

# Introduction



# What's AWS?

## What's AWS?

- AWS (Amazon Web Services) is a cloud Provider
- They Provide you with servers and services that you can use on demand and scale easily
- AWS has revolutionized IT over time
- AWS powers some of the biggest website in the world
  - Amazon.com
  - Netflix

# What we'll Learn in this course (and more!)



Amazon EC2



Amazon ECR



Amazon ECS



AWS Elastic  
Beanstalk



AWS  
Lambda



Elastic Load  
Balancing



Amazon  
CloudFront



Amazon  
Kinesis



Amazon  
Route 53



Amazon  
S3



Amazon  
RDS



Amazon  
DynamoDB



Amazon DynamoDB  
Accelerator



Amazon  
ElastiCache



Amazon  
SQS



Amazon  
SNS



AWS Step Functions



Amazon  
SWF



Amazon API  
Gateway



Amazon  
SES



Amazon  
Cognito



IAM



Amazon  
CloudWatch



Amazon EC2  
Systems Manager



AWS  
CloudFormation



AWS  
CloudTrail



AWS  
CodeCommit



AWS  
CodeBuild



AWS  
CodeDeploy



AWS  
CodePipeline



AWS KMS

# Creating an AWS Account

# Google

aws sign up



Google Search

I'm Feeling Lucky

Google offered in: हिन्दी

[Click Here](#)

मराठी தமிழ் ગુજરાતી ಕನ್ನಡ മലയാളം ਪੰਜਾਬੀ



## DigitalOcean® Cloud Servers | Get a \$100 credit for 60 days

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Competitors cost 18%-55% More than DigitalOcean. Compare & Deploy w/ \$100 Credit. Manage W/ Teams. Scale Quickly. Simple API. 55 Sec. Deploy. Destinations: NYC, Toronto, Bangalor, London, Amesterdam, Frankfurt,...

[Cloud Servers](#) · [Pricing Matrix](#) · [VPS](#) · [Hosting](#)

[Virtual Private Server](#) - \$100.00 - Free Credit · [More](#) ▼

## [AWS Console - Signup - Amazon Console](#)

<https://portal.aws.amazon.com/billing/signup> ▼

No info available for this page.

Learn why



Click Here

## Amazon Web Services (AWS) - Cloud Computing Services

<https://aws.amazon.com/> ▼

Amazon Web Services offers reliable, scalable, and inexpensive cloud computing services. Free to join, pay only for what you use.

[AWS Free Tier](#) · [AWS Management Console](#) · [Amazon EC2](#) · [AWS Lambda](#)

## AWS Accounts Include 12 Months of Free Tier Access

Including use of Amazon EC2, Amazon S3, and Amazon DynamoDB  
Visit [aws.amazon.com/free](https://aws.amazon.com/free) for full offer terms

### Create an AWS account

Email address

Password

Confirm password

AWS account name ⓘ

Continue

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

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<https://aws.amazon.com/free>

The screenshot displays the AWS Free Tier Details page. At the top, the AWS logo is on the left, and navigation links for 'Contact Sales', 'Support', 'English', 'My Account', and a 'Complete Sign Up' button are on the right. Below the navigation bar, there are three tabs: 'Free Tier Details', 'Get Started', and 'Free Tier Software'. The main heading is 'AWS Free Tier Details'. Below this, there are filter buttons: '★ FEATURED', '📅 12 MONTHS FREE', '🔄 ALWAYS FREE', '🕒 TRIALS', '📂 PRODUCT CATEGORIES', and '✓ ALL'. The page is divided into three columns. The first column is titled '12 months free and always free products' and includes a sub-header 'APPLY TO ALL AWS SERVICES'. The second column is titled '1 Million' and specifies 'API Calls Received per month' for Amazon API Gateway. The third column is titled '1 GB' and specifies 'of storage per month' for Amazon Cloud Directory. A yellow arrow points to the '1 Million' offer with the text 'Click Here'.

aws

Contact Sales Support English My Account Complete Sign Up

Products Solutions Pricing Learn Partner Network AWS Marketplace Explore More Q

Free Tier Details Get Started Free Tier Software

### AWS Free Tier Details

★ FEATURED 📅 12 MONTHS FREE 🔄 ALWAYS FREE 🕒 TRIALS 📂 PRODUCT CATEGORIES ✓ ALL

#### 12 months free and always free products

AWS Free Tier includes offers that expire 12 months following sign up and others that never expire.

