

SOFTWARE DEVELOPMENT AND IT OPERATIONS LAB

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

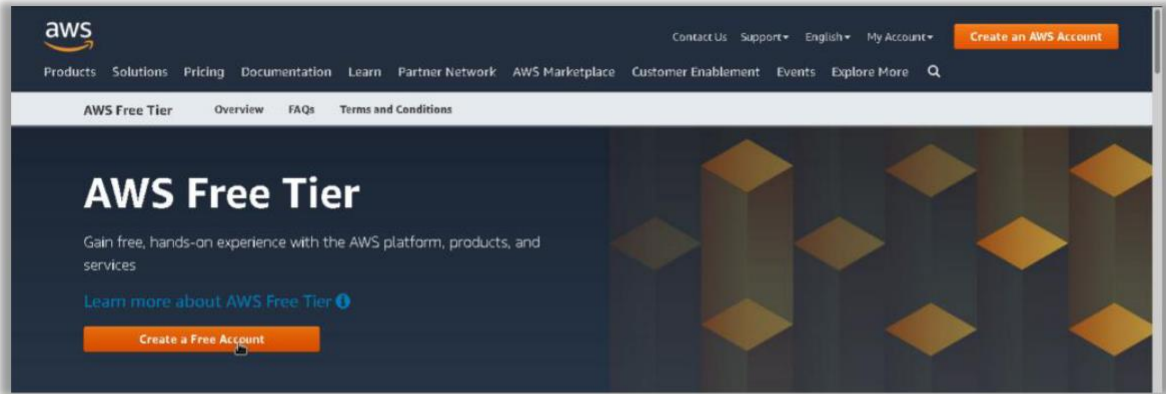
AWS- Amazon Web Services (AWS) is a leading top platform in providing the web services of various domains. AWS follows the trends of digital IT and comes up needy services with optimized performances covering a wide range of services from Compute to Storage. It covers a wider range of customers of different domains to expand their business operations. This Article covers the fundamentals of AWS and its scope of IT business.

AWS stands for [Amazon Web Services](#), It is an expanded **cloud computing platform** provided by [Amazon](#) Company. AWS provides a wide range of services with a **pay-as-per-use pricing model** over the Internet such as Storage, Computing power, [Databases](#), [Machine Learning](#) services, and much more. AWS facilitates for both businesses and individual users with effectively hosting the applications, storing the data securely, and making use of a wide variety of tools and services improving management flexibility for IT resources.

Steps to Creating a Free Tier AWS Account

Sign Up for an AWS Account


1. **Step 1:** Visit the [AWS Free Tier webpage](#) & click on Create a free account option.



Step 2: Click on **Create on AWS Account** and then provide email address and AWS account name and **verify** the email address.

Explore Free Tier products with a new AWS account.

To learn more, visit 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

Step 3: Enter the verification code received in the email address entered and click on **'Verify'** and confirm the verification code.

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 **ashokit.office@gmail.com**. (not you?)

Enter it below to confirm your email.

