

















HDFS

The Hadoop Distributed File System

Overview



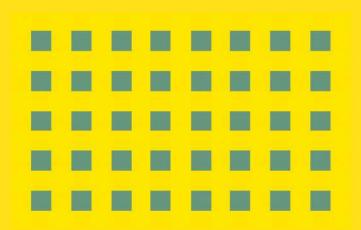
By breaking them into blocks



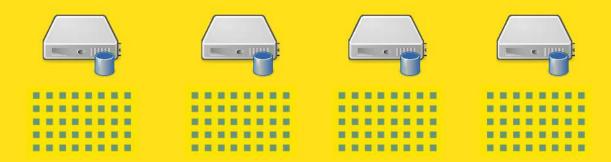




By breaking them into blocks



Stored across several commodity computers



HDFS Architecture

Name Node



Data Node



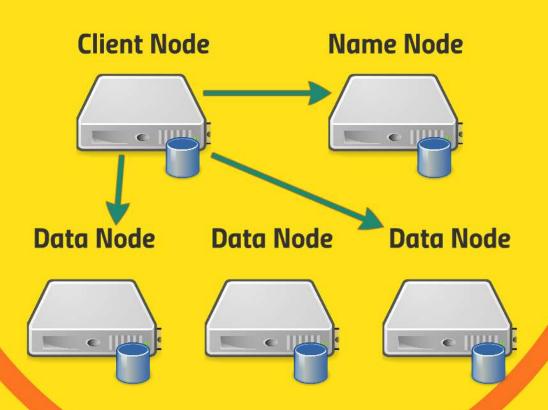
Data Node



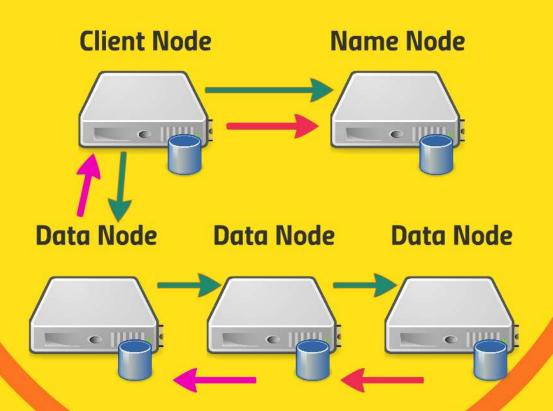
Data Node



Reading a File



Writing a File





Back Up Metadata

Namenode writes to local disk and NFS

Secondary Namenode

Maintains merged copy of edit log you can restore from

Using HDFS

UI (Ambari)
Command-Line Interface
HTTP / HDFS Proxies
Java interface
NFS Gateway