

Name _____

Understanding Cloud Data Storage and Management

Open-Ended Response Answer Key

1. When choosing between object storage and a cloud database, factors to consider include the type of data (structured or unstructured), scalability requirements, budget, and specific use cases. Object storage is cost-effective for large unstructured data like media files, while databases are suitable for structured data and complex queries.
2. Data encryption in the cloud is crucial to protect sensitive information from unauthorized access or breaches. For example, in a healthcare application, patient records should be encrypted to comply with privacy regulations like HIPAA. Without encryption, such data could be exposed to security threats.
3. Cloud data storage offers advantages like scalability, cost-efficiency, and accessibility. However, challenges include data security concerns, potential downtime, and the need to choose the right service for specific requirements. Businesses should carefully assess their needs before migrating to the cloud.
4. In a scenario where a financial institution securely manages customer data in the cloud, the company's robust security measures and compliance practices contribute to its success. Other businesses can learn the importance of investing in data security, compliance, and customer trust to thrive in the digital era.