[Learn more »](#)

#### 1 Million

API Calls Received per month

Publish, maintain, monitor, and secure APIs at any scale

[Learn more about Amazon API Gateway »](#)

#### 1 GB

of storage per month

Fully-managed, cloud-native directory building service for data with multiple hierarchies

[Learn more about Amazon Cloud Directory »](#)

## AWS Free Tier Details

★ FEATURED   📅 12 MONTHS FREE   ⚡ ALWAYS FREE   ⌚ TRIALS   🏷️ PRODUCT CATEGORIES   ✓ ALL

### 12 months free and always free products

AWS Free Tier includes offers that expire 12 months following sign up and others that never expire.

[Learn more »](#)

BUSINESS PRODUCTIVITY

**Amazon Chime**

# Unlimited

usage of Amazon Chime Basic

Amazon Chime is a modern unified communications service that offers frustration-free meetings with exceptional audio and video

[Learn more about Amazon Chime »](#)

DEVELOPER TOOLS

**Amazon CloudWatch**

# 10

10 custom metrics and 10 alarms

Monitoring for AWS cloud resources and applications

[Learn more about Amazon CloudWatch »](#)

## AWS Accounts Include 12 Months of Free Tier Access

Including use of Amazon EC2, Amazon S3, and Amazon DynamoDB  
Visit [aws.amazon.com/free](https://aws.amazon.com/free) for full offer terms

### Create an AWS account

Email address

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Confirm password

AWS account name ⓘ

Continue

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

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## Contact Information

All fields are required.

Please select the account type and complete the fields below with your contact details.

Account type ⓘ

☒ Professional ☐ Personal

Full name

datacumu

Company name

Phone number

Country/Region

United States

Address

Street, P.O. Box, Company Name, c/o

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

City

State / Province or region

Click Here

Please select the account type and complete the fields below with your contact details.

Account type ⓘ

☐ Professional ☒ Personal

Full name

datacumulus-new

Phone number

Country/Region

United States

Address

Street, P.O. Box, Company Name, c/o

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

City

State / Province or region

Postal code



Check here to indicate that you have read and agree to the terms of the [AWS Customer Agreement](#)



## Payment Information

Please type your payment information so we can verify your identity. We will not charge you unless your usage exceeds the [AWS Free Tier Limits](#). Review [frequently asked questions](#) for more information.

Credit/Debit card number

Expiration date

10	⌵	2018	⌵
----	---	------	---

Cardholder's name

Billing address

☐ Use a new address

Secure Submit

## Phone Verification

AWS will call you immediately using an automated system. When prompted, enter the 4-digit number from the AWS website on your phone keypad.

### Provide a telephone number

Please enter your information below and click the "Call Me Now" button.

Country/Region code

France (+33)

Phone number

Ext

Security Check

4y4ae7



Please type the characters as shown above

Call Me Now

## Select a Support Plan

AWS offers a selection of support plans to meet your needs. Choose the support plan that best aligns with your AWS usage. [Learn more](#)



### Basic Plan

Free

Click Here

- Best practice checks to help improve security and performance
- Access to health status and notifications



### Developer Plan

From \$29/month

- For early adoption, testing and development
- Email access to AWS Support during business hours
- 1 primary contact can open an unlimited number of support cases
- 2-hour response time for nonproduction systems



### Business Plan

From \$100/month

- For production workloads & business-critical dependencies
- 24/7 chat, phone, and email access to AWS Support
- Unlimited contacts can open an unlimited number of support cases
- 1-hour response time for production systems

### Need Enterprise level support?

Contact your account manager for additional information on running business and mission critical-workloads on AWS (starting at \$15,000/month). [Learn more](#)



## Sign in

Email address of your AWS account

Or to sign in as an IAM user, enter your account ID or account alias instead.

Next

New to AWS?

Create a new AWS account

# Amazon EC2 Spot Instances

Accelerate stateless and fault-tolerant production workloads up to 10X with inexpensive compute.

Learn more »



### About Amazon.com Sign In

Amazon Web Services uses information from your Amazon.com account to identify you and allow access to Amazon Web Services. Your use of this site is governed by our Terms of Use and Privacy Policy linked below. Your use of Amazon Web Services products and services is governed by the AWS Customer Agreement linked below unless you have entered into a separate agreement with Amazon Web Services or an AWS Value Added Reseller to purchase these products and services. The AWS Customer Agreement was updated on March 31, 2017. For more information about these updates, see [Recent Changes](#).

