## **Federation Setup**

In this setup document we are going to deploy two namenode(bank,online) in a single cluster.

## prerequisite

If you setup HA then Take a backup of your existing core-site.xml and hdfs-site.xml.

```
mkdir -p ~/bcp conf/ha
cp /usr/local/hadoop/etc/hadoop/core-site.xml
/usr/local/hadoop/etc/hadoop/hdfs-site.xml ~/bcp conf/ha
1. Edit or add below settings in core-site.xml
vi /usr/local/hadoop/etc/hadoop/core-site.xml
cproperty>
<name>fs.defaultFS</name>
<value>viewfs://MyCluster</value>
</property>
property>
    <name>fs.viewfs.mounttable.MyCluster.link./bank</name>
    <value>hdfs://namenode:9000/bank</value>
</property>
property>
    <name>fs.viewfs.mounttable.MyCluster.link./online
    <value>hdfs://datanode2:9000/online</value>
</property>
2. Add below settings in hdfs-site.xml
(keep as it is ur namenode.name.dir,datanode.data.dir and replication
settings)
vi /usr/local/hadoop/etc/hadoop/hdfs-site.xml
property>
 <name>dfs.nameservices</name>
 <value>bank,online</value>
 </property>
 property>
    <name>dfs.namenode.rpc-address.bank</name>
    <value>namenode:9000</value>
</property>
cproperty>
    <name>dfs.namenode.http-address.bank</name>
    <value>namenode:50070</value>
</property>
property>
```

```
<name>dfs.namenode.rpc-address.online
    <value>datanode2:9000</value>
</property>
property>
    <name>dfs.namenode.http-address.online
    <value>datanode2:50070</value>
</property>
3. Format namenode in both nodes.
In the bank namenode
hdfs namenode -format
copy the cluster id from the logs or from VERSION file and use that id while
formatting subsequent namenodes, In our case we are going to use that id For
our onlie namenode.
hdfs namenode -format -clusterId CID-384797d3-94d5-45ff-ad3a-2e324d119d3e
4. start namenode in both the nodes
hadoop-daemon.sh start namenode
5. Start datanode in all three nodes
hadoop-daemon.sh start datanode
6. Now check both namenode ui in browser.
7. run the below command to creta bank and online dir .
hadoop fs -mkdir hdfs://namenode:9000/bank
hadoop fs -mkdir hdfs://datanode2:9000/online
hadoop fs -mkdir /bank/bankdata
hadoop fs -mkdir /online/onlinedata
```

8. check namenode ui in both namenodes and browse the files sytem.

hadoop fs -put somefile /bank/bankdata

hadoop fs -put somefile /online/onlinedata