



# Getting Started with AWS



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# Introduction to AWS



# Introduction to AWS

## What is AWS?



- AWS stands for **Amazon Web Services**.
- Amazon Web Services (AWS) is the world's most comprehensive and broadly adopted **Cloud Platform**.



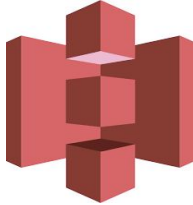
# Introduction to AWS

## What is AWS?

IAM



S3



EC2



Cloudformation



Elastic  
Beanstalk

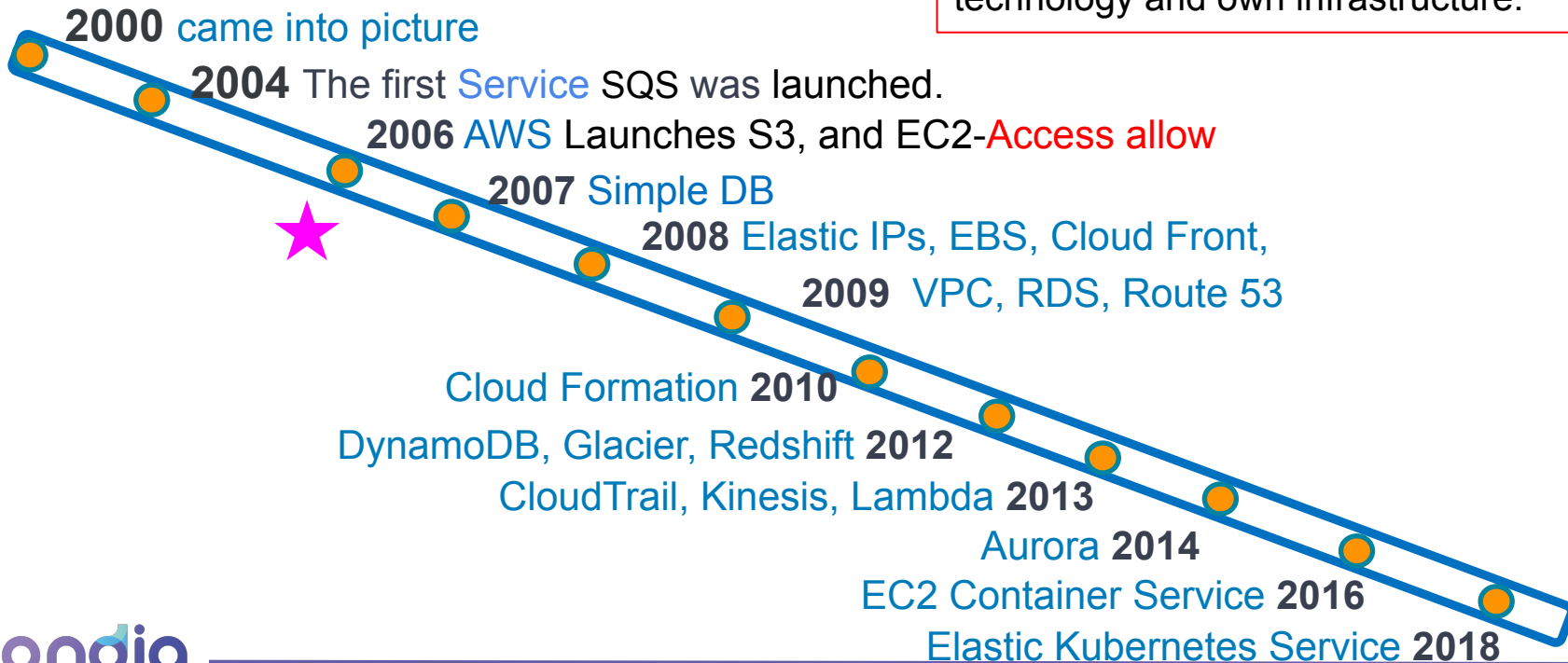


- AWS provides **on-demand** delivery of **technology services** via internet.
- It offers **over 200** fully featured services.

