Assignment 1: Create an account in AWS and configure a budget.

Creating an AWS Account:

1. In browser, open the AWS home page.
2. Choose **Create an AWS account**.
3. Enter account information, and then choose **Continue**. Review account information.
4. Choose **Personal** or **Professional**.
5. Enter company or personal information.
6. Read and accept the AWS Customer Agreement.
7. Choose **Create Account and Continue**.

At this point, we'll receive an email message to confirm that AWS account is ready to use.

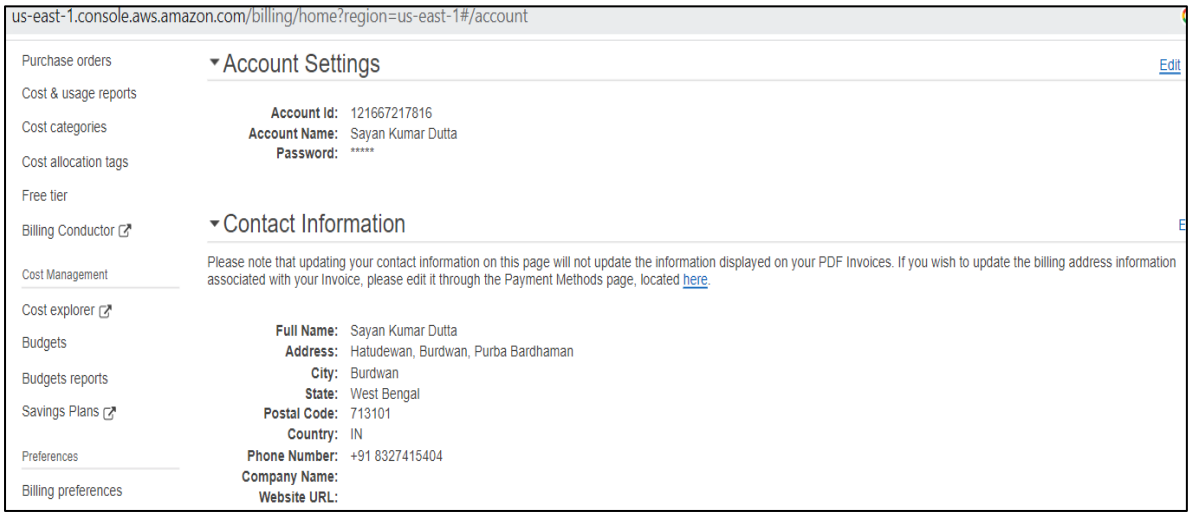
On the Payment Information page, enter information about payment method. If we want to use a different address for billing purposes, choose Use a new address.

8. Choose **Verify and Add**.
9. To verify our phone number, choose country or region code from the list, and enter a phone number where we can be called in the next few minutes. Enter the CAPTCHA code, and submit.
10. When the AWS automated verification system calls us and provides a PIN, enter the PIN using the phone, and then choose Continue.
11. Select the AWS Support plan.

A confirmation page appears that indicates that our account is being activated.

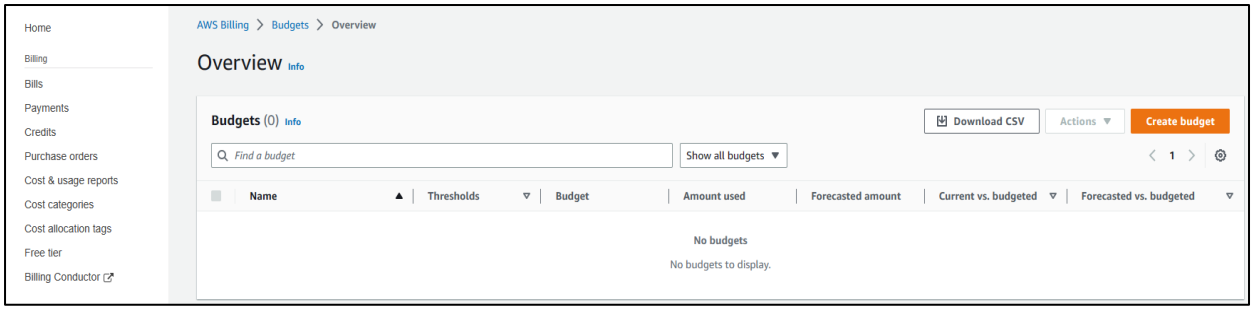
12. Check the email and spam folder for an email message that confirms our account was activated.