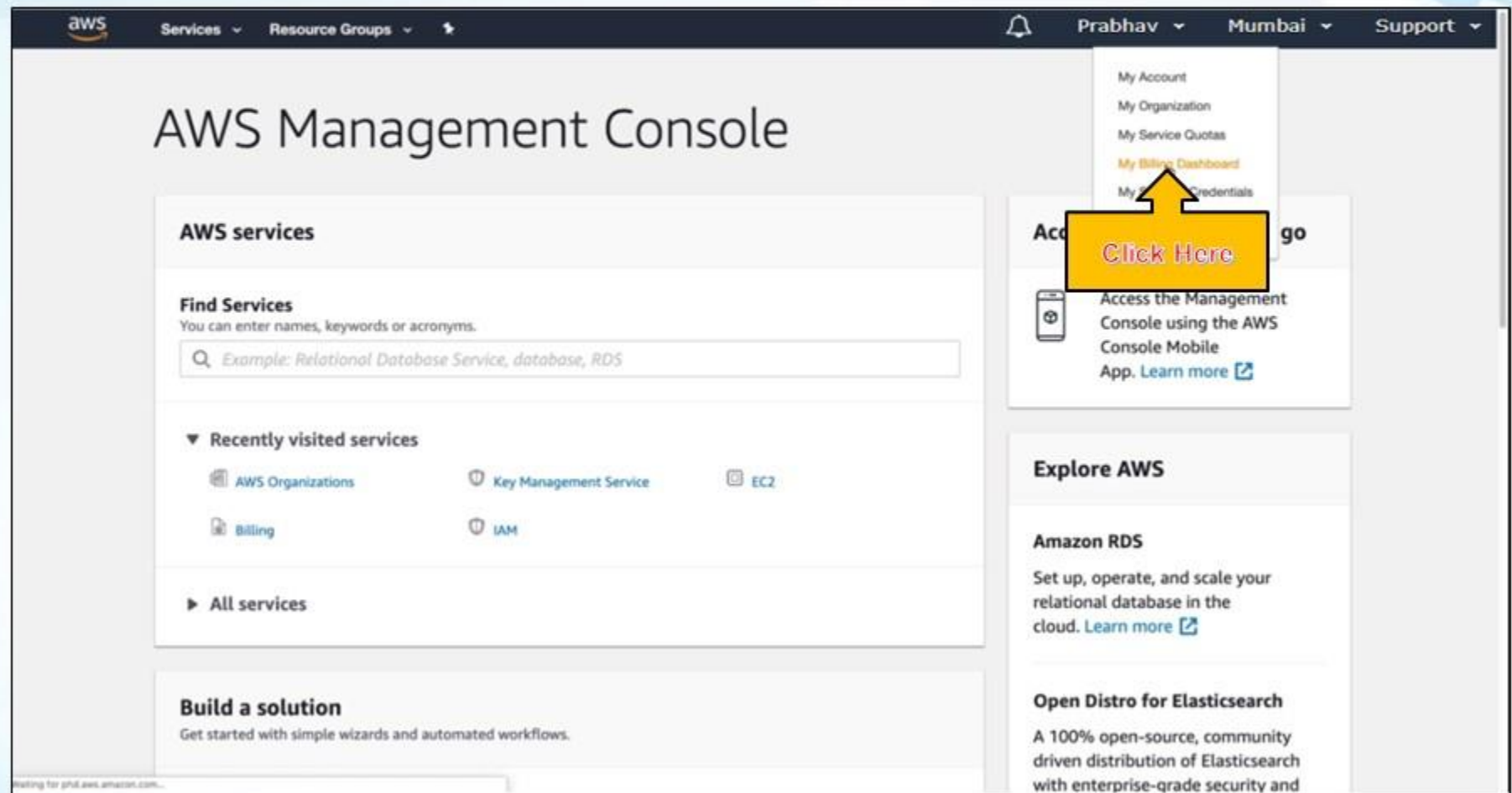
# AWS Budget Setup



## AWS Management Console

**By creating AWS budget you will get an email if your usage is above the free tier.**

# AWS Management Console



**AWS Management Console**

**AWS services**

**Find Services**  
You can enter names, keywords or acronyms.

Example: Relational Database Service, database, RDS

**Recently visited services**

- AWS Organizations
- Key Management Service
- EC2
- Billing
- IAM

**Build a solution**  
Get started with simple wizards and automated workflows.

**Explore AWS**

**Amazon RDS**  
Set up, operate, and scale your relational database in the cloud. [Learn more](#)

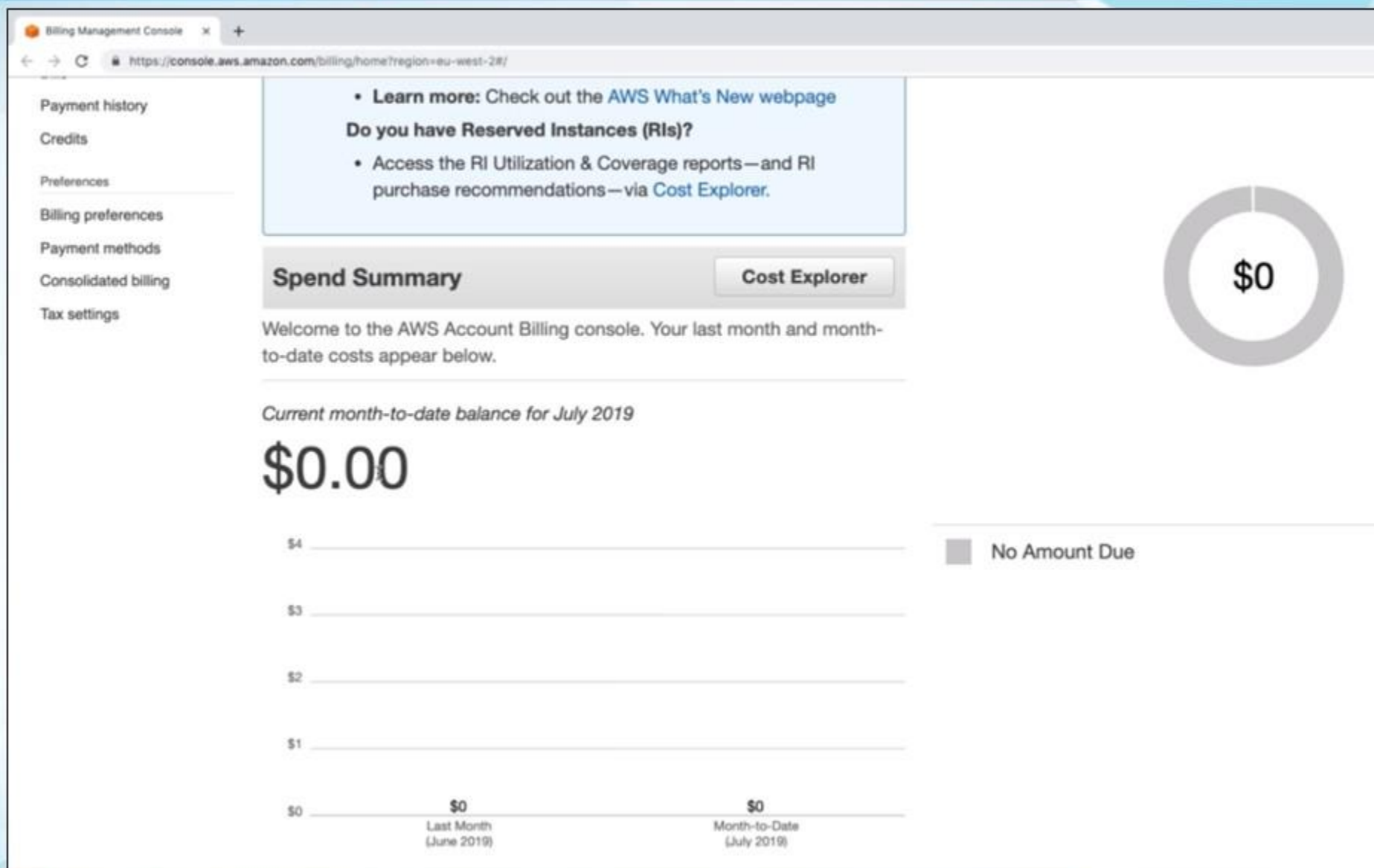
**Open Distro for Elasticsearch**  
A 100% open-source, community driven distribution of Elasticsearch with enterprise-grade security and

**User Menu:**

- My Account
- My Organization
- My Service Quotas
- My Billing Dashboard** (Click Here)
- My Security Credentials

**Mobile App Card:**

Access the Management Console using the AWS Console Mobile App. [Learn more](#)



# AWS Budgets

Services ▾
Resource Groups ▾

Prabhav ▾
Mumbai ▾
Support ▾

Home
Cost Management
Cost Explorer
**Budgets**
Cost Usage Reports

**AWS Budgets**

You currently have no budgets. AWS Budgets lets you quickly create custom budgets that will automatically alert you when your AWS costs or usage exceed, or are forecasted to exceed, the thresholds you set.

Create a budget

### Create and manage budgets

Set custom cost and usage budgets to more easily manage your AWS spend. Monitor your budget status from the Budgets Dashboard.

### Refine your budget using filters

Track your cost or usage across multiple dimensions by adding filters related to Service, Linked Account(s), Availability Zone, and more.

