

Creating Admin Account and Setting Up MFA on AWS

Objective: To create an admin account on AWS and set up Multi-Factor Authentication (MFA) to enhance security

Tools required: AWS

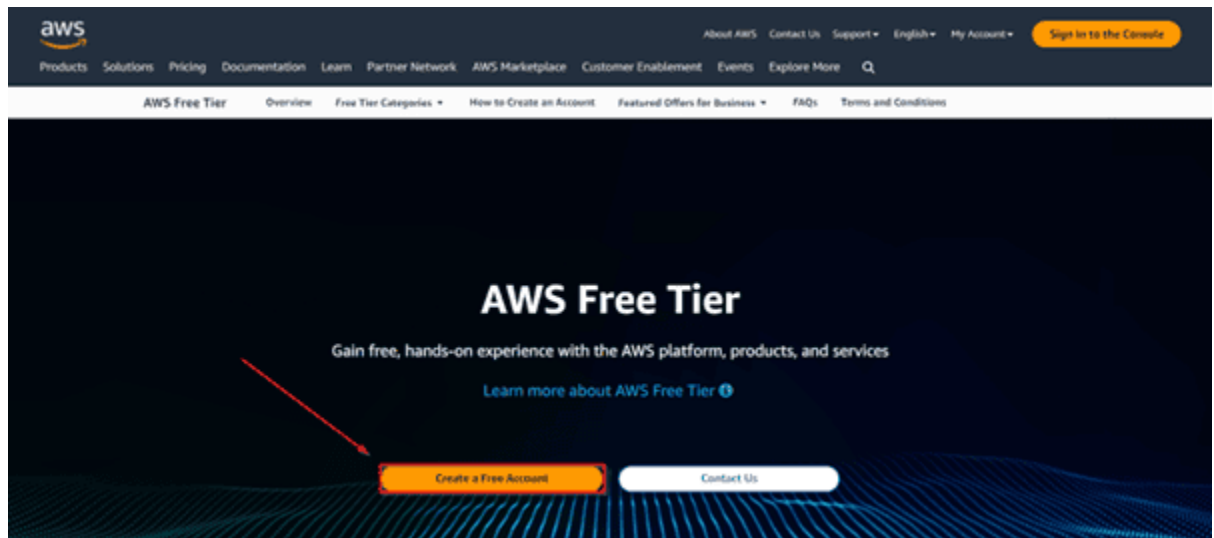
Prerequisites: None

Steps to be followed:

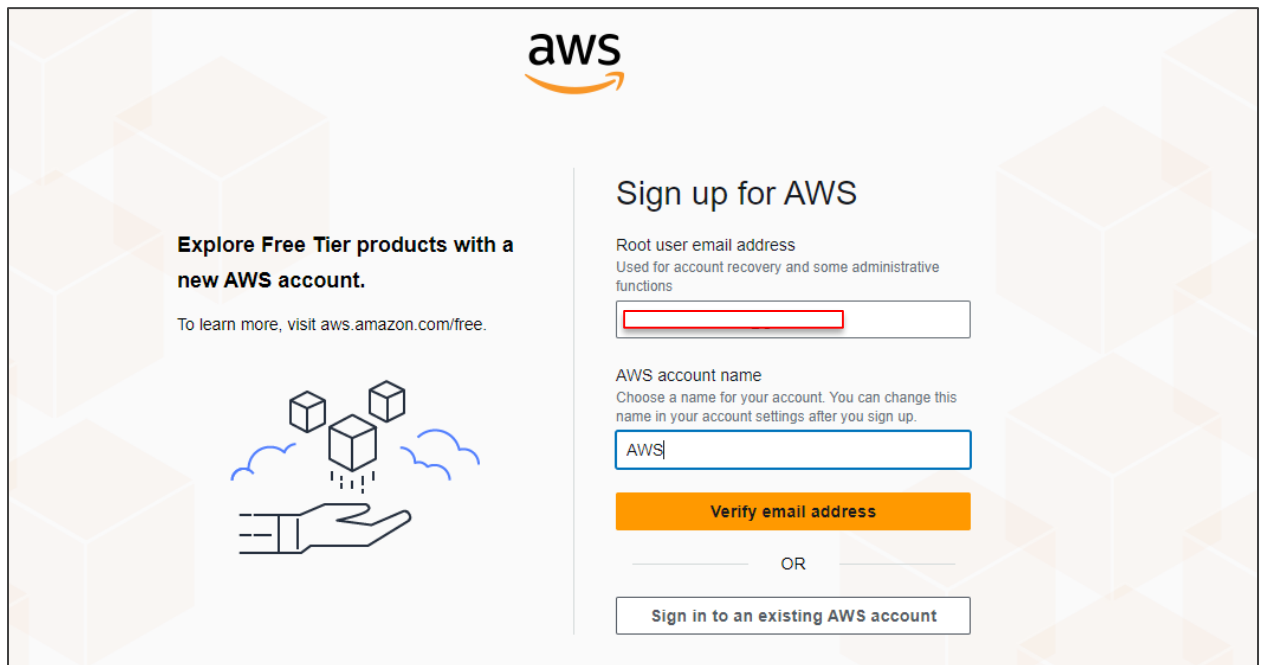
1. Register for an AWS Free Tier account
2. Log in to the AWS Management console
3. Create an IAM user
4. Enable MFA for the IAM User and configure the virtual MFA device
5. Access AWS Console using MFA
6. Verify your account plan

Step 1: Register for the AWS FREE-TIER account

- 1.1 Open your web browser and navigate to the AWS Free Tier Page. Click On **Create a Free Account**

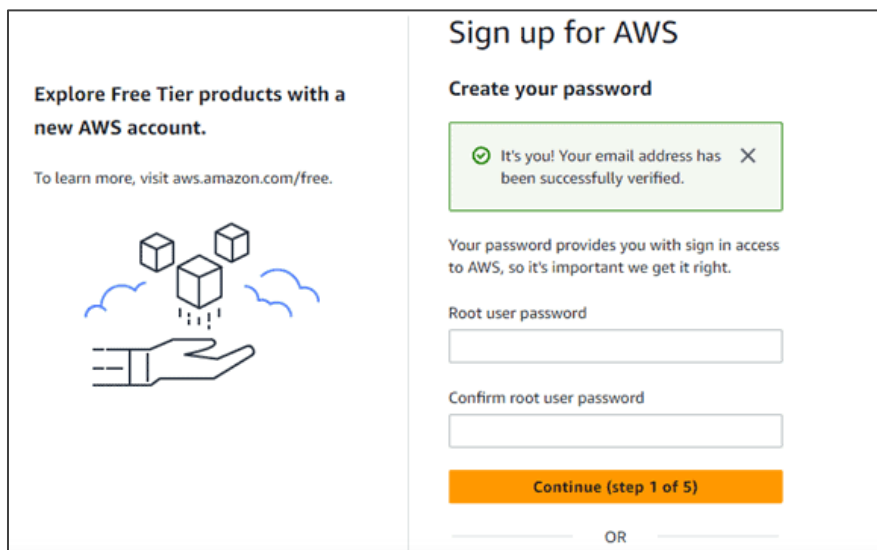


1.2 Verify your email address



The screenshot shows the AWS sign-up page. On the left, there is a promotional message: "Explore Free Tier products with a new AWS account." followed by "To learn more, visit aws.amazon.com/free." Below this is an illustration of a hand holding three cubes. On the right, the heading "Sign up for AWS" is followed by two input fields: "Root user email address" (with a note "Used for account recovery and some administrative functions") and "AWS account name" (with a note "Choose a name for your account. You can change this name in your account settings after you sign up."). Below these fields is an orange button labeled "Verify email address". At the bottom, there is a link "Sign in to an existing AWS account" preceded by "OR".

1.3 Provide the details that you want to use to log in to your **AWS** account and click on **Continue**



The screenshot shows the second step of the AWS sign-up process. On the left, the same promotional message and illustration from the previous step are present. On the right, the heading "Sign up for AWS" is followed by "Create your password". A green success message box states: "It's you! Your email address has been successfully verified." Below this, a note says: "Your password provides you with sign in access to AWS, so it's important we get it right." There are two input fields: "Root user password" and "Confirm root user password". Below these is an orange button labeled "Continue (step 1 of 5)". At the bottom, there is a link "Sign in to an existing AWS account" preceded by "OR".

Note:


- Email address: Enter the email ID that hasn't registered yet with Amazon AWS
- Password: Type your Password
- Confirm password: Confirm the Password
- Captcha: enter the given security check


1.4 Select your AWS type (Professional/ Personal) and fill in the correct information to validate your account


If creating a personal account, click **Personal Account**. Otherwise, use **Company Account**. Accept the Terms and Conditions, click on 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

Apartment, suite, unit, building, floor, etc.

City

State, Province, or Region


Postal Code

Customers with an Indian contact address are served by Amazon Web Services India Private Limited, the local seller for AWS services in India.


