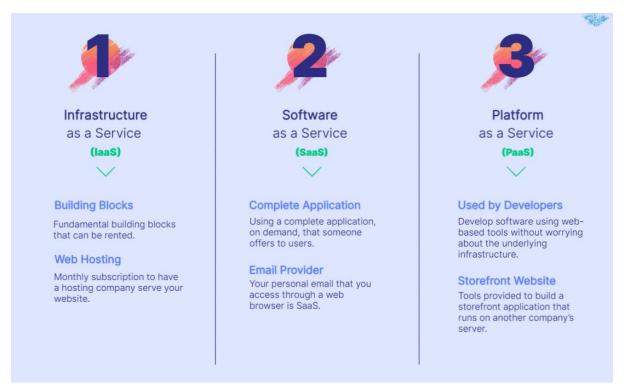
## **Reviewing Cloud Computing and Deployment Models:**

## **Cloud Computing Models:**



# Cloud Deployment Models:





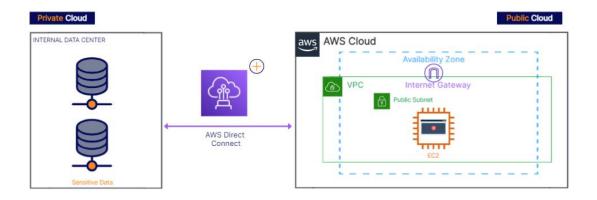








A hybrid cloud is a combination of public and private clouds.





# **Leveraging the AWS Global Infrastructure:**

- 1. Regions:
  - A Region is a physical location.
  - AWS logically groups its Regions into geographic locations.



# **Region Characteristics**

Regions have several characteristics.







# Fully Independent and Isolated

If one Region is impacted, the others will not be.

# Resource and Service Specific

Regions are isolated, and resources aren't automatically replicated across them.

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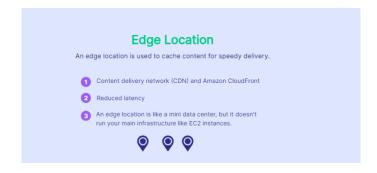
## 2. Availability zones:

Availability Zones (AZs) consist of one or more physically separated data centers, each with redundant power, networking, and connectivity, housed in separate facilities.

# Characteristics of AZs Did you know AZs are connected among themselves in a single Region? • Physically separated • Connected through low-latency links • Fault tolerant • Allows for high availability US-EAST-1E

#### 3. Edge locations:

- Edge locations cache content for fast delivery to your users.
- Latency: Latency is the time that passes between a user request and the resulting response.





Systems that are highly available are dependable enough to operate continuously without failure.

A Region is global and has 2 or more AZs.

Regions are geographically isolated locations around the globe.

An AZ has multiple data centers.

You can think of an AZ as a collection of data centers.

Edge locations ensure low latency by placing content closer to users.

There are more edge locations than Regions and AZs.