

Getting Started with AWS



# Table of Contents



- Introduction to AWS
- What does AWS offer?
- AWS Infrastructure
- AWS Free Tier
- Creating an AWS Account









What is AWS?



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





#### What is AWS?



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



**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.

2000 came into picture

**2004** The first Service SQS was launched.

2006 AWS Launches S3, and EC2-Access allow

2007 Simple DB

2008 Elastic IPs, EBS, Cloud Front,

**2009** VPC, RDS, Route 53

Cloud Formation 2010

DynamoDB, Glacier, Redshift 2012

CloudTrail, Kinesis, Lambda 2013

**Aurora 2014** 

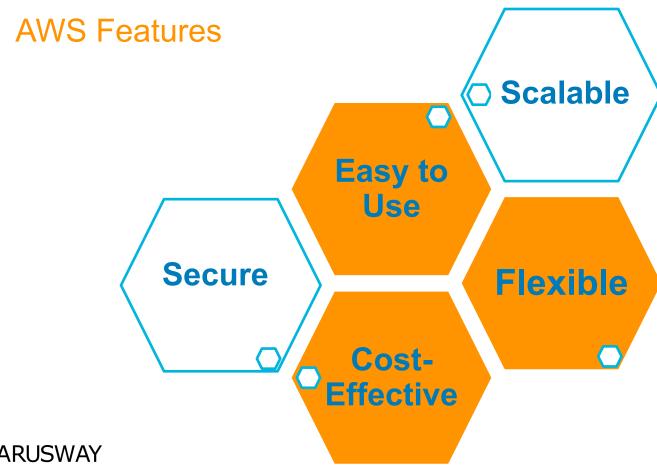
EC2 Container Service 2016

Elastic Kubernetes Service 2018









#### **AWS Market Share**

**AWS** 32.4%

**Azure** 17.6%,

Google Cloud 6%,

Alibaba Cloud 5.4%

Others 38.5%.





#### **AWS Pros**

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



#### **AWS Cons**

- Complex service functionalities can be a challenge for beginners.
- Billing can be confusing.
- Common cloud computing cons.







# 2 What does AWS offer?



#### What does AWS offer?

#### **AWS Services**









www.e-commerce...















**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







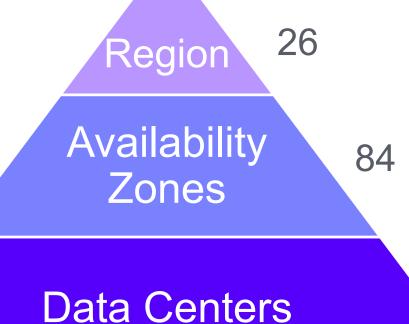


**RDS** 





Introduction







Availability Zone

Availability Zone

Low Latency Rosilient
Fibre Connections

Availability Zone

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

REGION

WAY TO REINVENT YOURSELF

#### **AWS Regions**

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







New Regions coming soon



17

#### AWS Availability Zones





#### **AWS Availability Zones**

- An Availability Zone is a facility where the data centers are located.
- There are currently 84 Availability Zones (as of Aug 2022).
- 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 Data Centers**

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

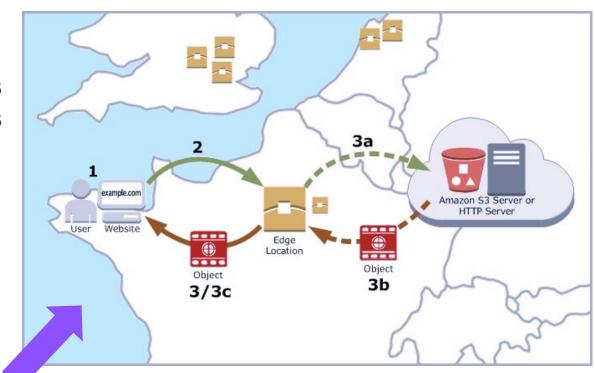


**Northern Virginia Data Center** 



#### **Edge Locations**

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



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

Second Query: 1-2-3-1

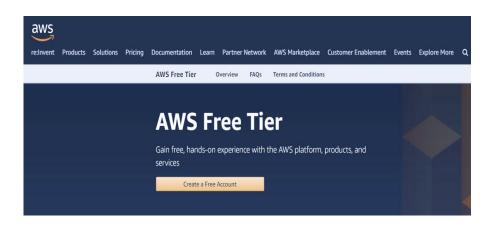


# 4 AWS Free Tier



# 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.





The Free Tier 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.