☒ I have read and agree to the terms of the AWS Customer Agreement [AWS Customer Agreement](#)


Continue (step 2 of 5)

1.5 Please enter your credit card or debit card information and billing address and **click on Verify and 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



AWS accepts all major credit and debit cards. To learn more about payment options, review our [FAQ](#)

Expiration date

Cardholder's name

Billing address

☒ Use my contact address

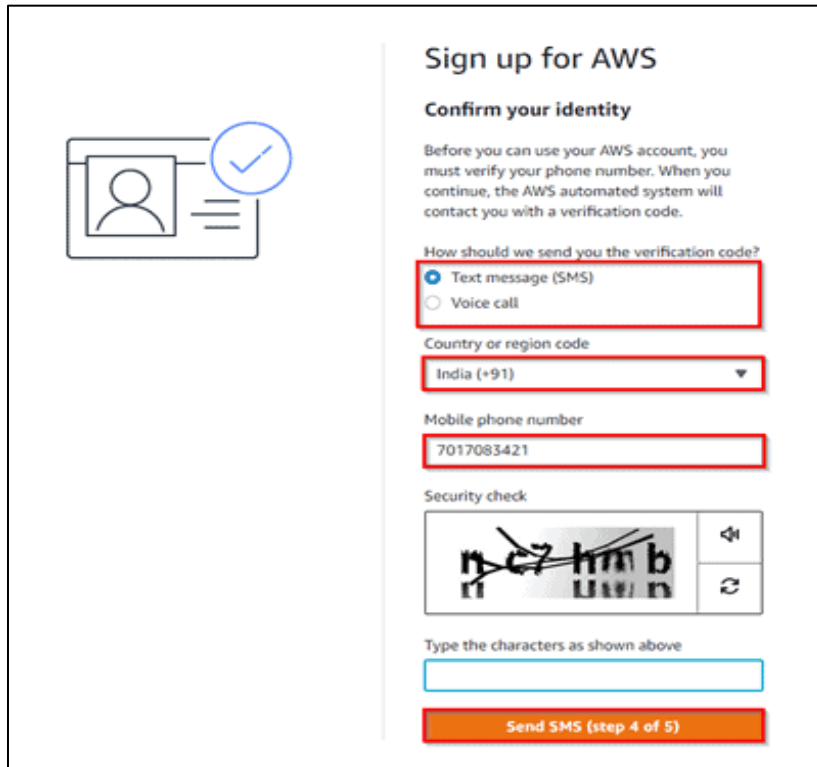
☐ Use a new address

Verify and Continue (step 3 of 5)

You might be redirected to your bank's website to authorize the verification charge.

After this step, you will be taken to the payment gateway to validate your payment information. For your credit card verification, Amazon will charge the minimum price based on your Country.

- 1.6 You will be taken to an identity verification page with your phone number. You must select either **Text message** or **Voice call**. Provide a valid phone number, solve the captcha, and then click on Send SMS or Call Me Now (depending upon your selection).



The image shows the 'Sign up for AWS' identity verification page. On the left is an icon of a person with a checkmark. The main heading is 'Sign up for AWS' followed by 'Confirm your identity'. A sub-heading explains that the user must verify their phone number. Below this, a question asks 'How should we send you the verification code?' with two options: 'Text message (SMS)' (selected) and 'Voice call'. A dropdown menu for 'Country or region code' is set to 'India (+91)'. A text field for 'Mobile phone number' contains '7017083421'. A 'Security check' section shows a captcha with the characters 'n c 7 h m b' and 'u u n'. Below the captcha is a text input field and a 'Send SMS (step 4 of 5)' button.

Sign up for AWS

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

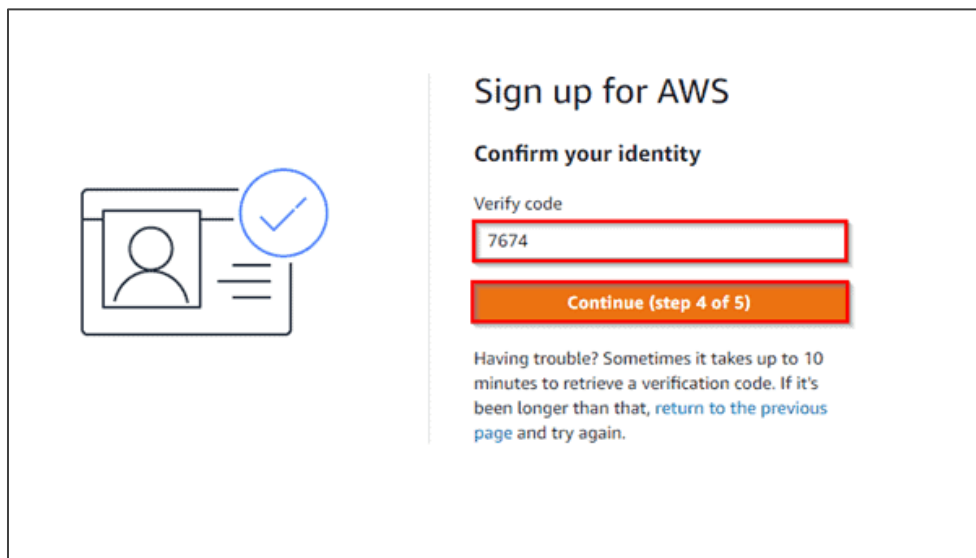
7017083421

Security check

Type the characters as shown above

Send SMS (step 4 of 5)

- 1.7 After clicking on Send SMS or Call me Now, you will immediately receive a call or SMS from Amazon; for verification code, enter your code, then click on **Continue**



The image shows the same 'Sign up for AWS' identity verification page, but now it's for entering the verification code. The 'Text message (SMS)' option is still selected. The 'Verify code' field contains '7674'. Below this is a 'Continue (step 4 of 5)' button. At the bottom, there is a note about retrieval time and a link to return to the previous page.

Sign up for AWS

Confirm your identity

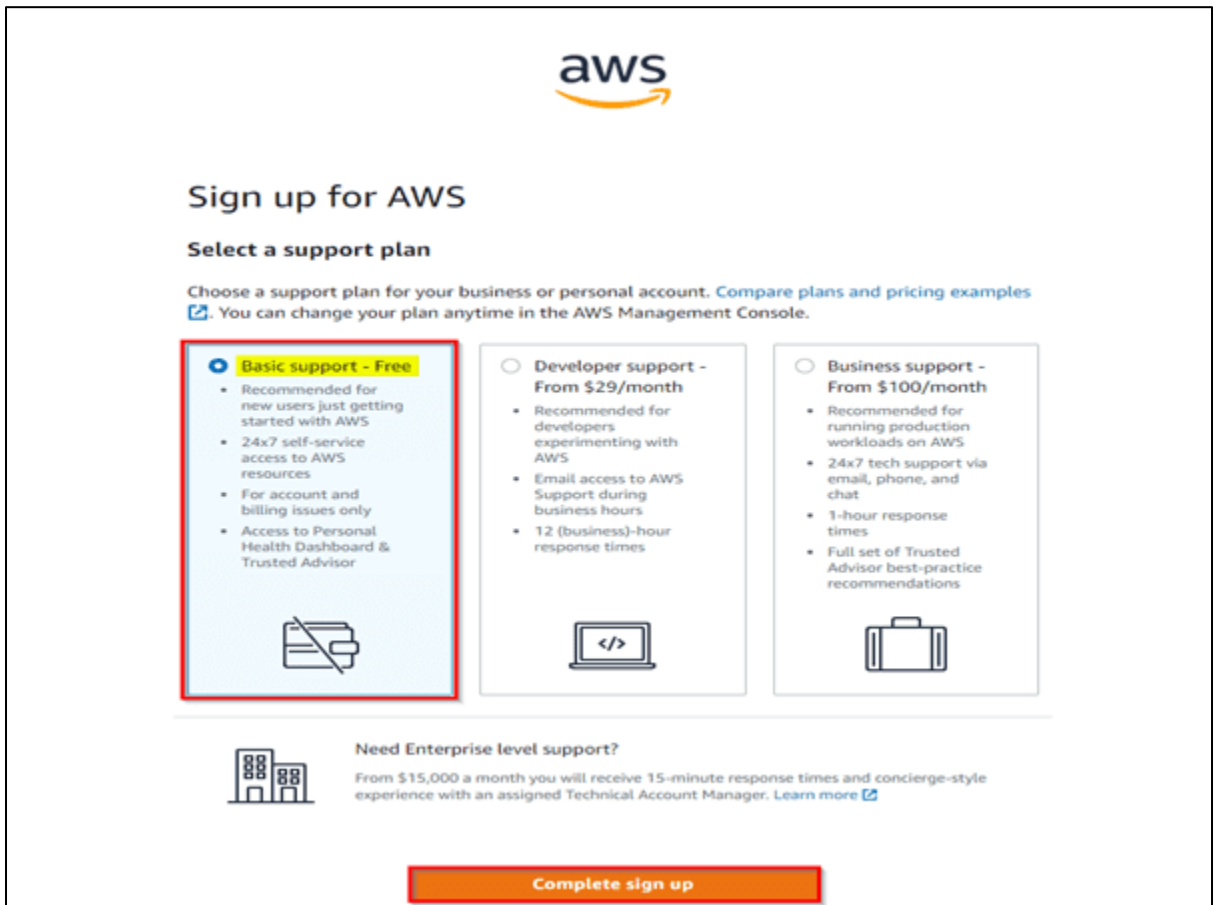
Verify code

7674

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.