After we receive the activation message, you have full access to all AWS services.

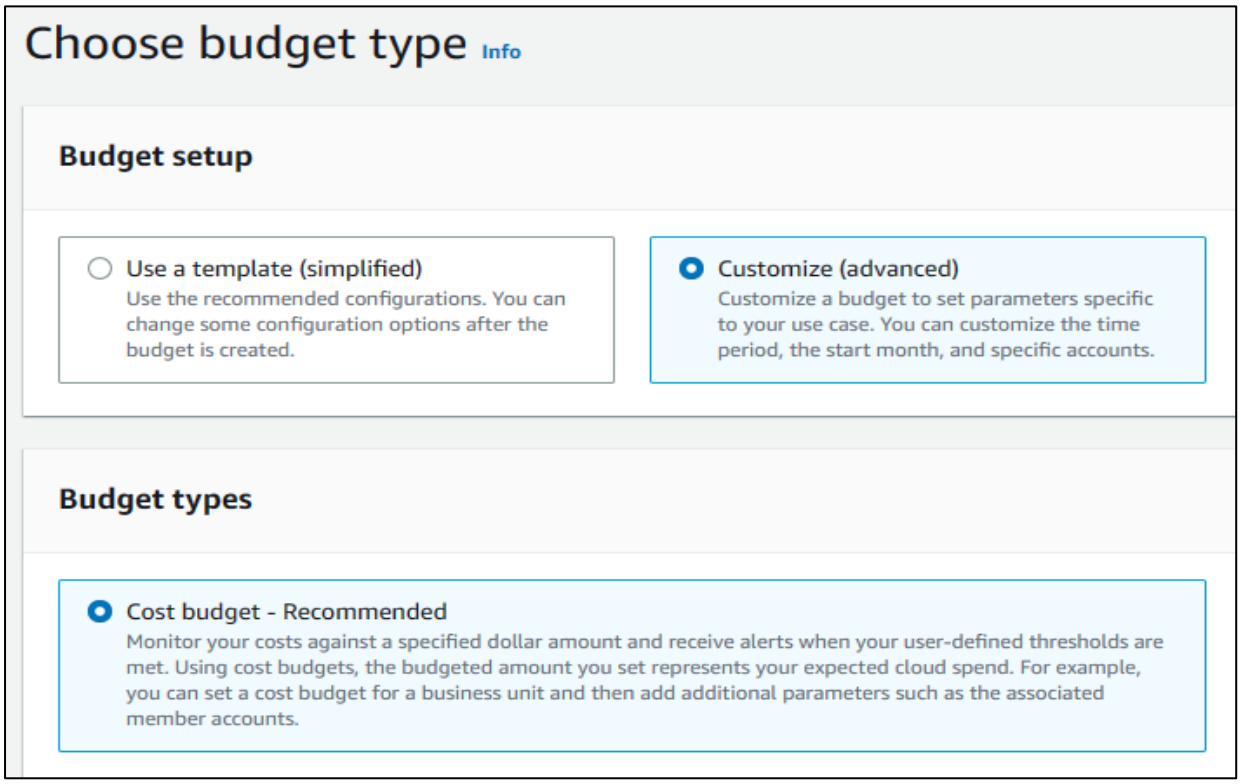


Creating a cost budget:

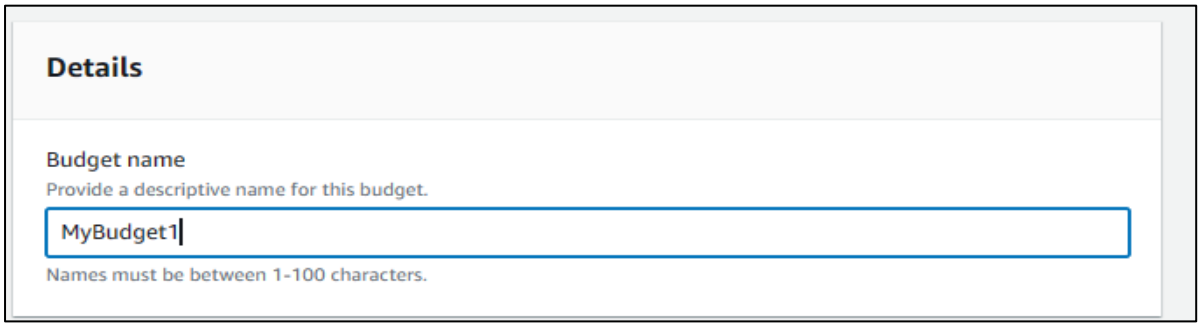
1. Sign in to the AWS Management Console and open the **AWS Cost Management console**
2. In the navigation pane, choose **Budgets**.
3. At the top of the page, choose **Create budget**.



