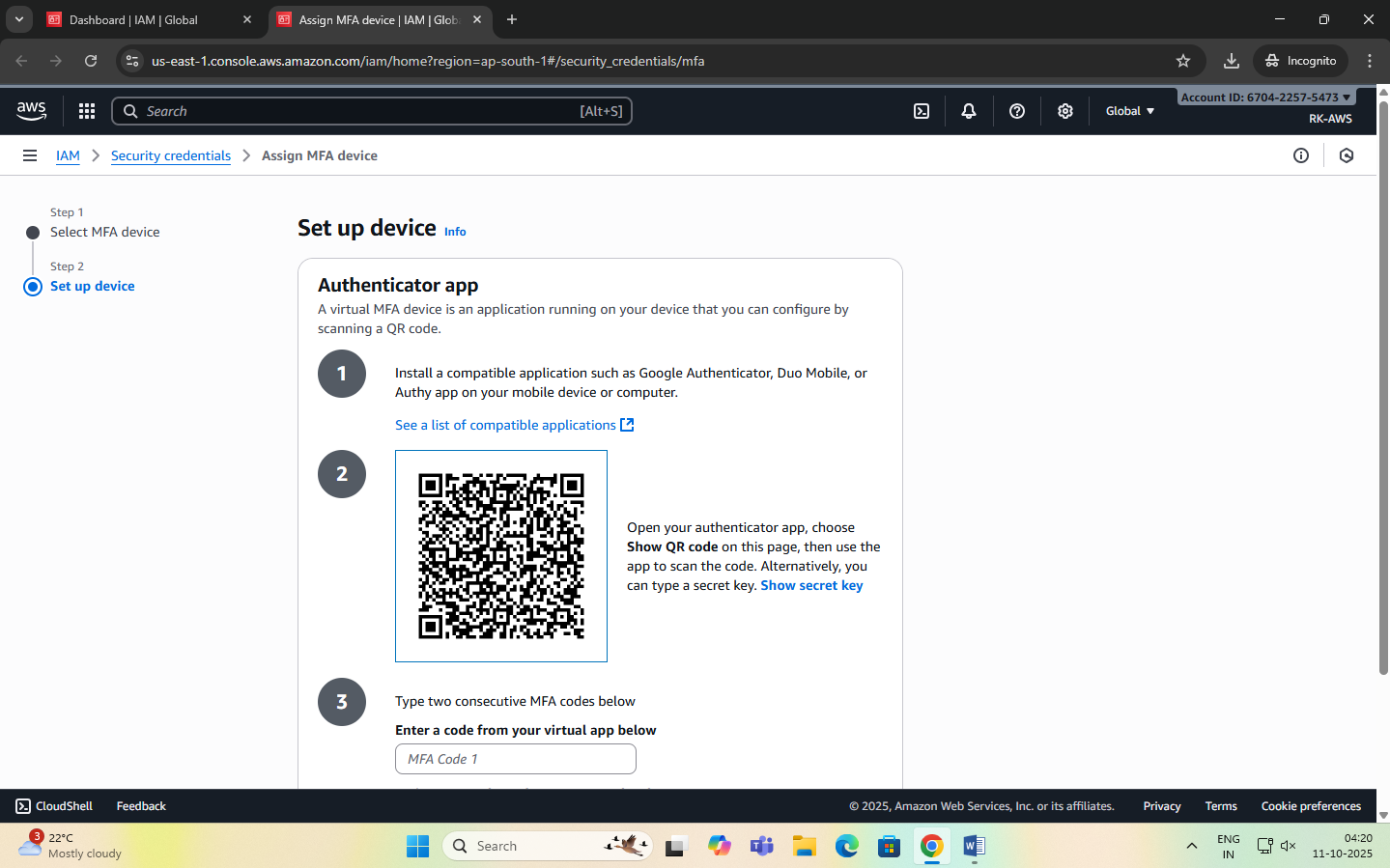
**Option 2: Authenticator App**

This uses a 6-digit code from Google Authenticator / Authy / Microsoft Authenticator.

