

Exercise Sheet 7: Cloud Storage Solutions

Questions and Answers

1. Types of Cloud Storage: Compare block storage, file storage, and object storage.

Answer:

- **Block Storage:** Provides raw storage volumes for applications. Example: AWS EBS.
- **File Storage:** Offers file-level access to storage. Example: AWS EFS.
- **Object Storage:** Stores data as objects with metadata. Example: AWS S3.

2. Data Management: Explain the concept of data lifecycle management in the cloud.

Answer: Data lifecycle management automates the movement of data between different storage classes based on predefined policies. It helps optimize costs by ensuring data is stored in the most cost-effective manner.

3. Backup and Recovery: Describe best practices for backup and disaster recovery in the cloud.

Answer: Best practices include regular backups, automated backup schedules, using geographically dispersed data centers, testing recovery procedures, and maintaining a well-documented disaster recovery plan.