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PDay 1 of the 100-days Challenge:-

AWS Cloud Overview and Regions AZ

What is AWS!

AWS (Amazon web services) is a cloud provider

They provide you with servers and services that you can use on-demand and scale easily

AWS powers some of the biggest websites in the world.

Amazon.com

Netflix

AWS Cloud Use Cases!

- AWS enables you to build sophisticated, scalable applications
 - Applicable to a diverse set of industries
 - Use cases include
 - Enterprise IT, Backup & Storage, Big Data Analytics
 - Website hosting, Mobile & Social Apps
 - Gaming.









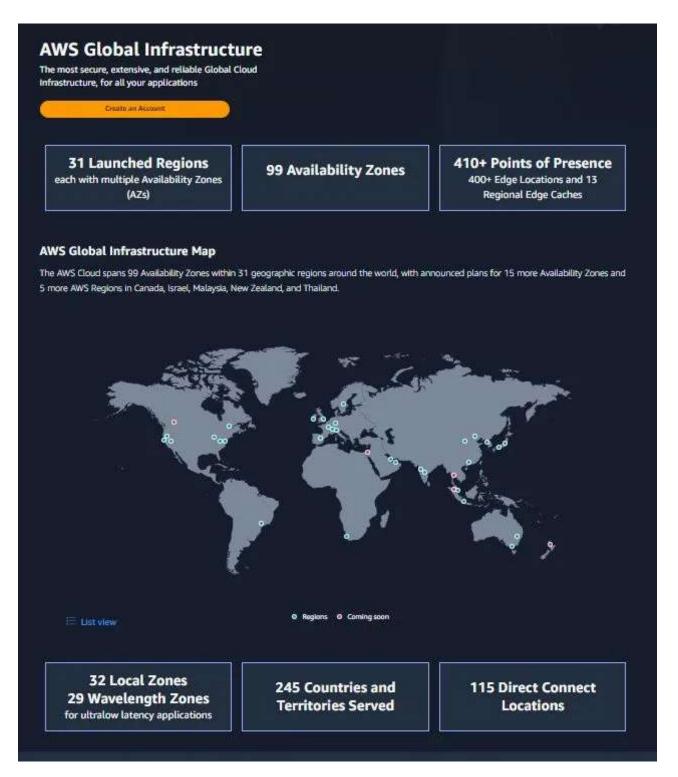


AWS Global Infrastructure!

AWS Regions

- AWS Availability Zones
- AWS Data Centers
- AWS Edge Locations /

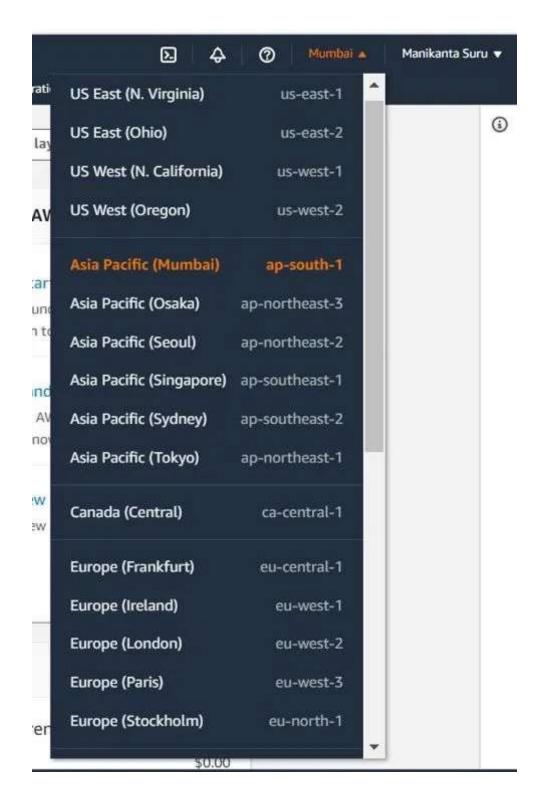
Points of Presence.



https://aws.amazon.com/about-aws/global-infrastructure/?p=ngi&loc=1

AWS Regions!

