☁ What is Cloud Computing?

Cloud computing is the on-demand delivery of IT resources over the Internet with pay-as-you-go pricing. Instead of buying, owning, and maintaining physical data centers and servers, you can access technology services, such as computing power, storage, and databases, on an as-needed basis from a cloud provider like Amazon Web Services (AWS)

☁ Types of Cloud Computing

Infrastructure as a Service (IaaS)	Platform as a Service (PaaS)	Software as a Service (SaaS)
▶ IaaS offers fundamental cloud IT components, including networking features, computing power, and data storage.	▶ PaaS eliminates the need to manage infrastructure, letting you focus on application deployment and management.	▶ SaaS offers a complete product managed by the service provider, typically end-user applications like web-based email.
▶ It provides maximum flexibility and management control over IT resources.	▶ It increases efficiency by handling resource procurement, capacity planning, and maintenance.	▶ It eliminates the need to worry about service maintenance or infrastructure management.
▶ IaaS resembles traditional IT resources, making it familiar to many IT departments and developers.	▶ PaaS takes care of software maintenance and patching.	▶ Users only need to focus on utilizing the software.

AWS Regions

A Region in AWS is a physical location worldwide where AWS clusters data centers, each region containing multiple, isolated Availability Zones (AZs) with independent power, cooling, and security, connected by ultra-low-latency networks. This multi-AZ design enhances fault-tolerance and high availability for customer applications. AWS Regions also meet high standards for security, compliance, and data protection.

Availability Zones

An Availability Zone (AZ) is one or more discrete data centers with redundant power, networking, and connectivity in an AWS Region. All AZs in an AWS Region are interconnected with high-bandwidth, low-latency networking, over fully redundant, dedicated metro fiber providing high-throughput, low-latency networking between AZs.

How to choose an AWS Region?

▶ Compliance

▶ Latency

▶ Cost

▶ Services and features

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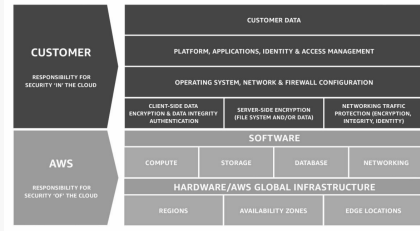
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Shared Responsibility Model

AWS responsibility - *Security of the Cloud*

Customer responsibility - *Security in the Cloud*