

## Designing and developing on AWS:

### Service domains in AWS:

- 1) Compute:
  - Runs code that you provide
  - Services:
    1. Elastic Compute Cloud (EC2)
    2. Lambda
    3. Elastic Beanstalk
    4. Batch
- 2) Storage:
  - Stores data
  - Services:
    1. Simple Storage Service
    2. Elastic File System
    3. Glacier
    4. Storage Gateway
- 3) Databases:
  - Provides databases
  - Services:
    1. Relational Database Services
    2. DynamoDB
    3. ElastiCache
    4. DocumentDB
- 4) Networking and Content Delivery:
  - Controls networking and routing
  - Services:
    1. Virtual Private Cloud (VPC)
    2. CloudFront
    3. API Gateway
    4. Route 53
- 5) Developer tools:
  - Facilitates development cycle
  - Services:
    1. CodeStar
    2. CodeCommit
    3. CodeBuild
    4. CodeDeploy
    5. CodePipeline
    6. X-ray
- 6) Management and Governance:
  - Service management and orchestration
  - Services:
    1. CloudWatch

2. CloudFormation
3. CloudTrail
4. OpsWorks

7) Security, identity and compliance:

- Manages services access
- Services:
  1. Identity and Access Management (IAM)
  2. Certificate manager
  3. Secret Manager
  4. WAF and Shield
  5. Key Management Service

8) Analytics:

- Consumes and processes data
- Services:
  1. RedShift
  2. Elastic Map Reduce (EMR)
  3. Open Search
  4. Kinesis
  5. Data Pipeline

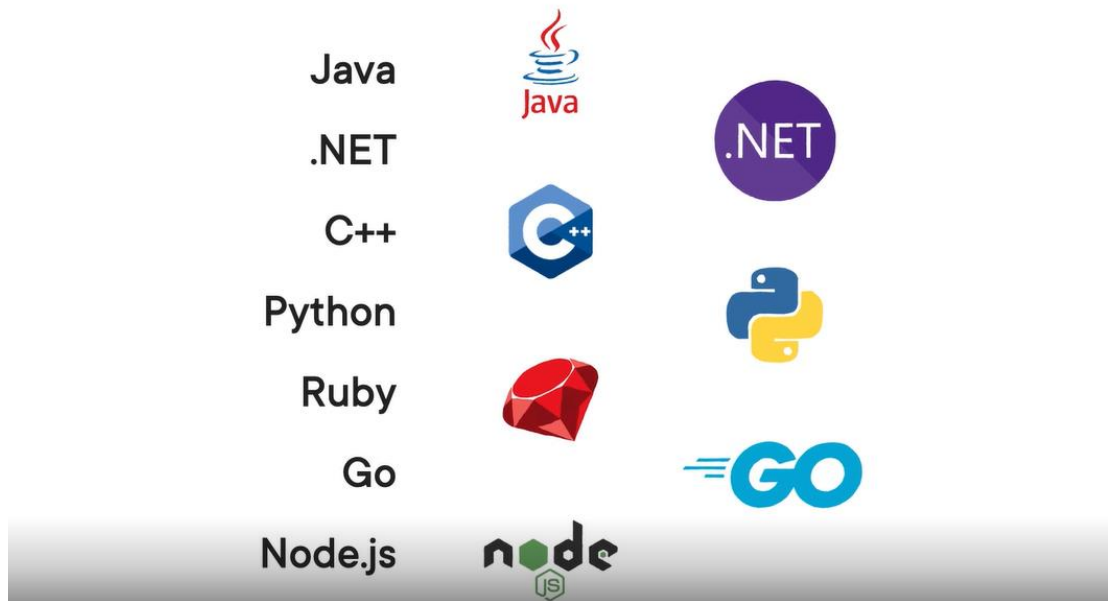
9) Application Integration:

- Integrates AWS services
- Services:
  1. Simple Notification Services
  2. Simple Queue Service
  3. Simple Workflow
  4. Step Functions

SDKs for AWS:

- There are officially supported SDKs from AWS and non-supported, open source SDKs from third parties.

## Officially Supported Server-side AWS SDKs



## Officially Supported Client-side AWS SDKs

JavaScript



## Officially Supported Mobile AWS SDKs

Android



iOS

iOS

Xamarin



Unity



Creating an AWS budget:

AWS Budget:

- Alerts you when your AWS resource charges reach a certain amount

Monitoring billing in AWS:

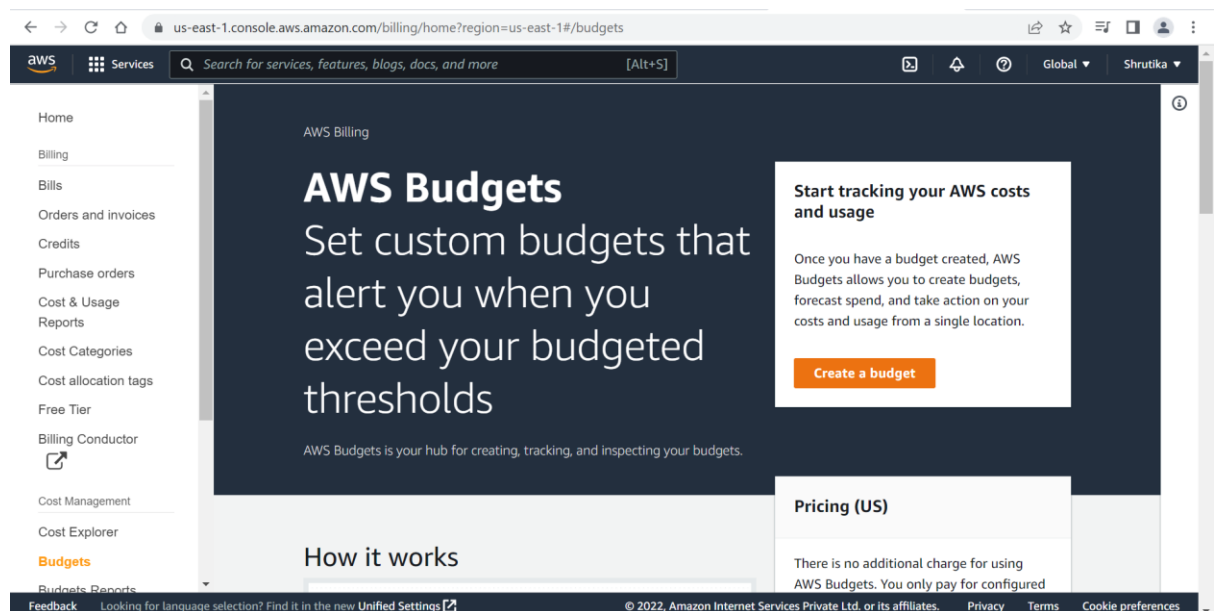
Before

CloudWatch Alarms

Now

CloudWatch Alarms

AWS Budgets



us-east-1.console.aws.amazon.com/billing/home?region=us-east-1#/budgets/create?budgetAmount=&budgetPeriod=Monthly&budgetPlanne...

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Billing Console > Budgets > Create budget

Step 1  
Choose budget type

Step 2  
Set your budget

Step 3  
Configure alerts

Step 4 - Optional  
Attach actions

Step 5  
Review

## Choose budget type [Info](#)

**Budget creation limited**

Because Cost Explorer is not enabled for this account, AWS Budgets does not have access to your billing data. This limits the creation of some budget types and configuration options. To enable these options, either create a budget or enable Cost Explorer. Changes can take up to 24 hours to take effect. [Learn more](#)

[Enable Cost Explorer](#)

### Budget types

☒ **Cost budget - Recommended**

Monitor your costs against a specified dollar amount and receive alerts when your user-defined thresholds are met. Using cost budgets, the budgeted amount you set represents your expected cloud spend. For example, you can set a cost budget for a business unit and then add additional parameters such as the associated member accounts.

☐ **Usage budget**

Monitor your usage of one or more specified usage types or usage type groups and receive alerts when your user-defined thresholds are met. Using usage budgets, the budgeted amount represents your expected usage. For example, you can use a usage budget to monitor the usage

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us-east-1.console.aws.amazon.com/billing/home?region=us-east-1#/budgets/create/steps/2?budgetAmount=5.00&budgetPeriod=Monthly&b...

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## Budget preview

### Cost Data

No data  
There is no data to display

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  
Jun 2022

Budgeting method [Info](#)  
Fixed  
Create a budget that tracks against a single monthly budgeted...

Enter your budgeted amount (\$)  
Last month's cost: 5.00

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### Alert #1 Remove

#### Set alert threshold

**Threshold**  
When should this alert be triggered?

% of budgeted amount ▼

**Trigger**  
How should this alert be triggered?

Forecasted ▼

Summary: When your forecasted cost is greater than 100.00% (\$5.00) of your budgeted amount (\$5.00), the alert threshold will be exceeded.

#### Notification preferences - Optional

Select one or more notification preferences to receive alerts.

#### Email recipients

Specify the email recipients you want to notify when the threshold has exceeded.

Maximum number of email recipients is 10.

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us-east-1.console.aws.amazon.com/billing/home?region=us-east-1#/budgets/overview

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Your budget **AWSBudget** has been created successfully. After creating a budget, it can take up to 24 hours to populate all of your spend data.

Billing Console > Budgets > Overview

## Overview Info

**Budgets (1) Info** Download CSV Actions ▼ Create budget

Show all budgets ▼ < 1 > ⚙

<input type="checkbox"/>	Name	Thresholds	Budget	Amoun...	Forecas...	Current vs. bu
<input type="checkbox"/>	AWSBudget	OK	\$5.00	\$0.00	-	

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