

AWS Module 3 - Global Infrastructure

Global and Infrastructure Reliability

What are the key business factors to consider when determining the most suitable AWS Region for deploying services, data, and applications?

1. **Compliance:** Ensure data governance and legal requirements align with the Region's location, vital for companies with specific data residency needs.
2. **Proximity:** Choose a Region close to your customers for faster content delivery, enhancing user experience.
3. **Available Services:** Some Regions may offer a broader range of services, while others may lack certain features due to AWS's global service expansion pace.
4. **Pricing:** Prices can vary between Regions, influenced by factors like tax structures, impacting the cost of running services in different locations.

What are Availability Zones in AWS, and how do they contribute to data center redundancy and disaster resilience?

- An Availability Zone is either a single data center or a group of data centers within an AWS Region.
- Availability Zones are strategically located tens of miles apart within a Region.
- This geographic separation ensures low latency between Availability Zones, facilitating quick data transfer.
- In the event of a disaster in one part of the Region, the geographic distance between Availability Zones reduces the likelihood of multiple Zones being affected.
- Availability Zones play a crucial role in providing redundancy and disaster resilience for AWS services and applications.

What is the purpose of an Amazon CloudFront edge location?

- An edge location is a site used by Amazon CloudFront for caching content.

What are the primary methods for interacting with AWS services?

- **AWS Management Console**
- **AWS Command Line Interface (CLI)**
- **Software Development Kits (SDKs)**

What is AWS Cloud formation?

- Allows treating infrastructure as code, enabling the creation of environments through code.

Key points

Regions are geographically isolated areas.

Regions contain Availability Zones.

Edge locations run Amazon CloudFront.

Interacting with AWS services

- AWS Management Console

- AWS Command Line Interface (CLI)

- AWS Software Development Kits (SDKs)

- Various other tools

Which statement best describes an Availability Zone?

- ☐ A geographical area that contains AWS resources
- ☒ A single data center or group of data centers within a Region
- ☐ A data center that an AWS service uses to perform service-specific operations
- ☐ A service that you can use to run AWS infrastructure within your own on-premises data center in a hybrid approach

Which statement is TRUE for the AWS global infrastructure?

- ☐ A Region consists of a single Availability Zone.
- ☐ An Availability Zone consists of two or more Regions.
- ☒ A Region consists of three or more Availability Zones.
- ☐ An Availability Zone consists of a single Region.

Which factors should be considered when selecting a Region? (Select TWO.)



Compliance with data governance and legal requirements



Proximity to your customers



Access to 24/7 technical support



Ability to assign custom permissions to different users



Access to the AWS Command Line Interface (AWS CLI)

Which statement best describes Amazon CloudFront?



A service that enables you to run infrastructure in a hybrid cloud approach



A serverless compute engine for containers



A service that enables you to send and receive messages between software components through a queue



A global content delivery service

Which site does Amazon CloudFront use to cache copies of content for faster delivery to users at any location?

- ☐ Region
- ☐ Availability Zone
- ☒ Edge location

☐ Origin

Which action can you perform with AWS Outposts?

- ☐ Automate actions for AWS services and applications through scripts.
- ☐ Access wizards and automated workflows to perform tasks in AWS services.
- ☐ Develop AWS applications in supported programming languages.

☒ Extend AWS infrastructure and services to different locations including your on-premises data center.