I4 Reading Group

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Lehrstuhl für Informatik 4
Verteilte Systeme und Betriebssysteme

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Windows Azure Storage

Goals
- Strong consistency
- Global and scalable namespace/storage
- Disaster recovery
- Low cost of storage

Characteristics
- Supported data abstractions: Blobs, queues, tables
- Separation of data storage from VM-based computation
- Replication across different geographic regions

Paper
The CAP Theorem

Theorem

You can have at most two of the following properties for any shared-data system:

- Strong Consistency
- Availability
- Tolerance to network Partitions

Reference

Eric A. Brewer
Towards robust distributed systems