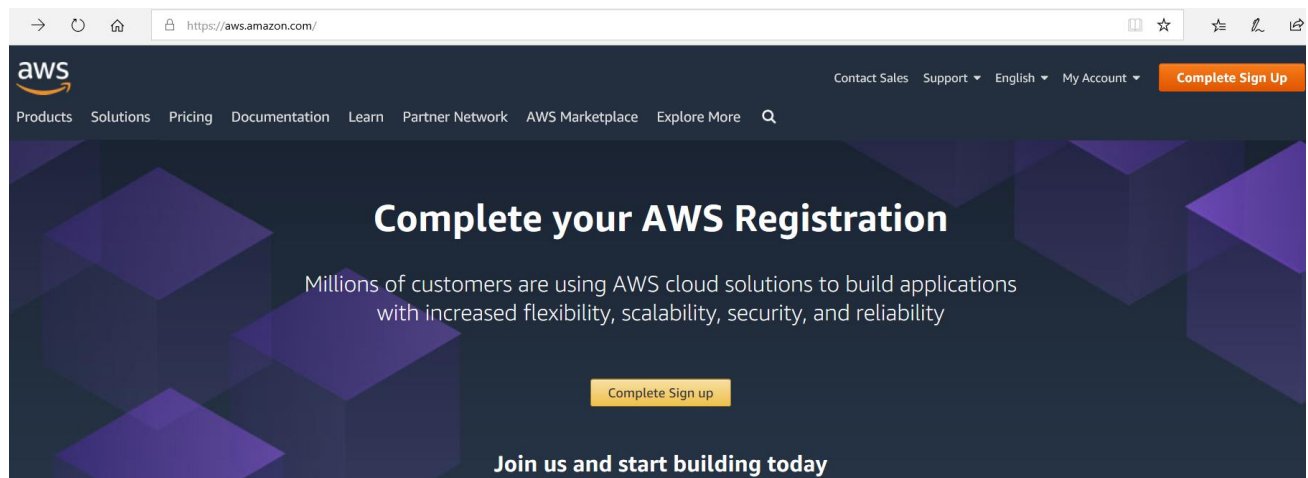# Chapter 2

✦ Working AWS Account

❖ **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

aws

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Complete your AWS Registration

Millions of customers are using AWS cloud solutions to build applications
with increased flexibility, scalability, security, and reliability

Complete Sign up

Join us and start building today

❖ About AWS Free Tier

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

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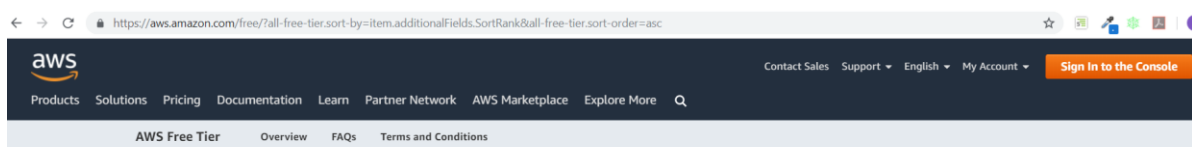
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After opening the account, WAS provides free tier for first 12 months.

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. Trails

https://aws.amazon.com/free

❖ **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

PAGE CONTENT

Storage pricing

Request pricing

S3 Storage Management pricing

Data Transfer pricing

S3 Transfer Acceleration pricing

Cross-Region Replication pricing

AWS GovCloud Region

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

→ C   🔒 https://aws.amazon.com/ec2/pricing/

aws

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

Amazon EC2   Overview   Features   **Pricing**   Instance Types   FAQs   Getting Started   Resources ▾

