

file Storage

=> file storage. Media Content [Image | Video | Live etc) L→ In main DB (Sal or NOSAL), me just Store the S3 URL to refer the content -> File Storage System should be able to store L> 19B | 104B | 17B | 107B -- . -> Durable > Performance of uploading or downloading. > What happens if our connection doops

- Option 1: file stored as I unit in I machines.
  - Pros: 1) No need to maintain the Churc info. (Cost of entries)
    - 2) We need not to collate the Church.
  - Cons: 1) file size is linnited by machine size.
    - 2) parallelism NOT possible.
- Option 2: Divide file into smaller Uninks and store lack church into a different m/c.

Cons:

Pros:

Note: We are going to divide a file into multiple thunks so that the file size isn't limited by the mpe size & parallelism would be possible.

small Church otherwise managing these many church mould become an overhead.

HDFS.

Hadoop Distributed file System.

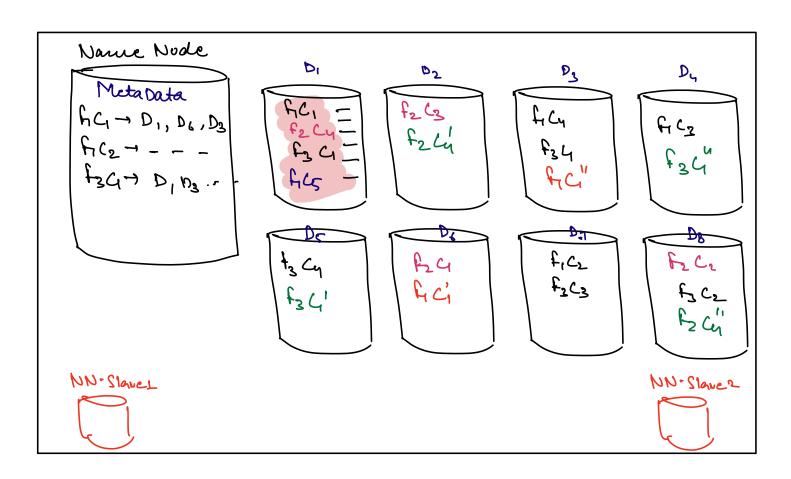
Repliation

- 1) Pata Vodes: Machines where me store file Churles.
- Name Nodes: Store metadata about the files.

  Maintains the mapping of file Chunks
  and in which m/c these Chunks are present.

  Replintion

> In one HDFs Unster, we don't shard a Name Node Server but replication would be there. > HDFs Cluster.



# Pace Aware Algo



for more reliability, HDFS keeps data on different racks so that me do not loose our data even if rack goes down.

-> Avoid replicating same chunks mithin the same rack.

Upload frow.