1.8 AWS support offers a selection of plans to meet your business needs. Select your suitable plan, then click on **Complete sign up**



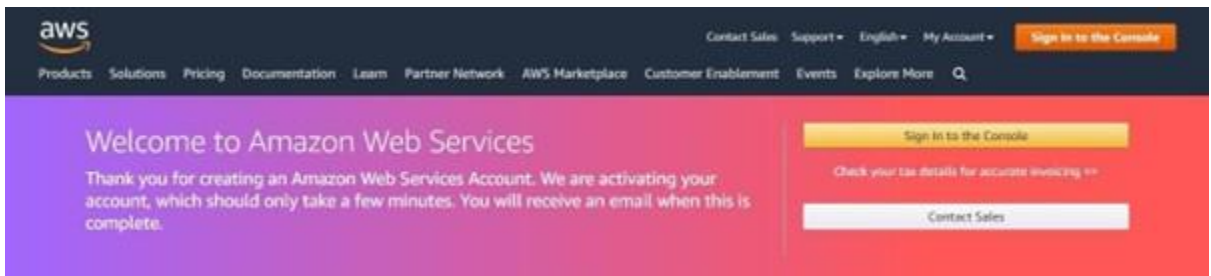
The screenshot shows the AWS 'Sign up for AWS' page. At the top is the AWS logo. Below it, the heading 'Sign up for AWS' is followed by 'Select a support plan'. A subtext says: 'Choose a support plan for your business or personal account. [Compare plans and pricing examples](#). You can change your plan anytime in the AWS Management Console.' There are three plan options, each in a box with a red border:

- Basic support - Free** (selected with a radio button):
 - Recommended for new users just getting started with AWS
 - 24x7 self-service access to AWS resources
 - For account and billing issues only
 - Access to Personal Health Dashboard & Trusted AdvisorIcon: A document with a checkmark.
- Developer support - From \$29/month** (unselected):
 - Recommended for developers experimenting with AWS
 - Email access to AWS Support during business hours
 - 12 (business)-hour response timesIcon: A laptop with code symbols.
- Business support - From \$100/month** (unselected):
 - Recommended for running production workloads on AWS
 - 24x7 tech support via email, phone, and chat
 - 1-hour response times
 - Full set of Trusted Advisor best-practice recommendationsIcon: A briefcase.

Below these plans is a section for 'Need Enterprise level support?' with a building icon. It states: 'From \$15,000 a month you will receive 15-minute response times and concierge-style experience with an assigned Technical Account Manager. [Learn more](#)'. At the bottom center is a large orange button labeled 'Complete sign up'.

Registration Confirmation page

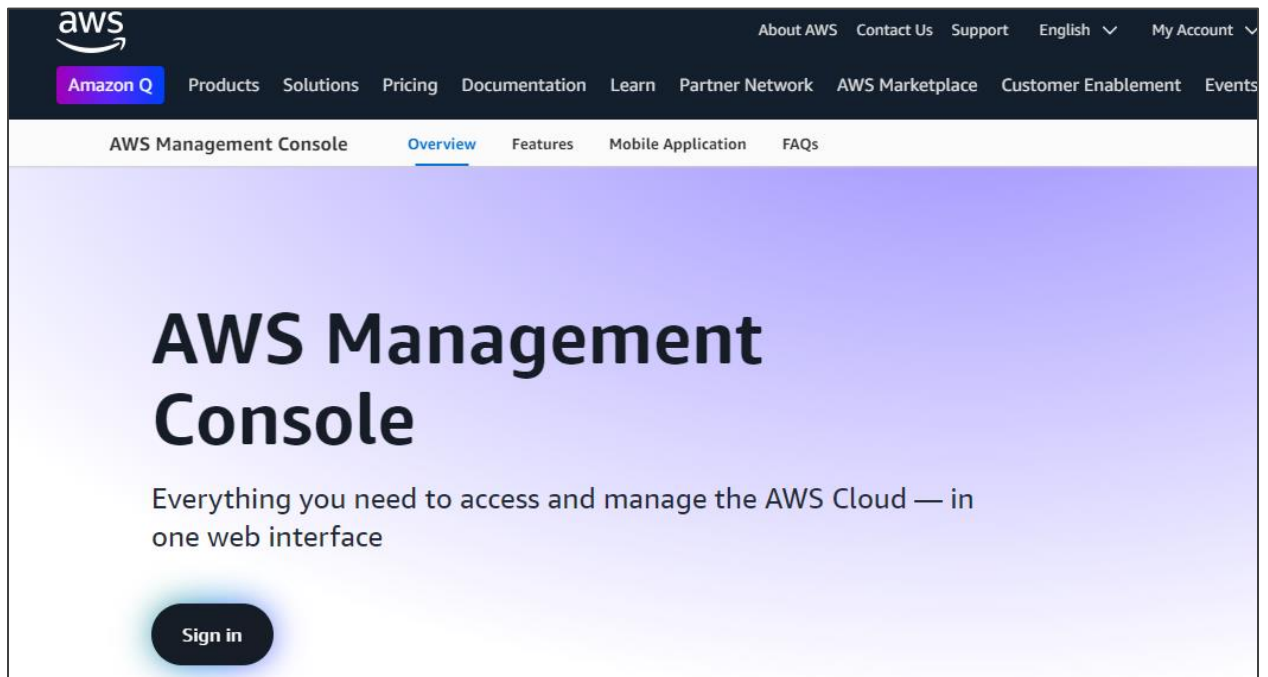
Once you complete the steps and processes, you'll see the confirmation page below. Your account will now be processed for activation. It may take 30 minutes to 1 hour for you to receive an email confirmation that your Amazon Cloud Services account has been activated.



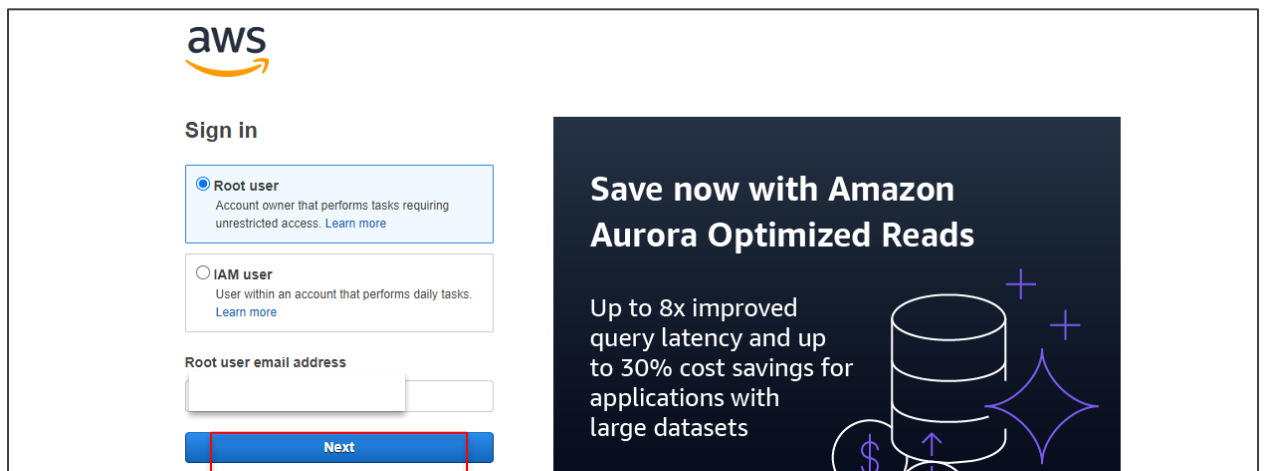
The screenshot shows the AWS 'Welcome to Amazon Web Services' registration confirmation page. The top navigation bar includes the AWS logo, links for 'Products', 'Solutions', 'Pricing', 'Documentation', 'Learn', 'Partner Network', 'AWS Marketplace', 'Customer Enablement', 'Events', 'Explore More', and a search icon. On the right, there are links for 'Contact Sales', 'Support', 'English', 'My Account', and a 'Sign in to the Console' button. The main content area has a purple-to-pink gradient background. It says 'Welcome to Amazon Web Services' and 'Thank you for creating an Amazon Web Services Account. We are activating your account, which should only take a few minutes. You will receive an email when this is complete.' On the right side of this area, there is a yellow 'Sign in to the Console' button, a link 'Check your tax details for accurate invoicing', and a white 'Contact Sales' button.

