

# Assignment No : 01

**Problem Statement :** Create an account in AWS and configure a budget.

**Answer :**

## Steps for creating an AWS account

- 1) Go to 'https://console.aws.amazon.com' & click 'Create a new AWS account' button.
- 2) Enter an email address , an AWS account name & click 'verify email address'.
- 3) Enter the verification code send to the given email address & click 'Verify'.



Explore Free Tier products with a new AWS account.  
To learn more, visit [aws.amazon.com/free](https://aws.amazon.com/free).



### Sign up for AWS

Root user email address  
Used for account recovery and some administrative functions

AWS account name  
Choose a name for your account. You can change this name in your account settings after you sign up.

**Verify email address**

OR

[Sign in to an existing AWS account](#)



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To learn more, visit [aws.amazon.com/free](https://aws.amazon.com/free).



### Sign up for AWS

**Confirm you are you**  
Making sure you are secure -- it's what we do.  
We sent an email with a verification code to [\(not you?\)](mailto:ak@gmail.com)  
Enter it below to confirm your email.

Verification code

**Verify**

[Resend code](#)

Didn't get the code?  
• Codes can take up to 5 minutes to arrive.  
• Check your spam folder.

- 4) After email verification set a new password for AWS account and click 'Continue'.



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### Sign up for AWS

**Create your password**

It's you! Your email address has been successfully verified.

Your password provides you with sign in access to AWS, so it's important we get it right.

Root user password

Confirm root user password

**Continue (step 1 of 5)**

OR

- 5) In contact information page, select account type ; give name, phn no, country, address, city, state, pin; Accept agreement and click 'Continue'



### Free Tier offers

All AWS accounts can explore 3 different types of free offers, depending on the product used.



**Always free**  
Never expires



**12 months free**  
Start from initial sign-up date



**Trials**  
Start from service activation date

### Sign up for AWS

#### Contact Information

How do you plan to use AWS?  
 Business - for your work, school, or organization  
 Personal - for your own projects

Who should we contact about this account?

Full Name

Phone Number

Country or Region

Address

- 6) In billing info page give credit or debit card no, expiration date, cvv, cardholder name, pan card no, address & click 'Continue'.



**Secure verification**

We will not charge you for usage below AWS Free Tier limits. We may temporarily hold up to \$1 USD (or an equivalent amount in local currency) as a pending transaction for 3-5 days to verify your identity.



### Sign up for AWS

#### Billing Information

Credit or Debit card number

1111222233334444

The credit card information is not valid or is an unsupported type.



AWS accepts most major credit and debit cards. To learn more about payment options, review our FAQ

Expiration date

January 2026

Security code

...

Cardholder's name

Arnab Koley

- 7) Next, select phone verification method, give phone no & click 'Continue'.



#### Confirm your identity

Before you can use your AWS account, you must verify your phone number. When you continue, the AWS automated system will contact you with a verification code.

How should we send you the verification code?

Text message (SMS)

Voice call

Country or region code

India (+91)

Mobile phone number

0123456789

Security check



Type the characters as shown above

- 8) Give verification code send to the given mobile no. & click 'Continue'.

- 9) Select suitable support plan & click 'Complete sign up'.



**Sign up for AWS**

**Confirm your identity**

Verify code  
1234

**Continue (step 4 of 5)**

Having trouble? Sometimes it takes up to 10 minutes to retrieve a verification code. If it's been longer than that, [return to the previous page](#) and try again.

### Sign up for AWS

#### Select a support plan

Choose a support plan for your business or personal account. [Compare plans and pricing examples](#)  
[You can change your plan anytime in the AWS Management Console.](#)

- |  |   |  |
|--|---|--|
| <input checked="" type="radio"/> <b>Basic support - Free</b>   | <input type="radio"/> <b>Developer support - From \$29/month</b>  | <input type="radio"/> <b>Business support - From \$100/month</b>   |
| <ul style="list-style-type: none"> <li>Recommended for new users just getting started with AWS</li> <li>24x7 self-service support via AWS resources</li> <li>For account and billing issues only</li> <li>Access to Personal Health Dashboard &amp; Trusted Advisor</li> </ul> | <ul style="list-style-type: none"> <li>Recommended for developers experimenting with AWS</li> <li>Email access to AWS Support during business hours</li> <li>12 business-hour response times</li> </ul> | <ul style="list-style-type: none"> <li>Recommended for running production workloads on AWS</li> <li>Email access to AWS Support during business hours</li> <li>15-minute response times</li> <li>1-hour response times</li> <li>Full set of Trusted Advisor best-practice recommendations</li> </ul> |



Need Enterprise level support?

