

Summary of GCP DCA Module 4 Video 4

Importance of Data Security

Data management involves ensuring data is secure, focusing on where it is stored and who has access.

Access Control Example

An office manager sharing access codes illustrates how access is granted only to trusted individuals.

Data Access Management Definition

It includes password protection, user permissions, and encryption to safeguard data and processes.

Identity Access Management (IAM)

IAM assigns roles and permissions to users or groups for accessing cloud resources.

IAM Components

Principal (user account), Role (permissions), and Policy (roles attached to a principal).

Organizational Example

A finance data team may have roles like data reader and writer assigned to their group principal.

Types of Access

Universal access (everyone), Access by role (based on job function), and Access by environment (based on location).

Best Practices

Audit access, monitor tasks, restrict remote access, detect unusual activity, and use strong authentication.

Reviewing Access Roles

Regularly update permissions based on user needs and role changes.

Documentation

Maintain records of access permissions for audits and compliance, and share in a team playbook.