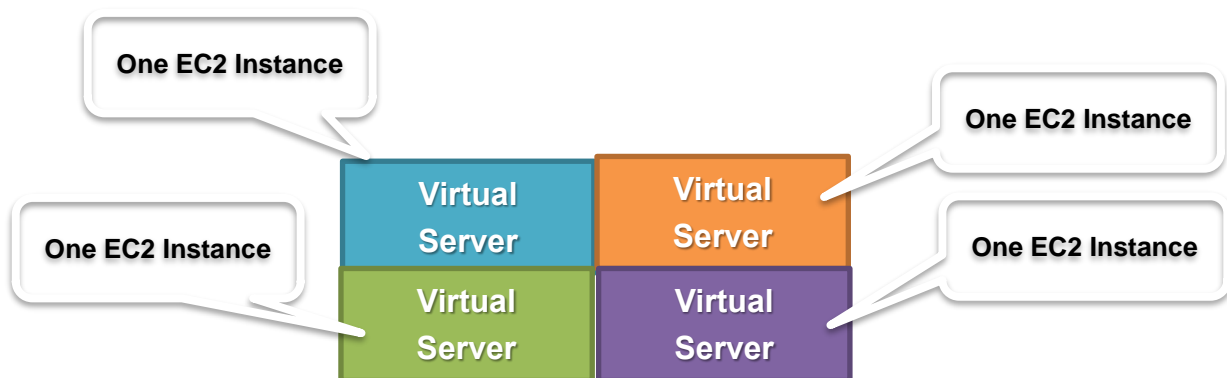Products / Compute / Amazon EC2 / …

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.

One EC2 Instance

One EC2 Instance

One EC2 Instance

One EC2 Instance

Virtual Server	Virtual Server
Virtual Server	Virtual Server

❖   **AWS Online Price Calculator**

✎ AWS provides two price modeling tools:

1.   Simple Monthly Calculator

2.   Total Cost of Ownership (TCO) Calculator

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 Transf

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 ea... Store (EBS) provides persistent storage to Amazon EC2 instances.

Amazon S3

Amazon Route 53

Amazon CloudFront

Compute: Amazon EC2 Instances:

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

Amazon RDS

Amazon Elastic Load Balancing

Amazon DynamoDB

Compute: Amazon EC2 Dedicated Hosts:

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

Amazon ElastiCache

Amazon CloudWatch

Storage: Amazon EBS Volumes:

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

Amazon SES

❖ 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.

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)
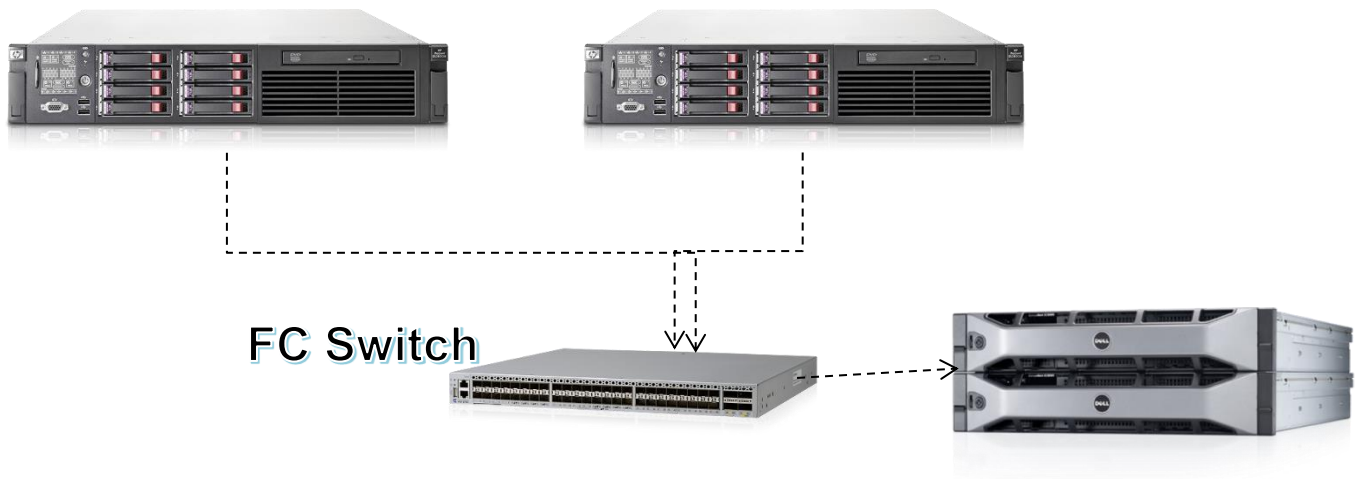3. Object Storage

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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.

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:
   a. Soft Limits
   b. 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

← → C 🔒 https://docs.aws.amazon.com/general/latest/gr/aws_service_limits.html

aws   📕 **English**

Amazon Web Services
General Reference (Version 1.0)

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☐ AWS General Reference
➕ AWS Regions and Endpoints
➕ AWS Security Credentials
☐ Amazon Resource Names (ARNs) and AWS Service Namespaces
➕ Signing AWS API Requests
☐ **AWS Service Limits**
☐ AWS IP Address Ranges
☐ API Retries
☐ AWS SDK Support for Amazon S3 Client-Side Encryption
☐ Markdown in AWS

Alexa for Business 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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