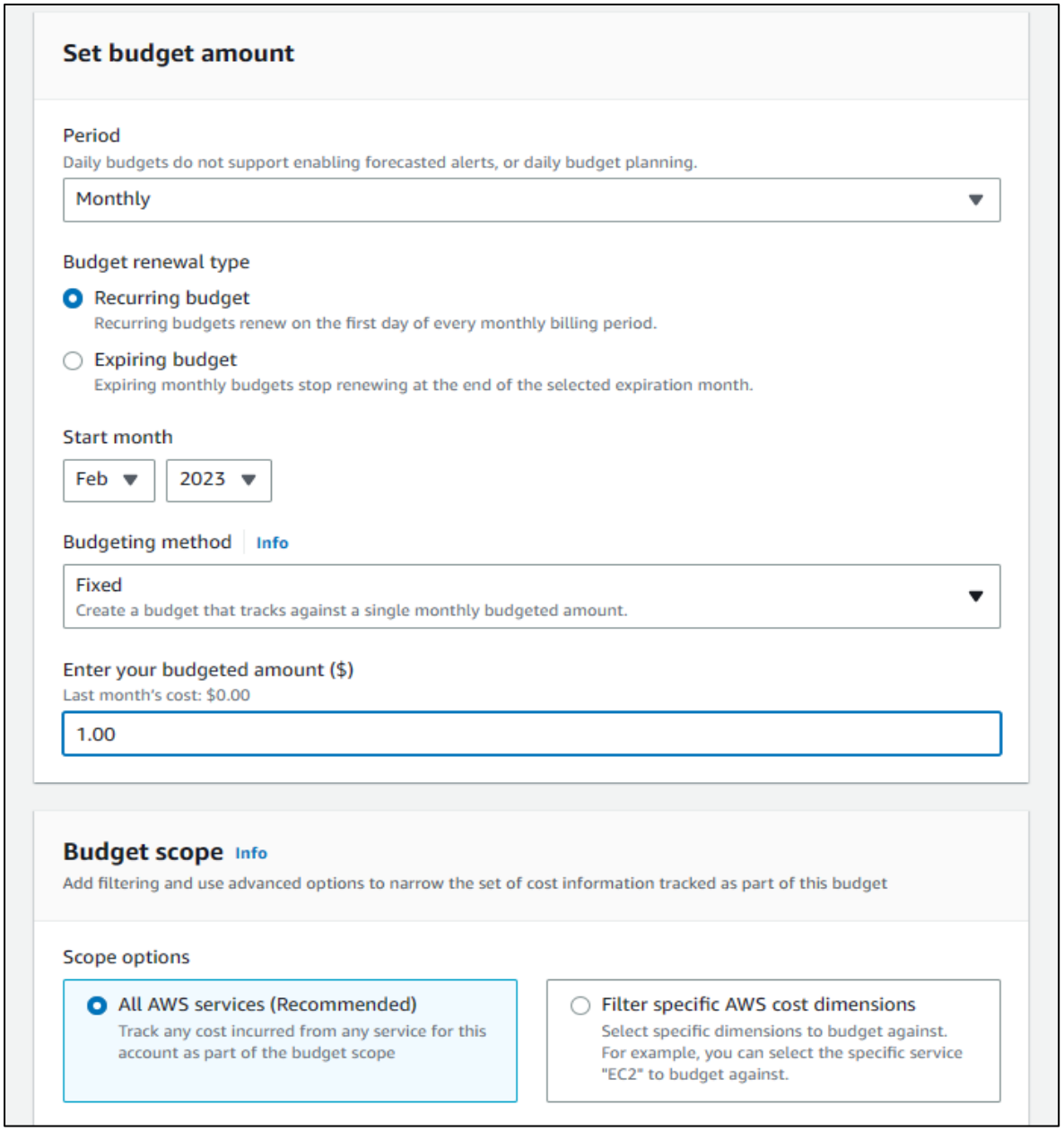
4. Under Budget setup, choose **Customize (advanced)**.



