Remove a Datanode

1. Decommission a host gracefully cproperty> <name>dfs.hosts.exclude</name> <value>/home/hadoop/excludes</value> <final>true</final> </property> Similarly for Jobtracker. property> <name>mapred.hosts.exclude</name> <value>/home/hadoop/excludes</value> <final>true</final> </property> mapred.hosts.exclude in mapred-site.xml 2. Add the FQDN to the exclude file and refresh the Configurations 3. Update for the Namenode >hadoop dfsadmin -refreshNodes 4. Update for Jobtracker >hadoop mradmin -refreshNodes Add Hosts: 1. dfs.hosts in the hdfs-site.xml, mapred.hosts ______ Cluster Balancing ----->hadoop balancer -threshold 40 _____

Add Disk Space to a datanode

How do you add storage to cluster

Hadoop Backup and Recovery

- 1. Secondary namenode checkpointing
- If you want to explicitly specify the file to be used by the namenode hadoop-daemons.sh --hosts masters start secondarynamenode hdfs secondarynamenode -checkpoint force
- 2. hadoop namenode -importCheckpoint

3. Save NameSpace

hadoop dfsadmin -safemode enter

hadoop dfsadmin -saveNamespace

Remember it updates under the Namespace directory.

4. Metadata Save

hdfs dfsadmin -metasave filename.txt

5. Can do a detailed view of the namespace (above 0.21)

hdfs oiv -i /data/namenode/current/fsimage -o fsimage.txt

Hadoop Upgrade

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- hadoop dfsadmin -upgradeProgress status
- 2. Stop all client applications running on the MapReduce cluster.

- 3. Perform a filesystem check
 hadoop fsck / -files -blocks -locations > dfs-v-old-fsck-1.log
- 4. Save a complete listing of the HDFS namespace to a local file hadoop dfs -lsr / > dfs-v-old-lsr-1.log
- 5. Create a list of DataNodes participating in the cluster: hadoop dfsadmin -report > dfs-v-old-report-1.log
- 6. Optionally backup HDFS data
- 7. Upgrade process:

 Point to the new directory, update environment variables.
- 8. hadoop-daemon.sh start namenode -upgrade
- 9. hadoop dfsadmin -upgradeProgress status
- 10. Now start the datanode, after pointing to the new hadoop directory
- 11. hadoop dfsadmin -safemode get
- 12. hadoop dfsadmin -finalizeUpgrade

Applying Quota

hadoop dfsadmin -setSpaceQuota 1m

dfsadmin -setQuota <N> <directory>

dfsadmin -clrQuota <directory>

dfsadmin -setSpaceQuota <N>

dfsadmin -clrSpaceQuota

Distop

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hadoop distcp hdfs://nn1:8020/foo/bar hdfs://nn2:8020/bar/foo

hdfs://nn1:8020/foo/a hdfs://nn1:8020/foo/b

hadoop_distcp hdfs://nn1.cluster1.com:9000/jobtracker

hdfs://nn1.cluster1.com:9000/newtracker