

Chapter 2



Working AWS Account

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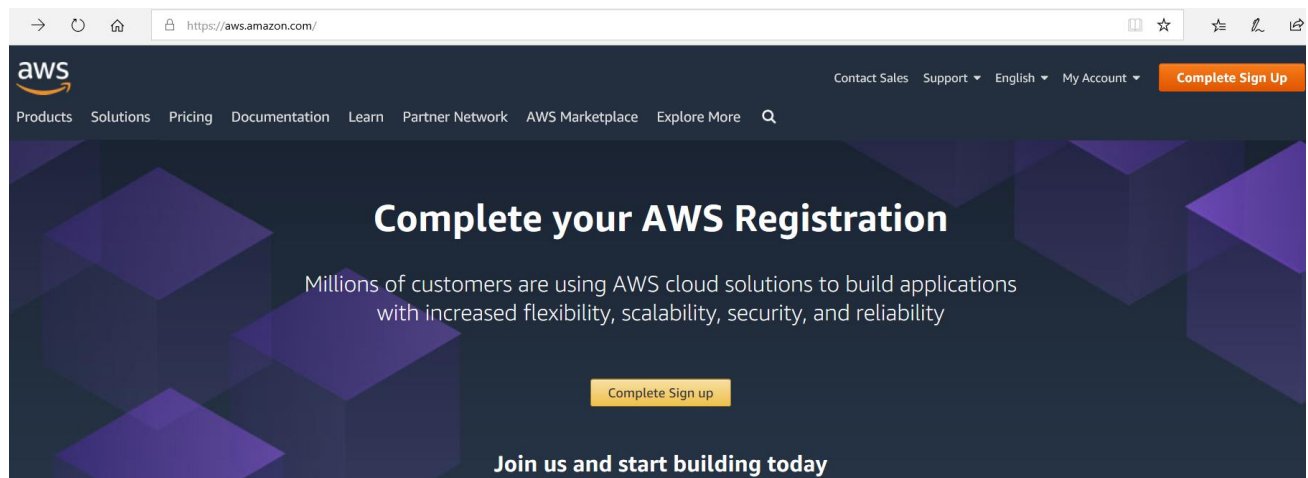
❖ AWS Account

- ✍ Create your account
- ✍ Choose Create an AWS Account.
- ✍ Enter your account information, and then choose Continue.
- ✍ Choose Personal or Professional.
- ✍ Enter your company or personal information.
- ✍ Read and accept the AWS Customer Agreement.
- ✍ Choose Create Account and Continue.

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Creating AWS Account

<https://aws.amazon.com>



❖ About AWS Free Tier

- ✎ After opening the account, AWS provides free tier for first 12 months.
- ✎ In these period, you can experiment and learn the light versions of most AWS services.

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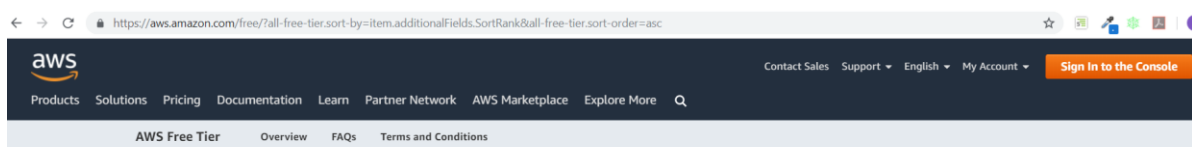
After opening the account, AWS provides free tier for first 12 months.

In these period, you can experiment and learn the light versions of most AWS services.

AWS provides three types of free services:

1. The 12-Month Free Tier
2. Always Free Services
3. Trials

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



Types of offers

Explore more than 60 products and start building on AWS using the free tier. Three different types of free offers are available depending on the product used. See below for details on each product.



Always free

These free tier offers do not expire and are available to all AWS customers



12 months free

Enjoy these offers for 12-months following your initial sign-up date to AWS



Trials

Short-term free trial offers are available through many different software solutions

❖ AWS Pricing

🔗 Each AWS services has an individual pricing on a dedicated web page.