Step 2: Log in to the AWS Management Console

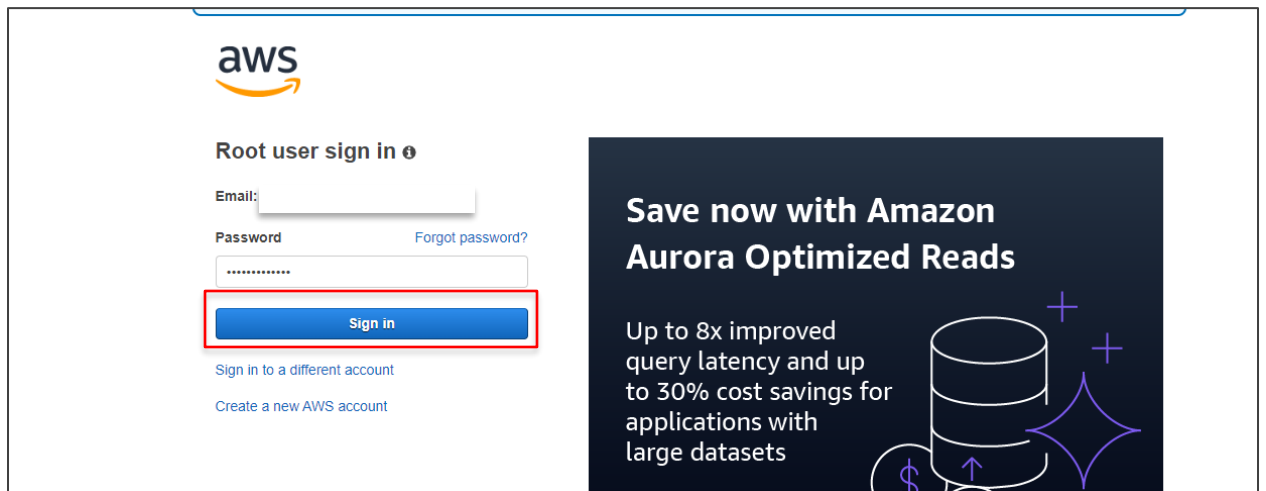
- 2.1 Open your web browser and go to the below link to **Sign in:**
[AWS Management Console](#)



- 2.2 Enter the **username** you chose while creating the account and click **Next**

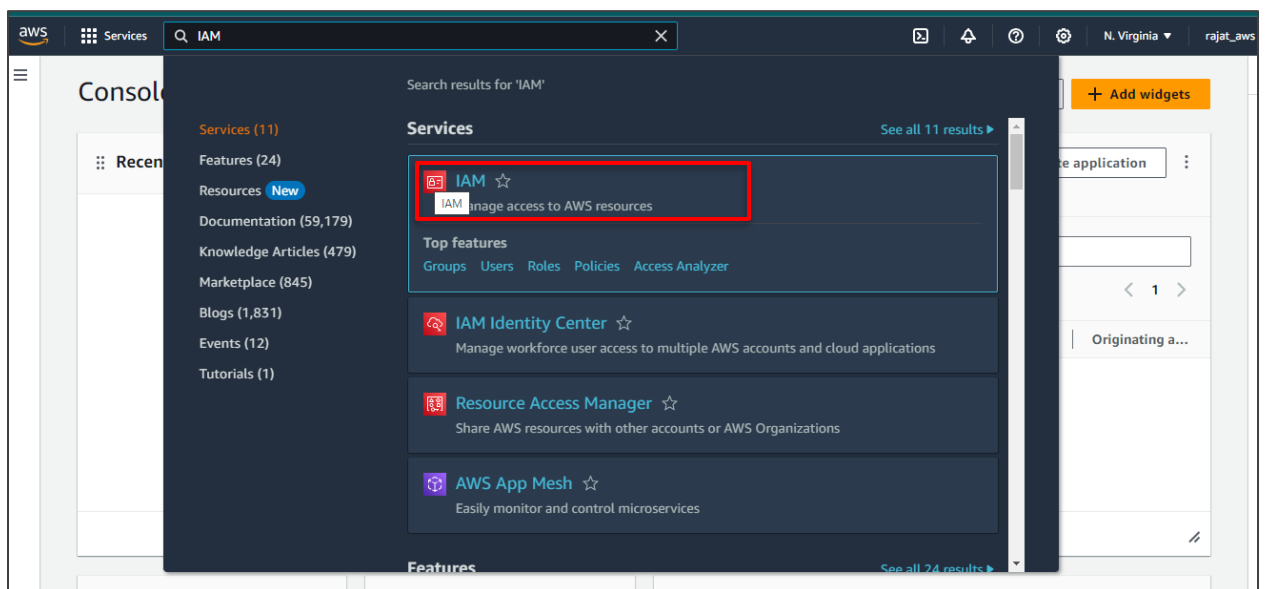


2.3 Enter the **password** and then click on **Sign in**

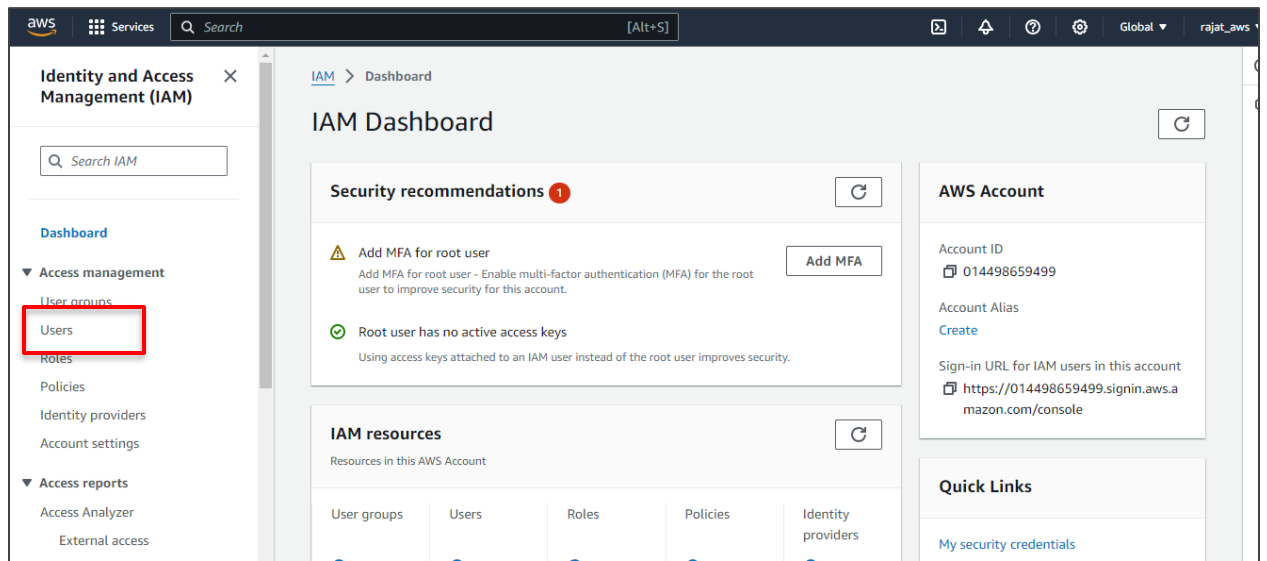


Step 3: Create an IAM user

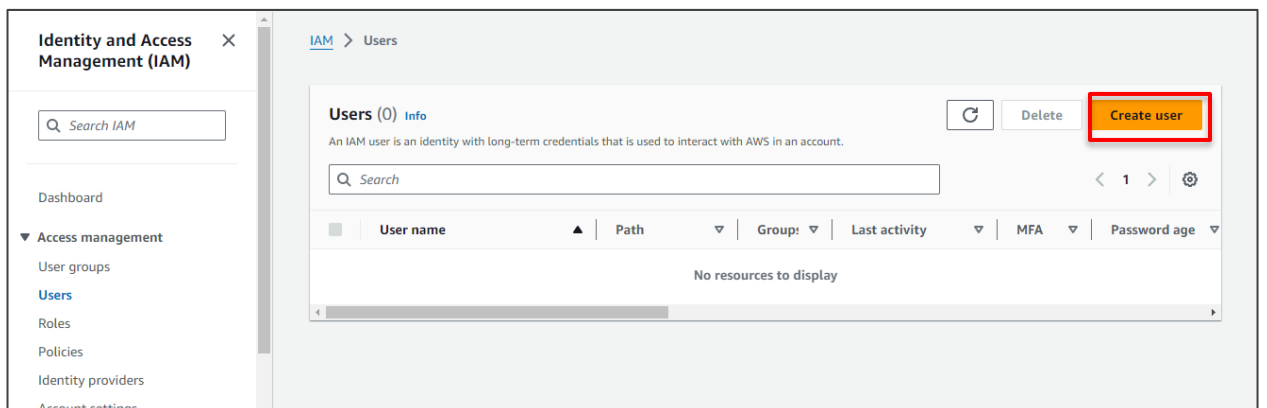
3.1 In the search bar, search for **IAM** and click on **IAM**



