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Introduction to Cloud Migration

Unlocking the Power of Cloud Migration for Businesses

DEFINITION

> Cloud migration is the process of moving data, applications, and services from on-premises infrastructure to cloud-based systems. It enables organizations to leverage cloud benefits like scalability and cost-efficiency.

KEY CONCEPTS

Types of Migration

There are several types of cloud migration, including rehosting, replatforming, and refactoring, each varying in complexity and effort.

Cloud Models

Understanding different cloud models—public, private, and hybrid—is crucial for selecting the right migration strategy.

Assessment Phase

Before migrating, organizations should assess their current infrastructure to identify what to move and how to do it effectively.

Data Security

Ensuring data security during migration is vital to protect sensitive information from breaches and loss.

Testing and Validation

Post-migration, thorough testing and validation are necessary to ensure that applications function correctly in the cloud environment.

EXAMPLES

→ Moving a company's email system from local servers to Google Workspace.

→ Shifting a retail database to Amazon Web Services for better scalability.

→ Transitioning an on-premises application to Microsoft Azure for enhanced performance.

MEMORY TIPS

★ Remember 'RAP' for migration types: Rehost, Replatform, Refactor.

★ Use 'PSH' to recall cloud models: Public, Private, Hybrid.

★ Think 'Assess, Migrate, Validate' as the three key steps in migration.

COMMON MISTAKES

✗ Overlooking data security measures during migration.

✗ Failing to conduct a thorough assessment of existing systems.

✗ Neglecting to test applications after migration.

QUICK RECAP

Cloud migration involves moving data and applications to the cloud for better efficiency. Key steps include assessing current systems, ensuring security, and validating functionality post-migration.