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AWS S3 Pricing


<https://aws.amazon.com/s3/pricing>

Storage pricing	
Region:	US East (Ohio) ▾
	Pricing
S3 Standard Storage	
First 50 TB / Month	\$0.023 per GB
Next 450 TB / Month	\$0.022 per GB
Over 500 TB / Month	\$0.021 per GB
S3 Standard-Infrequent Access (S3 Standard-IA) Storage	
All storage / Month	\$0.0125 per GB
S3 One Zone-Infrequent Access (S3 One Zone-IA) Storage	
All storage / Month	\$0.01 per GB
S3 Glacier Storage	

AWS EC2 Pricing

<https://aws.amazon.com/ec2/pricing>

→ ↺ 🔒 <https://aws.amazon.com/ec2/pricing/>

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Amazon EC2 pricing

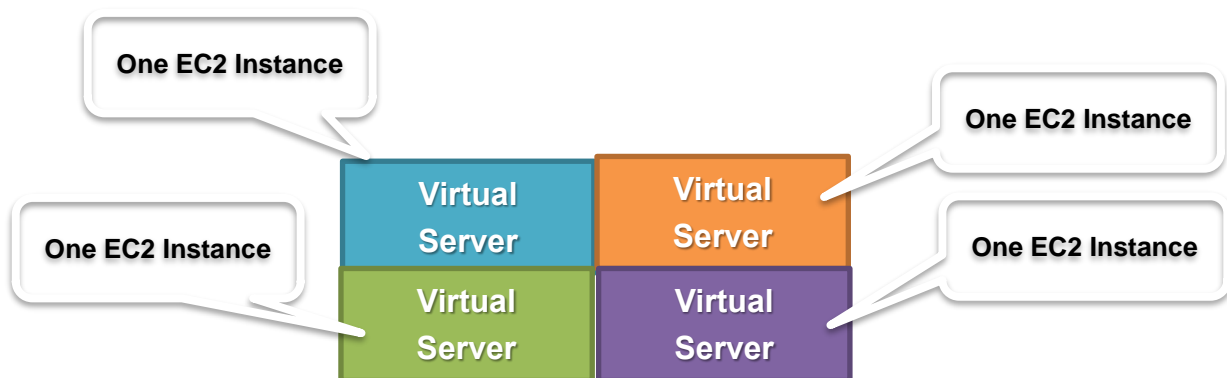
❖ What is EC2 Instance?

- ✎ An EC2 (Amazon Elastic Compute Cloud) instance is a **virtual computing environment (virtual Server)**.
- ✎ It is used to execute application on AWS infrastructure.

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An EC2 (Amazon Elastic Compute Cloud) instance is a virtual computing environment (virtual Server).

It is used to execute application on AWS infrastructure.



❖ AWS Online Price Calculator

- ✎ AWS provides two price modeling tools:
1. Simple Monthly Calculator
 2. Total Cost of Ownership (TCO) Calculator

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It is not easy to estimate or predict the correct price when you go complicated multi level deployment.

AWS provides two price modeling tools:

1. Simple Monthly Calculator
2. Total Cost of Ownership (TCO) Calculator

The running total monthly amount will be updated in the Estimate of your Monthly Bill (\$0.00) tab at the top of the page.

☑ FREE USAGE TIER: New Customers get free usage tier for first 12 months

Reset All

Services **Estimate of your Monthly Bill (\$ 0.00)**

Choose region: Asia Pacific (Mumbai) Inbound Data Transfer is Free and Outbound Data Transfer is Free

Amazon EC2 Amazon Elastic Compute Cloud (Amazon EC2) is a web service that provides resizable compute capacity in the cloud. It is designed to make web-scale computing easy for you. Amazon Elastic Block Store (EBS) provides persistent storage to Amazon EC2 instances.

