

Why Big Data now?

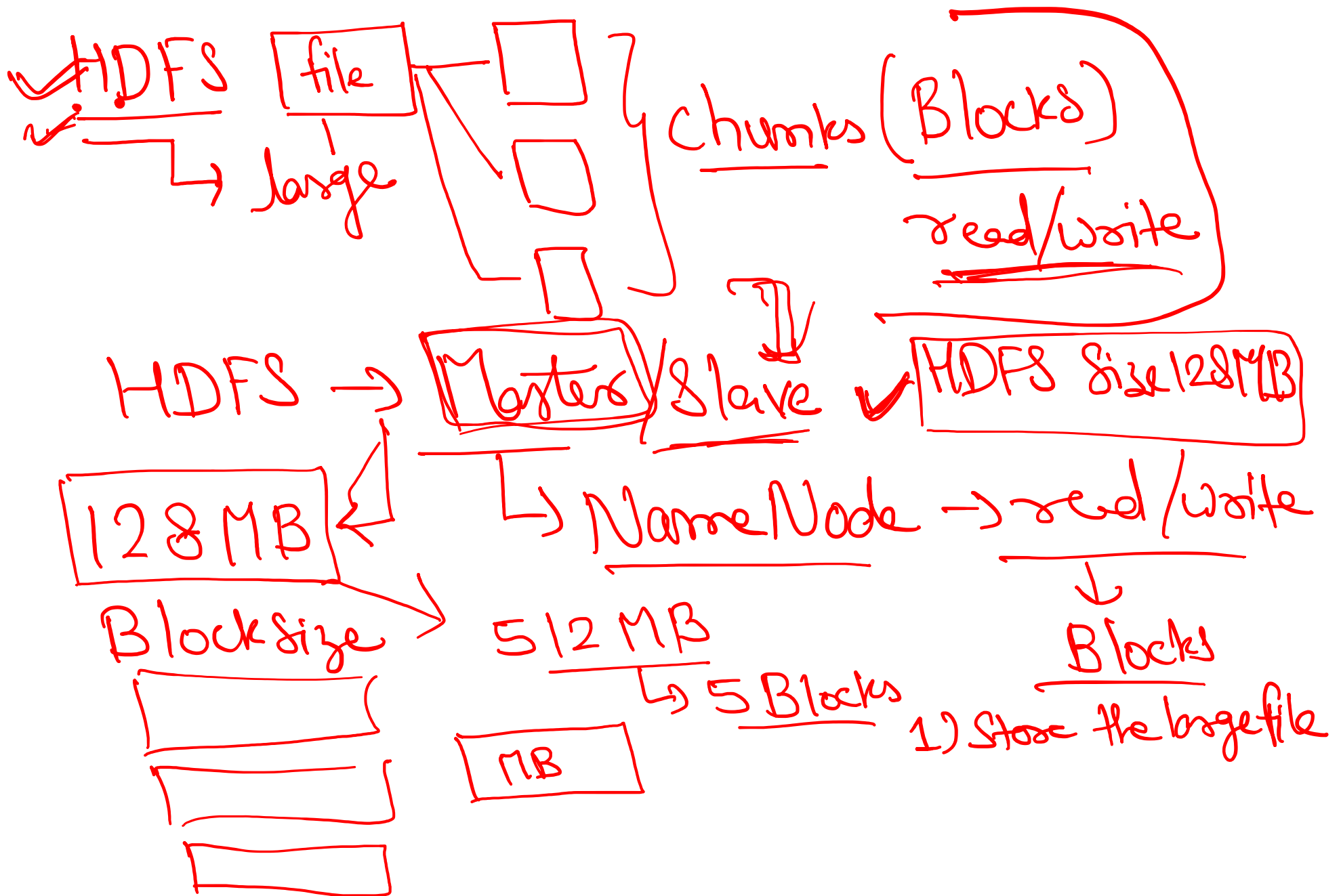
- More data are being collected and stored
- Open source code
- Commodity hardware / Cloud