- AWS has Regions all around the world
- Names can be us-east-1, eu-west-3...
- A region is a cluster of data centers
- Most AWS services are region-scoped



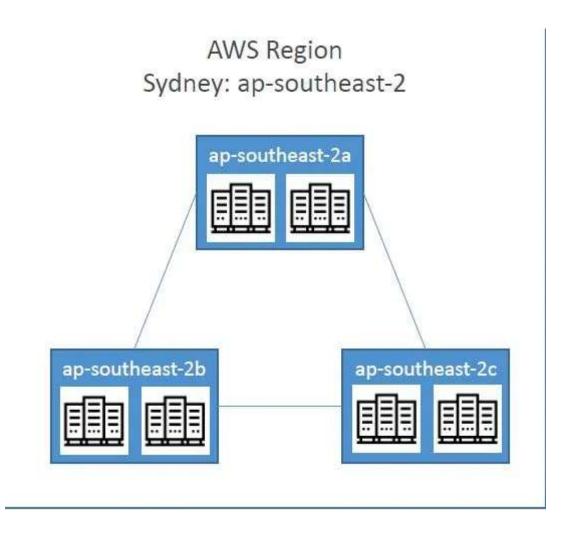
How to choose an AWS Region!

- Compliance with data governance and legal requirements: data never leaves a region without your explicit permission
 - Proximity to customers: reduced latency
 - Available services within a Region: new services and new features aren't available in every Region
 - Pricing: pricing varies from region to region and is transparent in the service pricing page

AWS Availability Zones!

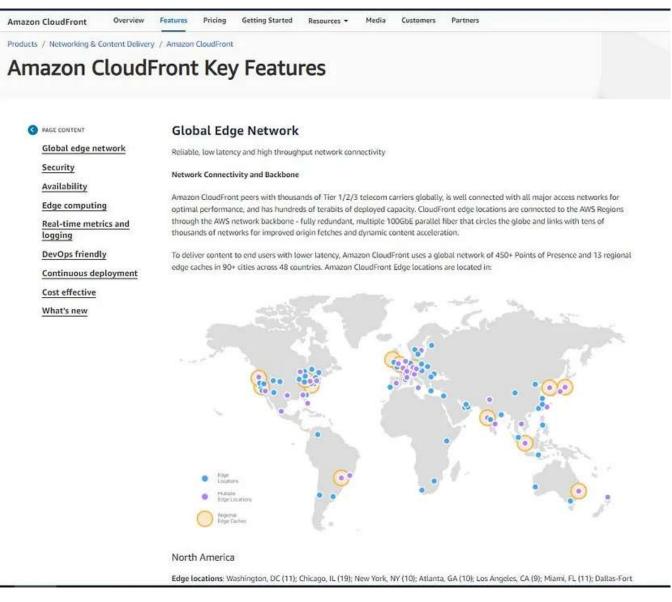
Each region has many availability zones (usually 3, min is 3, max is 6). Example:

- ap-southeast-2a
- ap-southeast-2b
- ap-southeast-2c
- Each availability zone (AZ) is one or more discrete data centers with redundant power, networking, and connectivity
- They're separate from each other, so that they're isolated from disasters
- They're connected with high bandwidth, ultra-low latency networking



AWS Points of Presence (Edge Locations)

 Amazon has 216 Points of Presence (205 Edge Locations & 11 Regional Caches) in 84 cities across 42 countries • Content is delivered to end users with lower latency.



https://aws.amazon.com/cloudfront/features/

That's it, thank you for reading.

In case you would like to continue the discussion, you can always reach out to me on <u>Twitter</u> or on LinkedIn for professional networking, if you feel like following me on <u>GitHub</u> you can also do that.

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