3.2 In the IAM dashboard, click on **Users**



3.3 Click on **Create user**



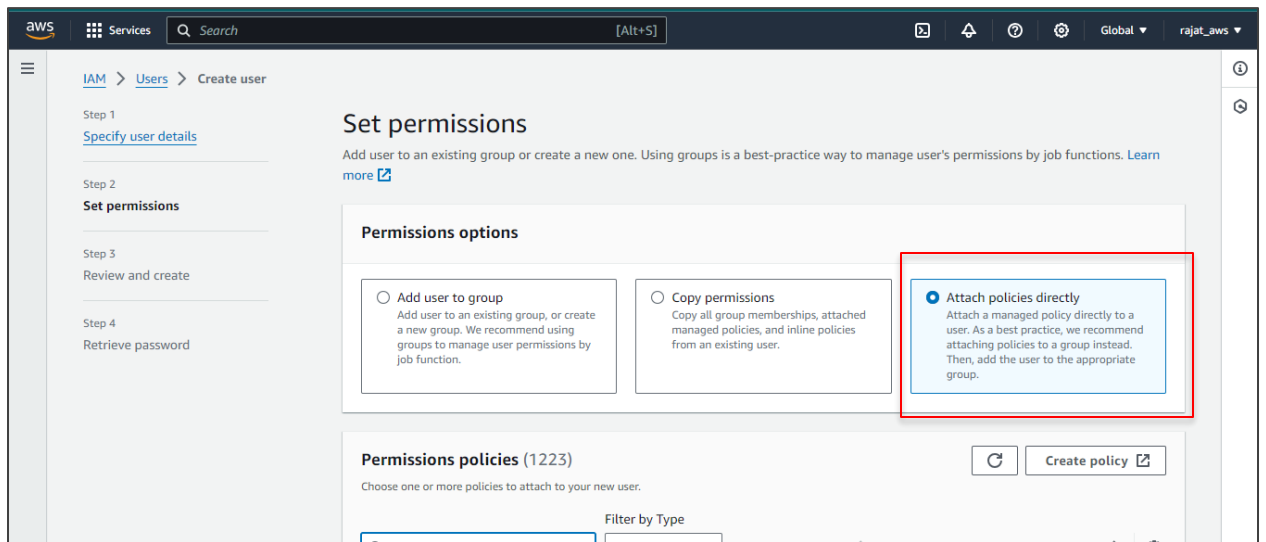
3.4 Enter the **User name**, select Provide user access to the AWS Management Console, then select **I want to create an IAM user**

The screenshot shows the 'Specify user details' page in the AWS IAM console. On the left, a sidebar lists four steps: Step 1 (Specify user details), Step 2 (Set permissions), Step 3 (Review and create), and Step 4 (Retrieve password). The main content area is titled 'Specify user details' and contains a 'User details' section. In this section, the 'User name' field is populated with 'Adminuser'. Below this, there is a checkbox labeled 'Provide user access to the AWS Management Console - optional', which is checked. A note below the checkbox states: 'If you're providing console access to a person, it's a best practice to manage their access in IAM Identity Center.' Below this is a section titled 'Are you providing console access to a person?' with a sub-header 'User type'. There are two radio buttons: 'Specify a user in Identity Center - Recommended' and 'I want to create an IAM user'. The second radio button is selected. A note below the selected option states: 'We recommend that you create IAM users only if you need to enable programmatic access through access keys, service-specific credentials for AWS CodeCommit or Amazon Keyspaces, or a backup credential for emergency account access.'

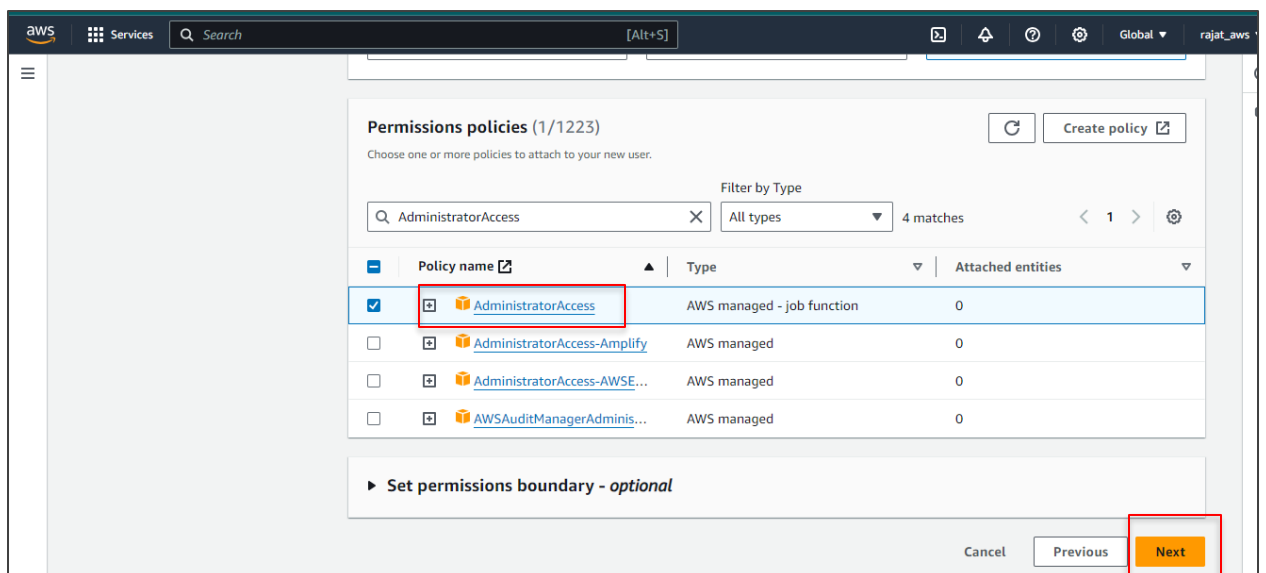
3.5 Create a strong **Custom password** and click on **Next**

The screenshot shows the 'Specify user details' page in the AWS IAM console, specifically the 'Console password' section. There are two radio buttons: 'Autogenerated password' and 'Custom password'. The 'Custom password' radio button is selected. Below it, there is a text field for entering a custom password, which is currently masked with asterisks. Below the text field, there are two bullet points: 'Must be at least 8 characters long' and 'Must include at least three of the following mix of character types: uppercase letters (A-Z), lowercase letters (a-z), numbers (0-9), and symbols ! @ # \$ % ^ & * () _ + - (hyphen) = [] { } | ' '. Below these bullet points is a checkbox labeled 'Show password', which is unchecked. Below that is another checkbox labeled 'Users must create a new password at next sign-in - Recommended', which is also unchecked. A note below this checkbox states: 'Users automatically get the IAMUserChangePassword policy to allow them to change their own password.' At the bottom right of the page, there are two buttons: 'Cancel' and 'Next'. The 'Next' button is highlighted in orange.

3.6 Under **Set permissions** select **Attach policies directly**



3.7 In the search bar, search for **AdministratorAccess** select it, and click on **Next**



3.8 Click on **Create user**

aws Services Search [Alt+S] Global rajat_aws

Step 3
Review and create

Step 4
Retrieve password

User name
Adminuser

Console password type
Custom password

Require password reset
No

Permissions summary < 1 >

Name	Type	Used as
AdministratorAccess	AWS managed - job function	Permissions policy

Tags - optional
Tags are key-value pairs you can add to AWS resources to help identify, organize, or search for resources. Choose any tags you want to associate with this user.

No tags associated with the resource.

[Add new tag](#)
You can add up to 50 more tags.

Cancel Previous **Create user**

3.9 The user has been created successfully; now click on **Return to users list**

aws Services Search [Alt+S] Global rajat_aws

User created successfully View user X

You can view and download the user's password and email instructions for signing in to the AWS Management Console.

Step 1
[Specify user details](#)

Step 2
[Set permissions](#)

Step 3
[Review and create](#)

Step 4
Retrieve password

Retrieve password
You can view and download the user's password below or email users instructions for signing in to the AWS Management Console. This is the only time you can view and download this password.

Console sign-in details [Email sign-in instructions](#)

Console sign-in URL
<https://014498659499.signin.aws.amazon.com/console>

User name
[Adminuser](#)

Console password
***** [Show](#)

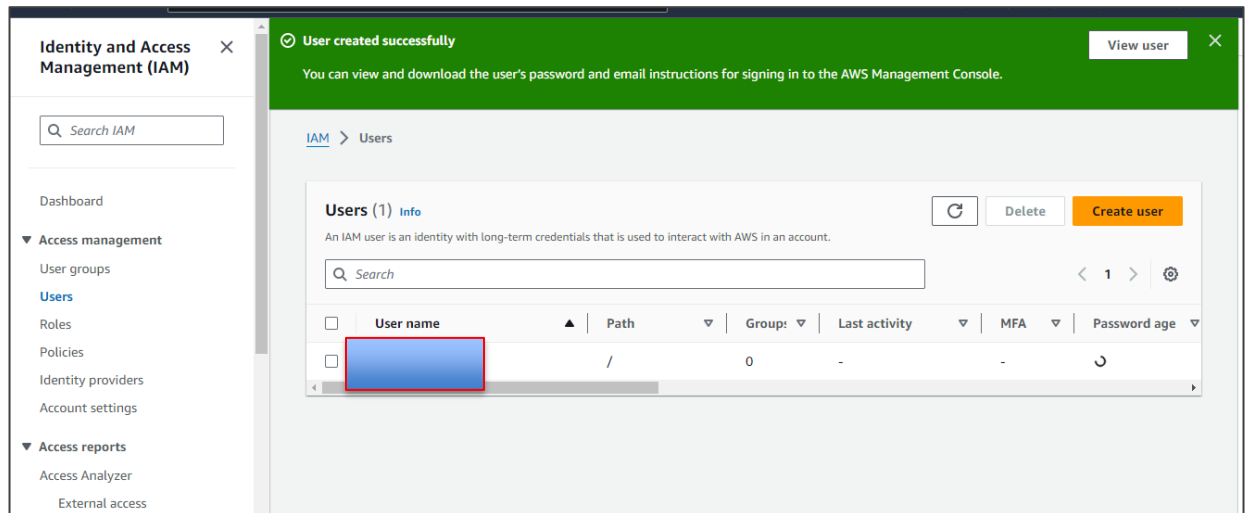
Cancel Download .csv file **Return to users list**

