HDFS Architecture Part - 1



HDFS Hadoop Distributed File System

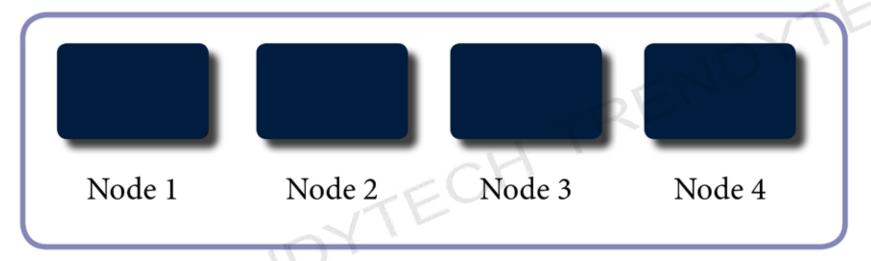
by Sumit Mittal













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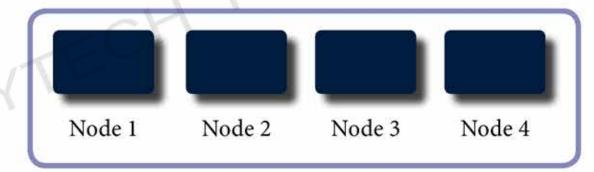
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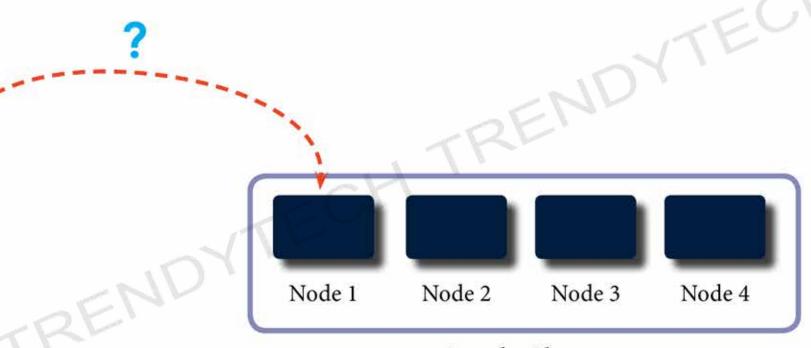
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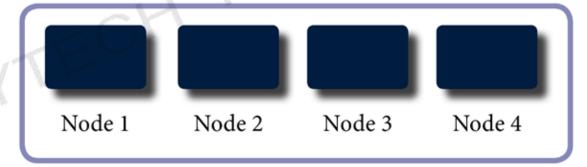
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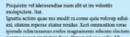
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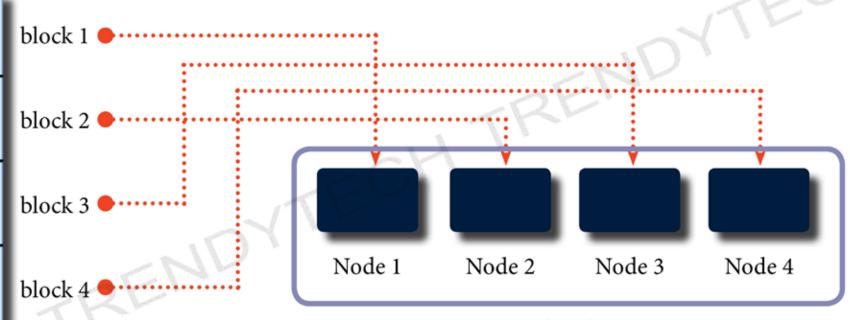
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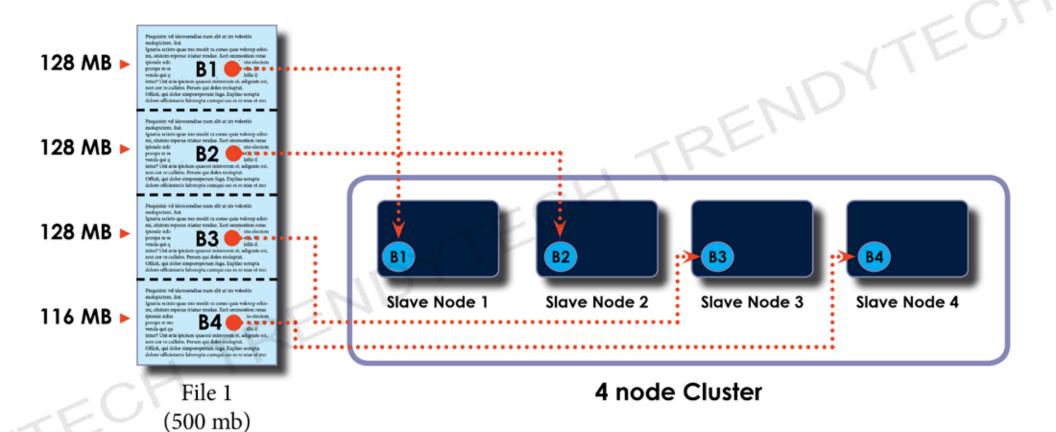
HDFS Block Size



