

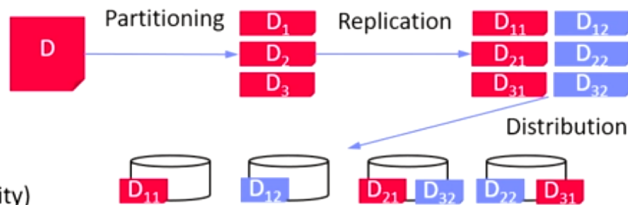
Object Store

- similar to [[Key-Value Pairs]]
- contains key, meta data and object as BLOB
- access typically via REST APIs

Key Techniques

▪ Key Techniques

- Partitioning
- Replication & Distribution
- Erasure Coding (partitioning + parity)



Example Object Stores

Amazon Simple Storage Service (S3)

OpenStack Object Storage (Swift)

IBM Object Storage

Microsoft Azure Blob Storage

Amazon S3

- Reliable object store for photos, videos, etc.
- **Bucket:** Uniquely named, static data container
`http://s3.amazonaws.com/eu-central-1.amazonaws.com/bucket-name/object-key`
- **Object:** key, version ID, value, metadata, etc.
- Single (5GB)/multi-part (5TB) upload and download
- **Storage classes:** STANDARD, STANDARD_IA, GLACIER, etc.
- **Operations:** GET/PUT/LIST/DEL, and SQL

[[Distributed Data Storage]]