

DAY 01/100

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AWS Region \Rightarrow

In AWS, Regions are the physical location around the world where data-centre clusters are located. Most of the AWS services are region-scoped, which means we can launch the service in any specific region. AWS has regions across the globe so we need to wisely choose the region while launching the services to minimize the service latency.

How to Choose an AWS Region:

Selecting the region is the first step which needs to be done when launching an AWS service component. Mainly, it is advised to choose the region closest to the users to decrease the latency but there are some other factors as well that should be kept in mind to choose a region wisely.

- Proximity to end user: This reduces the service latency.

- **Compliance:** We need to keep in mind that the data stored in the region is compliant with regulatory requirement of that region.
- **Service Availability:** whenever AWS launches a new Service, it doesn't release it in all the regions.
- **Pricing:** Pricing of services varies from region, so it should be kept in mind when selecting a region.

Availability zone →

Within a region, there are groups of logical data centers called Availability Zones (AZs). Availability zones helps to run an application in highly available, fault-tolerant and scalable environment. AZs are connected with high bandwidth, ultra low latency networking and they are separated from each other and are protected from network issues & any kind of disaster. Each region has many Availability zones (Min 2 and Max 6). We can launch our service in multiple AZs to make it highly available and fault-tolerant.