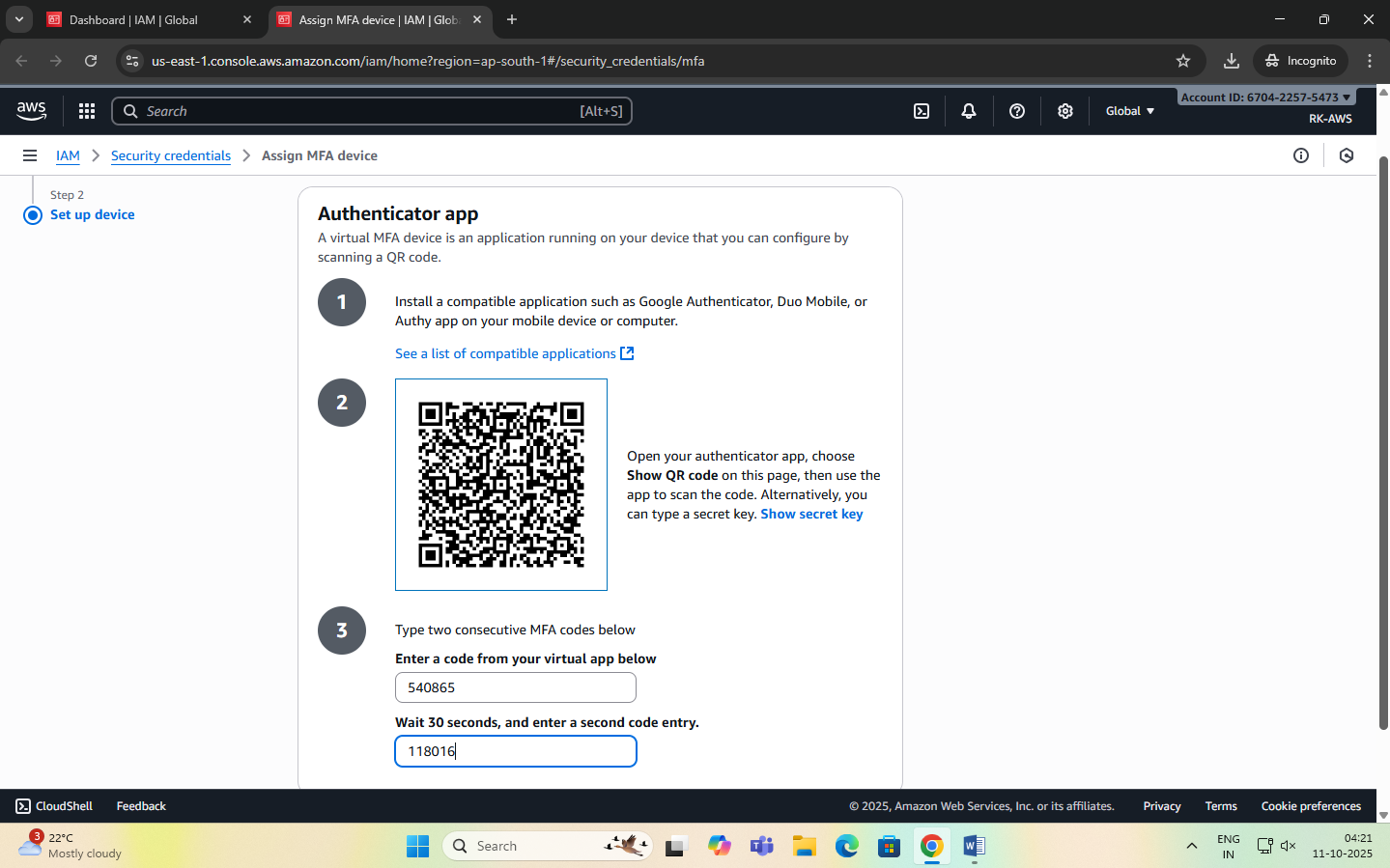
1. In **Security credentials**, click **“Assign MFA device.”**



1. Select **“Authenticator app”** → **Next**.
2. A QR code appears.



1. Open your authenticator app on your phone → **Add account → Scan QR code**.
2. The app shows a 6-digit code.
3. Enter that code back in AWS → **Assign MFA**. You’ll use the 6-digit code from the app each time you log in.



Create AWS budget alert

Allows to create a simple budget and to send alarms to registered email.