### Add notifications to your budget

Set up to five alert thresholds for each budget. Each alert can notify up to ten email recipients as well as publish updates to an Amazon SNS topic of your choice.

For more information, refer to the [Managing Your Costs With Budgets](#) section in the AWS Billing & Cost Management user guide.

Click Here

Services
Resource Groups

Prabhav
Mumbai
Support

Create a budget

Step 1

Step 2

Step 3

Step 4

Select budget type

Set your budget

Configure alerts

Confirm budget

?

Select budget type

Select which type of budget you would like to create.

☒

Cost budget

Monitor your costs against a specified dollar amount and receive alerts when your user-defined thresholds are met.

☐

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.

☐

Reservation budget


Track the RI Utilization or RI Coverage associated with your reservations. These budgets support Amazon EC2, RDS, Redshift, ElastiCache and Elasticsearch reservation models.

Cancel

Set your budget >



# Set your budget

 Services ▾ Resource Groups ▾ ↗

Create a budget ?

Step 1

Select budget type

Step 2

**Set your budget**

Step 3

Configure alerts

Step 4

Confirm budget

## Set your budget

Set your budget details, including your budgeted amount. From there, you can refine your budget using

### Budget details

**Name**

**Period**

Monthly ▾


**Budget effective dates**

Recurring budgets will renew on the first day of every monthly billing period. Expiring budgets will stop renewing on the last day of the month.

☒ Recurring Budget

☐ Expiring Budget

**Start Month**

 Jul 2019 ▾

### Budget amount

☒ **Fixed**  
Create a budget that tracks against a single monthly budgeted amount.

☐ **Monthly Budget Planning**  
Specify your budgeted amount for each budget period.

aws

Services

Resource Groups

### Budget effective dates

Recurring budgets will renew on the first day of every monthly billing period. Expiring budgets will stop renewing on the last day of the month.

☒ Recurring Budget

☐ Expiring Budget

Start Month

Jul 2019

### Budget amount

☒ Fixed

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

☐ Monthly Budget Planning

Specify your budgeted amount for each budget period.

Budgeted amount

\$10

Last month's cost \$0.00

### Budget parameters (optional)

▼ Filtering

Service	<a href="#">Include all</a>
Linked Account	<a href="#">Include all</a>
Region	<a href="#">Include all</a>
Instance Type	<a href="#">Include all</a>

#### Unblended costs (\$)

10

8

aws

Services

Resource Groups

☐ Expiring Budget

Start Month  

Jul 2019

Budget amount

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

☐ Monthly Budget Planning  
 Specify your budgeted amount for each budget period.

Budgeted amount

\$0.01

Last month's cost \$0.00

Budget parameters (optional)

Filtering

Service	<a href="#">Include all</a>
Linked Account	<a href="#">Include all</a>
Region	<a href="#">Include all</a>
Instance Type	<a href="#">Include all</a>
Usage Type	<a href="#">Include all</a>
Usage Type Group	<a href="#">Include all</a>

Unblended costs (\$)

1

0.8

0.6

0.4

Feedback

English (US)

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## ▼ Advanced Options

Aggregate costs by

Unblended costs ▼

Include costs related to

- ☒ Refunds
- ☒ Credits
- ☒ Upfront reservation fees
- ☒ Recurring reservation charges
- ☒ Other subscription costs
- ☒ Taxes
- ☒ Support charges

Cancel

< Select budget type

Configure alerts >

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Click Here

Billing Management Console x +

https://console.aws.amazon.com/billing/home?region=eu-west-2#/budgets/create/steps/3?advancedOptions=%7B%22includeTax%3Atrue%2C%22includeSubscription%3Atrue%2C%22useB

aws Services Resource Groups

Create a budget ?

Step 1  
Select budget type

Step 2  
Set your budget

Step 3  
Configure alerts

Step 4  
Confirm budget

## Configure alerts

You can send budget alerts via email and/or Amazon Simple Notification Service (Amazon SNS) topic. **one email contact or valid SNS topic ARN.**

**Budgeted amount** [Edit](#)  
\$0.01

### Alert 1

**Send alert based on:**

☒ Actual Costs  
☐ Forecasted Costs

**Alert threshold**

Notify the following contacts when **Actual Costs** is **Greater than -- (--)**

**Email contacts**

[Add email contact](#)

☐ Notify via Amazon Simple Notification Service (SNS) topic [Learn more](#)

[+ Add new alert](#)

Feedback English (US)

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aws

Services

Resource Groups

Step 1

Select budget type

Step 2

Set your budget

Step 3

Configure alerts

Step 4

Confirm budget

You can send budget alerts via email and/or Amazon Simple Notification Service (Amazon SNS) topic or valid SNS topic ARN.