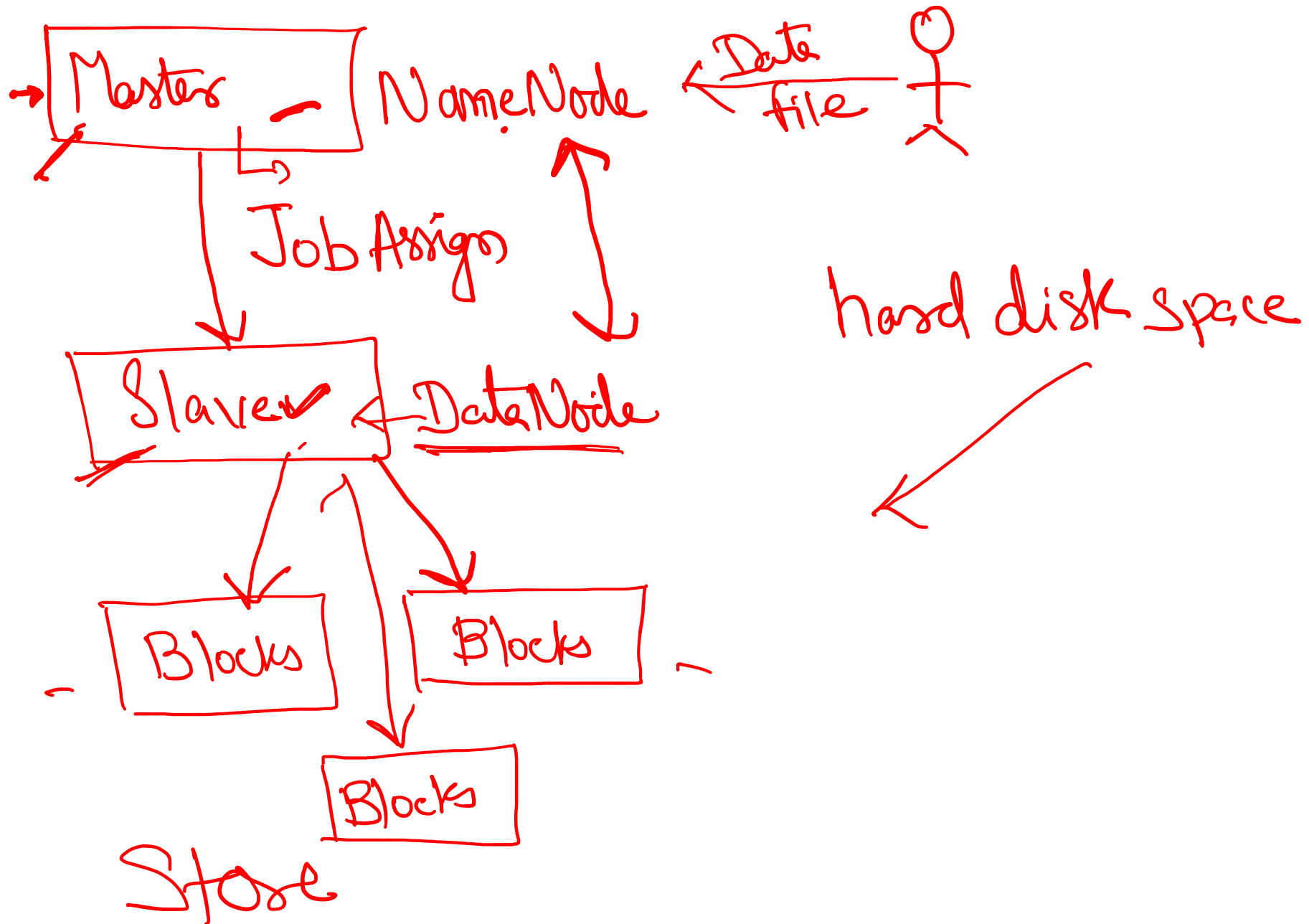
- High-Volume
- High-Velocity
- High-Variety