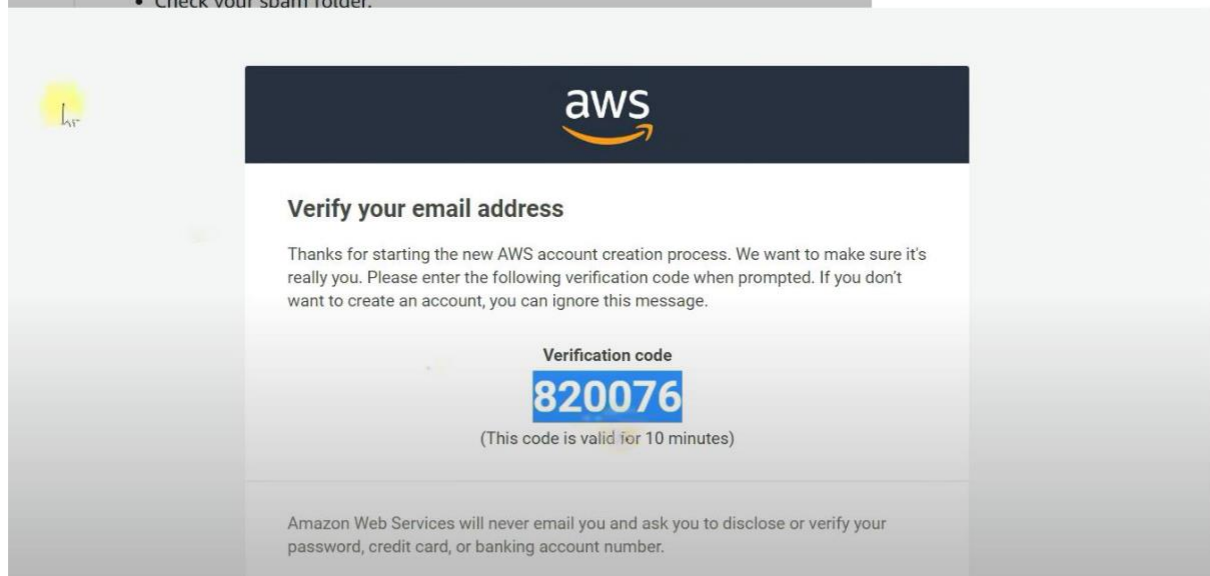
Verification code

Verify

Resend code

Didn't get the code?

- Codes can take up to 5 minutes to arrive.
- Check your spam folder.



Step 3: Enter the Root user Password and Confirm the Root user Password, then click on 'Continue (step 1 of 5)'.



Explore Free Tier products with a new AWS account.

To learn more, visit aws.amazon.com/free.



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

Sign in to an existing AWS account

Step 4: Select '**Personal – for your own projects**' and fill in the details including the full name, contact number, country or region, and address for communication, and then click on '**Continue (Step 2 of 5)**'.



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

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


Continue (step 2 of 5)

Step 5: Now in this step enter the Billing Information, and then click on '**Verify and Continue**'. You have to give the payment details so that after the trial is over they can charge you. After you are done with everything, your AWS Free Tier account will get activated. For the payment, all the credit cards except for RuPay are accepted. I have used my Amazon payments bank account card to complete the creation of my AWS account.



Secure verification





③ We will not charge for usage below AWS Free Tier limits. We temporarily hold INR 2 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

Month

Year

Cardholder's name

CVV

Billing address

☒ Use my contact address

Merchant Details

Merchant Name	AMAZON
Date	Mar 25, 2023
Card Number	5178 XXXX XXXX 1921
Amount	₹2.00

Enter OTP

OTP is sent successfully to your registered mobile number XXXXXX7666 and email id boXXXXXXXXXXXXXXXXX@gmail.com.
If your mobile number or e-mail id is incorrect, kindly contact bank to update your contact details:
[Contact customer care](#)

Enter OTP

...
I


Cancel

SUBMIT

Rs 2 will be charged on successful account verification and then the money will also be refunded within 1 or 2 days.

Step 6: Confirm your identity by entering your mobile number or email address. You will receive a verification code which you have to enter to confirm your identity.

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

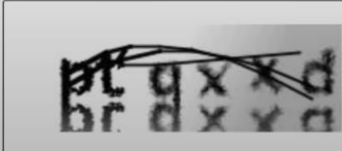
Country or region code



India (+91) ▼

Mobile phone number

9701787666

Security check



Sign up for AWS

Confirm your identity

Verify code

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.

Step 7: Select the support plan. For Free Tier, we have to select '**Basic Support: Free**'. Finally, the AWS account has been created and is ready for implementation.

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.

☒ Basic support - Free

- 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 Advisor



☐ Developer support - From \$29/month

- Recommended for developers experimenting with AWS
- Email access to AWS Support during business hours
- 12 (business)-hour response times



☐ Business support - From \$100/month

- 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 recommendations



Need Enterprise level support?