# Introduction to AWS

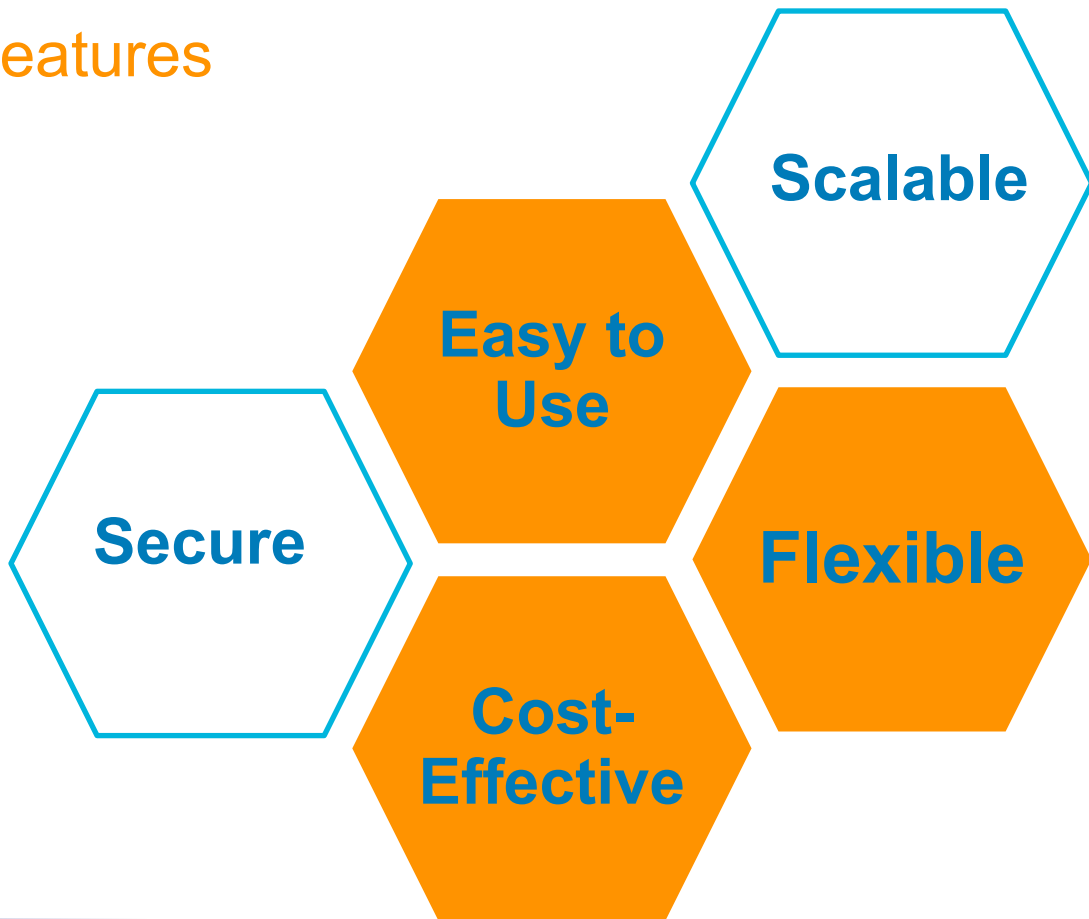
## History of AWS

AWS launched its **first service in 2004**. Over the years, many new services were put into service. But in this diagram, **the real breaking point started in 2006**, when AWS allowed developer begin to access to Amazon's own back-end technology and own infrastructure.



# Introduction to AWS

## AWS Features



# Introduction to AWS

## AWS Market Share



**AWS 31%**  
**Azure 20%,**  
**Google Cloud 12%,**  
**Alibaba Cloud 4%**  
**Oracle 3%.**

[www.statista.com](http://www.statista.com)







# Introduction to AWS

## AWS Pros

- Many featured services and largest global infrastructure.
- Most comprehensive and broadly adopted provider.
- Pay-as-you-go.
- High availability and scalability.



# Introduction to AWS

## AWS Cons

- Complex service functionalities can be a challenge for beginners.
- Billing can be confusing.
- Some services can be costly in comparison to others.





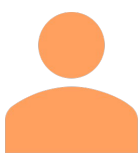
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# What does AWS offer?

# What does AWS offer?

## AWS Services





Staff



customer

www.e-commerce...



