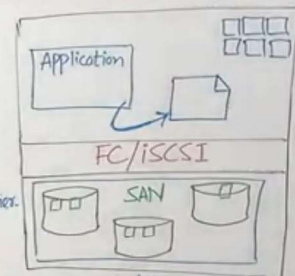


Different types of Storage

- 1) Block level storage-
- 2) File level storage-
- 3) Object level storage-

1) Block level storage:

- Data storage breaks up data into blocks and then stores those blocks with unique identifier.
- Block level storage doesn't rely on a single path to data.
- Interfaces used are FC and iSCSI.
- Data is stored in equal sized blocks.
- It is usually accessed as mounted drive.
- Used in enterprise business, databases.



- Limited metadata and searched capabilities.
- Releases load from compute and spread it across.

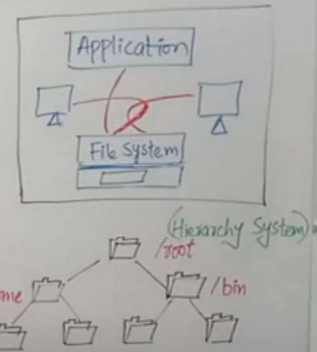
0:41 / 14:51

Different types of Storage

- 1) Block level storage-
- 2) File level storage-
- 3) Object level storage-

2) File level storage:

- Data is stored as a single piece of info inside a folder.
- Protocols used are NFS, SMB, CIFS.
- Files and documents are shared as per authorization and authentication.
- Accessed via mount points.
- Use limited metadata with attributes like time, data, size, when the file was accessed and created.



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Different types of Storage

1) Block level storage -

2) File level storage -

3) Object level storage -

3) Object level storage:

→ Object storage stores data as objects with metadata and globally unique identifiers.

→ Access objects using URL while following object using key value.

High scalability, durability, flat structure.

Vendors of Object Cloud

level

: AWS, Microsoft Azure, Oracle, Google, Alibaba

→ Generally, 03 copies of data is maintained.

→ Protocol used are HTTP, DNS, TCP/IP.

→ Objects use detailed metadata and maintain versions of objects also audit trail if required.

(S3)