→ Artificial
Intelligence

TV's
Value is big data

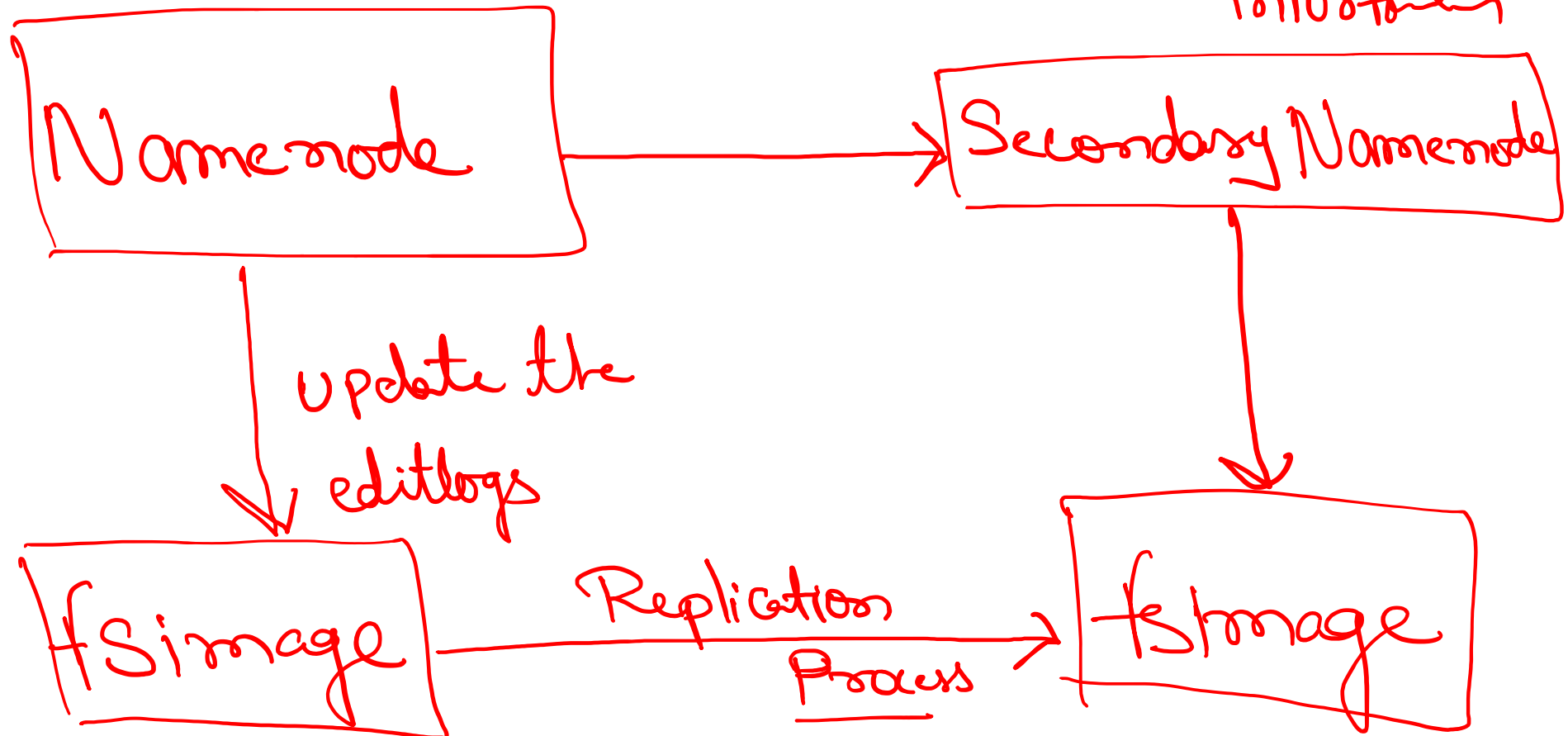


Hadoop Blocks – Datanode ✓