CloudFront



AWS  
Lambda

VPC



Web Server work in EC2  
machine

(**nginx-apache httpd**)

- Auto Scaling
- Load Balancing

- Register domain name  
of the website
- Publishing on Internet
- Routing policies

- Best seller images,  
Inventory List etc.
- Data Log

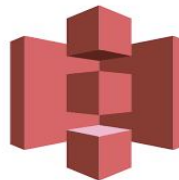
- Customer info
- System Backups



EC2



AWS  
Route 53



S3



RDS



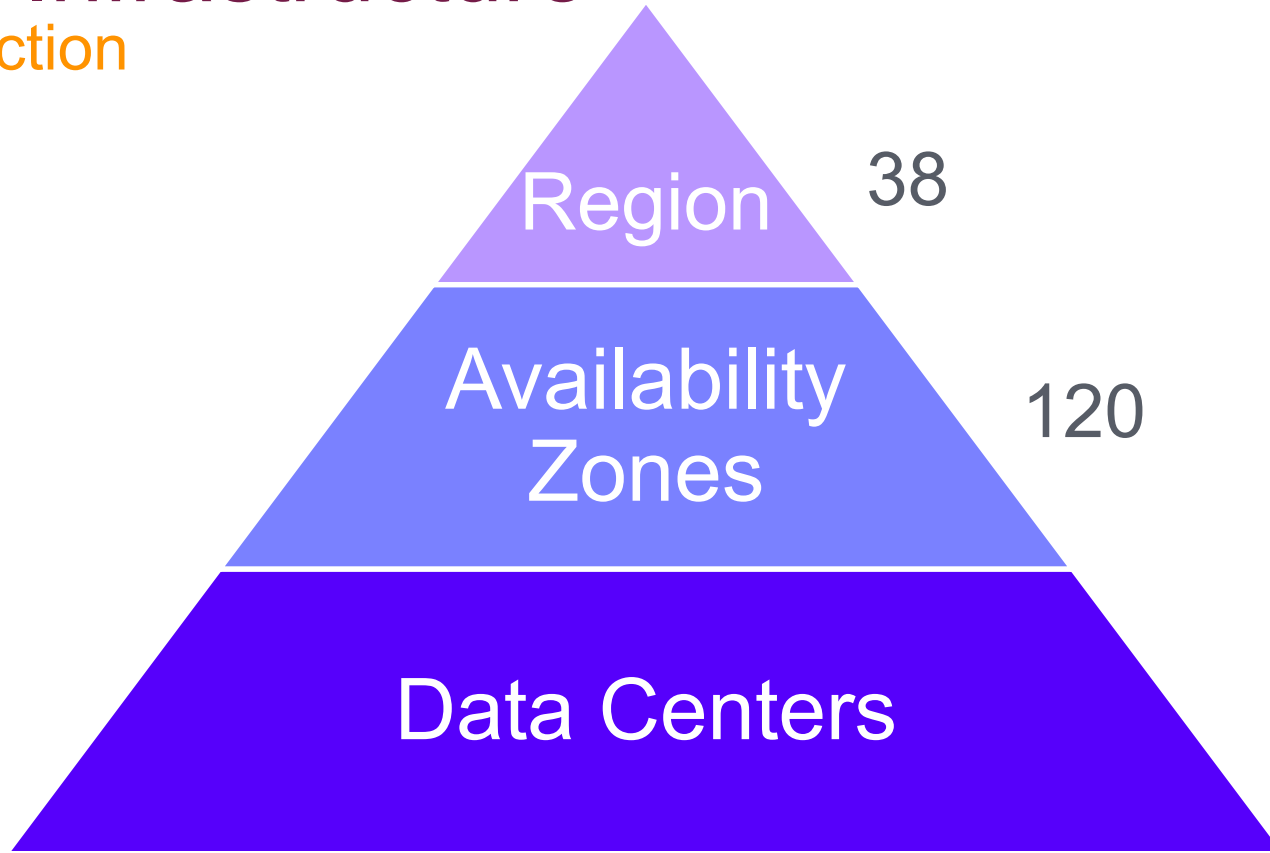


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# AWS Infrastructure

