Overview

Cloud storage is a service model in which data is maintained, managed, backed up remotely and made available to users over a cloud network, usually accessed through the Internet.

This standard includes designing cloud based data technology platforms, monitoring data storage usage and capacity and operating, maintaining, and managing cloud storage services.
Design and implement cloud-based data storage solutions

Performance criteria

You must be able to:

1. Design cloud storage services to meet organisational requirements
2. Develop, document and maintain new cloud storage infrastructure designs in line with organisational standards
3. Monitor the day-to-day operations of cloud data storage systems to report on storage capacity status
4. Maintain cloud storage related hardware and software in line with organisational standards
5. Review and recommend new cloud storage products to meet organisational standards
Knowledge and understanding

You need to know and understand:

1. The factors involved in cloud storage selection for data distribution, durability, consistency and redundancy
2. What is meant by Software Defined Storage (SDS) and how it works
3. Why agreement should be reached with the cloud based data and storage requirements across the organisation
4. The various types of data within the data taxonomy and how these are classified
5. The procedures to follow for monitoring cloud based data storage capacity and performance
6. The circumstances under which scale-up in cloud based data storage needs to be undertaken
7. The different types of databases and their design trade-offs
8. The factors involved in selecting a database engine for a cloud data service
9. The organisation's standards for cloud based data storage
### TECIS40943

**Design and implement cloud-based data storage solutions**

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