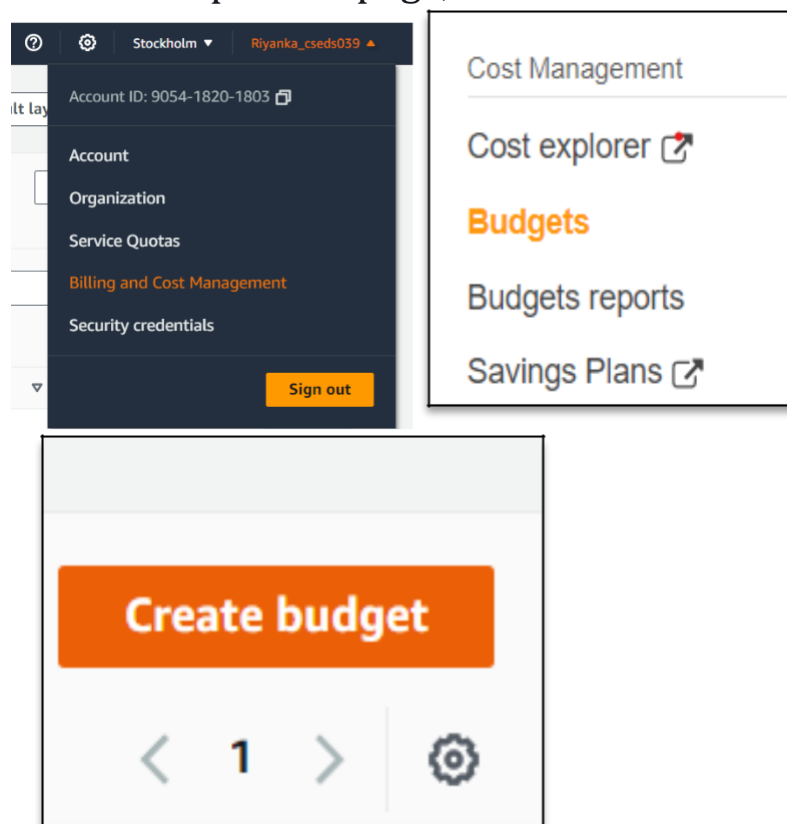
From \$15,000 a month you will receive 15-minute response times and concierge-style

Now, we can easily log in to our AWS management console with our login credentials that is the email Id and password.

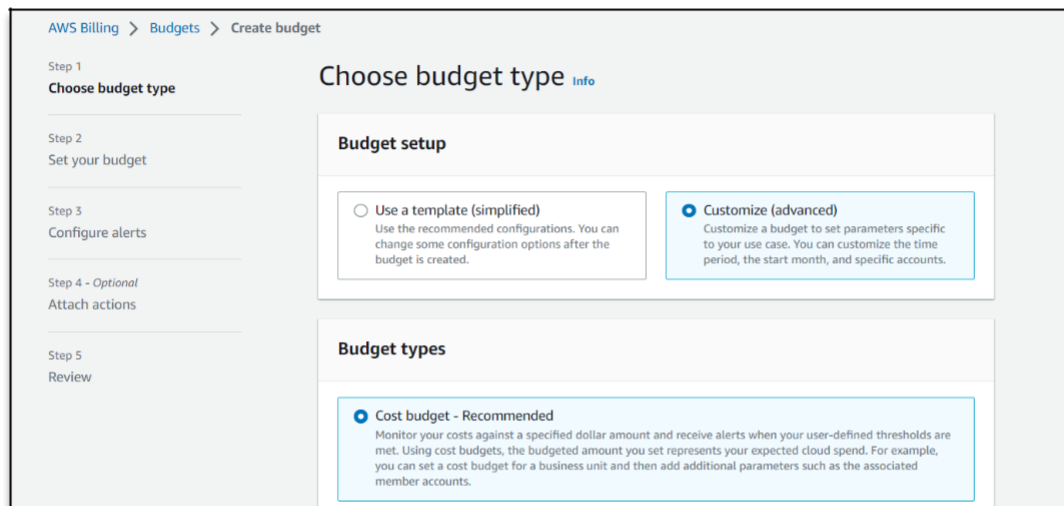
BUDGET CONFIGURATION IN AWS :-

(a) Steps to create and configure a budget :

1. Sign in to the AWS Management Console and open the AWS Cost Management console.
2. On the right side of the navigation bar, choose your account name, and choose **Billing Dashboard**, then on the left side under **Cost Management** choose **Budgets**.
3. At the top of the page, choose **Create budget**.