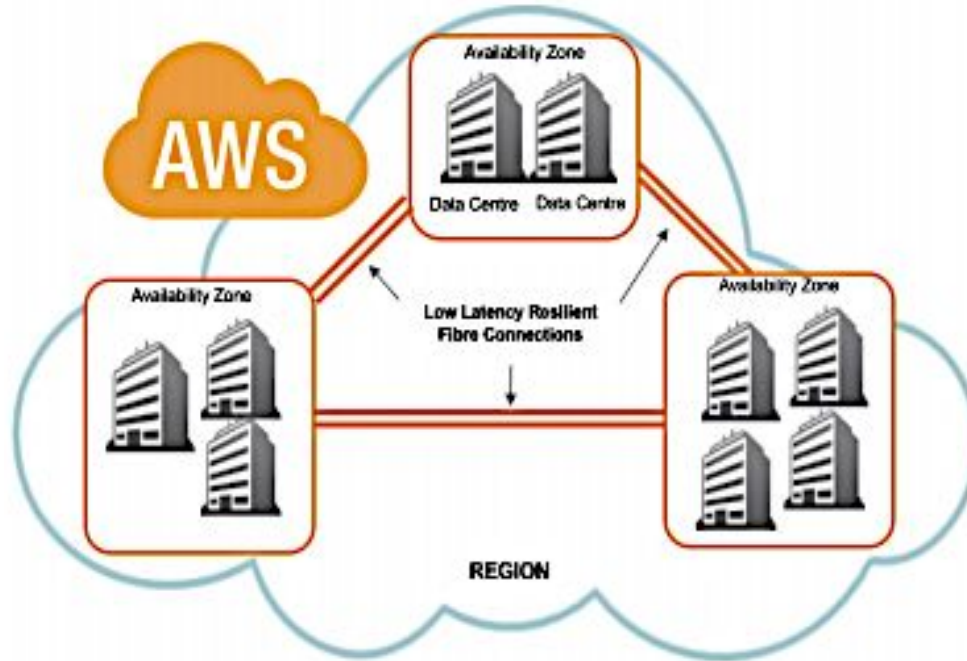
# AWS Infrastructure

## Introduction



# AWS Infrastructure

## Introduction



- Multiple Availability Zones in AWS Region
- Availability Zones consist of one or more discrete Data Centers



# AWS Infrastructure

## AWS Regions

### 38 Geographic Regions



N. Virginia is the region with the most service-support. In the other regions, not all [services](#) of AWS are in progress.