From \$15,000 a month you will receive 15-minute response times and concierge-style experience with an assigned Technical Account Manager. [Learn more](#)

**Complete sign up**

- 10) AWS account creation is completed. click 'Go to the AWS Management Console' or go to '<https://console.aws.amazon.com>' in browser for log in.



### Congratulations

Thank you for signing up for AWS.

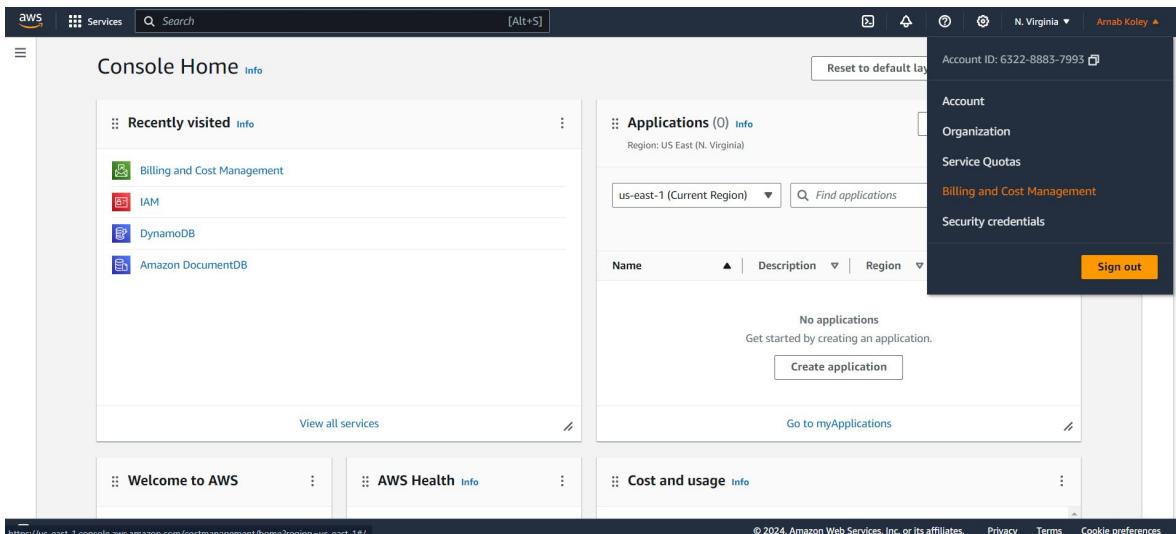
We are activating your account, which should only take a few minutes. You will receive an email when this is complete.

**Go to the AWS Management Console**

[Sign up for another account](#) or [contact sales](#).

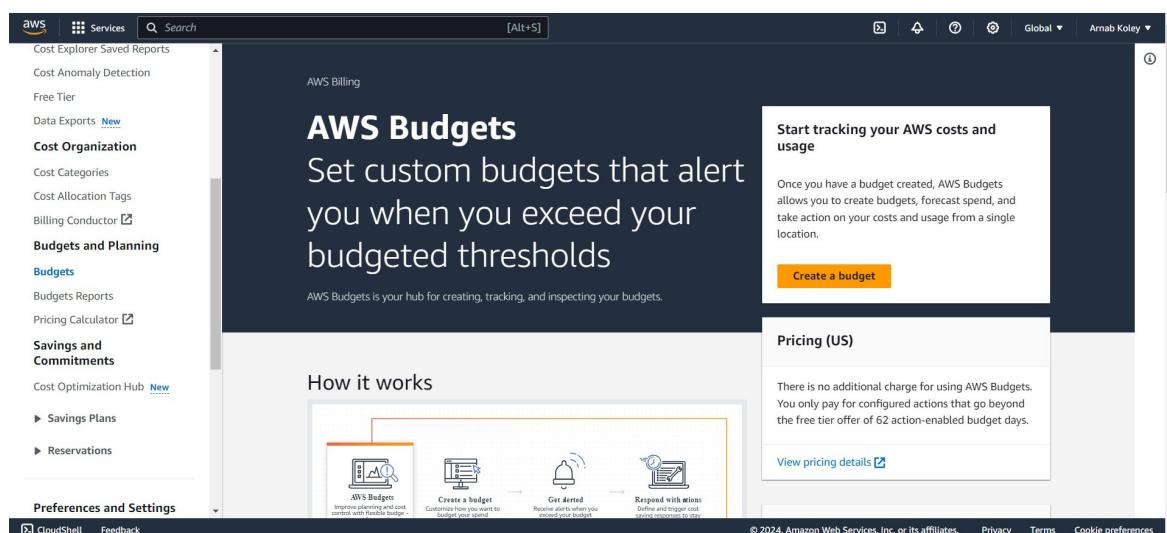
# Steps for configuring budget in AWS

- 1) Go to 'https://console.aws.amazon.com' & sign in to AWS account.
- 2) Click the account name in top-right corner & go to 'Billing and Cost Management'.



