Day 4/13

Module-4 Going Global

Date

DELTA Pg No

Introduction

(I) Choosing a Region: When selecting a region, consider factors like user location, latency, cost and compliance requirements

(II) AWS Edge locations: Edge locations cache content closer to users to reduce latency and improve performance

(III) Infrastructure as Code (Cloudformation): Tools like Cloudformation let you automate and consistently deploy cloud resources using code.

2 Choosing AWS Regions

(I) compliance - Different geographical locations have varying regulatory requirements and data protection laws that organisations must follow.

(II) Proximity: When selecting a region, you also need to consider how to achieve low latency. Regions closer to your user base minimize data travel time, which reduces latency and enhances application responsiveness.

(III) Feature availability - Not all Regions contain all AWS offerings, take care.

(IV) Pricing: When selecting a region focus on pricing also as different regions ~~have~~ have different pricing and financial laws.

#3. More on AWS Global Infrastructure

→ Deploying resources across multiple Regions and Availability Zones improve high availability, agility and elasticity by ensuring reliability, faster adaptation and scalable performance.

AWS Region - Geographic location/area with multiple data centers

Availability zone (AZ): Isolated data center(s) within a region

Edge location: caching site closer to users for low latency.

Date
DELTA Pg No.

#4 Infrastructure and Automation

AWS cloudformation: An Infrastructure as code (IaC) service that lets you define, automate and consistently deploy AWS resource using templates