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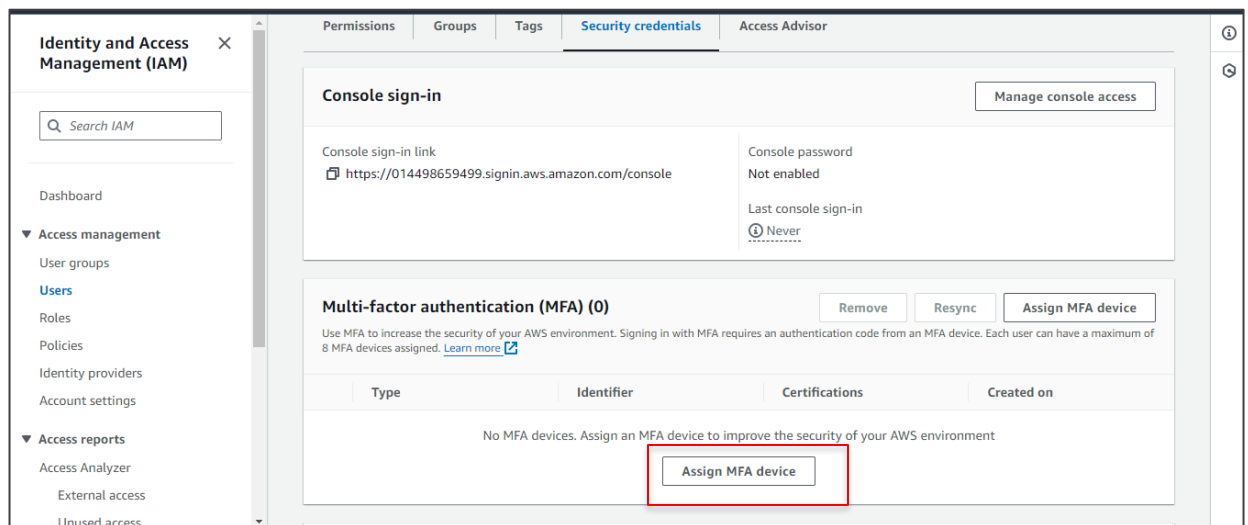
Note: Save the credentials for the future use

Step 4: Enable MFA for the IAM user and configure the virtual MFA device

4.1 In the IAM Dashboard, click on the newly created user **Adminuser**



4.2 Under Security credentials scroll down to **Multi-factor authentication (MFA)** and click on **Assign MFA device**



4.3 Enter the **Device name** and select **Authenticator app** as MFA device, then click on **Next**

The screenshot shows the AWS IAM console interface for selecting an MFA device. The page title is 'Select MFA device'. On the left, there is a sidebar with 'Step 1: Select MFA device' and 'Step 2: Set up device'. The main content area has a section for 'MFA device name' with a text input field labeled 'Device name'. A red box highlights this input field. Below the input field, there is a note: 'Maximum 64 characters. Use alphanumeric and '+', '-', '@', and '.' characters.' The 'MFA device' section below shows 'Passkey or security key' as the selected option, with a description: 'Authenticate using your fingerprint, face, or screen lock. Create a passkey on this device or use another device, like a FIDO2 security key.'

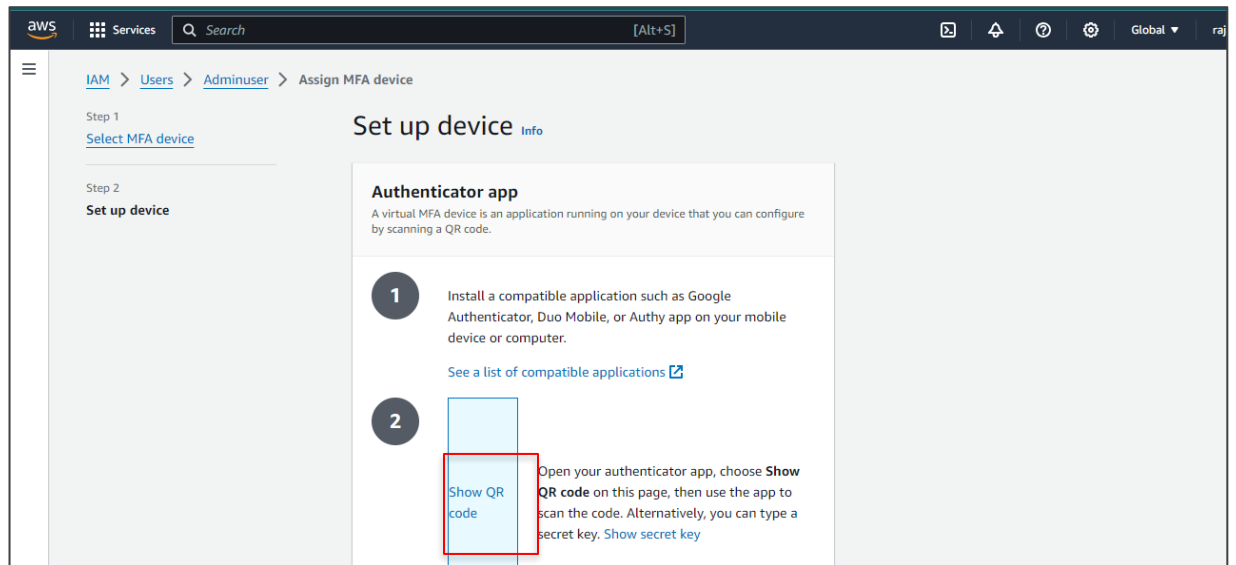
The screenshot shows the same AWS IAM console interface, but now the 'Authenticator app' option is selected in the 'MFA device' section. The 'Passkey or security key' option is still visible. The 'Authenticator app' option is described as: 'Authenticate using a code generated by an app installed on your mobile device or computer.' The 'Hardware TOTP token' option is also visible. At the bottom right, there are 'Cancel' and 'Next' buttons. The 'Next' button is highlighted with a red box.

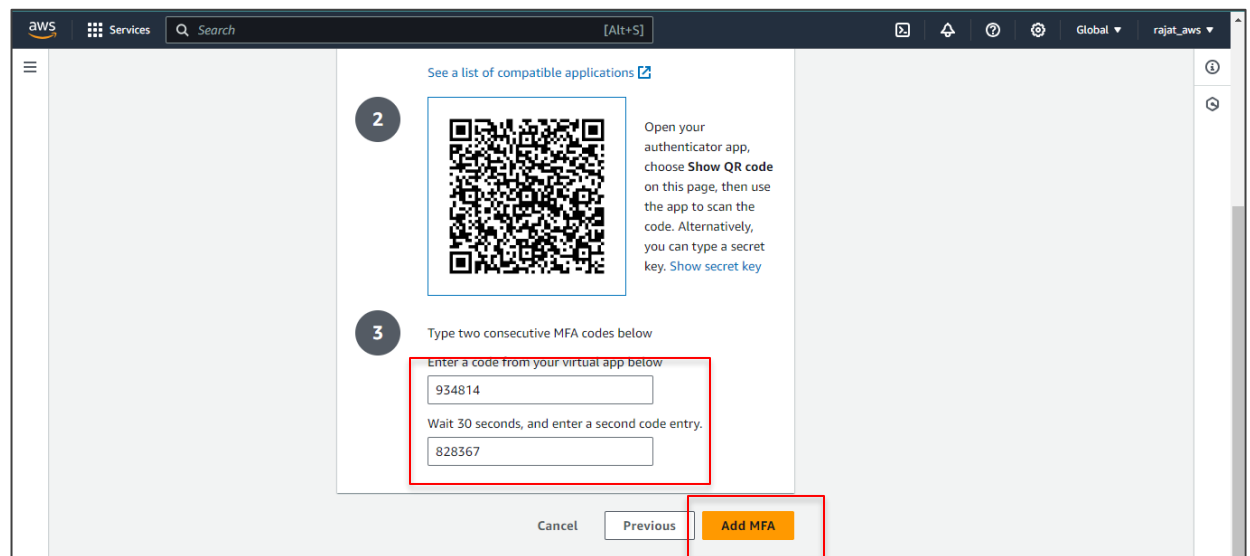
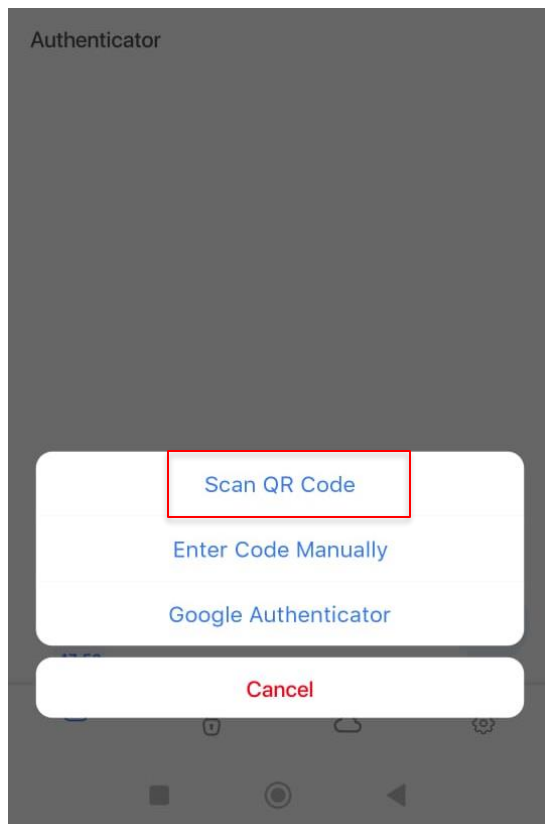
Note: Install Google Authenticator on your phone.