Amazon S3

Amazon Route 53

Amazon CloudFront

Amazon RDS

Amazon Elastic Load Balancing

Amazon DynamoDB

Amazon ElastiCache

Amazon CloudWatch

Amazon SES

Compute: Amazon EC2 Instances:

Description	Instances	Usage	Type	Billing Option	Monthly Cost
+ Add New Row					

Compute: Amazon EC2 Dedicated Hosts:

Description	Number of Hosts	Usage	Type	Billing Option
+ Add New Row				

Storage: Amazon EBS Volumes:

Description	Volumes	Volume Type	Storage	IOPS	Baseline Throughput	Snapshot Storage
+ Add New Row						

❖ AWS Total Cost of Ownership Calculator

- ✂ AWS helps you reduce Total Cost of Ownership (TCO) by reducing the need to invest in large capital expenditures and providing a pay-as-you-go model that empowers you to invest in the capacity you need and use it only when the business requires it.
- ✂ Our TCO calculators allow you to estimate the cost savings when using AWS and provide a detailed set of reports that can be used in executive presentations.

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<https://aws.amazon.com/tco-calculator/>

It shows you the difference between the current hosting cost and cost on AWS.

→ ↺ <https://aws.amazon.com/tco-calculator/>

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ABOUT AWS

TCO Calculator

RELATED LINKS

What is Cloud Computing?

AWS Free Usage Tier

AWS Total Cost of Ownership (TCO) Calculators

AWS helps you reduce Total Cost of Ownership (TCO) by reducing the need to invest in large capital expenditures and providing a pay-as-you-go model that empowers you to invest in the capacity you need and use it only when the business requires it.

Our TCO calculators allow you to estimate the cost savings when using AWS and provide a detailed set of reports that can be used in executive presentations. The calculators also give you the option to modify assumptions that best meet your business needs.

AWS Total Cost of Ownership (TCO) Calculator

Use this new calculator to compare the cost of your applications in an on-premises or traditional hosting environment to AWS. Describe your on-premises or hosting environment configuration to produce a detailed cost comparison with AWS.

What type of environment are you comparing against?
What AWS region is best for your geo-region needs?
Separate out your computing physical servers or virtual machines?
Physical Servers Virtual Machines
App Name Server CPU Resources Application Size SaaS SaaS VaaS VaaS SaaS VaaS
Storage Storage Type AWS Storage Class Size Backup Frequency Backup to AWS
Usage Type AWS Storage Class Size Backup Frequency Backup to AWS

Summary

You could save **65%** a year by moving your infrastructure to AWS.
Your three year total savings would be **\$ 654,904**

Calculations

Methodology

Assumptions

FAQ

1. Describe your existing or planned on-premises or hosting infrastructure in four steps, or enter detailed configurations.

2. Get an instant summary report which shows you the three year TCO comparison by cost categories.

3. Download a full report including detailed cost breakdowns, Methodology, Assumptions, and FAQ or store the report in Amazon S3 for sharing with others.

Ready to find out how much you could be saving in the AWS Cloud?

Launch the TCO Calculator

AWS helps you reduce Total Cost of Ownership (TCO) by reducing the need to invest in large capital expenditures and providing a pay-as-you-go model that empowers you to invest in the capacity you need and use it only when the business requires it.

Our TCO calculators allow you to estimate the cost savings when using AWS and provide a detailed set of reports that can be used in executive presentations. The calculators also give you the option to modify assumptions that best meet your business needs.

❖ Types of Storages

- ✎ AWS supports three types of storages:
1. SAN (Storage Area Network)
 2. NAS (Network Attached Storage)
 3. Object Storage