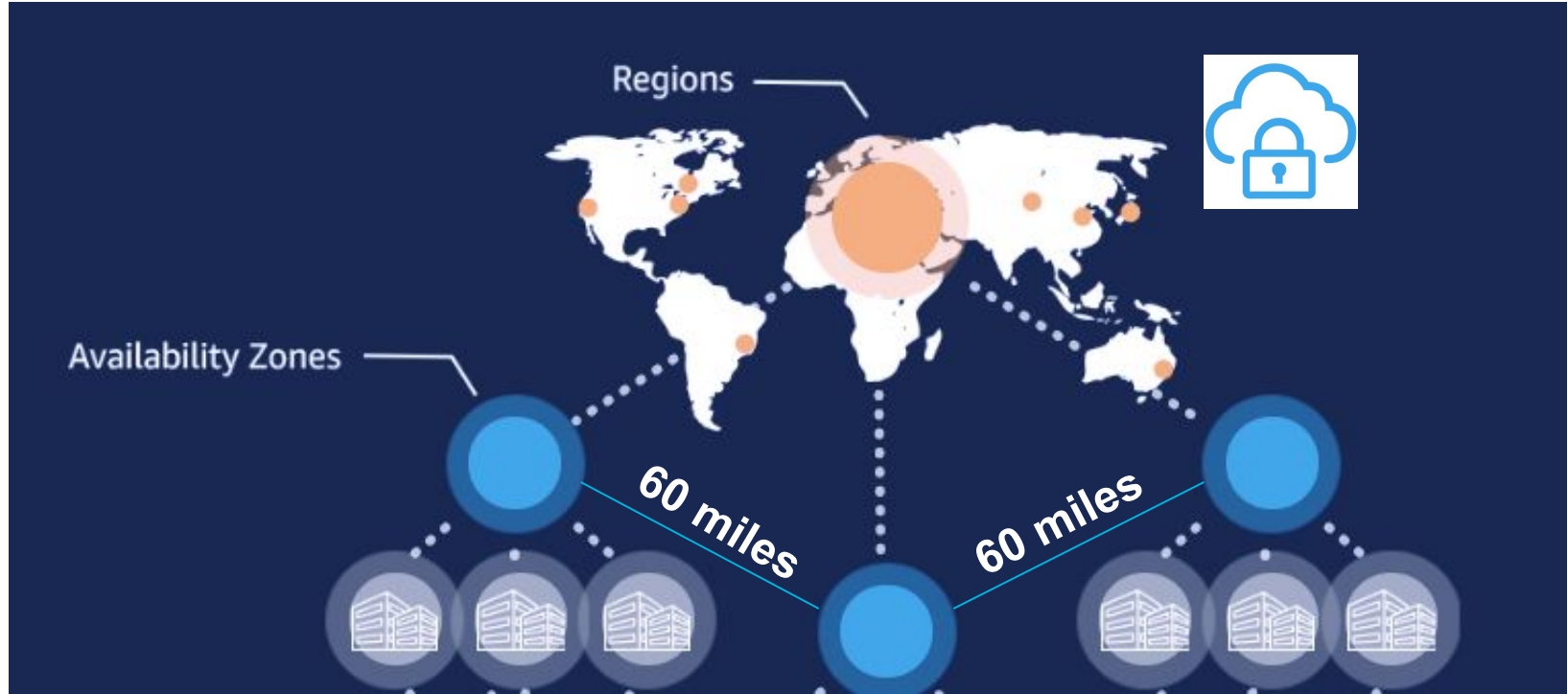
Current Regions



New Regions coming soon

# AWS Infrastructure

## AWS Availability Zones



# AWS Infrastructure

## AWS Availability Zones



- An Availability Zone is a facility where the data centers are located.
- There are currently 120 Availability Zones (as of Sep 2025).
- All AZ's in an AWS region are interconnected with metro fiber.
- All traffic between AZ's is encrypted.
- AZ's are physically separated by a meaningful distance, many kilometers, from any other AZ, although all are within 100 km (60 miles of each other).

# AWS Infrastructure

## AWS Data Centers



- The data center infrastructure consists of **physical or hardware-based tools and components**.
- AWS data centers are **secure** by design.