Android: https://play.google.com/store/apps/details?id=com.google.android.apps.authenticator2&hl=en_IN

IOS: <https://apps.apple.com/us/app/google-authenticator/id388497605>

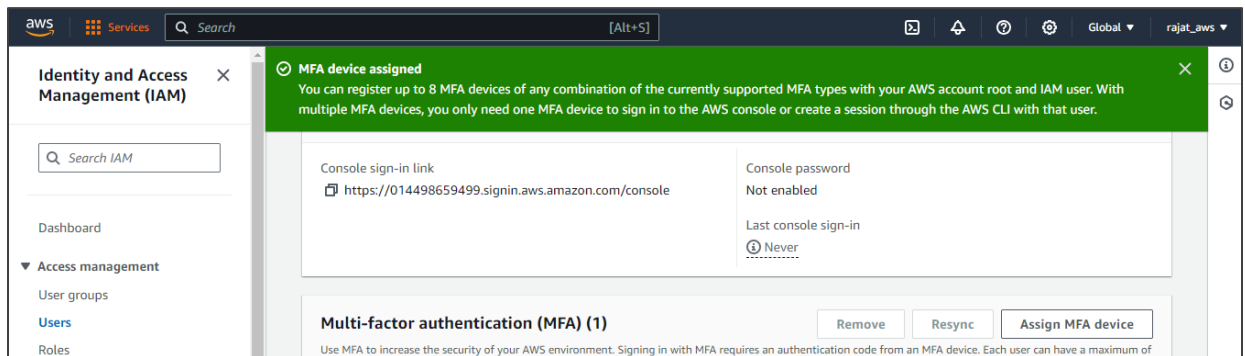
4.4 Click on **Show QR Code** and **open the Google Authenticator app on your phone. Click on Scan QR Code**, scan the code on the phone, and enter the code from your phone into MFA code 1 and MFA code 2. Then click on the **Add MFA** button.



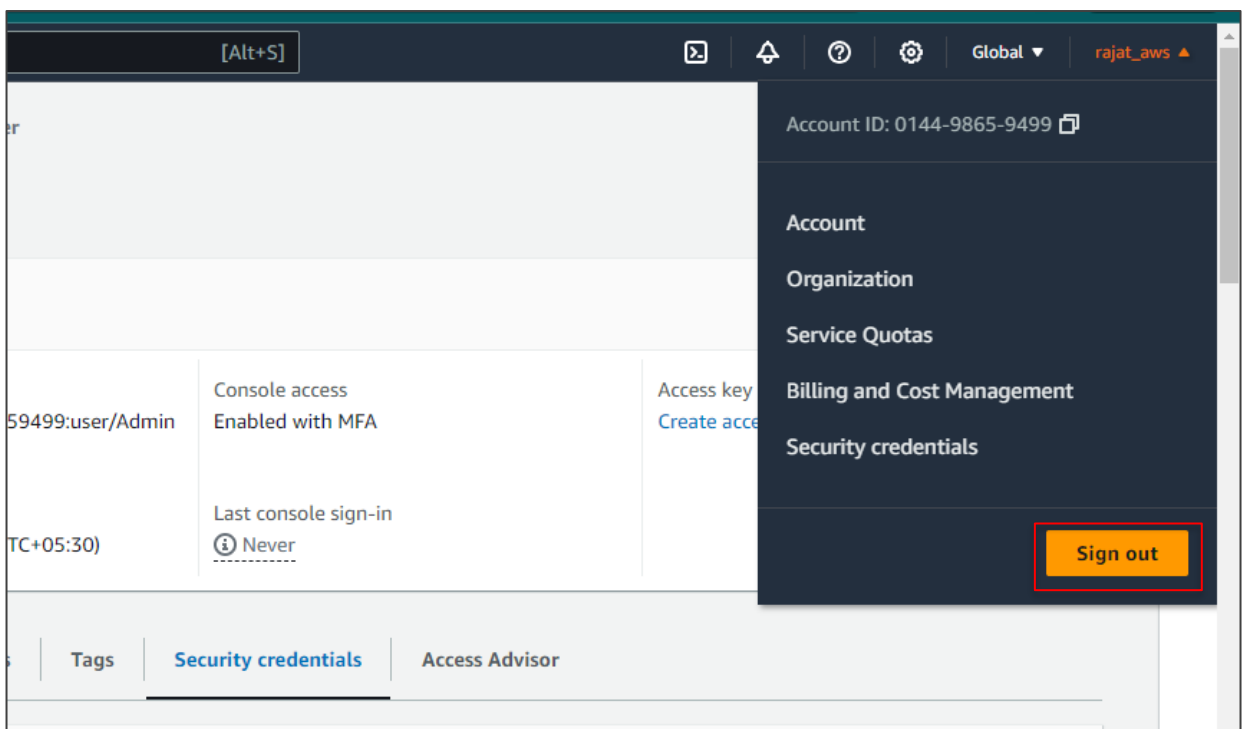


Note: Take a screenshot of the code so that if you lose your phone in the future, you can use it to re-enable MFA.

Now, you can see that the MFA device has been added successfully.