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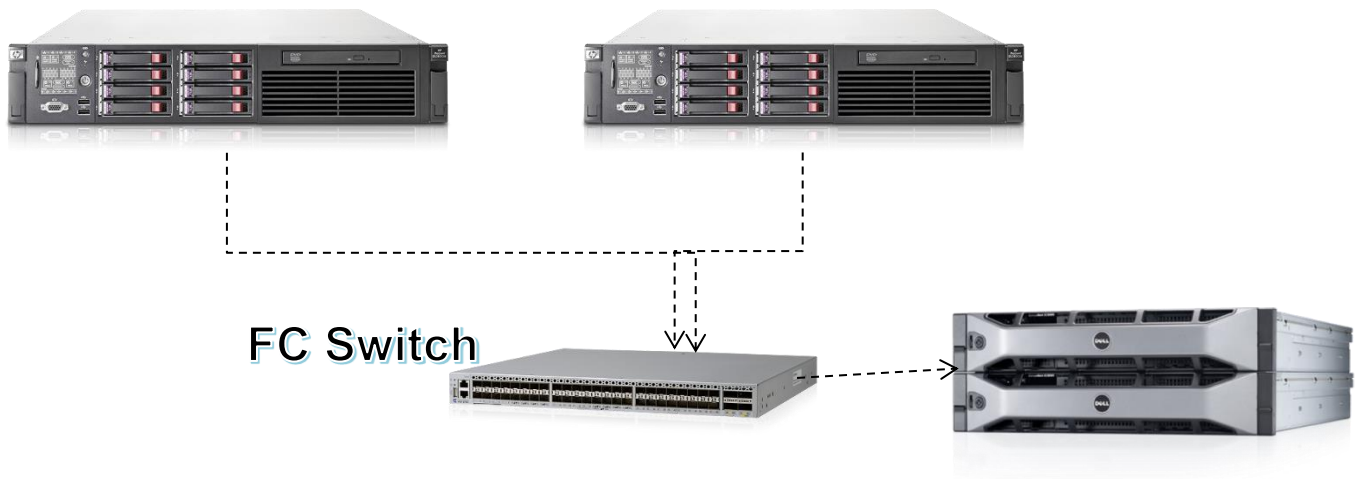
AWS supports three types of storages:

1. SAN (Storage Area Network)
2. NAS (Network Attached Storage)
3. Object Storage

SAN (Storage Area Network)

SAN is a set of storage disks which are attached to a server.

It connects via the Fibre Channel (FC) Switch.



NAS (Network Attached Storage)

NAS includes a dedicated hardware device that connects to a LAN. It shares files over network. It does not share storage devices over network.

Object Storage

It is a scheme that maintain data storage as separate units, called objects. It contains meta data on each file.

❖ Service Limits

- ✎ AWS supports two types of limits:
- Soft Limits
 - Hard Limits

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AWS supports two types of limits:

1. Soft Limits
2. Hard Limits

Soft Limits are adjustable. You can request AWS to increase the limit of your account

Hard Limits are NOT at all adjustable. For any reason AWS will not increase the limits

https://docs.aws.amazon.com/general/latest/gr/aws_service_limits.html

The screenshot shows the AWS documentation page for Service Limits. The browser address bar displays the URL: https://docs.aws.amazon.com/general/latest/gr/aws_service_limits.html. The page header includes the AWS logo and a search icon. The left sidebar contains a table of contents with links to various AWS documentation sections, including 'AWS Service Limits'. The main content area is titled 'Alexa for Business Limits' and contains a table with two columns: 'Resource' and 'Default Limit'. The table lists various resources and their corresponding default limits. Below the table, there is a section titled 'Amazon API Gateway Limits' with a brief description of the limits.

Resource	Default Limit
Maximum number of conference appliances	10,000
Maximum number of gateways	100
Maximum number of rooms	10,000
Maximum number of devices	100,000 (10 per room)
Maximum number of users	10,000
Maximum number of skills	100 (25 per skill group)
Maximum number of skill groups	1,000
Maximum number of profiles	100

Amazon API Gateway Limits

The following limits apply to configuring and running an API in Amazon API Gateway and can be increased upon request

❖ AWS Billing & Cost Management Dashboard

- ✎ On the dashboard you can view the following graphs:
 1. Spend Summary
 2. Month-to-Date Spend by Service
 3. Month-to-Date Top Services by Spend
- ✎ The **Spend Summary** graph shows you how much you spent last month, the estimated costs of your AWS usage for the month-to-date, and a forecast for how much you are likely to spend this month.
- ✎ The forecast is an estimate based on your past AWS costs, so your actual monthly costs might not match the forecast.

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