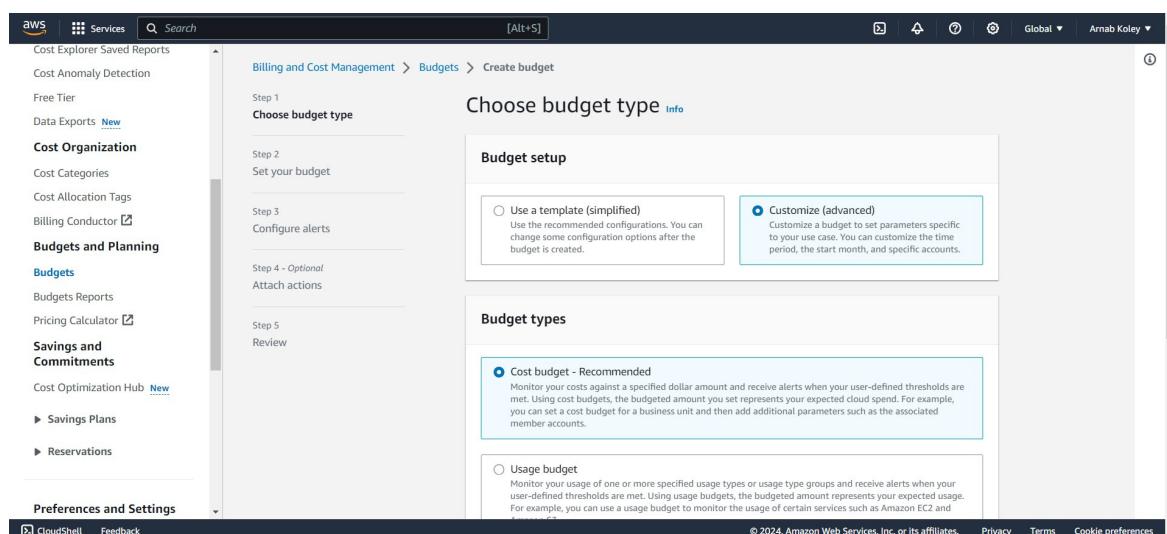
The screenshot shows the AWS Console Home page. The left sidebar has 'Recently visited' services: Billing and Cost Management, IAM, DynamoDB, and Amazon DocumentDB. The main content area shows the 'Applications' section with a message 'No applications'. A 'Create application' button is present. The bottom navigation bar includes links for 'View all services', 'Go to myApplications', and 'Cost and usage'.

- 3) From left panel go to 'Budgets' under 'Budgets and Planning' and click 'Create a budget'.



The screenshot shows the AWS Billing page. The left sidebar has sections like Cost Organization, Budgets and Planning, and Budgets. The main content area features 'AWS Budgets' with the sub-headline 'Set custom budgets that alert you when you exceed your budgeted thresholds'. It includes a diagram titled 'How it works' showing four steps: AWS Budgets, Create a budget, Get alerted, and Respond with actions. A call-to-action 'Create a budget' is highlighted. The right sidebar shows 'Pricing (US)' information.

- 4) Select Budget setup 'Customize' , Budget types 'Cost budget' & click 'Next'.



The screenshot shows the 'Create budget' wizard Step 1: 'Choose budget type'. The left sidebar lists steps: Step 1 (Choose budget type), Step 2 (Set your budget), Step 3 (Configure alerts), Step 4 (Optional: Attach actions), and Step 5 (Review). The main content area shows two options: 'Use a template (simplified)' and 'Customize (advanced)'. The 'Customize (advanced)' option is selected and highlighted. Below it, the 'Budget types' section shows 'Cost budget - Recommended' and 'Usage budget'.