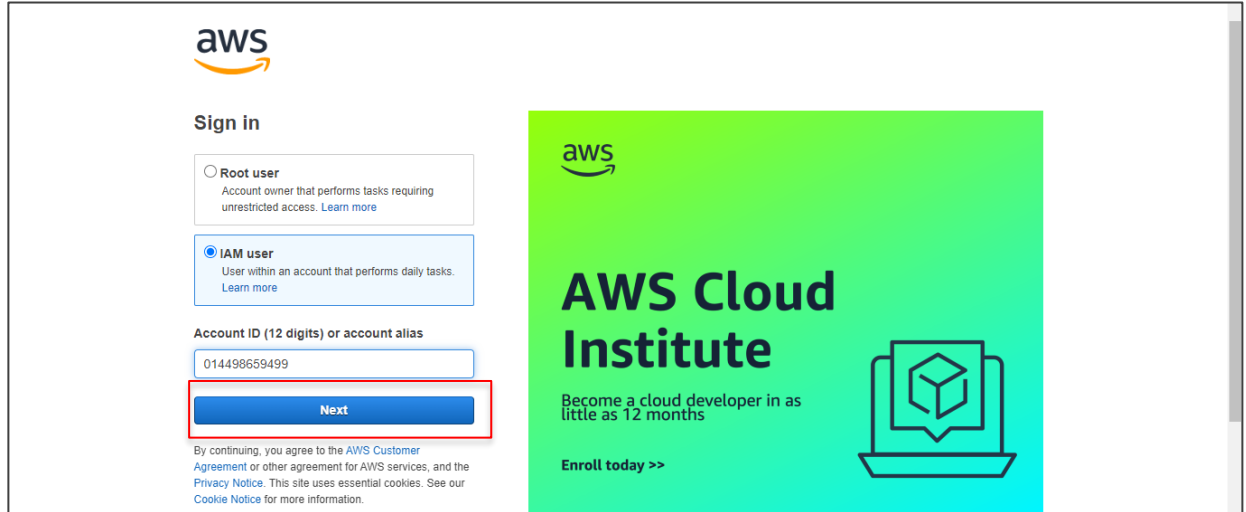


3.3 After adding the MFA, **Sign out** from the account



Step 5: Access AWS Console using MFA

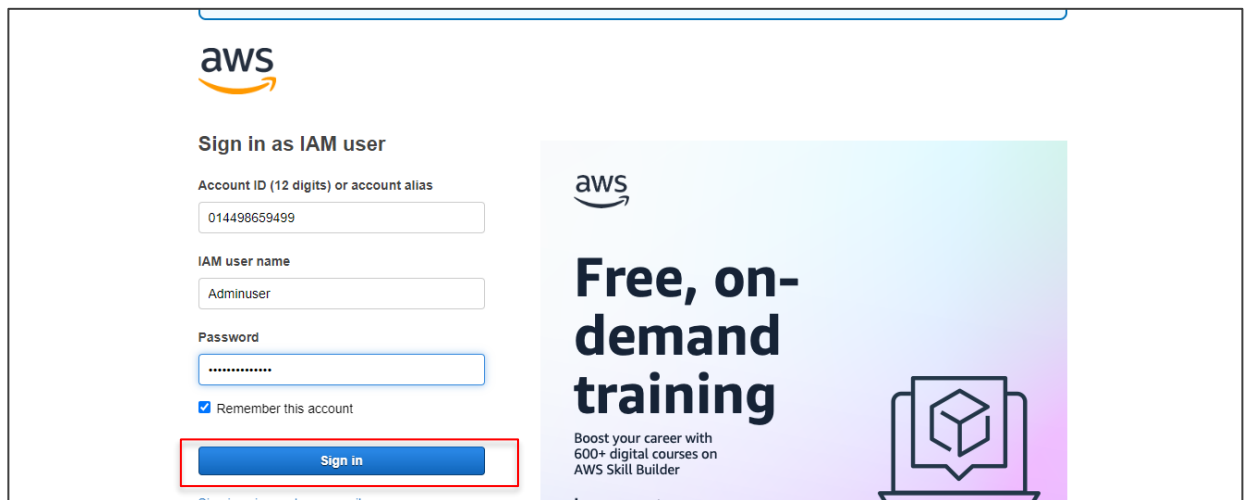
5.1 Open your AWS console login page, click on **IAM user** and enter the **Account ID**, then click on **Next**



The screenshot shows the AWS console sign-in page. On the left, under the 'Sign in' heading, there are two radio button options: 'Root user' and 'IAM user'. The 'IAM user' option is selected. Below these options is a text input field for 'Account ID (12 digits) or account alias' containing the value '014498659499'. A blue 'Next' button is located below the input field and is highlighted with a red rectangular box. To the right of the sign-in form is a green and blue banner for 'AWS Cloud Institute' with the text 'Become a cloud developer in as little as 12 months' and an 'Enroll today >>' link. The AWS logo is at the top left.

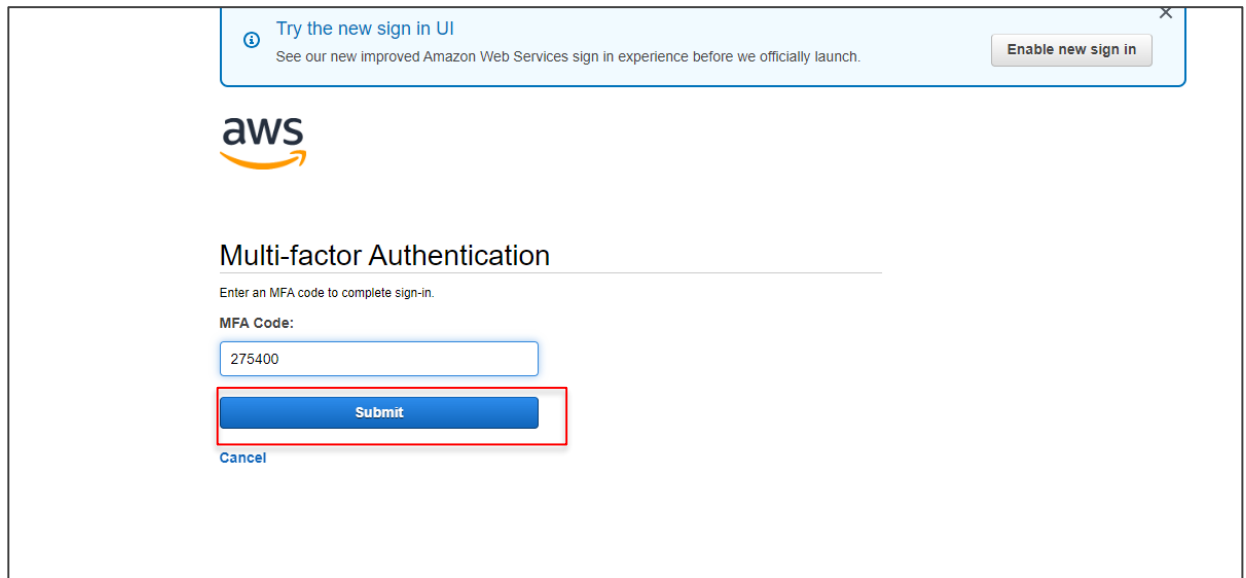
Note: You can get the Account ID from the console sign-in link which is in the credentials you have saved before.

5.2 Again, enter your **Account ID**, **IAM user name**, and **Password**, then click on Sign in

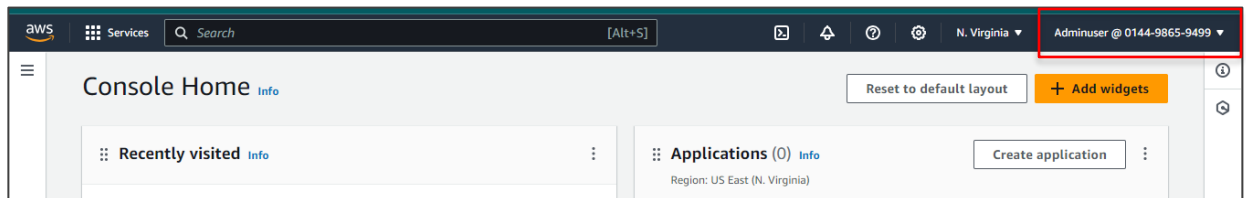


The screenshot shows the AWS console sign-in page for an IAM user. The heading is 'Sign in as IAM user'. There are three input fields: 'Account ID (12 digits) or account alias' with the value '014498659499', 'IAM user name' with the value 'Adminuser', and 'Password' with masked characters. Below the password field is a checkbox labeled 'Remember this account' which is checked. A blue 'Sign in' button is located below the form and is highlighted with a red rectangular box. To the right is a light blue and purple banner for 'Free, on-demand training' with the text 'Boost your career with 600+ digital courses on AWS Skill Builder' and a 'Learn more >' link. The AWS logo is at the top left.

5.3 Enter the **MFA Code**, then click on **Submit**



Note: To get your MFA code, open your authenticator app (Google Authenticator) and find the 6-digit code for your AWS account. Enter this code when prompted during AWS login.

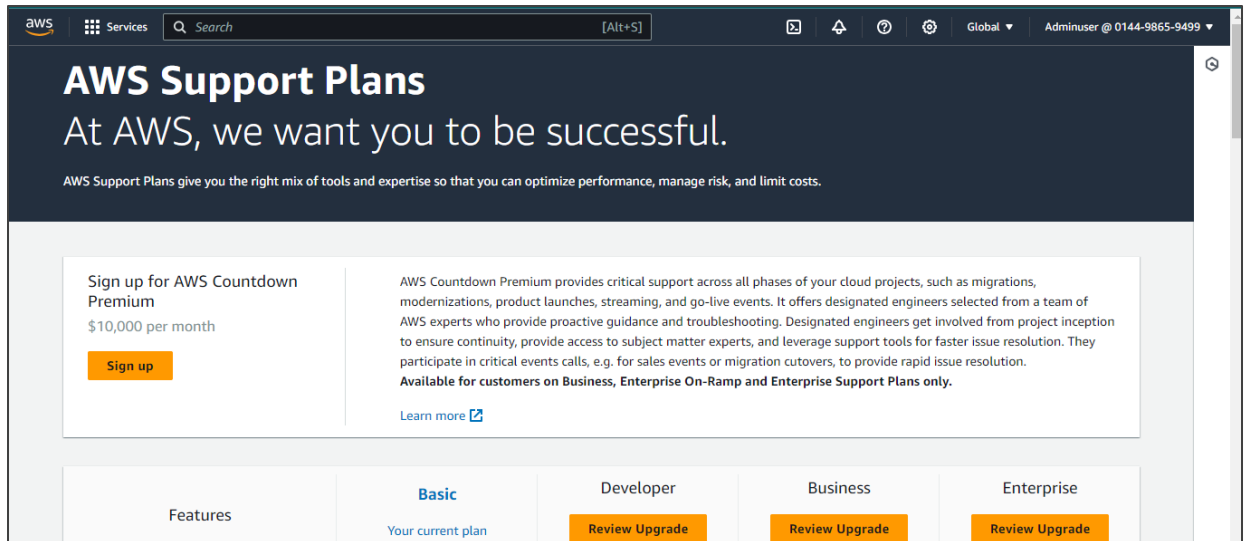


You can see you have been logged in as [an](#) IAM user.

Step 6: Verify your account plan

6.1 To verify your account plan, navigate to the below link:

<https://us-east-1.console.aws.amazon.com/support/plans/home?region=us-east-1#/>



Note: AWS Support offers four support plans: Basic, Developer, Business, and Enterprise. By default, we have a basic plan; if you want to change your plan, you can change it accordingly.

By following the above steps, you can successfully create a free tier account on AWS with MFA enabled for an extra layer of security.