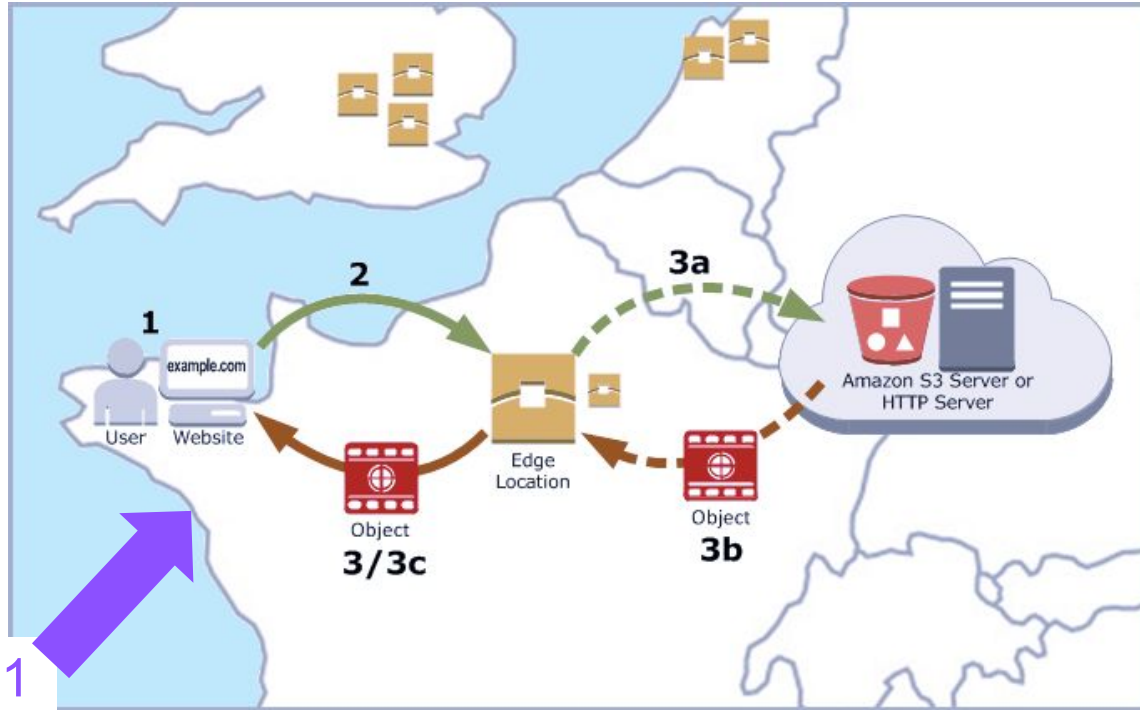


Northern Virginia Data Center

# AWS Infrastructure

## Edge Locations

- An edge location is where end-users access services located at AWS and used for **caching content**.
- **700+** Edge Locations



First Query : 1-2-3a-3b-3c-1

Second Query : 1-2-3-1



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# AWS Free Tier

# AWS Free Tier



**July 15th, 2025**

**Before**

**After**

## Legacy Free Tier

*(For accounts created before July 15, 2025)*

12 months + always-free services

No credits provided

No auto-closure

## New Free Plan

*(For accounts created on or after July 15, 2025)*

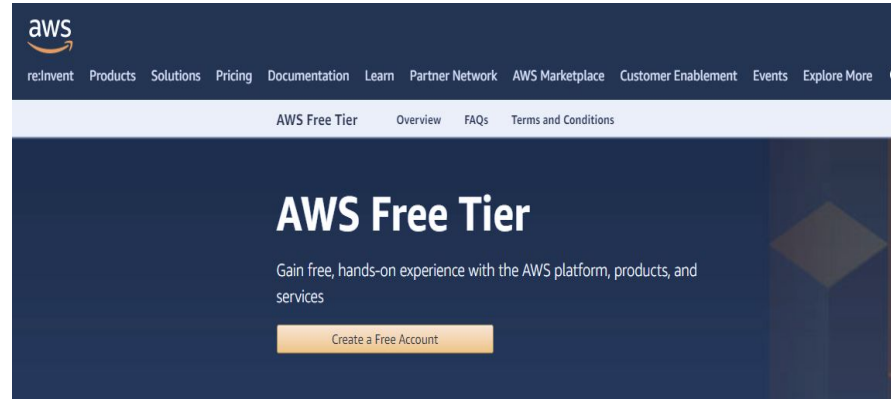
\$100 signup credit + earn up to \$100 more

6-month limit or until credits are used up

Auto-close after expiration

# AWS Free Tier

## What is AWS Free Tier?



- The AWS free tier is a account type that lets you gain free, hands-on experience with AWS products and services.
- The AWS free tier provides customers the ability to explore and try out AWS services free of charge up to specified limits for each service.



# AWS Free Tier

## Free Tier Offer Types



The Free Tier (Legacy) is comprised of three different types of offerings;

- Services with a **12-month free tier** allow customers to use the product for free up to specified limits for one year from the date the account was created.
- Services with an **always free** offer allow customers to use the product for free up to specified limits as long as they are an aws customer.
- Services with a **short term trial** are free to use for a specified period of time or up to a one-time limit depending on the service selected.

# AWS Free Tier

## Billing Policy



- You are recommended to set a **billing alarm** to stay within the limits.
- If your application use exceeds the free tier limits, you simply pay standard, **pay-as-you-go service rates**.
- AWS Free Tier is applied to your **monthly usage**. It will expire on the 1st day of each month and does not accumulate.



# AWS Free Tier

## New Free Tier



### Free (6 months)

Learn, experiment, and build prototypes

- ✓ Receive up to \$200 in credits
- ✓ Includes free usage of select services
- ✗ Workloads scale beyond credit thresholds
- ✗ Access to all AWS services and features

ⓘ After the 6 month free period or when all credits are used, you can choose to upgrade to a paid plan. Otherwise, your account closes automatically.

