## Hadoop distributed file system: - (HDFS)

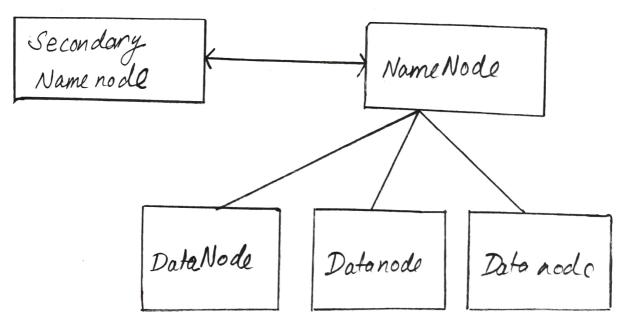
· It is the eforage component of Hadoop that stores data in the form of files.

· Each file is divided into blocks of 128 MB (Configurable) and stores them on different machines in the cluster.

# Components of MDFS:-

It has a master-slave archietecture with two main components: I. Name node

2. Data node



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H Name node is the master node and there is only one per cluster. Its task is to know where lach block belonging to a fele is lying in the cluster.

- · Master daemon
- · Main fains and manages Data nodes
- · Records Metadata eg. location of block stored, the size of files, per missions, hierarchy dc.
- · Receiver heartbeat and block report from all the Data nodes.

# Data node is the slave node that stores the blocks of data and there are more than one per blocks of data and there are more than one per cluster. Its task is to retrieve the data as and when required. It keeps in constant touch with the Namenodo through heart beats.

- · Slave daemons
- . Stores actual dat
- . Serves read and write requests.

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