**Budgeted amount** [Edit](#)

\$0.01

**Alert 1**

**Send alert based on:**

☒ Actual Costs

☐ Forecasted Costs

**Alert threshold**

100

% of budgeted amount ▼

Notify the following contacts when **Actual Costs** is **Greater than 100% (\$0.01)**

**Email contacts**

prabhav@pratian.com

[Add email contact](#)

☐ Notify via Amazon Simple Notification Service (SNS) topic [Learn more](#)

[+ Add new alert](#)

Budgeted amount [Edit](#)

\$0.01

### Alert 1

Send alert based on:

- ☒ Actual Costs  
☐ Forecasted Costs

Alert threshold

100

% of budgeted amount ▼

Notify the following contacts when **Actual Costs** is **Greater than 100% (\$0.01)**

Email contacts

prabhav@pratian.com

Add email contact

☐ Notify via Amazon Simple Notification Service (SNS) topic [Learn more](#)

+ Add new alert

Cancel

< Set up your budget

Confirm budget >

Click Here

Services ▾
Resource Groups ▾

Prabhav ▾
Mumbai ▾
Support ▾

Step 1  
Select budget type  
Step 2  
Set your budget  
Step 3  
Configure alerts  
Step 4  
Confirm budget

Please review your budget details and alerts settings. Then select Create to finish creating your budget.

### Cost budget

Monitor your costs against a specified dollar amount and receive alerts when your user-defined thresholds are met.

[Edit](#)

### Budget details

Name  
Learning AWS

Period  
Monthly

Start Date  
Jul 1, 2019

End Date  
-

Budgeted amount  
\$0.01

Advanced Options  
**Aggregate costs by:** Unblended costs

**Include costs related to:** Taxes, Support charges, Other subscription costs, Recurring reservation charges, Upfront reservation fees, Credits, Refunds

Feedback
English (US)

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[Terms of Use](#)

## Budget details

[Edit](#)

Name

Learning AWS

Period

Monthly

Start Date

Jul 1, 2019

End Date

-

Budgeted amount

\$0.01

Advanced Options

**Aggregate costs by:** Unblended costs

**Include costs related to:** Taxes, Support charges, Other subscription costs, Recurring reservation charges, Upfront reservation fees, Credits, Refunds

