

PART I Hadoop Command

一. 用户命令

1. archive

```
hadoop archive -archiveName NAME -p <parent path> <src>* <dest>
```

例子：

命令	Description	结果
bin/hadoop archive -archiveName 11.har -p /test a b	将/test 下的 a 文件夹归档到/test/b 文件夹下	×

2. distcp

用于集群内部或者集群之间递归地拷贝文件或目录。用法：

```
hadoop distcp [选项] <srcurl> <desturl>
```

选项	命令	Description	结果
无	bin/hadoop distcp hdfs://localhost:9000/test/a hdfs://localhost:9000/test		×
-m	bin/hadoop distcp -m 2 hdfs://localhost:9000/test/a hdfs://localhost:9000/test	表示启用多少 map	×
-delete	bin/hadoop distcp -delete -update hdfs://localhost:9000/test hdfs://localhost:9000/test/a	删除已经存在的目标文件，不会 删除源文件	×
-i	bin/hadoop distcp -i hdfs://localhost:9000/test/a hdfs://localhost:9000/test	忽略失败	×
-overwrite	bin/hadoop distcp -overwrite hdfs://localhost:9000/test/a hdfs://localhost:9000/test	覆盖目标	×
-update	bin/hadoop distcp -update hdfs://localhost:9000/test/a hdfs://localhost:9000/test	更新目标	×

3. fs

用法： bin/hadoop fs [COMMAND_OPTIONS]

选项名称	命令	含义	结果
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-ls	bin/hadoop fs -ls /	查看指定路径的当前目录结构	√
-lsr	bin/hadoop fs -lsr /	查看指定路径的当前目录结构	√
-du	bin/hadoop fs -du /	统计目录下各文件大小	√
-dus	bin/hadoop fs -dus /	统计目录下所有文件大小	√
-count	bin/hadoop fs -count /	统计文件(夹)数量	√
-mv	bin/hadoop fs -mv /test2.txt /test1	移动	√
-cp	bin/hadoop fs -cp /test2.txt /test/a	复制	√
-rm	bin/hadoop fs -rm /test.txt	删除文件/空白文件夹	√
-rmr	bin/hadoop fs -rmr /test/a	递归删除	√
-put	bin/hadoop fs -put /home/beaver/Documents/test/hadoop/test.txt /test/b	从本地上传文件到 hdfs	√
-copyFromLocal	bin/hadoop fs -copyFromLocal /home/beaver/Documents/test/hadoop/test.txt /	从本地复制到 hdfs	√
-moveFromLocal	bin/hadoop fs -moveFromLocal /home/beaver/Documents/test/hadoop/test2.txt /	从本地移动到 hdfs	√
-getmerge	bin/hadoop fs -getmerge /test/a /home/beaver/Documents/test/hadoop/	合并到本地	√
-cat	bin/hadoop fs -cat /test.txt	查看文件内容	√
-text	bin/hadoop fs -text /test2.txt	查看文件内容	√
-copyToLocal	bin/hadoop fs -copyToLocal /test2.txt /home/beaver/Documents/test/hadoop/hdfs/	从 hdfs 复制到本地	√
-moveToLocal	bin/hadoop fs -moveToLocal /test.txt /home/beaver/Documents/test/hadoop/hdfs/	从 hdfs 移动到本地	✗
-mkdir	bin/hadoop fs -mkdir /test2	创建空白文件夹	√
-setrep	bin/hadoop fs -setrep 2 /test.txt	修改副本数量	√
-touchz	bin/hadoop fs -touchz /test3.txt	创建空白文件	√
-stat	bin/hadoop fs -stat /	显示文件统计信息	√
-tail	bin/hadoop fs -tail /test.txt	查看文件尾部信息	√
-chmod	bin/hadoop fs -chmod 777 /test.txt	修改权限	√
-chown	bin/hadoop fs -chown -r /test	修改属主	√
-chgrp	bin/hadoop fs -chgrp -r /test2	修改属组	√
-help	bin/hadoop fs -help	帮助	√

