Intro to AWS

Certificates

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10,00 foot overview

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What we should know about the accociate cloude architect

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Region : physical infrastructure

Availability zone : each region has 2 or more availability zone , they are not depending on each other but they are close for instance in east coast there is an availability in Manhattan and there is another one in New Jersey , so if one of them is flooded the other one still available

Availability: Data center or collection of data center

Region: geographical region

Edge Location: content delivery network , to cache large media objects in the cloud .

For instance if you requested some data located in Australia , they will be travelled all the way to an edge location in new York and then the next time someone else requested the same info in the new yourk it does not need to be travlled from Australia to Ney York .. it is on the cache of edge loacatoin

There are many more edge location in the world than regions.

In your consule we have to choose a region which is closer to you to reduce latency. The point of presence for cloud front

Network and content delivery

VPC : Virtual private cloud

Like regions that are physical data centers we have VPCs around the world that yo can deploy your assets , you can have multiple VPC per region and also connect them to each other

Route 53 : Amazon DNS service , like telephone book , 53 is a dns port . root 66 the first intersect in the US

Cloud Front : is part of content delivery network , cache your assets

Direct connect : conncting your office , yor data science over dedicated line

**COMPUTE**

**EC2 :** elastic compute cloud , virtual machine in a cloude

**EC2 container Service :**  is highly scalable and high performing that supports management container that support docker containers 🡺 ECS course

**Elastic Beanstalk :**  if you don’t know anything about AWS and want to upload your code into AWS , Elastic Beanstalk will go over and look at your code and provide all the underlying thing for your code

**Lambda :** introduced in 2014 , it s very the most revolutionary thing in AWS so in EC2 you login to your virtual machine using ssh and then access to your operating system and you can install things there. But in Lambda you just need to upload your code and it just respond to your events , everytime you talk to Alexa you really talk to Lambda 🡺 Lambda course

**Lightsail** : for light deployment