



Welcome to What Is Amazon Web Services (AWS).

What you will learn

At the core of the lesson

You will learn how to:

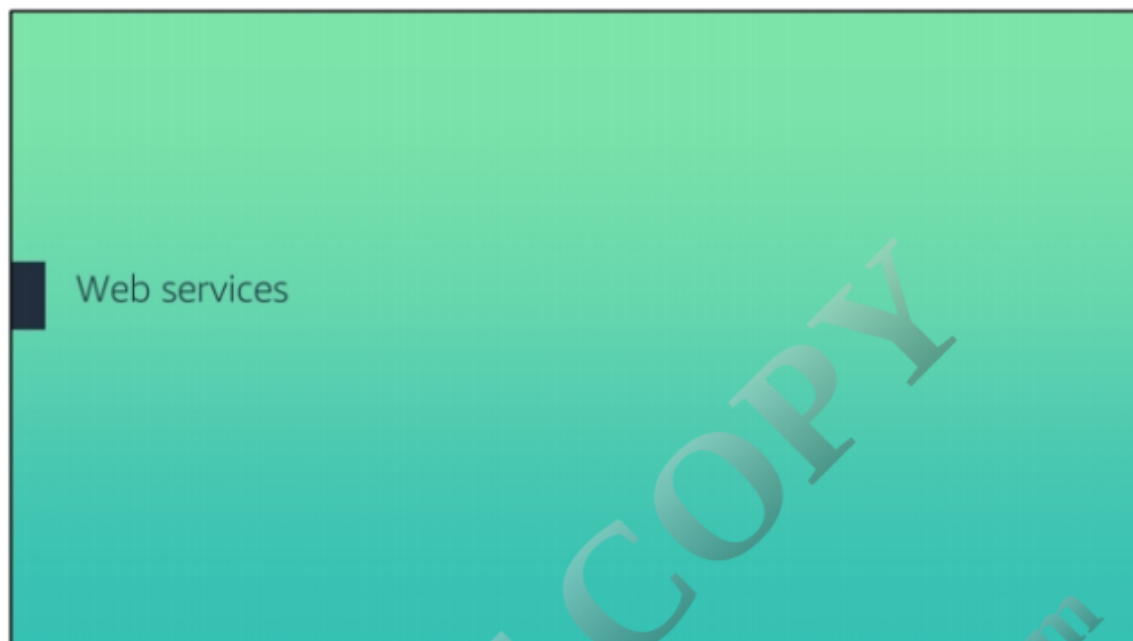
- Explain, in general, what a web service is
- Explore the main services that Amazon Web Services (AWS) offers
- Examine ways to access AWS services
- Navigate the AWS Documentation website

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In this module, you will learn about Amazon Web Services (AWS) and the products and services that are available. You will also learn how to access AWS services and use the AWS documentation.



Question



Think about your understanding of the models of cloud computing.
What are the three models of cloud computing?

as a service

as a service

as a service



AWS offers three different models of cloud services: infrastructure as a service, platform as a service, and software as a service. All of these services are on the AWS Cloud.

With *infrastructure as a service (IaaS)*, you manage the server, which can be physical or virtual, and the operating system (Microsoft Windows or Linux). In general, the data center provider has no access to your server.

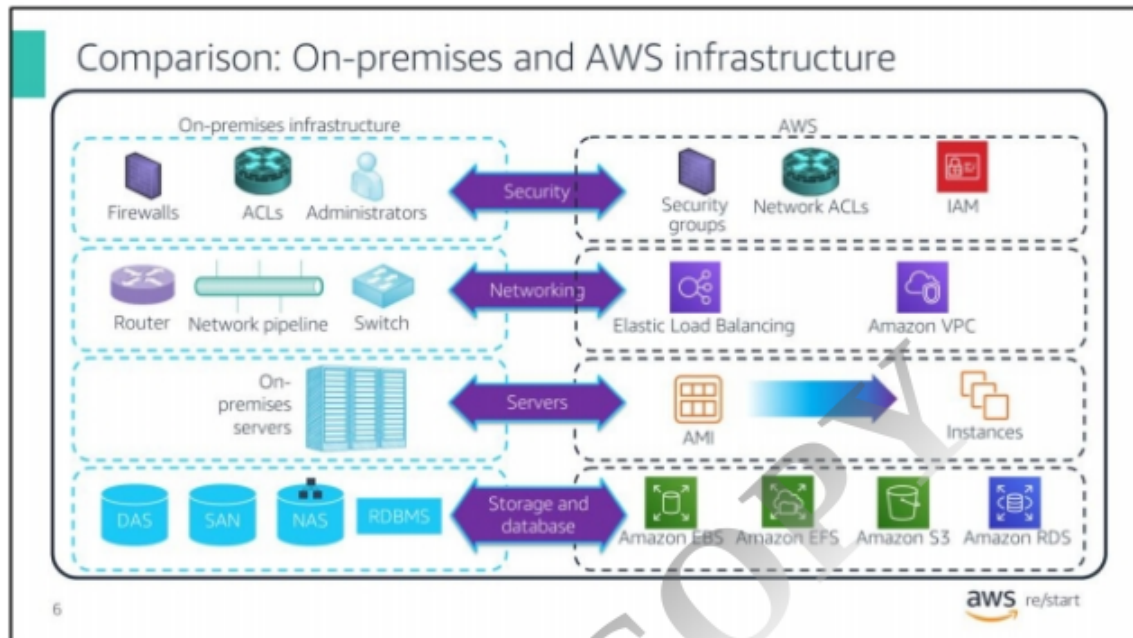
Basic building blocks for cloud IT include:

- Networking features
- Compute
- Data storage space

With *platform as a service (PaaS)*, someone else manages the underlying hardware and operating systems. Thus you can run applications without managing underlying infrastructure (patching, updates, maintenance, hardware, operating systems). PaaS also provides a framework for developers that they can build on to create customized applications.

