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Assignment

1.How many such Data Nodes you would need to read 100TB data in 5 minutes in your Hadoop Cluster?

Ans-1

Reading 100 TB data at a speed of 100 MB/s using only 1 node would take

Total data / Read-write speed
100 * 1024 * 1024 / 100=1048576 seconds

for 5 minutes=5*60=300sec

now,to calculate data nodes required for 5 minutes(300sec)
1048576 / 300 =3495.253333333

3495 Data Nodes