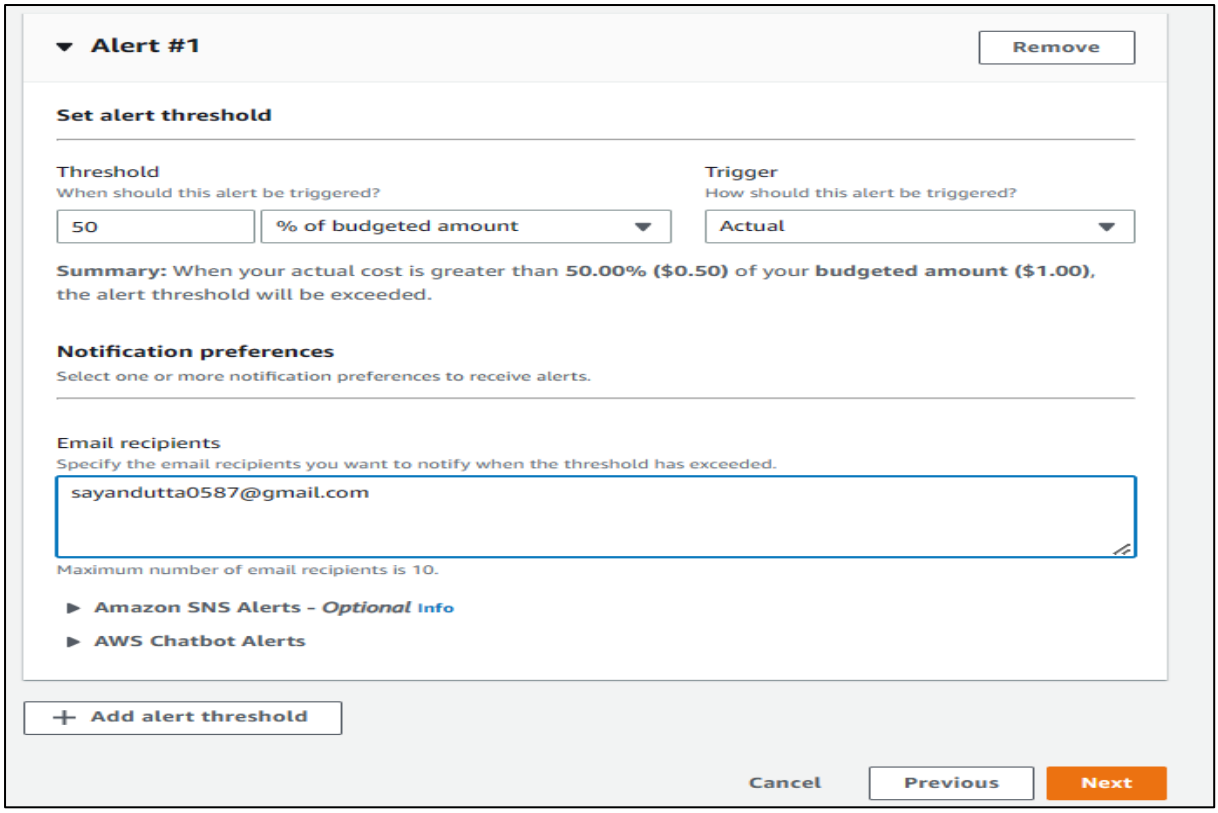
5. Under Budget types, choose **Cost budget**. Then, choose **Next**.
6. Under Details, for **Budget name**, enter the name of the budget.