With *software as a service (SaaS)*, you manage your files, and the service provider manages all data centers, servers, networks, storage, maintenance, and patching. Your concern is only the software and how you want to use it. You are provided with a complete product that the service provider runs and manages. Facebook and Dropbox are examples of SaaS. You manage your Facebook contacts and Dropbox files, and the service providers manage the systems.

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bufetekaye.22@gmail.com



Many AWS services have analogs in the traditional IT space and terminology. This side-by-side comparison shows how AWS products and services relate to a traditional infrastructure. Almost everything you might want to do with a traditional data center is available with AWS.

Legend:

- ACL (ACLs)
- Amazon Elastic Block Store (Amazon EBS)
- Amazon Elastic File Store (Amazon EFS)
- Amazon Machine Image (AMI)
- Amazon Relational Database Service (Amazon RDS)
- Amazon Simple Storage Service (Amazon S3)
- AWS Identity and Access Management (IAM)
- Direct-attached storage (DAS)
- Network access control lists (network ACLs)
- Network-attached storage (NAS)
- Relational database management system (RDBMS)
- Storage area network (SAN)

What are web services?

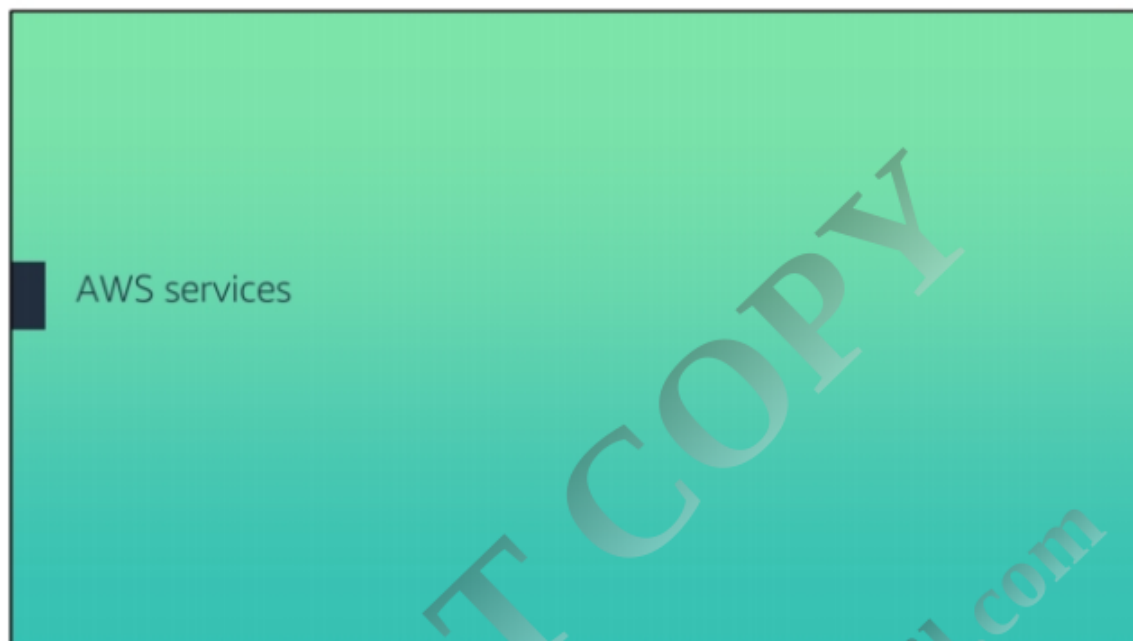
A **web service** is any piece of software that makes itself available over the internet. It uses a standardized format, either Extensible Markup Language (XML) or JavaScript Object Notation (JSON), for the request and the response of an **application programming interface (API)** interaction.



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A web service is any piece of software that makes itself available over the internet or on private (intranet) networks. A web service uses a standardized format for the request and the response of an application programming interface (API) interaction. For example, formats such as Extensible Markup Language (XML) or JavaScript Object Notation (JSON) can be used. It's not tied to any one operating system (OS) or programming language. A web service is self-describing through an interface definition file and is discoverable.





AWS is a secure cloud services provider with many services to help businesses scale and grow. These products are delivered over the internet. As a result, you have on-demand access to the compute, storage, network, database, and other IT resources that you might need for your projects. You also have the tools to manage them.

AWS services are in different categories, and each category contains one or more services. You can select the services that you want from these different categories to build your solutions.

Legend:

- Augmented reality (AR)
- Virtual reality (VR)