Example: if you are close to or exceeding your designated budget.

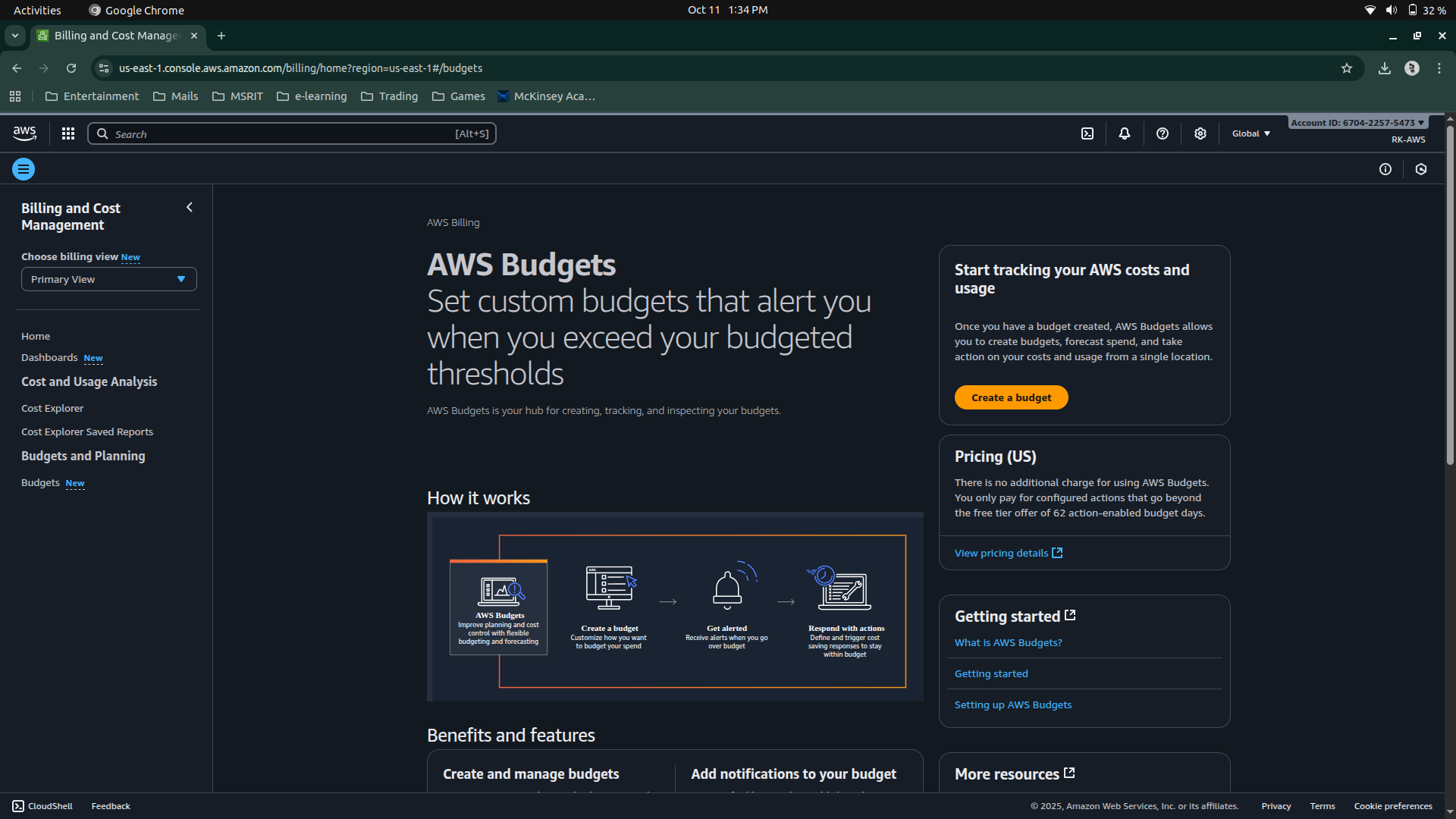
By setting a budget you can monitor budget threshold from the start.

Creating a budget

Step 1:

In the search bar type budgets and under the search results:

Select ‘Budgets’ from the Features group, which is essentially a feature of Billing and Cost Management service.