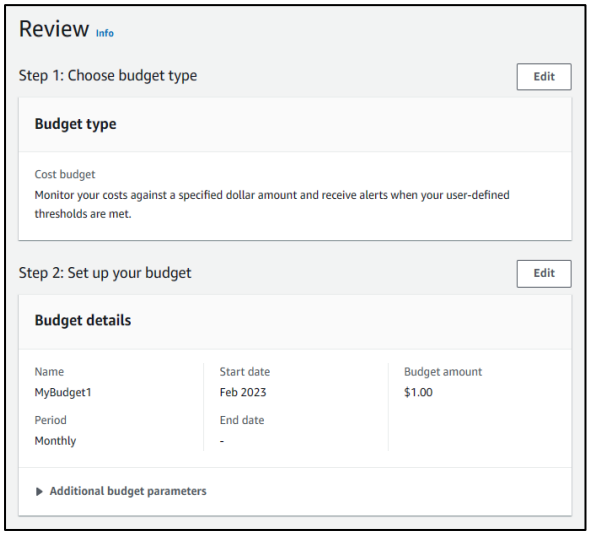


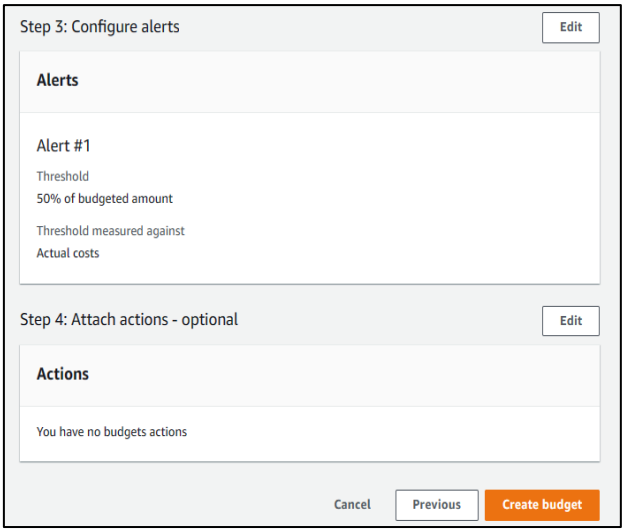
7. Under **Set budget amount**, for **Period**, choose Daily/Monthly/Quarterly/Annually.
8. For **Budget renewal type**, choose Recurring budget or Expiring budget .
9. Choose the start date or period to begin tracking against the budgeted amount.
10. For **Budgeting method**, select the way that we want our budget amount to be determined each budget period: Fixed/ Planned/ Auto-adjusting.
11. Under Budget scope, select "**All AWS Services(Recommended)**".



12. Choose **Next**.
13. Choose Add an alert threshold and set the Alert threshold.
14. Under Notification preferences, for Email recipients, enter the email addresses that we want the alert to notify.
15. Choose **Next**.
16. Review, and then choose **Create budget**.

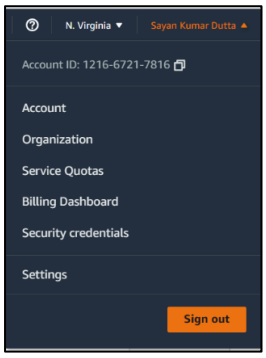

Alert #1
Remove
Set alert threshold
Threshold
When should this alert be triggered?
50
% of budgeted amount
Trigger
How should this alert be triggered?
Actual
Summary: When your actual cost is greater than 50.00% ($0.50) of your budgeted amount ($1.00), the alert threshold will be exceeded.
Notification preferences
Select one or more notification preferences to receive alerts.
Email recipients
Specify the email recipients you want to notify when the threshold has exceeded.
sayandutta0587@gmail.com
Maximum number of email recipients is 10.
Amazon SNS Alerts - Optional Info
AWS Chatbot Alerts
Add alert threshold
Cancel
Previous
Next


Review Info
Step 1: Choose budget type
Edit
Budget type
Cost budget
Monitor your costs against a specified dollar amount and receive alerts when your user-defined thresholds are met.
Step 2: Set up your budget
Edit
Budget details
Name
MyBudget1
Start date
Feb 2023
Budget amount
$1.00
Period
Monthly
End date
-
Additional budget parameters


Step 3: Configure alerts
Edit
Alerts
Alert #1
Threshold
50% of budgeted amount
Threshold measured against
Actual costs
Step 4: Attach actions - optional
Edit
Actions
You have no budgets actions
Cancel
Previous
Create budget

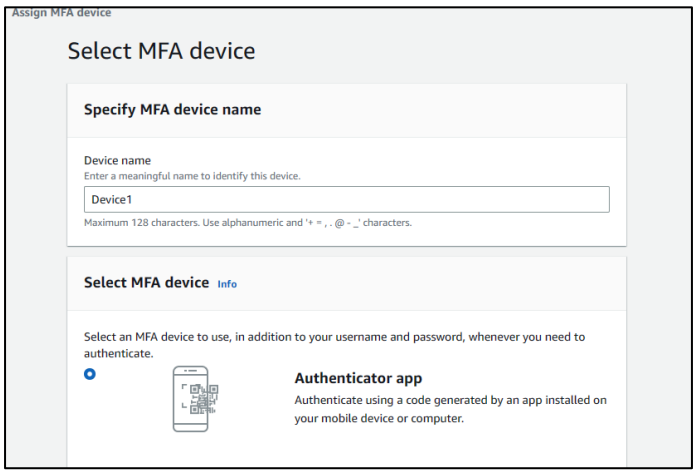
Assignment 2: Create MFA for Authentication.

