HDFS Architecture Part - 1



HDFS Hadoop Distributed File System

by Sumit Mittal



IMPORTANT

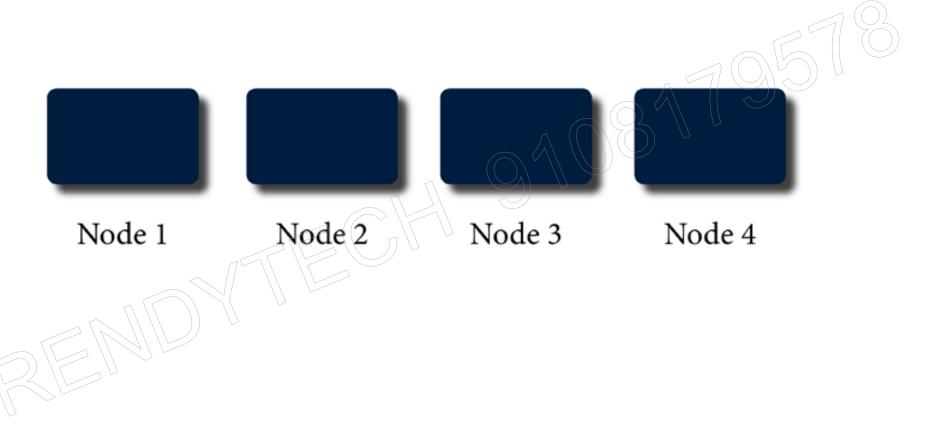
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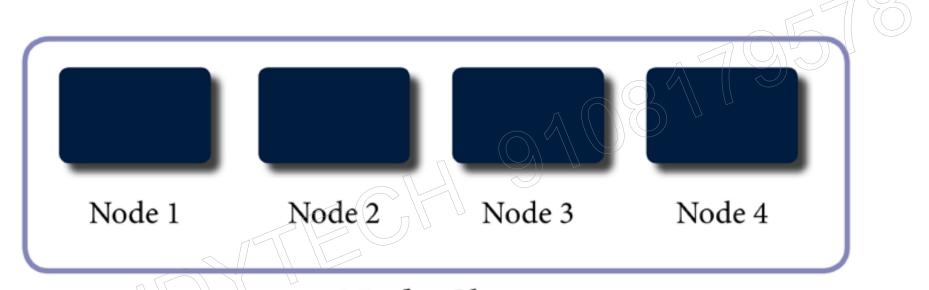
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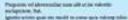






4 Node Cluster





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4 node Cluster

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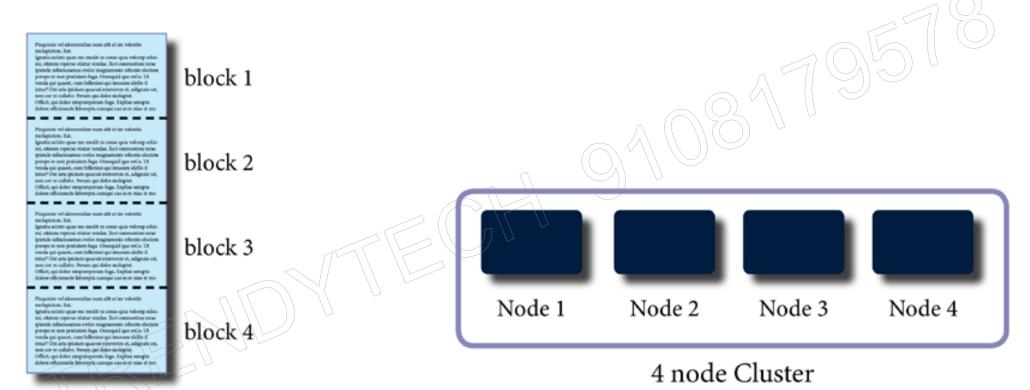
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Node 1 Node 2 Node 3 Node 4