- 5) • In **Details** give ‘Budget name’. (Ex-First)  
 • In **Set budget amount** select ‘Period’ (Ex-Monthly), select ‘Budget renewal type’ (Ex-Recurring budget), give start month (Ex-Feb 2024), select ‘Budgeting method’ (Ex-Fixed), enter ‘budgeted amount’. (Ex-1.00\$)  
 • In **Budget Scope** select ‘scope options’, (Ex-All AWS services)  
 • Click ‘Next’.

The first screenshot shows the 'How to set up your budget' summary with three steps: Step 1 (Enter budget details), Step 2 (Set budget amount), and Step 3 (Scope your budget - optional). The second screenshot shows 'Set budget amount' with 'Period' set to 'Monthly', 'Budget renewal type' set to 'Recurring budget' (selected), 'Start month' set to 'Feb 2024', and 'Budgeting method' set to 'Fixed' with a value of '\$1.00'. The third screenshot shows 'Budget scope info' with 'Scope options' set to 'All AWS services (Recommended)' and 'Filter specific AWS cost dimensions' checked for 'EC2'.

- 6) • Click ‘Add an alert threshold’.  
 • Give a threshold value. (Ex-50%)  
 • Set ‘Email recipients’. (Ex-arnab123koley@gmail.com)  
 • Click ‘Next’.  
 • Click ‘Next’.

The first screenshot shows 'Why create budget alerts?' with a note about creating up to 5 alerts based on budgeted amount. The second screenshot shows 'Set alert threshold' with 'Threshold' set to '50 % of budgeted amount' and 'Trigger' set to 'Actual'. The third screenshot shows 'How to get started?' with a note about defining alerts and attaching actions like stopping EC2 instances. The fourth screenshot shows 'Alert #1 (0 actions attached)' with 'Email recipients' set to 'arnab123koley@gmail.com' and 'Threshold measured against' set to 'Actual Costs'.

- 7) Review all filled up details & click ‘Create Budget’.

The first screenshot shows 'Step 1: Choose budget type' with 'Cost budget' selected. The second screenshot shows 'Step 2: Set up your budget' with 'Budget details' showing 'Name: First', 'Start date: Feb 2024', 'End date: -', and 'Budget amount: \$1.00'. The third screenshot shows 'Step 3: Configure alerts' with 'Alerts' showing 'Alert #1' with a threshold of '50% of budgeted amount' and 'Threshold measured against' set to 'Actual costs'. The fourth screenshot shows 'Step 4: Attach actions - optional' with a note 'You have no budgets actions'.

- 8) Now a budget is created in our aws account.

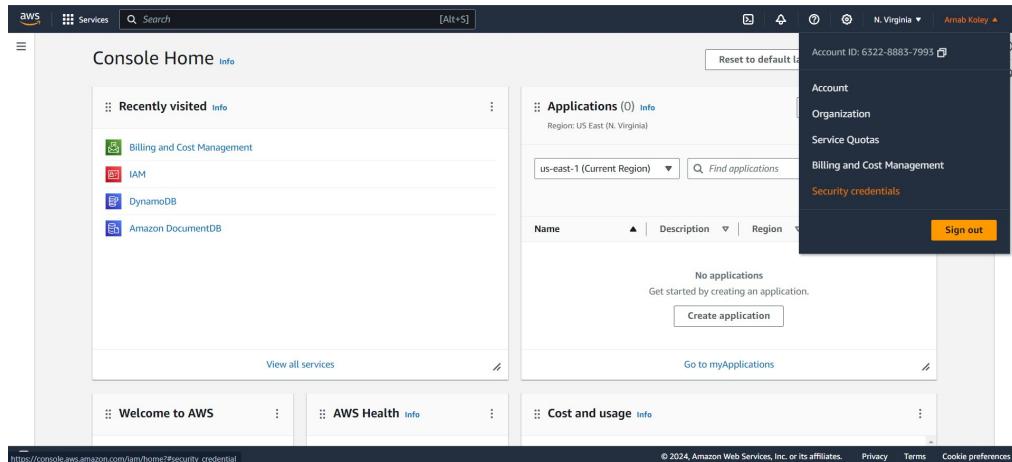
The screenshot shows the 'Overview' page for the newly created budget 'First'. It displays a table with one row for 'First' with a status of 'OK', a budget of '\$1.00', and an amount used of '\$0.00'. There are buttons for 'Download CSV', 'Actions', and 'Create budget'.

