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| Existing Cluster with New Second MetaData Path |
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# Existing Cluster with New Second Metadata Path

Problem statement: You have a cluster running with single metadata path mentioned under dfs.name.dir .If you decide to start running your cluster with dual metadata path to ensure more fault tolerance and make your cluster more safe, how would you do it.?

Currently you have

<property>

<name>dfs.name.dir</name>

<value>/abc/name</value>

</property>

/abc/name----has your meta deta

Now create a directory under root or your preferred location.

/abc/name2---this would have your second copy of metadata

Give ownership to your hadoop admin userid ,like

sudo chown -R hduser:hadoop /abc/name2

Now our task is get metadata in this path

So, stop your namenode

bin/hadoop-daemon.sh stop namenode

Edit your hdfs-site.xml to add second path

<property>

<name>dfs.name.dir</name>

<value>/abc/name2</value>------------->new path

</property>

Add one more parameter

</property>

<name>fs.checkpoint.dir</name>

<value>/abc/name</value>----------------------->we alredy have our metadata here

</property>

Save it. Now from your hadoop path

/usr/local/hadoop

Give a command

bin/hadoop namenode -importCheckpoint

This starts your namenode and also brings metadata from existing path into new path

confirm if /abc/name2 has copy of metadata

Trying stopping namenode, it gives no namenode to stop

kill -9 PID of NN

Now edit your hdfs-site.xml again no fs.checkpoint.dir paramter required and dfs.name.dir will have <value>/abc/name,/abc/name2</value>. Save.

Start your namenode

Result: You have NN running with dual metadata path

Optionally: You could have mounted /abc/name2 on NFS

( As explained in "command list for hadoop components and HA")