4 node Cluster

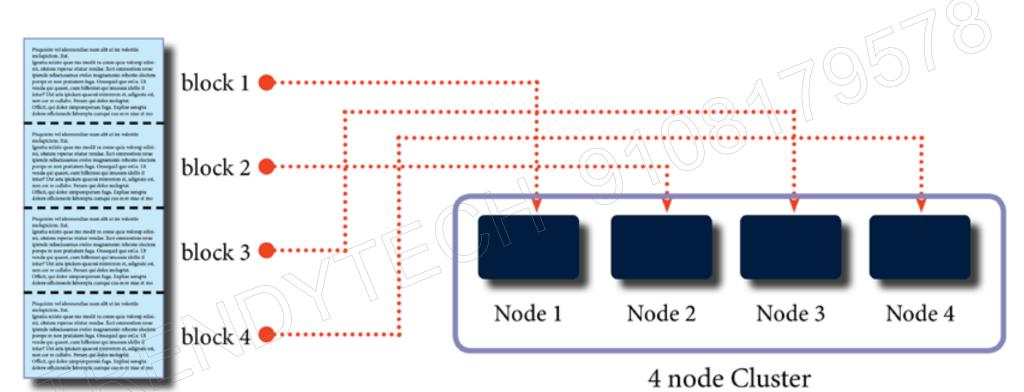
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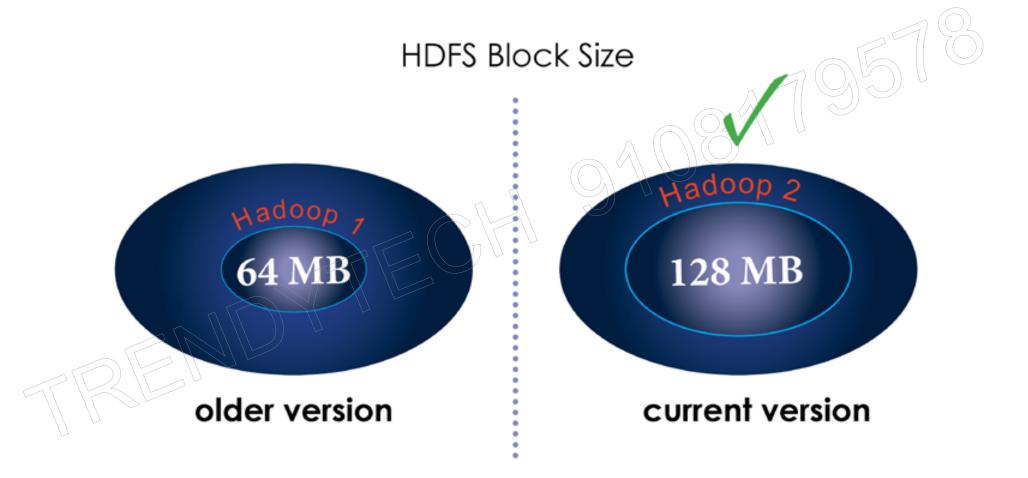
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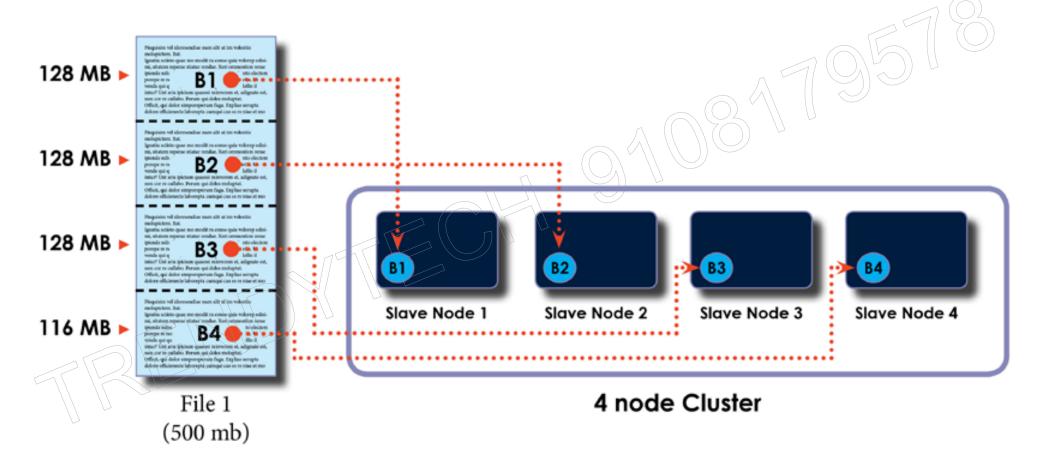