1. Sign in to the **AWS Management Console**.
2. On the right side of the navigation bar, choose account name, and choose **Security credentials**

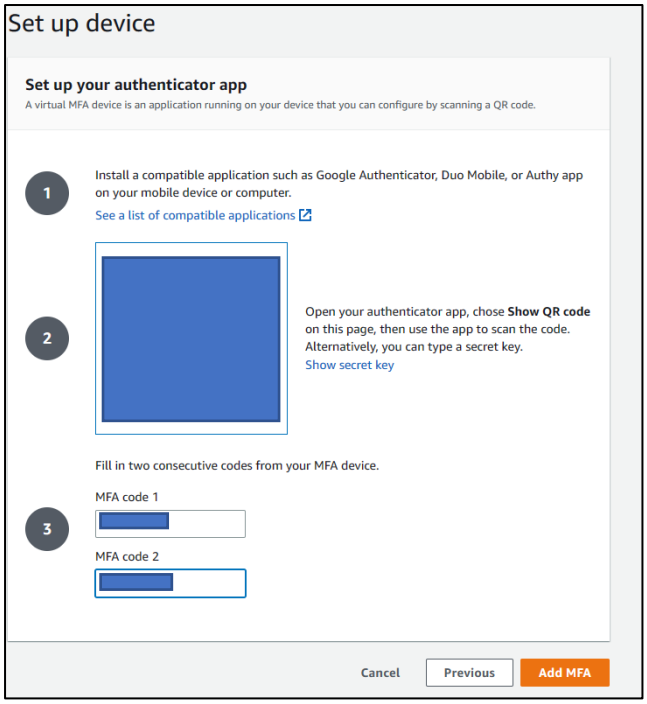


3. In the Multi-Factor Authentication (MFA) section, choose **Assign MFA device**.

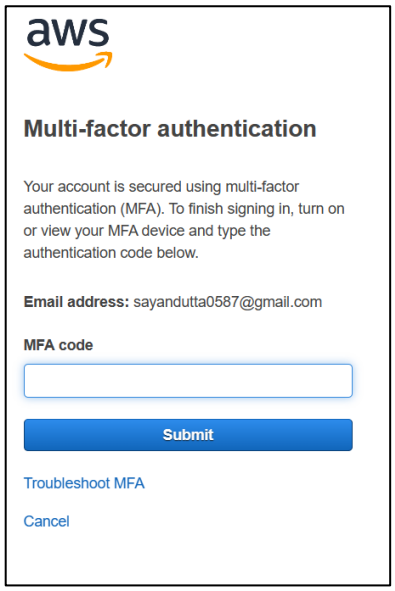
4. In the wizard, type a **Device name**, choose **Authenticator app**, and then choose **Next**.



5. Open the **virtual MFA app** on the device.
   - Scan the QR code. To use the QR code to configure the virtual MFA device, from the wizard, choose Show QR code. Then follow the app instructions for scanning the code.
   - In the Set up device wizard, choose Show secret key, and then type the secret key into the MFA app.
   - The device starts generating six-digit numbers.
6. In the wizard, in the MFA code 1 box, type the one-time password that currently appears in the virtual MFA device. Wait up to 30 seconds for the device to generate a new one-time password. Then type the second one-time password into the MFA code 2 box. Choose **Add MFA**.