-get	bin/hadoop fs -get /test3.txt /home/beaver/Documents/test/hadoop/hdfs/	从 hdfs 上下载文件到本地	√
-expunge	bin/hadoop fs -expunge	清空回收站	√
-test	bin/hadoop fs -test -d /test	-e 检查文件是否存在。如果存在则返回 0。 -z 检查文件是否是 0 字节。如果是则返回 0。 -d 如果路径是个目录，则返回 1，否则返回 0。	√

4. fsck

```
bin/hadoop fsck <path> [-move|-delete|-openforwrite] [-files [-blocks [-locations | -racks]]]
```

选项	命令	Description	结果
无	bin/hadoop fsck /		√
- move	bin/hadoop fsck / -move	破损的文件移至/lost+found 目录	√
- delete	bin/hadoop fsck / -delete	删除破损的文件	√
- openforwr ite	bin/hadoop fsck / -openforwrite	打印正在打开写操作的文件	√
- files	bin/hadoop fsck / -files	打印正在 check 的文件名	√
- blocks	bin/hadoop fsck / -files -blocks	打印 block 报告 (需要和 -files 参数一起使用)	√
- locations	bin/hadoop fsck / -files -blocks -locations	打印每个 block 的位置信息 (需要和 -files 参数一起使用)	√
- racks	bin/hadoop fsck / -files -blocks -racks	打印位置信息的网络拓扑图 (需要和 -files 参数一起使用)	√

5. jar

```
hadoop jar <jar> [mainClass] args...
```

命令	Description	结果
bin/hadoop jar /home/hadoop/hadoop-1.1.1/hadoop-examples.jar wordcount input output	运行 wordcount 程序	✗

6. job

```
hadoop job [-submit] | [-status] | [-counter] | [-kill] |
```

`[-events <#-of-events>] | [-history [all]] | [-list [all]] | [-kill-task] | [-fail-task]`

参数选项	Description
<code>-submit <job-file></code>	提交作业
<code>-status <job-id></code>	打印 map 和 reduce 完成百分比和所有计数器
<code>-counter <job-id> <group-name> <counter-name></code>	打印计数器的值
<code>-kill <job-id></code>	杀死指定作业
<code>-events <job-id> <from-event-#> <#-of-events></code>	打印给定范围内 jobtracker 接收到的事件细节
<code>-history [all]</code>	打印作业的细节、失败及被杀死原因的细节
<code>-list [all]</code>	<code>-list all</code> 显示所有作业。 <code>-list</code> 只显示将要完成的作业
<code>-kill-task <task-id></code>	杀死任务。被杀死的任务不会不利于失败尝试
<code>-fail-task <task-id></code>	使任务失败。被失败的任务会对失败尝试不利

7. pipes

```
hadoop pipes [-conf <path>] [-jobconf <key=value>,
<key=value>, ...] [-input <path>] [-output <path>] [-jar <jar
file>] [-inputformat <class>] [-map <class>] [-partitioner
<class>] [-reduce <class>] [-writer <class>] [-program
<executable>] [-reduces <num>]
```

选项	命令	Description	结果
<code>-conf <path></code>		作业的配置	
<code>-jobconf <key=value>, <key=value>, ...</code>		增加/覆盖作业的配置项	
<code>-input <path></code>	<code>bin/hadoop pipes -input /test/b</code>	输入目录	×
<code>-output <path></code>	<code>bin/hadoop pipes -output /test</code>	输出目录	×
<code>-jar <jar file></code>	<code>bin/hadoop pipes -jar /hadoop-examples-1.2.1.jar</code>	jar 文件	×
<code>-inputformat <class></code>		InputFormat 类	
<code>-map <class></code>		Java Map 类	
<code>-partitioner <class></code>		Java Partitioner	
<code>-reduce <class></code>		Java Reduce 类	
<code>-writer <class></code>		Java RecordWriter	
<code>-program <executable></code>		可执行程序的 URI	
<code>-reduces <num></code>		reduce 个数	