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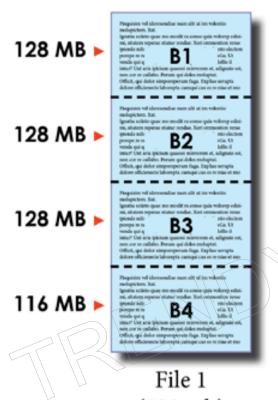


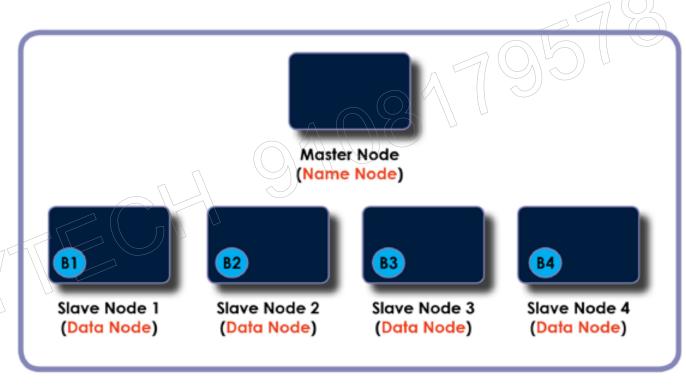






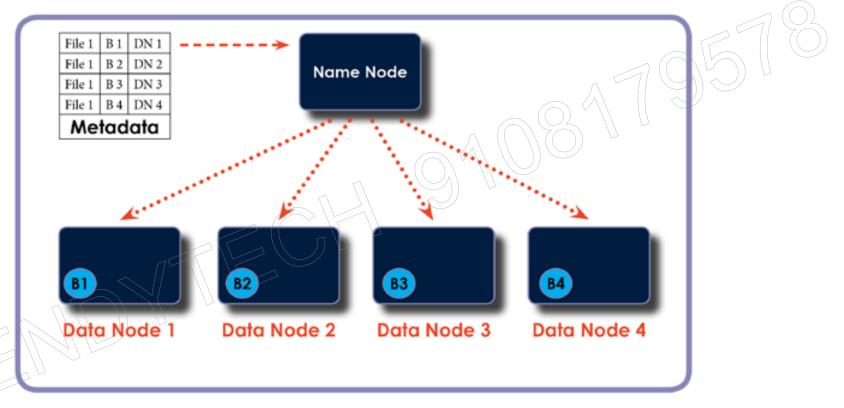






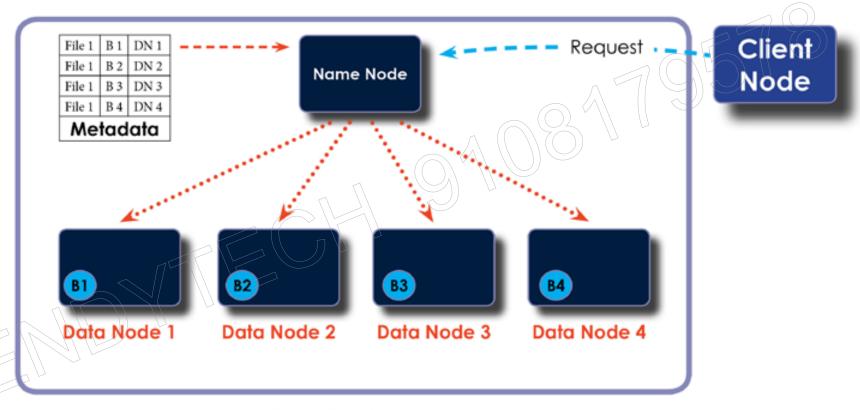
4 node Cluster





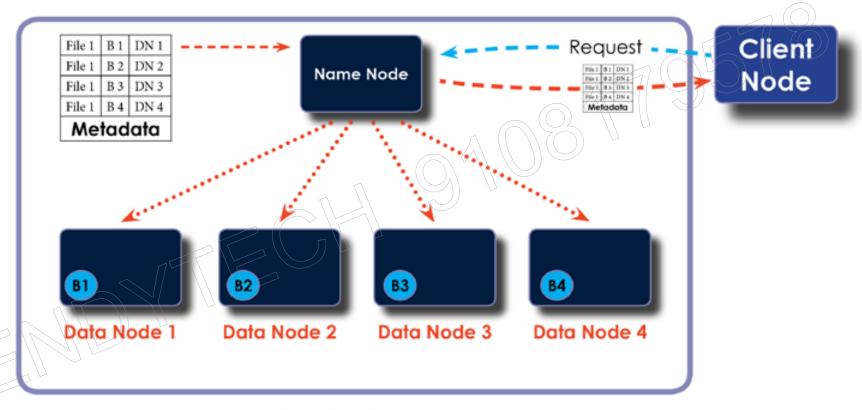
4 node Cluster





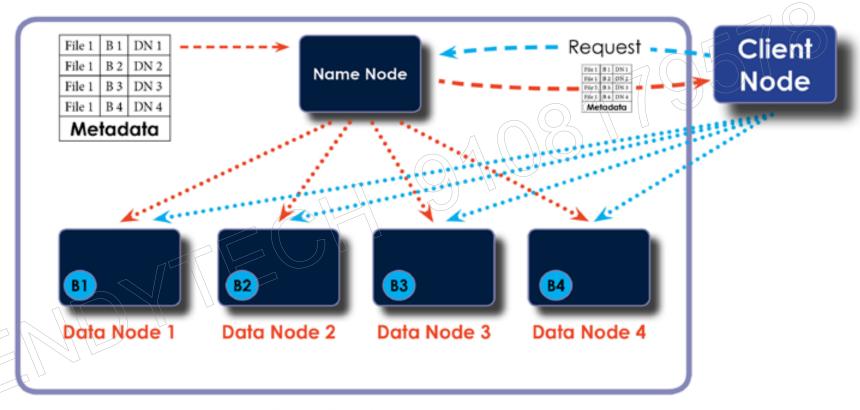