# Assignment No : 02

**Problem Statement :** Create MFA (Multifactor Authentication) for authentication

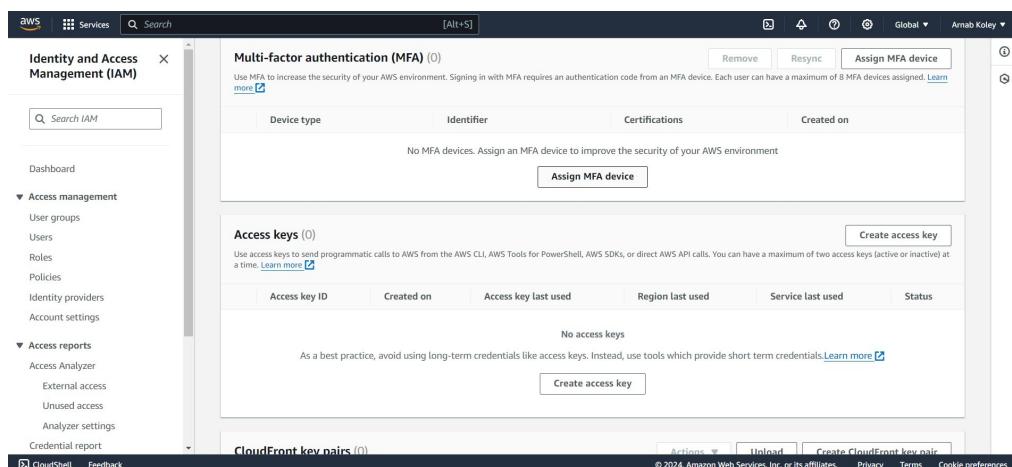
## Answer :

- 1) Go to 'https://console.aws.amazon.com' & sign in to AWS account.
- 2) Click the account name in top-right corner & go to 'Security credentials'.



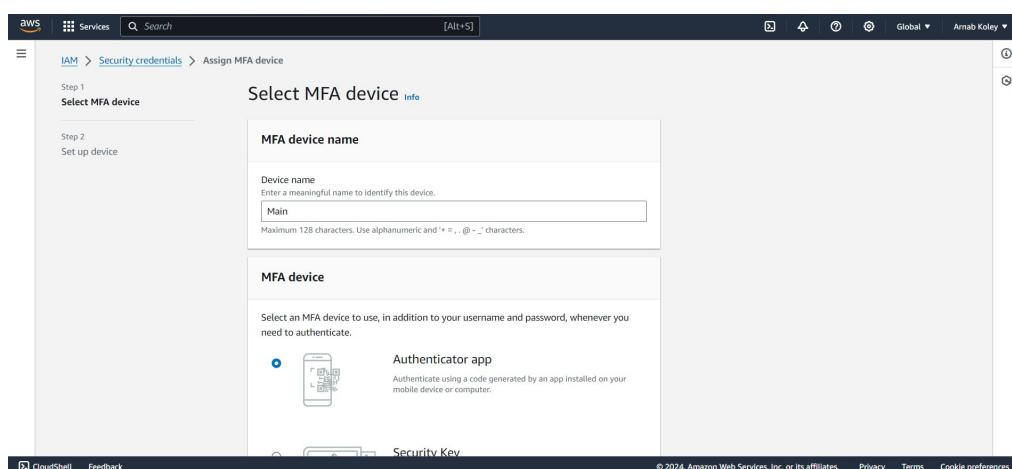
The screenshot shows the AWS Console Home page. In the top right corner, there is a dropdown menu with "Account ID: 6322-8883-7993" and a "Sign out" button. Below this, under "Security credentials", there is a link to "Create application". The main content area shows "No applications" with a "Create application" button.

- 3) Click 'Assign MFA device'.



