

AWS

Cloud Concepts

region

Regions are separate geographic locations designed to be completely independent of other regions to achieve fault tolerance and stability.

Key things to know

- Regions are physically isolated from each other
- Each region has at least two AZs within it
- US-East is the largest and where you will find your billing information when logged into the console

availability zones

Each region has multiple, isolated data centres called Availability Zones (AZs). This protects customers applications from service disruptions.

Key things to know

- AZs are represented by a region code followed by a letter - ap-southeast-2 is Sydney
- AZs in the same region have sub 10ms latency between each other

edge location

An Edge Location is a datacentre with a direct connection to the AWS network. This allows fast downloads from AWS with CloudFront and fast uploads to AWS with API Gateway.