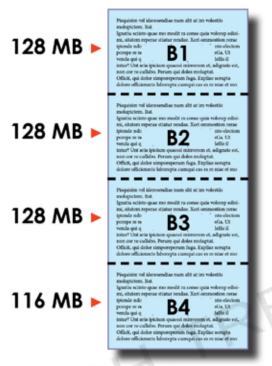


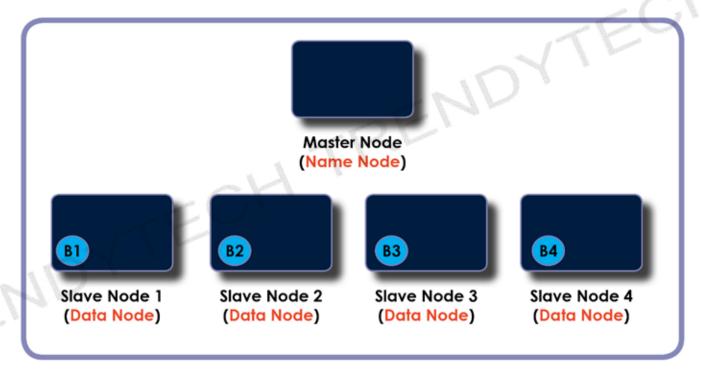
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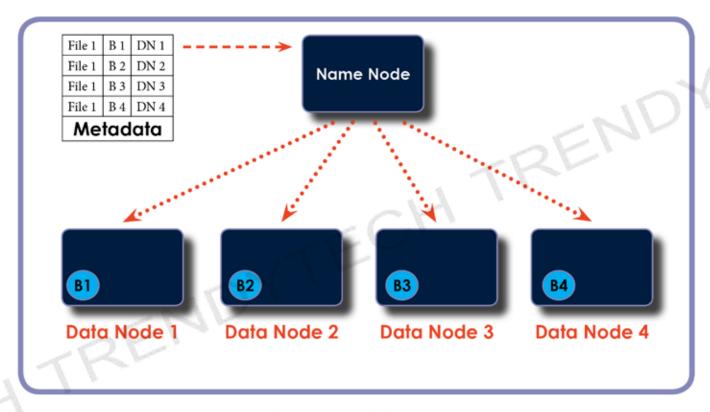




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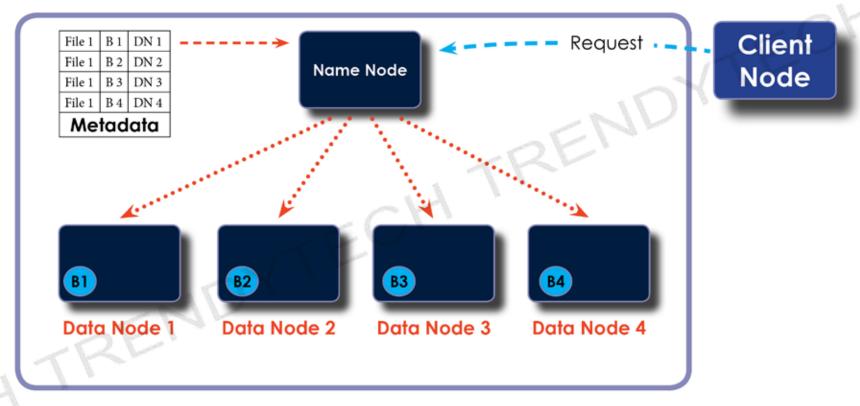
4 node Cluster