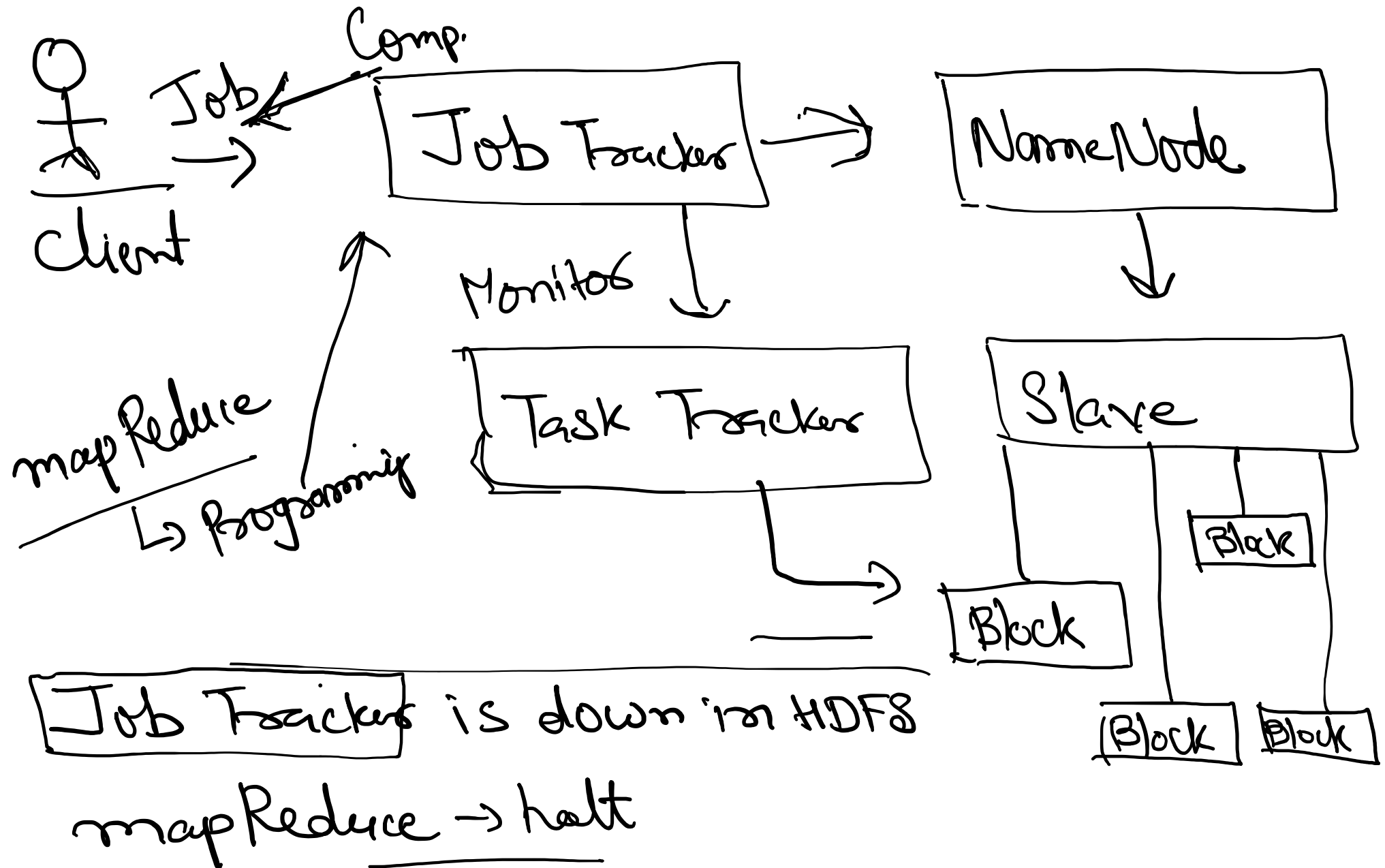
fsStorage - stores the snapshot of fs

Name node - holds metadata for HDFS in blocks
