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This study guide demonstrates the lesson from *Even More AWS Use Cases!*

My full AWS Architect Associate course can be found here:

<https://www.udemy.com/course/ultimateaws/?referralCode=7ED214B795C444141361>

More AWS Use Cases Study Guide

In this lesson, we will explore how Amazon Web Services (AWS) can support high-performance applications and provide global scalability for your business needs. We will delve into a fictitious scenario involving financial data analysis, where the computational power, hardware, and storage requirements are substantial. We'll examine the cost-efficiency of using AWS for this purpose and explore the ability to scale globally with AWS services like Amazon CloudFront.

Section 1: High-Performance Data Analysis

Scenario Overview

- Imagine a scenario in which complex financial data is gathered continuously, and extensive data analysis is needed each night for risk assessment.
- This scenario requires significant computational power, high-performance hardware, and efficient data storage for timely analysis.

On-Premises Challenges

- Meeting the computational demands may require expensive, powerful servers with substantial compute resources.
- Maintaining idle equipment during non-analytical hours can result in wasted resources and increased costs.

AWS Solution

- AWS offers a scalable solution to analyze data quickly, leveraging massive computing power.
- By using hundreds or thousands of virtual servers, organizations can process data efficiently and cost effectively.
- Data can be stored in Amazon S3, and costs are reduced immediately after task completion.

Section 2: Managed Services for High-Performance Applications

Cost-Efficient Computing

- AWS's pay-as-you-go model allows organizations to allocate computing resources as needed, reducing costs during idle periods.

Managed Services

- AWS provides managed services for high-performance tasks, eliminating the need for complex hardware and software setups.
- Managed services simplify resource provisioning and offer efficient solutions for various high-performance requirements.

Section 3: Global Expansion with AWS CloudFront

Global Content Delivery

- Organizations often need to distribute content or services to users worldwide, requiring a global presence.

AWS CloudFront for Global Content Delivery

- Amazon CloudFront is an AWS service designed to distribute content globally and reduce latency for users.
- It replicates content across multiple edge locations, ensuring fast and responsive access for geographically dispersed users.

Global Expansion with AWS Infrastructure

- AWS's extensive global infrastructure, including data centers, regions, and availability zones, enables organizations to scale globally without managing multiple data centers.

Lesson Review and Key Takeaways

- AWS provides a robust solution for high-performance data analysis, offering scalable and cost-effective resources.
- Managed services within AWS simplify resource provisioning and eliminate the need for extensive hardware and software setups.
- AWS CloudFront facilitates global content delivery, reducing latency for geographically dispersed users and expanding an organization's global reach.
- Understanding how AWS can meet high-performance application requirements and enable global expansion is essential for organizations looking to address modern business demands efficiently and effectively.

See slides below:

High Performance Applications



- Financial data is gathered all day
- Massive amount of data that needs to be analyzed each night
- What hardware is required?
- What software is required? (Managed Services)

Go Global in Minutes



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