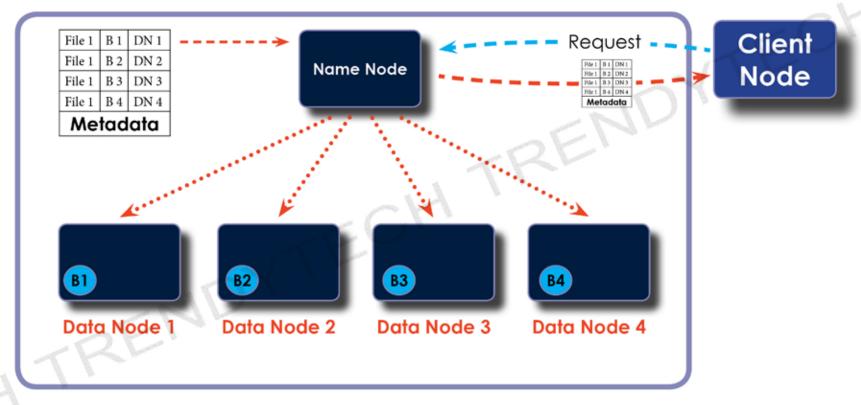
4 node Cluster





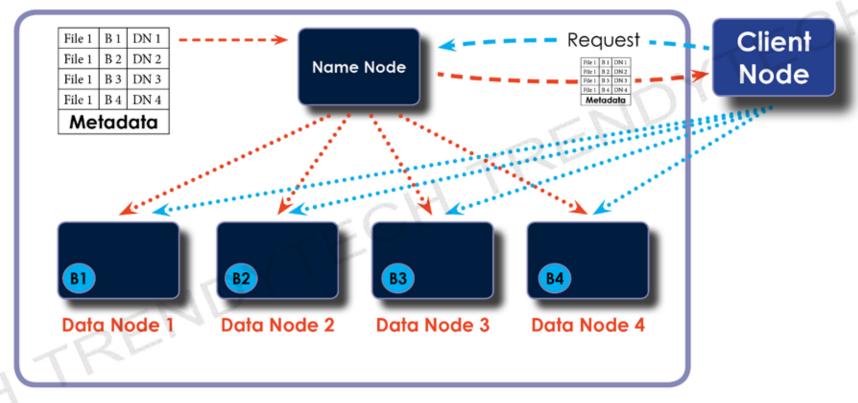
4 node Cluster





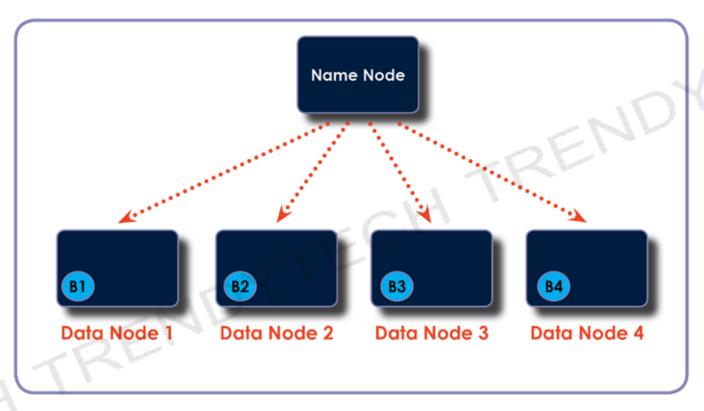
4 node Cluster





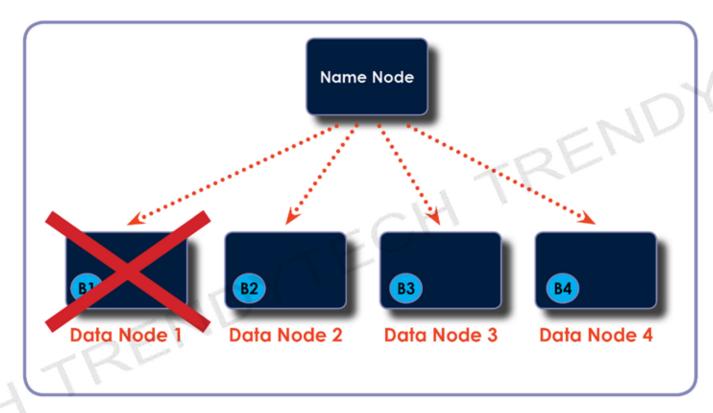
4 node Cluster





4 node Cluster



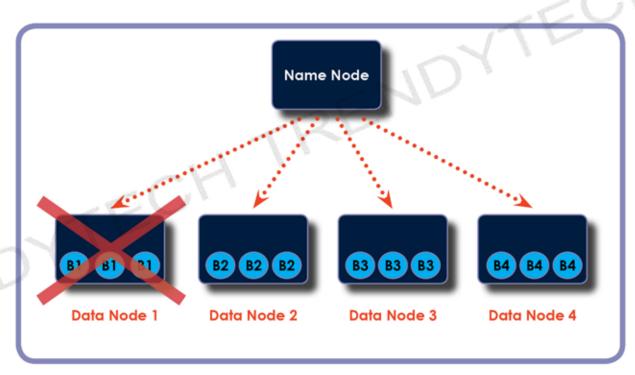


4 node Cluster



Replication Factor

Default Hadoop Replication Factor:

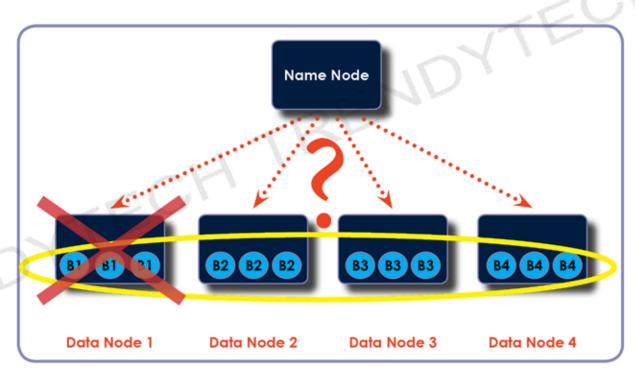


4 node Cluster



Replication Factor

Default Hadoop Replication Factor:

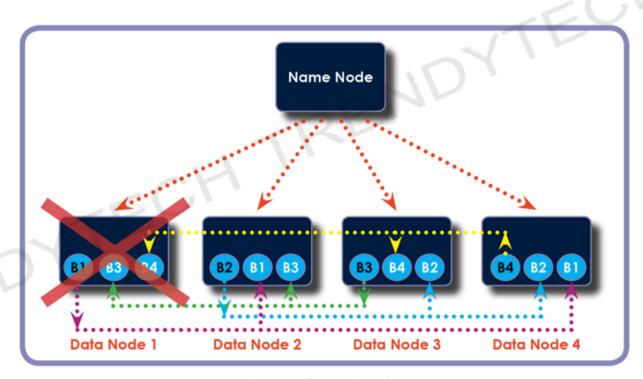


4 node Cluster



Replication Factor

Default Hadoop Replication Factor:

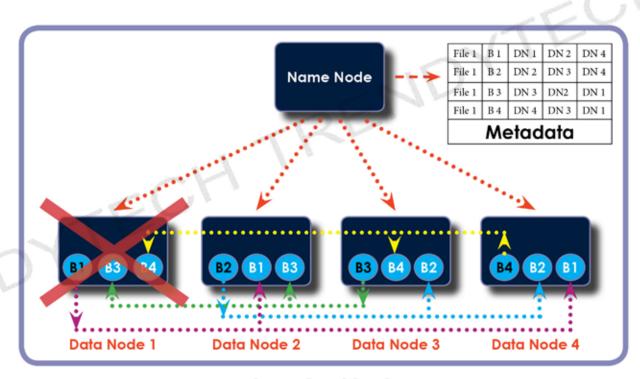


4 node Cluster



Replication Factor

Default Hadoop Replication Factor:



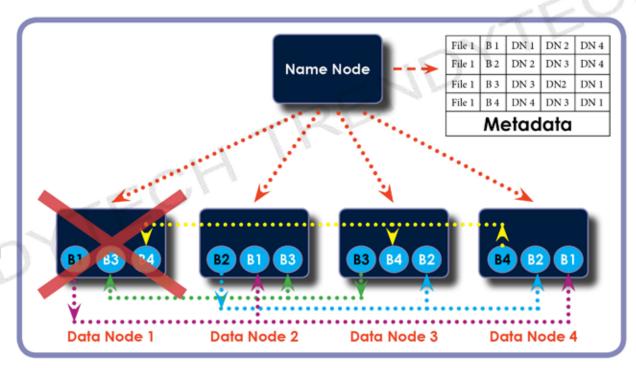
4 node Cluster



Replication Factor

Default Hadoop Replication Factor: **3**

We can change Replication Factor as per our requirements



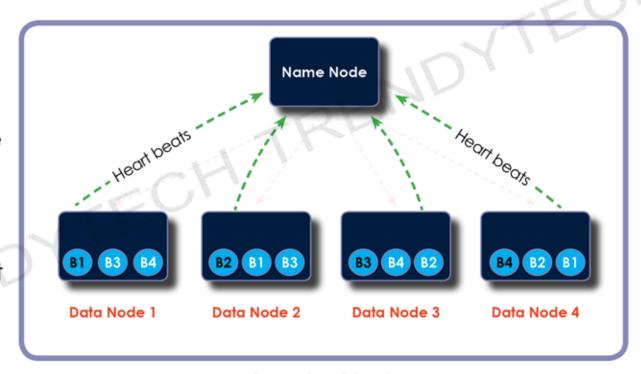
4 node Cluster



Heart Beat

Each Data Node sends heart beats to Name Node in every **3** seconds

If a Name Node doesn't receive **10** consecutive heart beats, it assumes that the Data Node is dead or running very slow

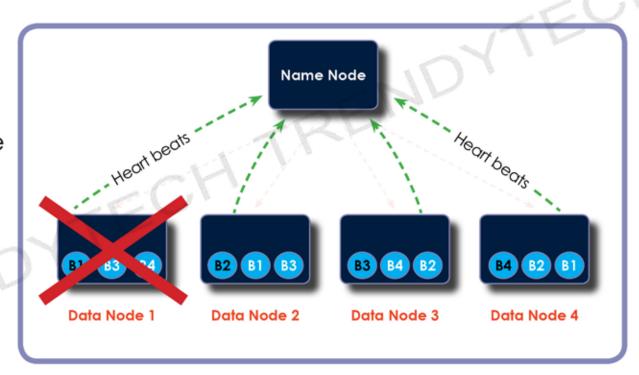


4 node Cluster



Fault Tolerance

If a Data Node goes down the replication factor came down to < 3



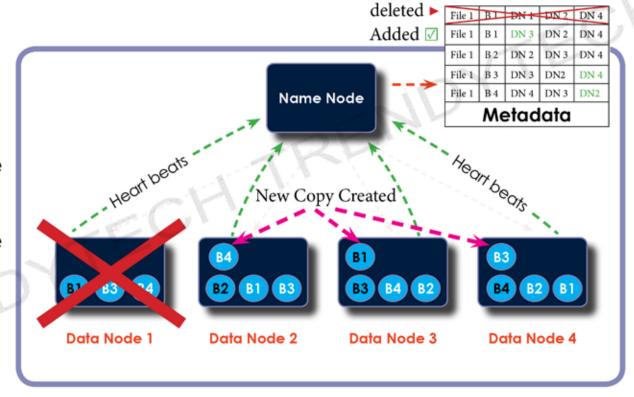
4 node Cluster



Fault Tolerance

If a Data Node goes down the replication factor came down to < 3

Name Node will create one more copy to maintain the replication factor



4 node Cluster



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