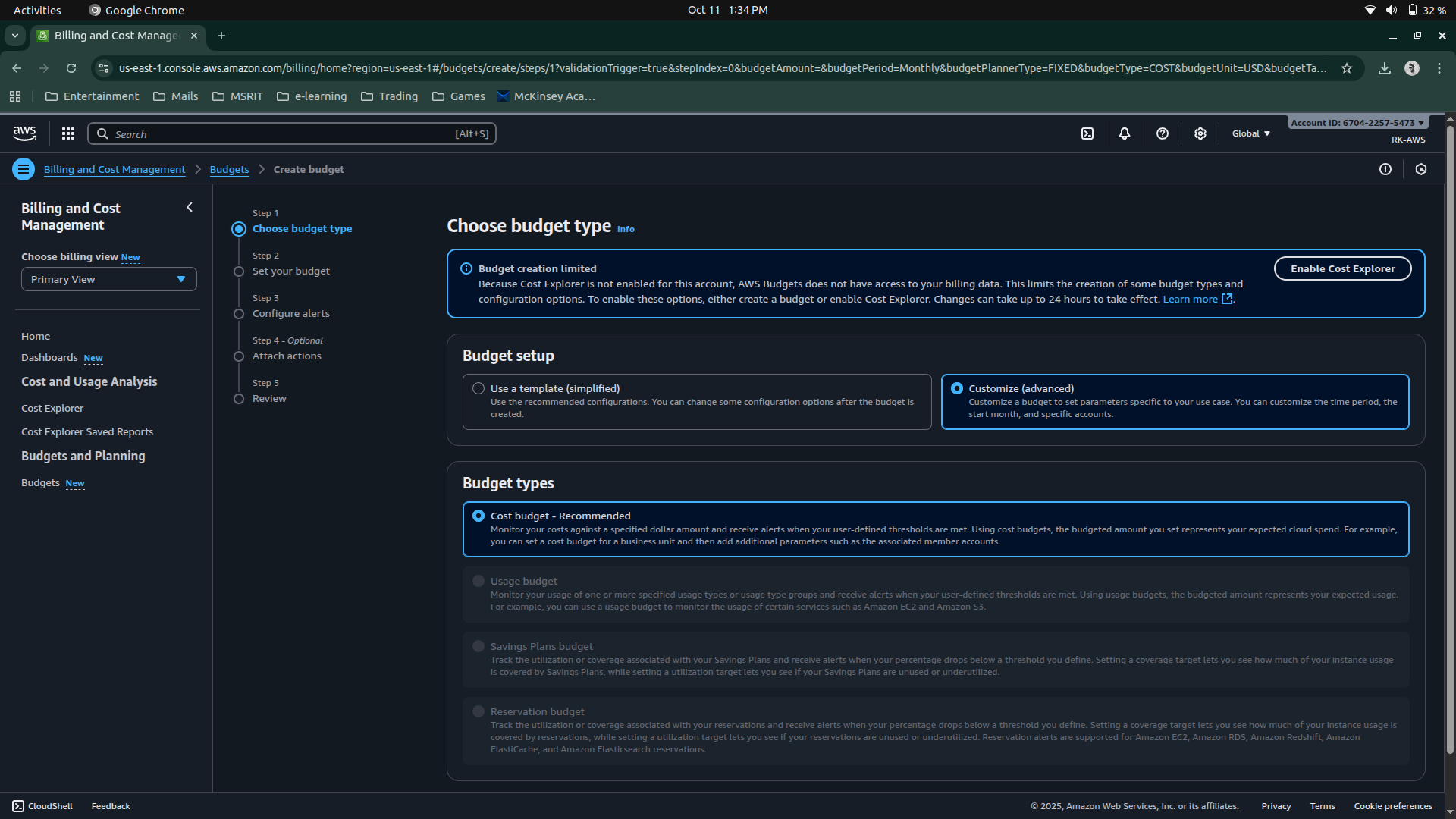
Step 2: After the ‘Budgets’ page loads

Click on Create Budget button

Under Budget setup select ‘Customize’ option

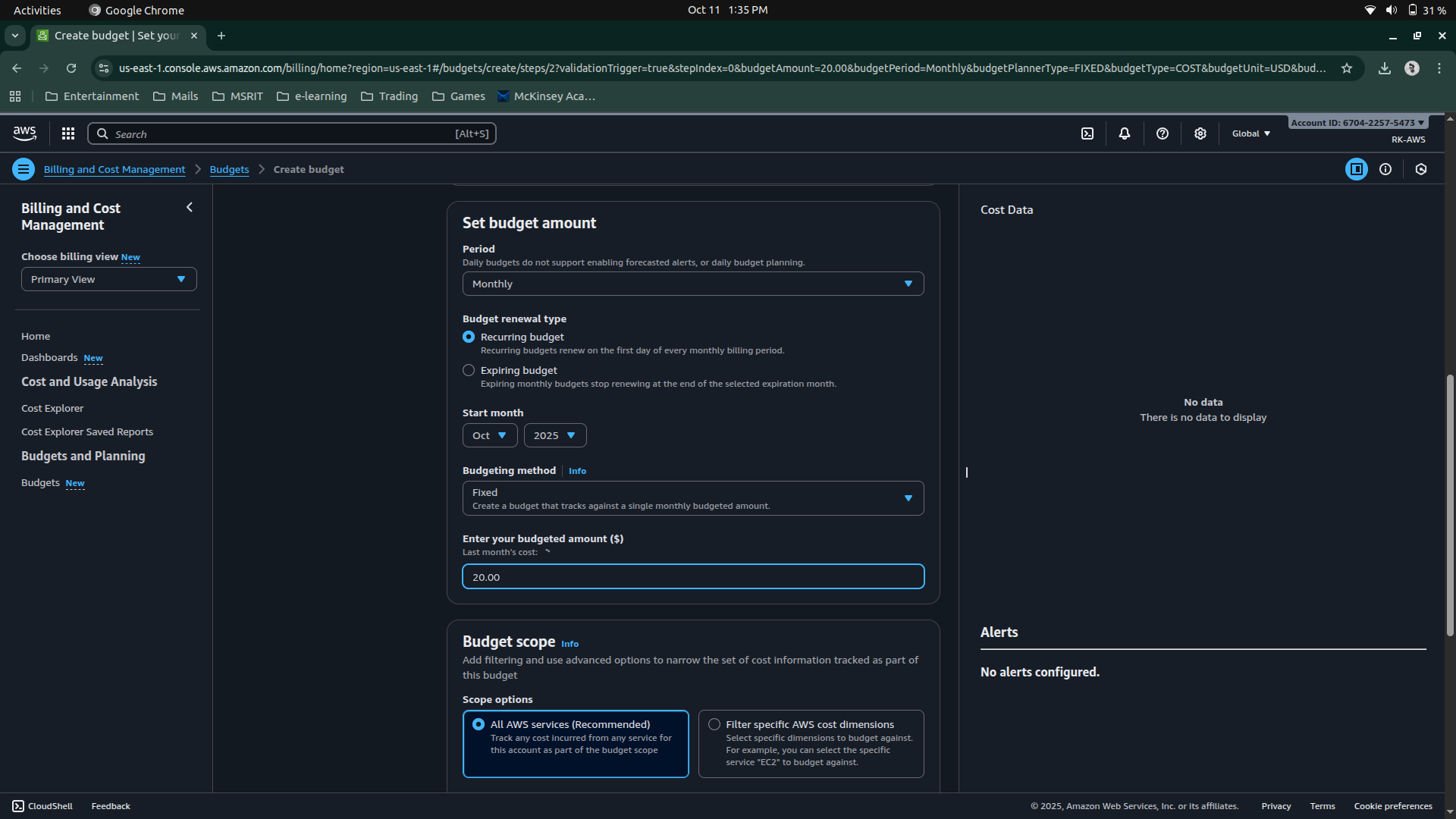
Under Budget types select ‘Cost budget’ option

Click on Next button.



Step 3: Set your budget page loads and fill in the details: MyBudget, Monthly, Recurring budget, set Month and Year, select Fixed – Budgeting method - Enter your budgeted amount – 20.00, select ‘All AWS services’ Scope options. Advanced options – leave it on default.

