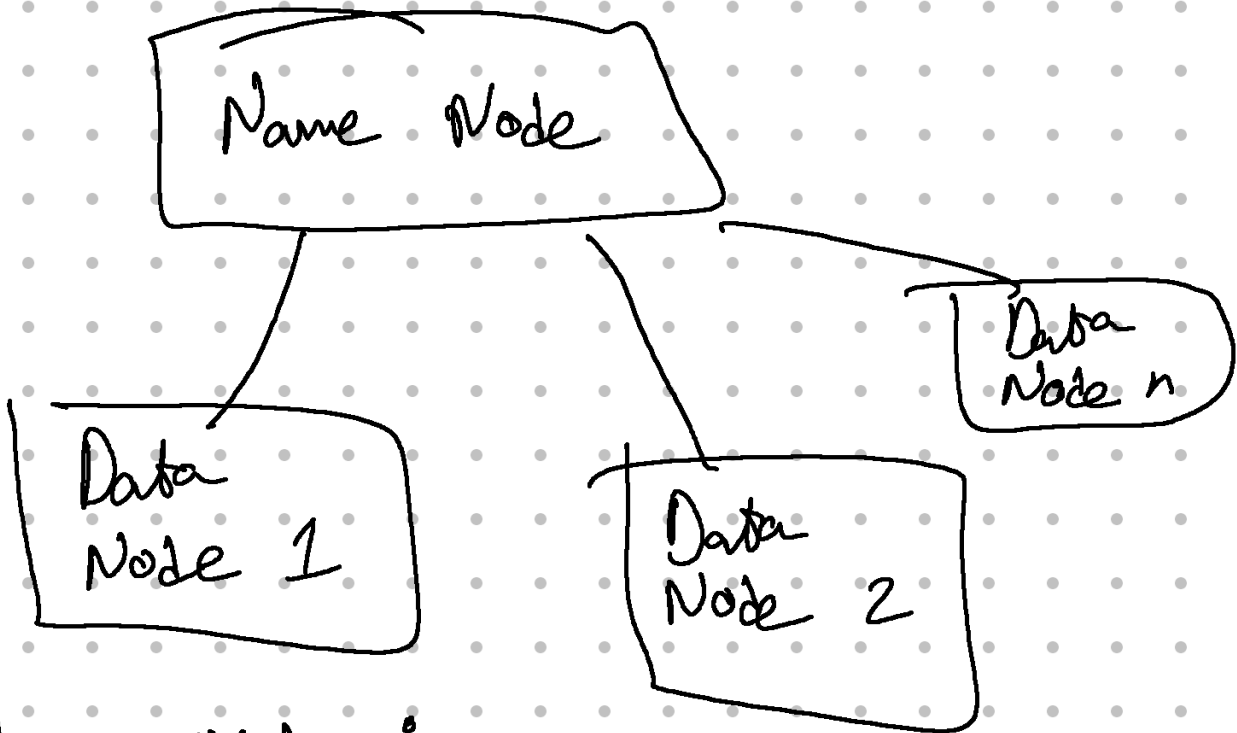


Distributed File System

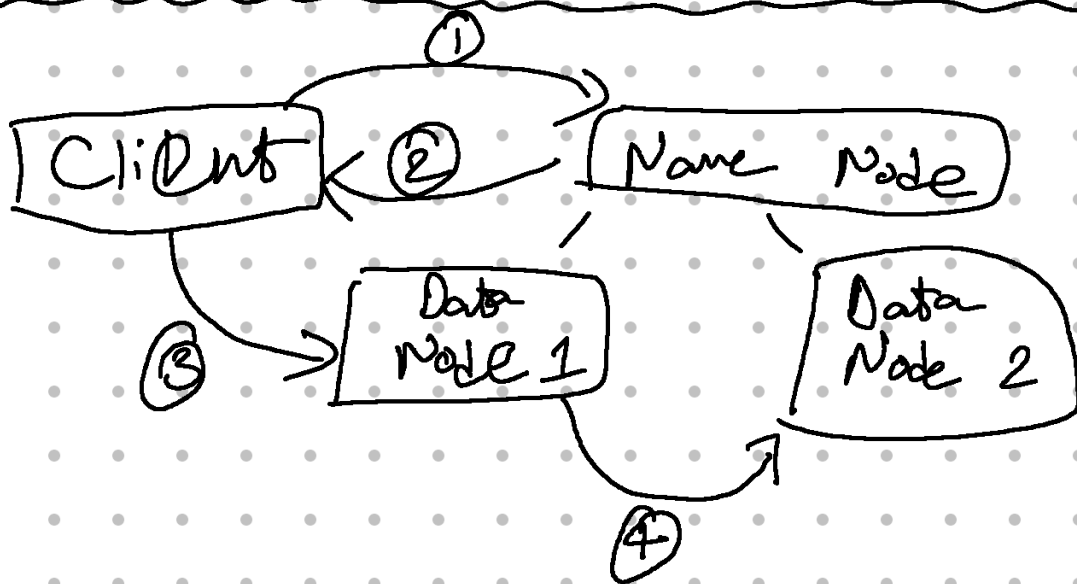


Name Node :

- Stores metadata of the file system
- is aware of where the chunks of a file are stored
- acts like a master node.
- is aware of data node size
- does health check of data nodes
 - ↳ takes care of machines that fail and replicates data as necessary
- Can be aware of data centre geography
 - ↳ for e.g. which rack a data node is in
 - ↳ useful for when you don't want to replicate a chunk in the same rack

⇒ Block size determines how small each block will be broken down into.

⇒ Replication Factor...



① Client requests to store file at name node

② Data node instructs Client which node to store file

③ Client stores at Data Node 1

④ Data Node 1, replicates data on data node 2 upon instruction from name node