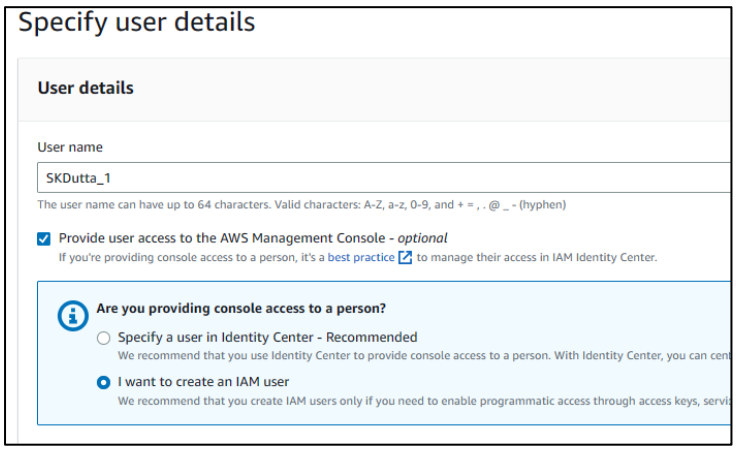
The device is ready for use with AWS.



Assignment 3: Create IAM User giving full access of S3.

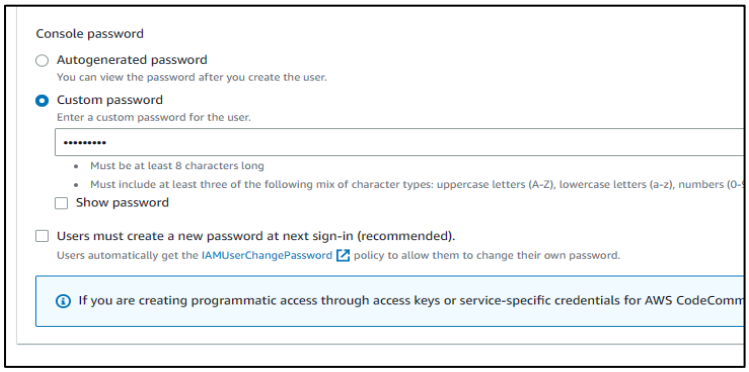
1. Sign in to the AWS Management Console and open the **IAM console**.
2. In the navigation pane, choose **Users** and then choose **Add user**.

3. Type the user name for the new user. This is the sign-in name for AWS.

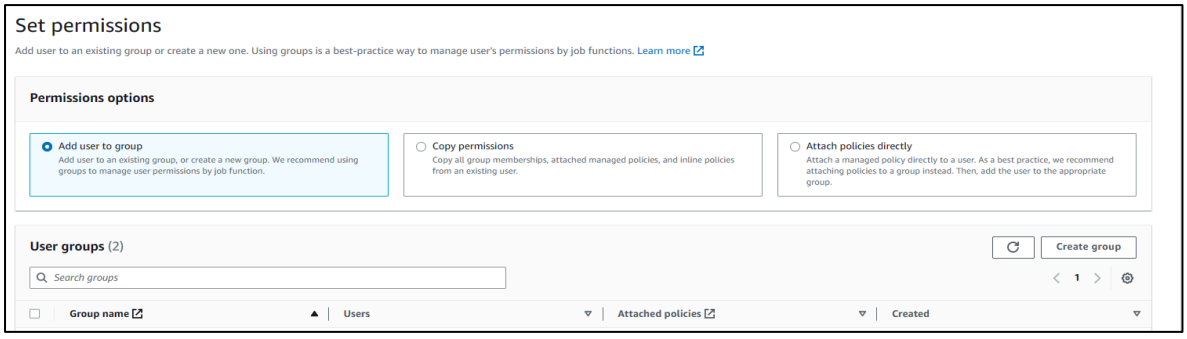


4. Select the type of access this user will have.

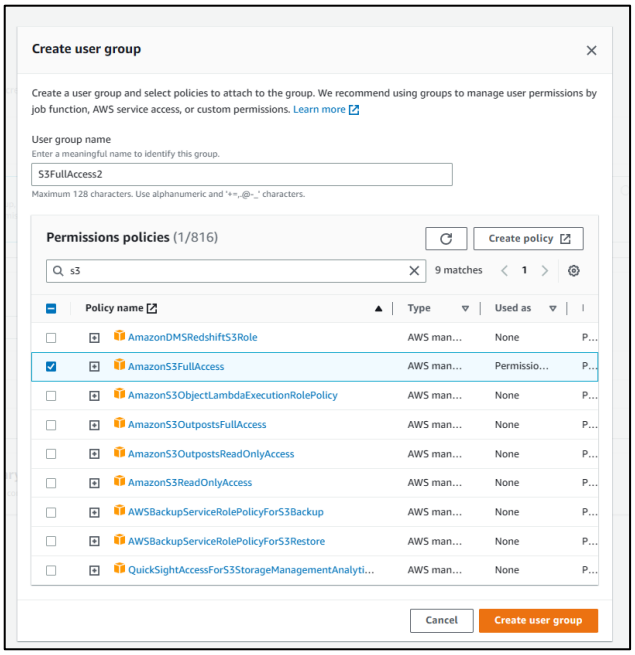
- Select **Enable console access.** This creates a password for the new user.
    - **Custom password** – The user is assigned the password that you type in the box.