Click on Next button.



Step 4: Configure alerts

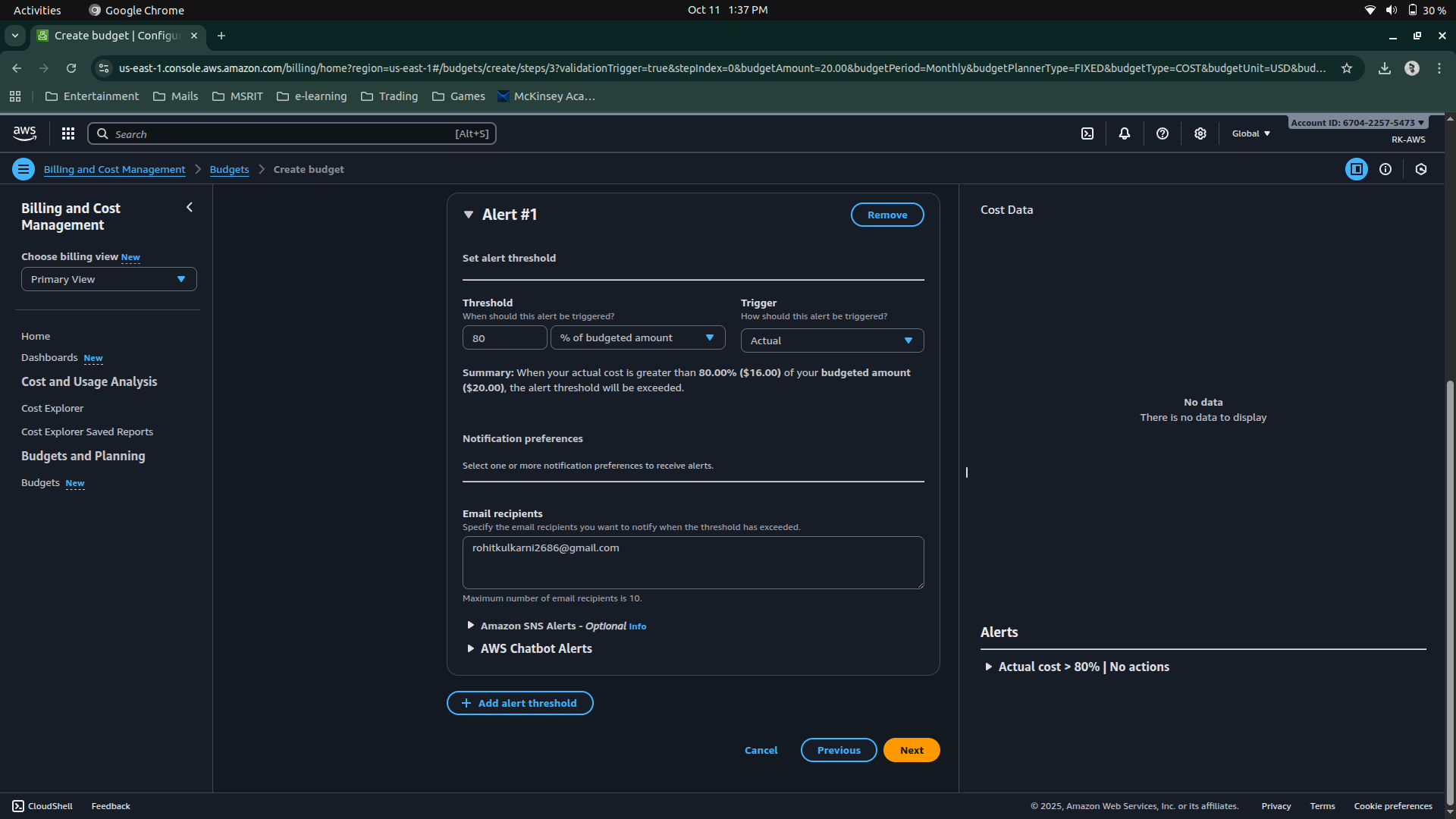
Click on Add an alert threshold

Under Set alert threshold

Set Threshold: 80 and Trigger: Actual

Email recipients: enter your email id.

Click on Next button.



