

## Summary of GCP CDA Module 2 - Video 2

This summary outlines the key concepts from the video on migrating on-premises computing infrastructure to the cloud, focusing on strategies, planning steps, and frameworks used in cloud migration.

### Cloud Migration Overview

Migrating to the cloud is similar to moving to a new home—it requires careful planning and effort. Organizations must consider infrastructure, data volume, downtime, and stakeholder agreement.

### Migration Strategies

1. Rehosting (Lift and Shift): Move systems to the cloud without changes.
2. Replatforming: Make small improvements for better performance.
3. Repurchasing: Switch to a new cloud-based service (e.g., SaaS).
4. Refactoring: Build new applications from scratch.
5. Retiring: Turn off outdated or unnecessary applications.

### Choosing a Migration Partner

Select a cloud provider that offers suitable infrastructure, valuable tools, ongoing development, and strong customer support. Review the provider's Service Level Agreement (SLA) for reliability.

### Google Cloud Adoption Framework

This framework helps assess readiness for cloud adoption and includes four themes:

- Learn: Quality and scale of learning programs.
- Lead: Leadership support for IT migration.
- Scale: Use of cloud services and automation.
- Secure: Ability to protect cloud environments.

### Migration Path Phases

1. Assess: Review existing infrastructure.
2. Plan: Set up basic cloud infrastructure.
3. Deploy: Move workloads to the cloud.
4. Optimize: Use cloud technologies for improved performance and cost-efficiency.

Following these steps ensures a smooth transition to the cloud, enabling organizations to benefit from scalability, security, and efficiency.