

Day 1/13 – Introduction to Cloud Computing

Cloud Computing Definition

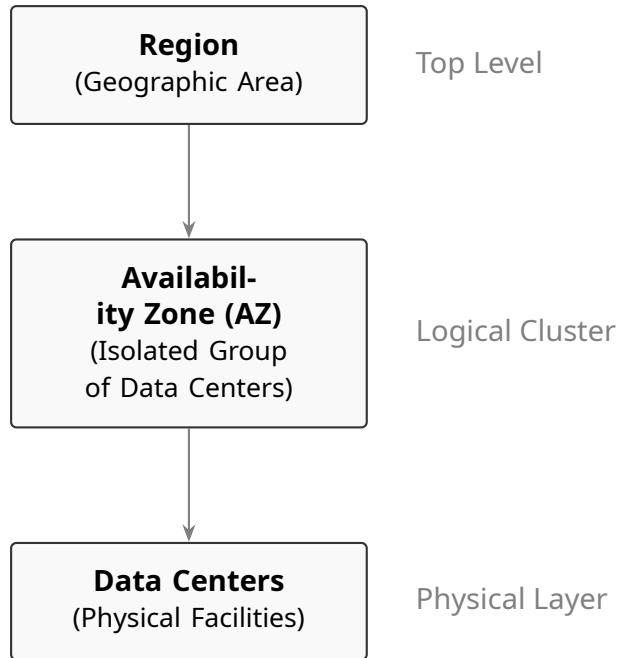
Cloud computing is the on-demand delivery of IT resources over the internet with pay-as-you-go pricing.

Six Key Benefits of Cloud Computing

- **Trade fixed expenses for variable expenses:** Instead of upfront investment in data centers, pay only for what you consume.
- **Benefit from massive economies of scale:** AWS achieves higher economies of scale, translated into lower pay-as-you-go prices.
- **Stop guessing capacity:** Eliminate under-utilization or crashing by scaling resources up or down automatically.
- **Increase speed and agility:** New IT resources are only a click away, reducing the time to make resources available to developers.
- **Stop spending money on running and maintaining data centers:** Focus on projects that differentiate your business rather than infrastructure.
- **Go global in minutes:** Deploy applications in multiple regions around the world with just a few clicks.

AWS Global Infrastructure Basics

The physical structure of AWS is organized hierarchically to ensure high availability and fault tolerance:



Note: Each Region contains at least three Availability Zones, and each Availability Zone contains one or more physical Data Centers.