Choose free plan



### Paid

Develop production-ready workloads

- ✓ Receive up to \$200 in credits
- ✓ Includes free usage of select services
- ✓ Workloads scale beyond credit thresholds
- ✓ Access to all AWS services and features

ⓘ After all of your credits are used, you are charged using pay-as-you-go pricing.

Choose paid plan



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# Creating AWS Free Tier



# ▶ Creating AWS Free Tier

- First, Enter the browser: <https://aws.amazon.com/free>
- Then click, "**Create Free Account**"

← → ↻ <https://aws.amazon.com/free> [Icons]

**aws** Contact Sales Support ▾ English ▾ My Account ▾ [Sign In to the Console](#)

Products Solutions Pricing Documentation Learn Partner Network AWS Marketplace Customer Enablement Events Explore More 🔍

**AWS Free Tier** Overview FAQs Terms and Conditions

## AWS Free Tier

Gain free, hands-on experience with the AWS platform, products, and services

[Create a Free Account](#)



# ▶ Creating AWS Free Tier

- On clicking on the **"Create Free Account"** button, the following screen appears that requires some fields to be filled by the user including **email address, password and account name.**

## Create an AWS account

Email address

example@clarusway.com

Password

.....

Confirm password

.....

AWS account name ⓘ

awsdevopsteam

Continue

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

# Creating AWS Free Tier

- Select "**Personal**" as an account Type and then fill your contact information.

## Contact Information

All fields are required.

Account type ⓘ

☐ Professional ☒ **Personal**

Full name

awsdevopsteam

Phone number

1234567889

Country/Region

United States

Address

XXXXXXXXXX

XXXXXXXXXX

City

XXXXXXXXXX

State / Province or region

XXXXXXXXXX

Postal code

XXXXXXXXXX

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

Create Account and Continue

# Creating AWS Free Tier

- Fill your payment information.

## Payment Information

We use your payment information to verify your identity and only for usage in excess of the [AWS Free Tier Limits](#). We will not charge you for usage below the AWS Free Tier Limits. For more information, see the [frequently asked questions](#).



When you submit your payment information, we will charge \$1 USD/EUR to your credit card as a verification charge to ensure your card is valid. The amount may show as pending in your credit card statement for 3-5 days until the verification is completed, at which time the charge will be removed. You may be redirected to your bank website to authorize the verification charge.

Credit/Debit card number

XXXXXXXXXX

Expiration date

xx

xxxx

Cardholder's name

Xxxxxx. XXXXX

Billing address

☒ Use my contact address

☐ Use a new address

Verify and Add





# Creating AWS Free Tier

- Confirm your identity by entering **your phone** number and code displayed in the captcha.
- Choose "Contact me".
- If you chose to verify your account by SMS, choose "Send SMS" instead, like in the picture.
- Then enter the PIN you receive by text message or voice call, and then choose "Continue".

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.

Country or region code

United States (+1)

Cell Phone Number

(123) 4567899

Security check

6nnncap

Send SMS

# Creating AWS Free Tier

- After verification, select the support Plan. Choose the **"Basic Plan"** which is free.



### 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	Developer Plan	Business Plan
Free	From \$29/month	From \$100/month
<ul style="list-style-type: none"> <li>Included with all accounts</li> <li>24/7 self-service access to forums and resources</li> <li>Best practice checks to help improve security and performance</li> <li>Access to health status and notifications</li> </ul>	<ul style="list-style-type: none"> <li>For early adoption, testing and development</li> <li>Email access to AWS Support during business hours</li> <li>1 primary contact can open an unlimited number of support cases</li> <li>12-hour response time for nonproduction systems</li> </ul>	<ul style="list-style-type: none"> <li>For production workloads &amp; business-critical dependencies</li> <li>24/7 chat, phone, and email access to AWS Support</li> <li>Unlimited contacts can open an unlimited number of support cases</li> <li>1-hour response time for production systems</li> </ul>



# THANKS!

## Any questions?

You can find me at:

- @Guile - Instructor