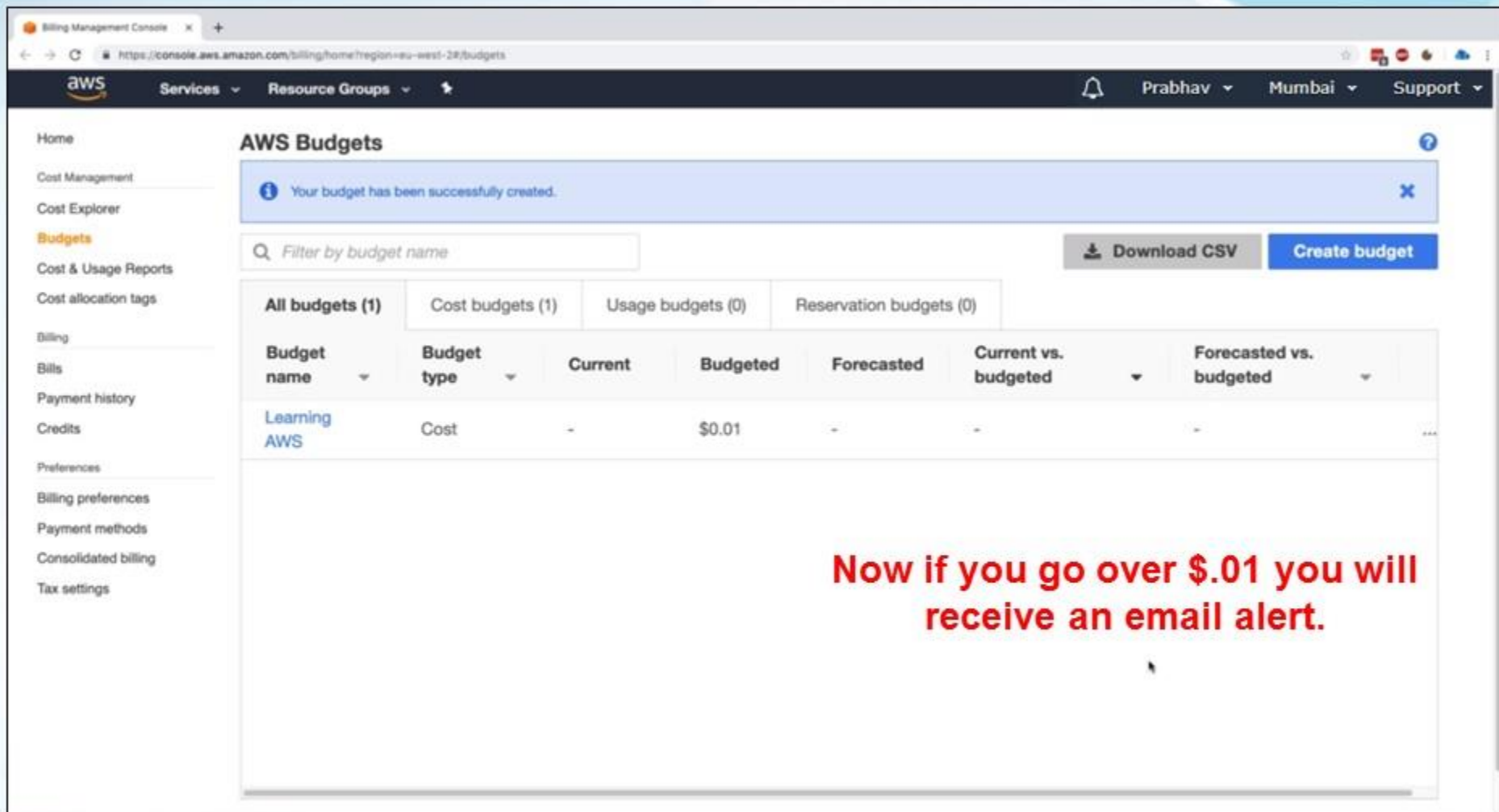
## Alerts

[Edit](#)

Alert 1

Actual Costs | Greater than 100% (\$0.01) | [1 contact](#)

[Cancel](#)[< Configure alerts](#)[Create](#)



**AWS Budgets**

ⓘ Your budget has been successfully created.

Filter by budget name

Download CSV Create budget

All budgets (1)				Cost budgets (1)	Usage budgets (0)	Reservation budgets (0)
Budget name	Budget type	Current	Budgeted	Forecasted	Current vs. budgeted	Forecasted vs. budgeted
Learning AWS	Cost	-	\$0.01	-	-	-

**Now if you go over \$.01 you will receive an email alert.**

# AWS Regions



## AWS Regions

- AWS has regions all around the world (us-east-1)
- Each region has availability zones (us-east-1a, us-east-1b...)
- Each availability zone is a physical data center in the region, but separate from the other ones (so that they're isolated from disasters)
- AWS Consoles are region scoped (except IAM and S3)

AWS Region  
(Sydney: ap-southeast-2)

ap-southeast-2a

ap-southeast-2b

ap-southeast-2c

## AWS services

Find a service by name or feature (for example, EC2, S3 or VM, storage).



### Recently visited services



EC2



VPC



CloudFormation

Click Here

## Build a solution

Get started with simple wizards and automated workflows.



Launch a virtual machine

With EC2

~2-3 minutes



Build a web app

With Elastic Beanstalk

~6 minutes



Build using virtual servers

With Lightsail

~1-2 minutes



Connect an IoT device

With AWS IoT

~5 minutes



Start a development project

With CodeStar

~5 minutes



Register a domain

With Route 53

~3 minutes

See more

## Learn to build

Learn to deploy your solutions through step-by-step guides, labs, and videos.

See all

Websites

DevOps

Backup and recovery

## Helpful tips



Manage your account

Monitor your AWS reservations using



Create an organization

Use AWS Organization management of multiple accounts now

## Explore AWS

Machine Learning with Amazon SageMaker

The fastest way to build, train, and deploy machine learning models. [Learn more.](#)

Amazon Relational Database Service (RDS)

RDS manages and scales your database for you. RDS supports Aurora, MySQL, PostgreSQL, MariaDB, Oracle, and SQL Server. [Learn more.](#)

AWS Fargate Runs Containers for You

AWS Fargate works with Amazon ECS to run and scale your containers for you. Pay only for the compute resources you need, scale quickly, and run any size application. [Learn more.](#)


US East (N. Virginia)  
US East (Ohio)  
US West (N. California)  
US West (Oregon)  
Asia Pacific (Mumbai)  
Asia Pacific (Seoul)  
Asia Pacific (Singapore)  
Asia Pacific (Sydney)  
Asia Pacific (Tokyo)  
Canada (Central)  
EU (Frankfurt)  
EU (Ireland)  
EU (London)  
**EU (Paris)**  
South America (São Paulo)

## Network Interfaces


🔄 Scheduled Events


**EU (Paris):**


No events


 Services ▾ Resource Groups ▾ ★


## AWS services



**IAM**  
Manage User Access and Encryption Keys

 VPC


 CloudFormation


**Click Here**


> All services


## Build a solution


Get started with simple wizards and automated workflows.