4 node Cluster





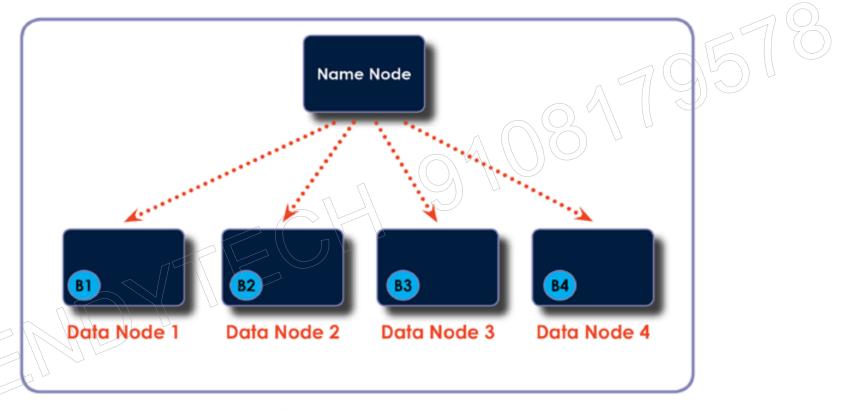
4 node Cluster





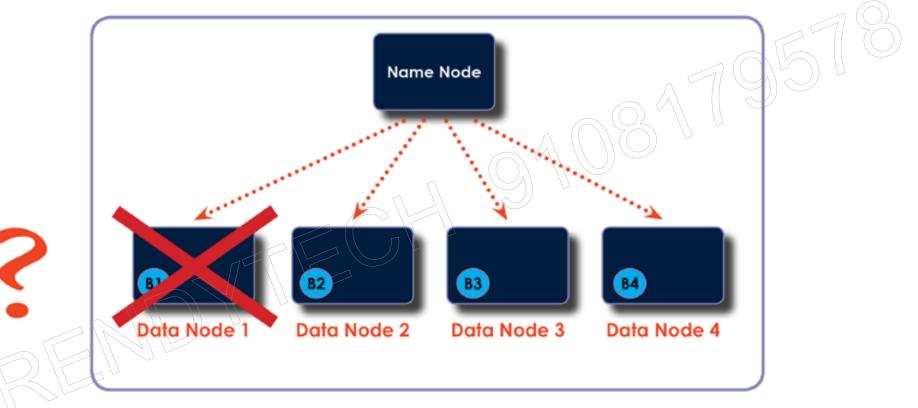
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4 node Cluster





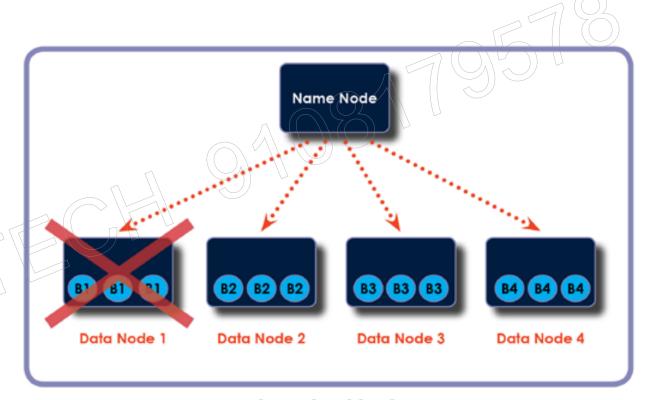
4 node Cluster



Replication Factor

Default Hadoop Replication Factor:

3



4 node Cluster



Replication Factor