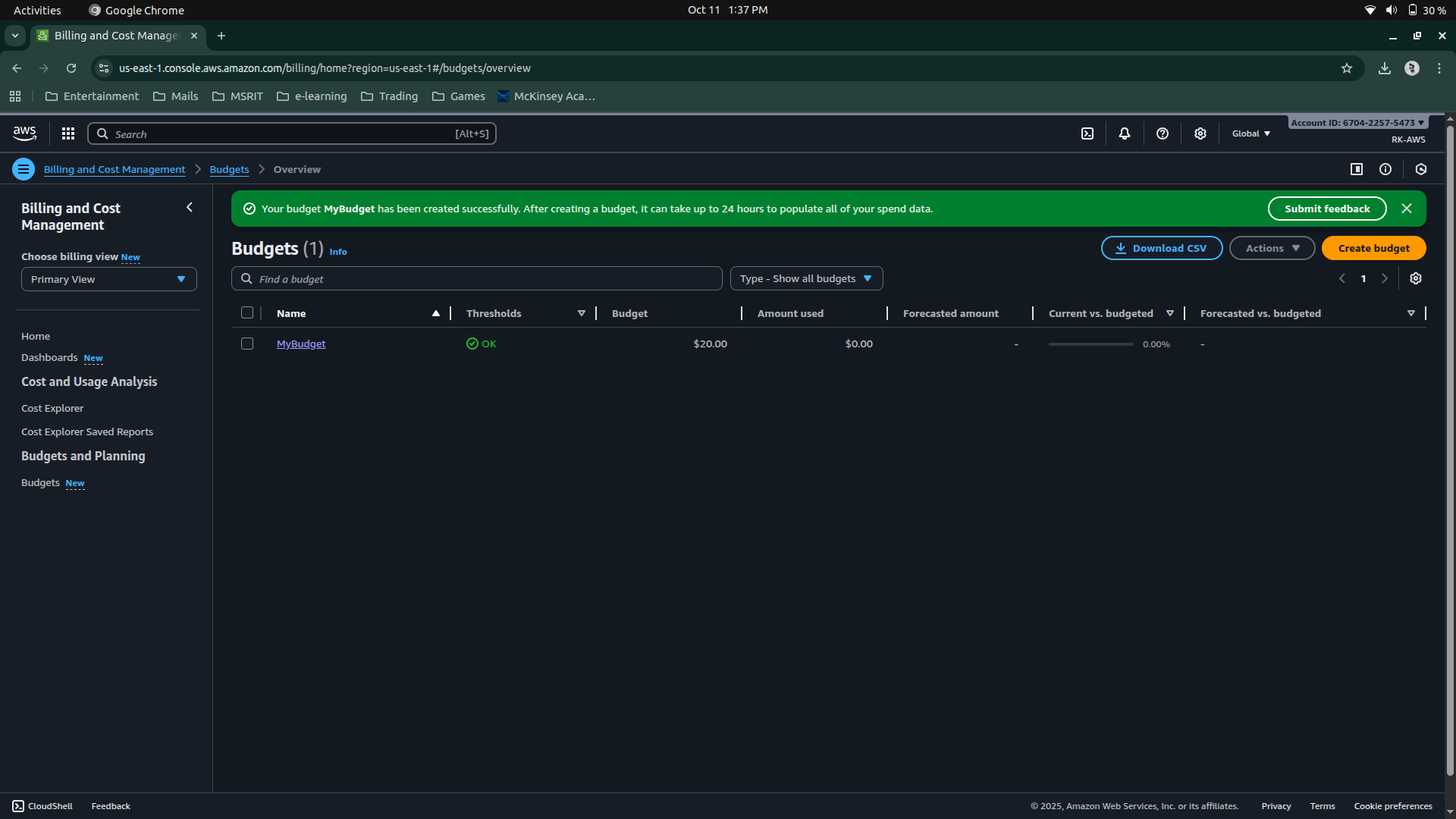
Step 5: Under Attach actions – leave it on default

Click on Next button.

Step 6: In review page – check and review all the options are set to what is desired.

Click on Create budget button.

Now, the budget has been created.



**Date: 9-10-2025**

**Exercise:**