**Launch a virtual machine**  
With EC2  
~2-3 minutes

**Build a web app**  
With Elastic Beanstalk  
~6 minutes

**Build using virtual servers**  
With Lightsail  
~1-2 minutes

**Connect an IoT device**  
With AWS IoT  
~5 minutes

**Start a development project**  
With CodeStar  
~5 minutes

**Register a domain**  
With Route 53  
~3 minutes

See more

Services ▾

Resource Groups ▾

🏠

Search IAM

Dashboard

Groups

Users

Roles

Policies

Identity providers

Account settings

Credential report

Encryption keys

Welcome to Identity and Access Management

IAM users sign-in link:  
<https://367124123361.signin.aws.amazon.com/console>

IAM Resources

Users: 0

Groups: 0

Customer Managed Policies: 0

Roles: 2

Identity Providers: 0

Security Status

Delete your root access keys

▼

Activate MFA on your root account

▼

Create individual IAM users

▼

Use groups to assign permissions

▼

Apply an IAM password policy

▼

1 out of 5 complete.

Feature Spotlight

Introduction to IAM

0:00 / 2:18

◀

● ● ● ● ●

▶

Additional Information

[IAM best practices](#)

[IAM documentation](#)

[Web Identity Federation Playground](#)

[Policy Simulator](#)

[Videos, IAM release history and additional resources](#)

Prabhav ▾

Global ▾

Support ▾

Click Here



Prabhav ▾
Global ▾
Support ▾

Feature

Customize

1 out of 5 complete.

▼

▼

▼

▼

▼

IAM does not require region selection.

US East (N. Virginia)

US East (Ohio)

US West (N. California)

US West (Oregon)

Asia Pacific (Mumbai)

Asia Pacific (Seoul)

Asia Pacific (Singapore)

Asia Pacific (Sydney)

Asia Pacific (Tokyo)

Canada (Central)

EU (Frankfurt)

EU (Ireland)

EU (London)

EU (Paris)

South America (São Paulo)

Additional

IAM best
IAM doc
Web Ide
Policy S
Videos,
resource





## ABOUT AWS

[About AWS](#) >[Global Infrastructure](#) >[What's New](#) >[AWS in the News](#) >[Events & Webinars](#) >

## RELATED LINKS

[What is Cloud Computing?](#)[AWS Free Usage Tier](#)[AWS Blog](#)[AWS Careers](#)[AWS Training](#)[Manage Your Resources](#)[Sign In to the Console](#)

## AWS Global Infrastructure

The AWS Cloud spans 55 Availability Zones within 18 geographic Regions and 1 Local Region around the world, with announced plans for 12 more Availability Zones and four more Regions in Bahrain, Hong Kong SAR, Sweden, and a second AWS GovCloud Region in the US.

### AWS Regions and Availability Zones

The AWS Cloud Infrastructure is built around Regions and Availability Zones (AZs). AWS Regions provide multiple, physically separated and isolated Availability Zones which are connected with low latency, high throughput, and highly redundant networking. These Availability Zones offer AWS customers an easier and more effective way to design and operate applications and databases, making them more highly available, fault tolerant, and scalable than traditional single datacenter infrastructures or multi-datacenter infrastructures. For customers who specifically need to replicate their data or applications over greater geographic distances, there are AWS Local Regions. An AWS Local Region is a single datacenter designed to complement an existing AWS Region. Like all AWS Regions, AWS Local Regions are completely isolated from other AWS Regions. The AWS Cloud spans 55 Availability Zones within 18 geographic Regions and one Local Region around the world.

### Global Infrastructure



<https://aws.amazon.com/about-aws/global-infrastructure/>





## Region & Number of Availability Zones

### US East

N. Virginia (6),  
Ohio (3)

### US West

N. California (3),  
Oregon (3)

### Asia Pacific

Mumbai (2),  
Seoul (2),  
Singapore (3),

### China

Beijing (2),  
Ningxia (3)

### Europe

Frankfurt (3),  
Ireland (3),  
London (3),  
Paris (3)

### South America

São Paulo (3)



## New Region (coming soon)

Bahrain

Hong Kong  
SAR, China

Sweden

AWS GovCloud  
(US-East)

# Thank You