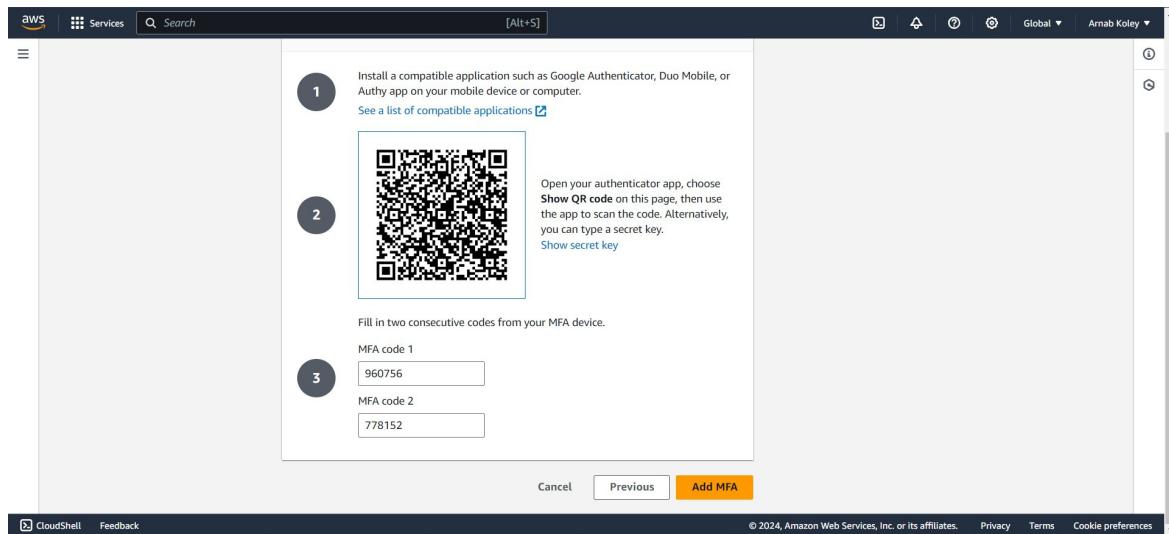
The screenshot shows the IAM Multi-factor authentication (MFA) page. On the left, there is a sidebar with "Identity and Access Management (IAM)" selected. The main content area has a heading "Multi-factor authentication (MFA)". It includes sections for "Device type", "Identifier", "Certifications", and "Created on". Below this, there is a "Create access key" button. Further down, there is a section for "Access keys" with a "Create access key" button. At the bottom, there is a "CloudFront key pairs" section with a "Create CloudFront key pair" button.

- 4) Set device name (Ex-Main) , Select MFA device (Ex-Authenticator app) & click 'Next'.

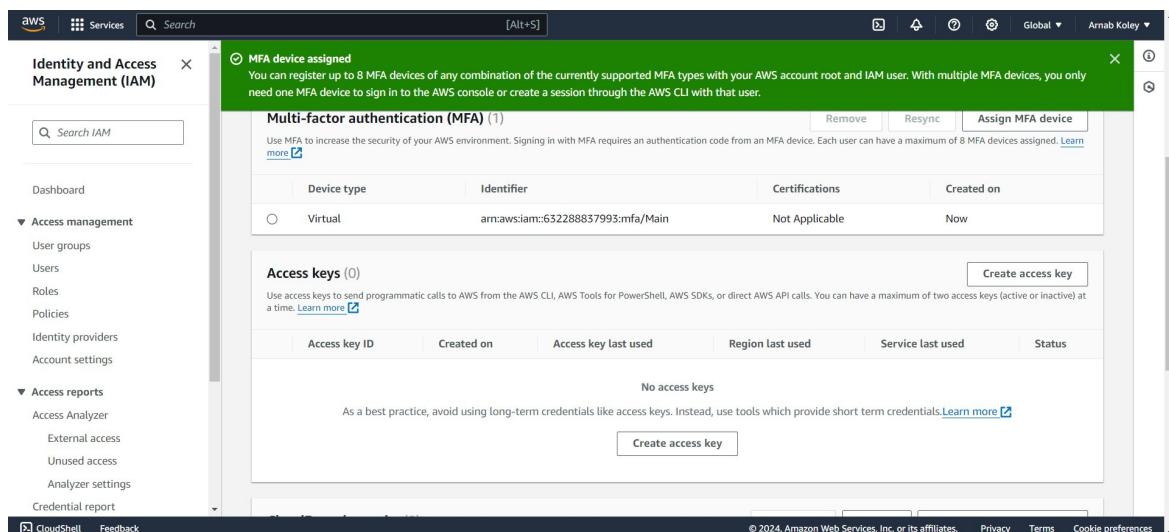


The screenshot shows the "Select MFA device" step in the IAM Security credentials wizard. The left sidebar shows "Step 1: Select MFA device" and "Step 2: Set up device". The main content area has a heading "Select MFA device". It includes a "MFA device name" input field with "Main" entered, and a "MFA device" section with a radio button selected for "Authenticator app". There is also a "Security Key" section at the bottom.

- 5) Click 'Show QR Code', scan the QR code from the authenticator app (Ex-Google Authenticator), give 2 consecutive code in 'MFA code 1' and 'MFA code 2' field generated by the authenticator app & click 'Add MFA'.



## 6) Now MFA is created for our aws account.



## 7) Now during sign in process an MFA code will be asked after giving email, password & by given the MFA code (generated by our authenticator app) we can sign in to our AWS console.