information

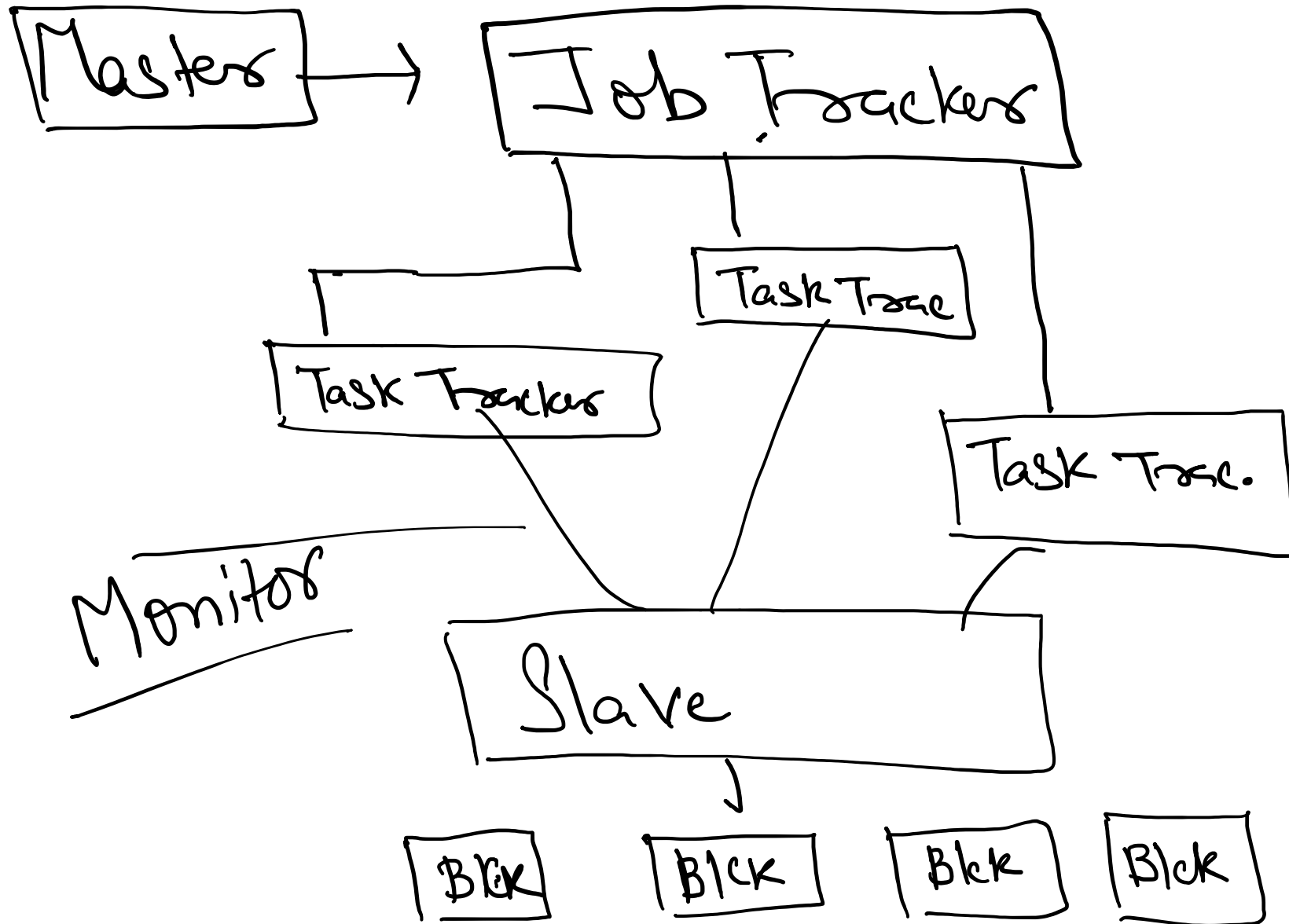


Editlogs → keeps track of every change of HDFS.