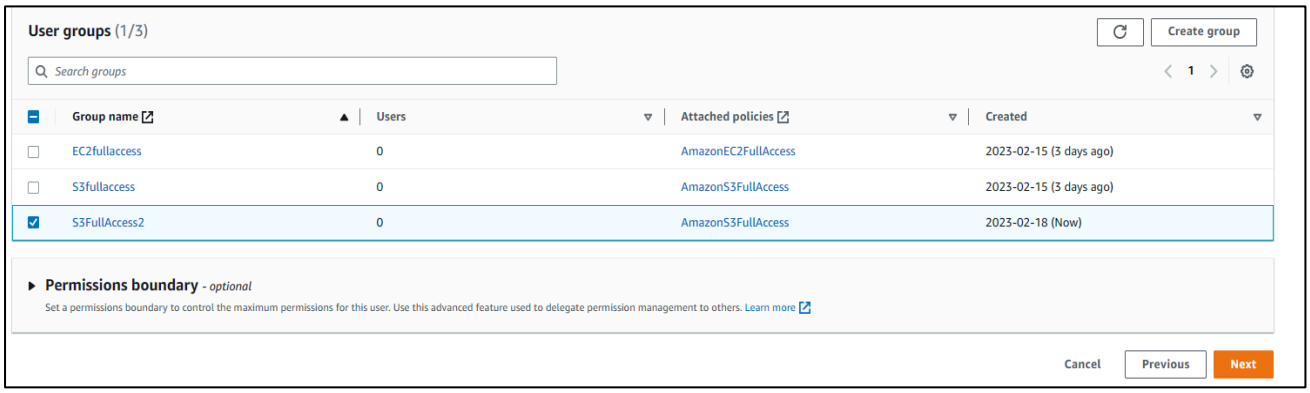
5. Uncheck **Users must create a new password at next sign-in (recommended)**
6. Choose **Next**.
7. On the **Set permissions** page, specify how you want to assign permissions to this set of new users. Choose **Add User to Group.**



- Choose **Create group** to create a new group.
- Give the **User Group Name**
- Give the required **Permission Policies**
- Click **Create User Group**

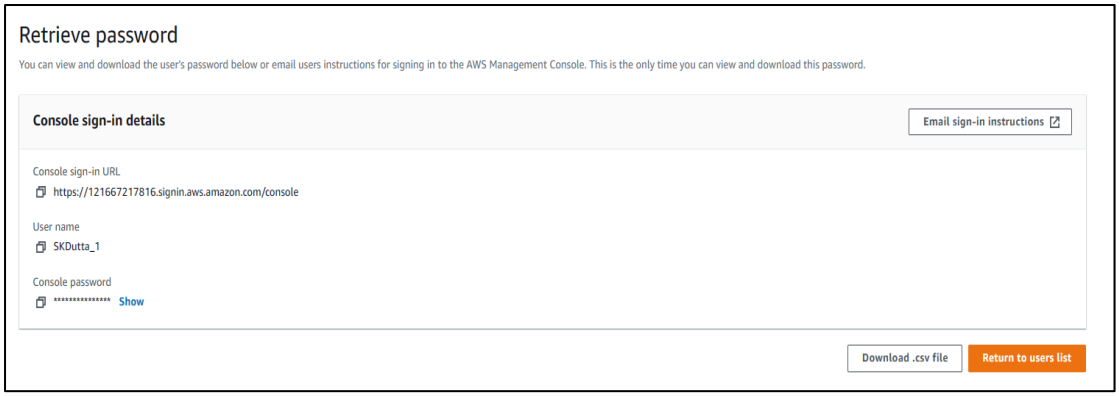


8. Check the Group and Choose **Next**.



9. On the **Review and create** page, after reviewing choose **Create user**.

10. To save the password, choose **Download .csv** and then save the file to a safe location.



11. Provide the user with their credentials.
12. New IAM User is being created with S3 Full Access.