Default Hadoop Replication Factor:

Name Node Data Node 1 Data Node 2 Data Node 3 Data Node 4

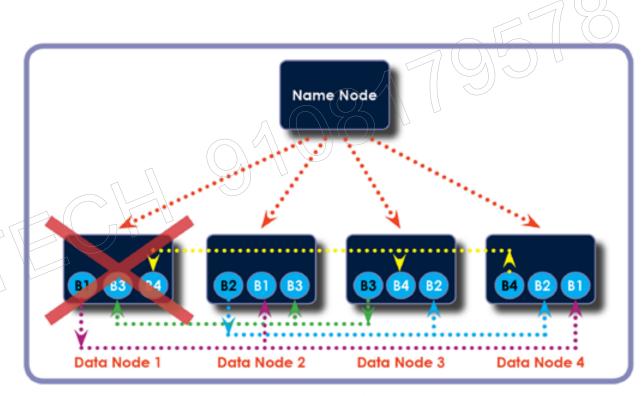
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Replication Factor

Default Hadoop Replication Factor:

3



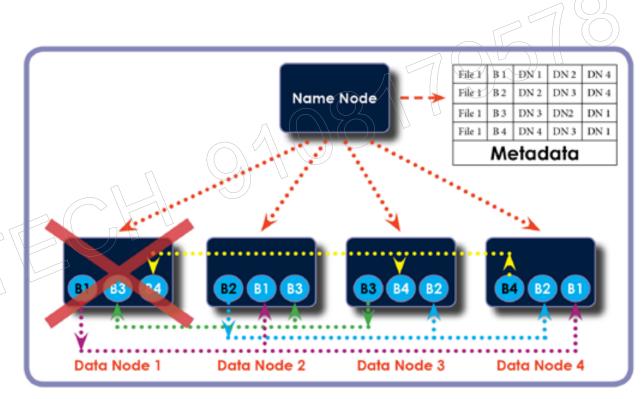
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Replication Factor