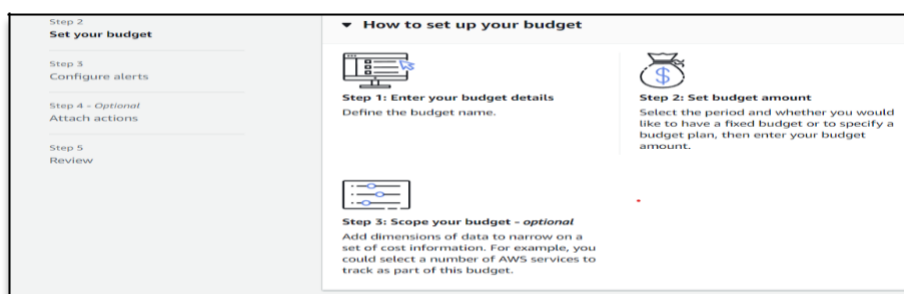
4. Under **Budget setup**, choose **Customize (advanced)**.
5. Under **Budget types**, choose **Cost budget**. Then, choose **Next**.



6. Under **Details**, for **Budget name**, let's say **Budget-2** enter the name of your budget. Your budget name must be unique within your account. It can contain A-Z, a-z, spaces, and the following characters: ./+=-_%@.

7. Under **Set budget amount**, for **Period**, choose how often you want the budget to reset the actual and forecasted spend. Select **Daily** for every day, **Monthly** for every month, **Quarterly** for every three months, or **Annually** for every year. We are choosing **Monthly**.

8. For **Budget renewal type**, choose **Recurring budget** for a budget that resets after the budget period. **Budgeted Amount - \$1.00**, Choose **Next**.



Budget name

Provide a descriptive name for this budget.

Budget_02

Names must be between 1-100 characters.

Set budget amount

Period

Daily budgets do not support enabling forecasted alerts, or daily budget planning.

Monthly

Budget renewal type

☒ Recurring budget

Recurring budgets renew on the first day of every monthly billing period.

☐ Expiring budget

Expiring monthly budgets stop renewing at the end of the selected expiration month.

Start month

Jan

2024

Budgeting method [Info](#)

Fixed

Create a budget that tracks against a single monthly budgeted amount.

Enter your budgeted amount (\$)

Last month's cost: 0

1.00

9. Choose *Add an alert threshold*.

10. Under *Set alert threshold*, for **Threshold**, enter the amount that must be reached for you to be notified. This can be either an absolute value or a percentage. For example, say you have a budget of 200 dollars. To be notified at 160 dollars (80% of your budget), enter **160** for an absolute budget or **80** for a percentage budget. We Choose *Percentage budget*.

11. Under **Notification preferences**, for **Email recipients**, enter the email addresses that you want the alert to notify. Separate multiple email addresses with commas. Review your budget settings, and then choose **Create budget**.

The budget has been created. And it can be observed in the overview section of the Budgets as **Budget-2**

▼ Alert #1

Remove

Set alert threshold

Threshold

When should this alert be triggered?

80

% of budgeted amount ▼

Trigger

How should this alert be triggered?

Actual ▼

Summary:

When your actual cost is greater than 80.00% (\$0.80) 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.

nagriyanka931@gmail.com

Maximum number of email recipients is 10.

► Amazon SNS Alerts - *Optional Info*

► AWS Chatbot Alerts

Overview Info							
Budgets (2) Info				Download CSV	Actions ▼	Create budget	
Find a budget				Show all budgets ▼		< 1 > ⚙	
<input type="checkbox"/>	Name	▲	Thresholds ▼	Budget	Amount used	Forecasted ...	Current vs. budgeted ▼
<input type="checkbox"/>	Budget_02		OK	\$1.00	\$0.00	-	<div><div></div>0.00%</div>