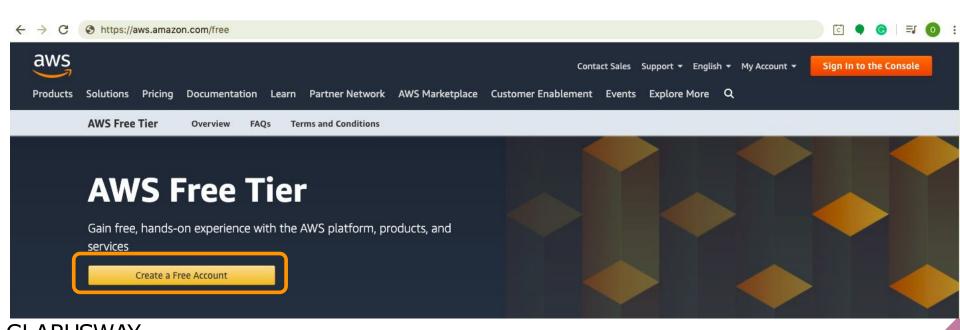




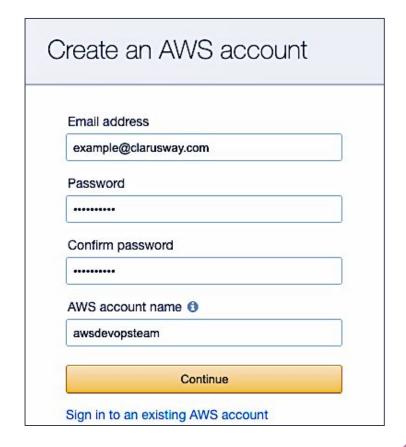




- First, Enter the browser: <a href="https://aws.amazon.com/free">https://aws.amazon.com/free</a>
- Then click, "Create Free Account"



 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.

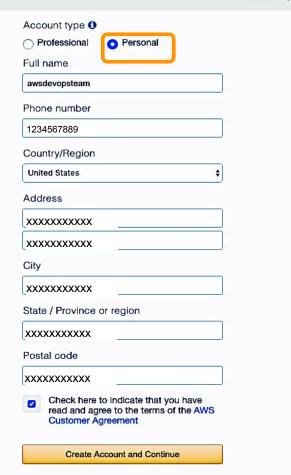




 Select "Personal" as an account Type and then fill your contact information.



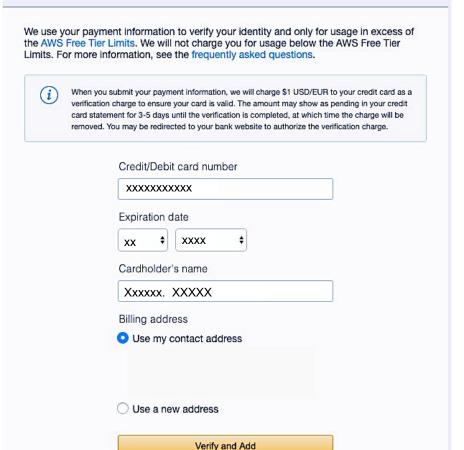
All fields are required.





#### Payment Information

Fill your payment information.



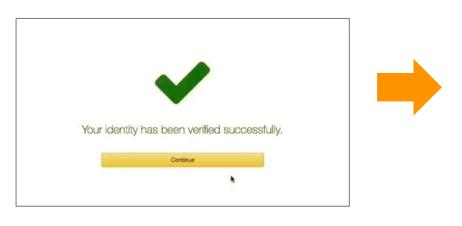
- Confirm your identity by entering your phone number and code displayed in the captcha.
- Choose "Contact me ".
- If you chose to verify your account by SMS, choose "Send SMS" instead, like in the picture.
- Then enter the PIN you receive by text message or voice call, and then choose "Continue".

#### 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 C 6nncap Send SMS

CL ARUSWAY

WAY TO REINVENT YOURSELF

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









# THANKS! >

## **Any questions?**

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