Default Hadoop Replication Factor:

3



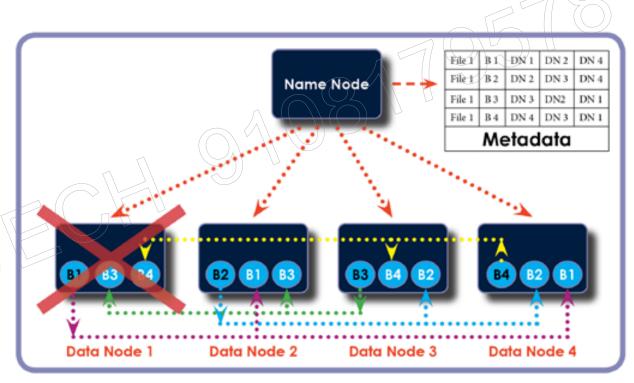
4 node Cluster



Replication Factor

Default Hadoop Replication Factor: **3**

We can change Replication Factor as per our requirements



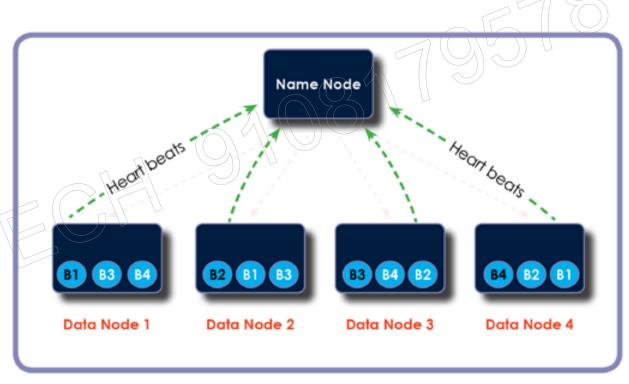
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Heart Beat

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

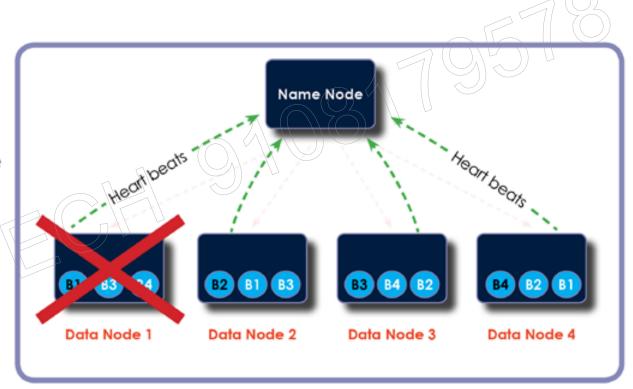


4 node Cluster



Fault Tolerance

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



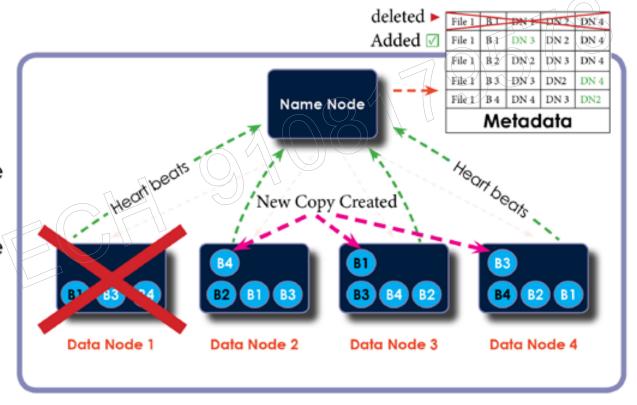
4 node Cluster



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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