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AWS

Amazon Web Services (AWS) is Amazons cloud platform, offering over 175 fully featured services from data centers globally. Services and features includes infrastructure technologies like compute, storage, and databases–to emerging technologies, such as machine learning and artificial intelligence, data lakes and analytics, and Internet of Things.

- https://aws.amazon.com/what-is-aws/
- https://aws.amazon.com/

What is AWS?

Amazon Web Services (AWS) is a cloud computing platform that provides a wide range of services and tools for computing, storage, networking, database, analytics, machine learning, artificial intelligence, Internet of Things (IoT), security, and more. It is a subsidiary of Amazon.com and was launched in 2006. AWS provides a scalable, reliable, and secure cloud infrastructure that allows individuals and businesses to run their applications and services in the cloud. With AWS, users can easily access computing resources on demand and pay only for what they use, without the need for expensive hardware and infrastructure. AWS offers a variety of services and products, including:

- **Compute**: Amazon Elastic Compute Cloud (EC2), AWS Lambda, AWS Batch, and more.
- **Storage**: Amazon Simple Storage Service (S3), Amazon Elastic Block Store (EBS), Amazon Glacier, and more.
- **Networking**: Amazon Virtual Private Cloud (VPC), Amazon Route 53, AWS Direct Connect, and more.
- **Database**: Amazon Relational Database Service (RDS), Amazon DynamoDB, Amazon Redshift, and more.
- **Analytics**: Amazon Athena, Amazon EMR, Amazon Kinesis, and more.
- **Machine Learning**: Amazon SageMaker, Amazon Rekognition, Amazon Comprehend, and more.
- **Security**: AWS Identity and Access Management (IAM), AWS Key Management Service (KMS), AWS Security Hub, and more.

Video

Source: YouTube

*Snippet from Wikipedia: **Amazon Web Services***

Amazon Web Services, Inc. (**AWS**) is a subsidiary of Amazon that provides on-demand cloud computing platforms and APIs to individuals, companies, and governments, on a metered, pay-as-you-go basis. Clients will often use this in combination with autoscaling (a process that allows a client to use more computing in times of high application usage, and then scale down to reduce costs when there is less traffic). These cloud computing web services provide various services related to networking, compute, storage, middleware, IoT and other processing capacity, as well as software tools via AWS server farms. This frees clients from managing, scaling, and patching hardware and operating systems. One of the foundational services is Amazon Elastic Compute Cloud (EC2), which allows users to have at their disposal a virtual cluster of computers, with extremely high availability, which can be interacted with over the internet via REST APIs, a CLI or the AWS console. AWS's virtual computers emulate most of the attributes of a real computer, including hardware central processing units (CPUs) and graphics processing units (GPUs) for processing; local/RAM memory; Hard-disk(HDD)/SSD storage; a choice of operating systems; networking; and pre-loaded application software such as web servers, databases, and customer relationship management (CRM).

AWS services are delivered to customers via a network of AWS server farms located throughout the world. Fees are based on a combination of usage (known as a "Pay-as-you-go" model), hardware, operating system, software, or networking features chosen by the subscriber require availability, redundancy, security, and service options. Subscribers can pay for a single virtual AWS computer, a dedicated physical computer, or clusters of either. Amazon provides select portions of security for subscribers (e.g. physical security of the data centers) while other aspects of security are the responsibility of the subscriber (e.g. account management, vulnerability scanning, patching). AWS operates from many global geographical regions including seven in North America.

Amazon markets AWS to subscribers as a way of obtaining large-scale computing capacity more quickly and cheaply than building an actual physical server farm. All services are billed based on usage, but each service measures usage in varying ways. As of 2021 Q4, AWS has 33% market share for cloud infrastructure while the next two competitors Microsoft Azure and Google Cloud have 21%, and 10% respectively, according to Synergy Group.

GitHub Topics

- https://github.com/topics/aws

Amazon Web Services is a subsidiary of Amazon.com that provides on-demand cloud

computing platforms to individuals, companies, and governments, on a subscription basis.

AWS Services

- Analytics
- Application Integration
- Blockchain
- Cloud Financial Management
- Compute
- Containers
- Database
- Developer Tools
- End User Computing
- Front-End Web & Mobile
- Internet of Things
- Machine Learning
- Management & Governance
- Media Services
- Migration & Transfer
- Networking & Content Delivery
- Quantum Technologies
- Robotics
- Satellite
- Security, Identity, & Compliance
- Storage

Source: amazon.com/products

> **Related:**
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> - Cloud computing
> - CloudOps

tool, architecture, projects, cloud, devopsrelease, list, taxonomy

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