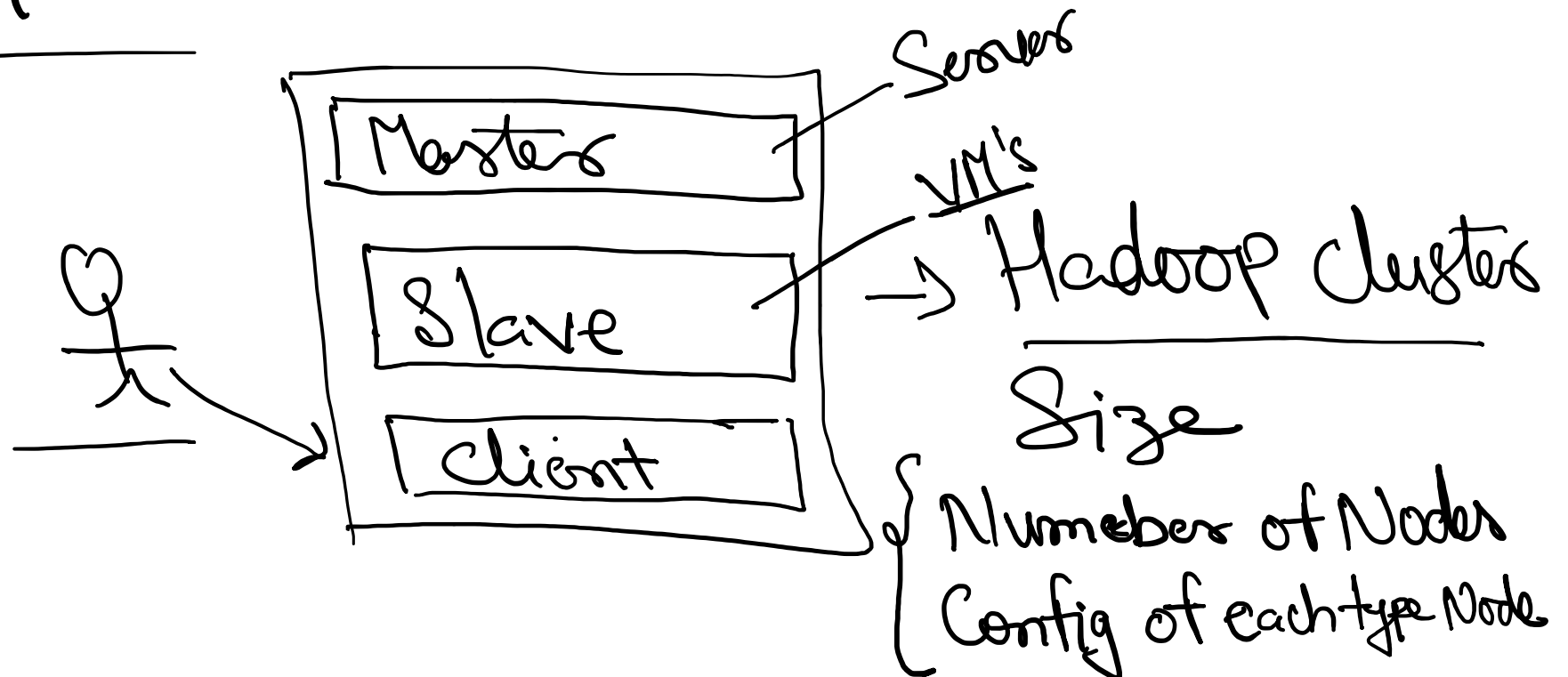
Hadoop Blocks – Job Tracker ✓



Hadoop Blocks – Task Tracker ✓



Apache \Rightarrow big data analytics, process tasks to be broken down into smaller tasks that can be performed in parallel by using algo like map Reduce.

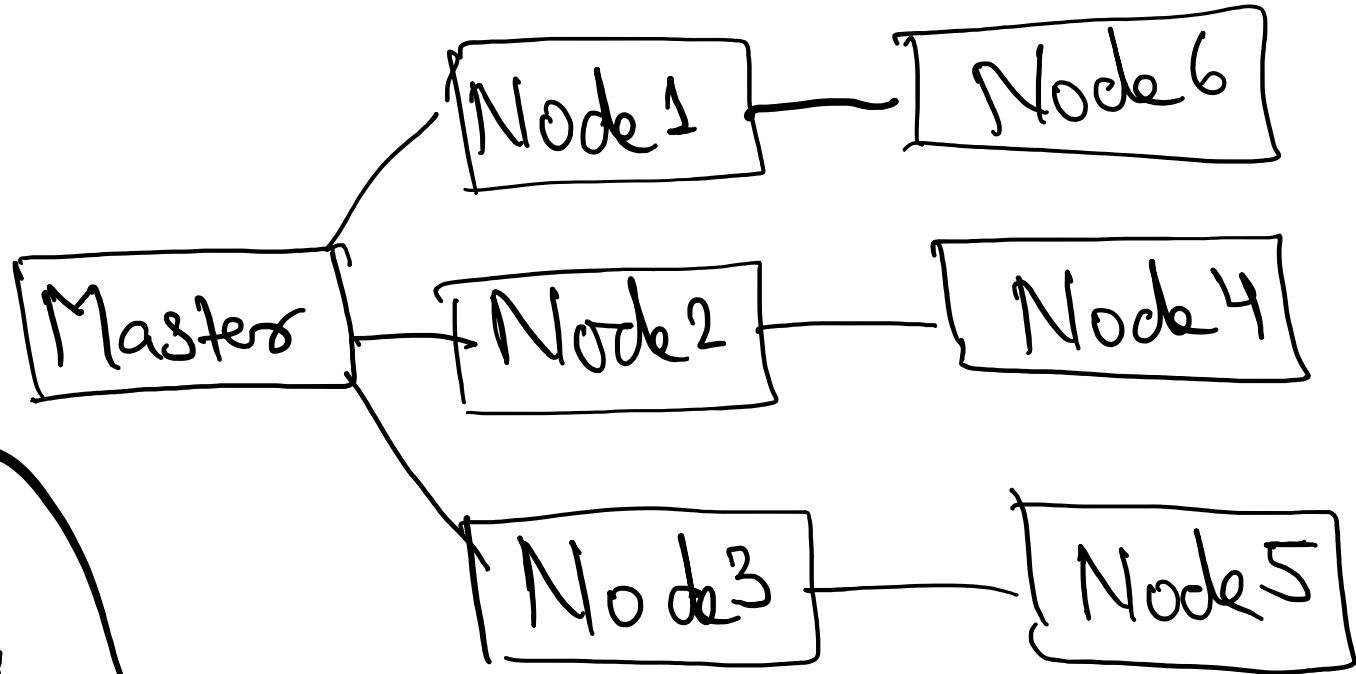


Hadoop Cluster - Configuration



Data Store - Struct, Semi-Struct & Unstruct Data

Schemas =>



Properties

- Scalability
- flexibility
- Speed
- No data loss - Economical

Slaves