9 . queue

```
hadoop queue [-list] | [-info <job-queue-name> [-showJobs]] | [-showacls]
```

选项	命令	Description	结果
-list	bin/hadoop queue -list	获取系统中配置的作业队列的列表。除了与作业队列调度相关的信息。	✗
-info <job-queue-name> [-showJobs]		显示作业队列中的信息和相关的调度信息，特别是工作队列。如果 -showJobs 选项是目前的工作提交到特定的工作队列显示的列表。	
-showacls	bin/hadoop queue -showacls	显示队列名称和允许当前用户的操作相关的队列。这个列表只显示用户可以访问的。	✗

10. version

命令	结果
bin/hadoop version	✓

11.CLASSNAME

命令	结果
hadoop CLASSNAME	

12.classpath

命令	结果
hadoop classpath	✓

三. 管理命令

1. datanode

```
hadoop datanode [-rollback]
```

参数选项	命令	Description	结果
无	bin/hadoop datanode		✗
-rollback	bin/hadoop datanode -rollback	将 datanode 回滚到前一个版本。这需要在停止 datanode，分发老的 hadoop 版本之后使用。	✗

2. namenode

```
hadoop namenode [-format] | [-upgrade] | [-rollback] | [-finalize] | [-importCheckpoint]
```

参数选项	命令	Description	结果
-format	bin/hadoop namenode -format	格式化 namenode。它启动 namenode，格式化 namenode，之后关闭 namenode	√
-upgrade	bin/hadoop namenode -upgrade	分发新版本的 hadoop 后，namenode 应以 upgrade 选项启动	✗
-rollback	bin/hadoop namenode -rollback	将 namenode 回滚到前一版本。这个选项要在停止集群，分发老的 hadoop 版本后使用	✗
-finalize	bin/hadoop namenode -finalize	finalize 会删除文件系统的前一状态。最近的升级会被持久化，rollback 选项将再不可用，升级终结操作之后，它会停掉 namenode	√
-importCheckpoint	bin/hadoop namenode -importCheckpoint	从检查点目录装载镜像并保存到当前检查点目录，检查点目录由 fs.checkpoint.dir 指定	✗

3.secondarynamenode

```
hadoop secondarynamenode [-checkpoint [force]] | [-geteditsize]
```

参数选项	命令	Description	结果
无	bin/hadoop secondarynamenode		✗
-checkpoint [force]	bin/hadoop secondarynamenode -checkpoint	如果 EditLog 的大小 >= fs.checkpoint.size，启动 Secondary namenode 的检查点过程。如果使用了 -force，将不考虑 EditLog 的大小。	✗
-geteditsize	secondarynamenode -geteditsize	打印 EditLog 大小	✗

4. tasktracker

命令	结果
bin/hadoop tasktracker	✗

5. balancer

```
hadoop balancer [-threshold <threshold>]
```

参数选项	命令	Description	结果
无	bin/hadoop balancer		√
-threshold <threshold>	bin/hadoop balancer -threshold 2	磁盘容量的百分比。这将覆盖默认阈值。	√

6 . dfsadmin

```
hadoop dfsadmin [GENERIC_OPTIONS] [-report] [-safemode enter | leave | get | wait] [-refreshNodes] [-finalizeUpgrade] [-upgradeProgress status | details | force] [-metasave filename] [-setQuota <quota> <dirname>...<dirname>] [-clrQuota <dirname>...<dirname>] [-help [cmd]]
```

参数选项	命令	Description	结果
-report	bin/hadoop dfsadmin -report	报告文件系统的基本信息和统计信息。	√
-safemode enter leave get wait	bin/hadoop dfsadmin -safemode enter leave get wait	安全模式维护命令。安全模式是 Namenode 的一个状态，这种状态下，Namenode 1. 不接受对名字空间的更改(只读) 2. 不复制或删除块 Namenode 会在启动时自动进入安全模式，当配置的块最小百分比数满足最小的副本数条件时，会自动离开安全模式。安全模式可以手动进入，但是这样的话也必须手动关闭安全模式。	√
-refreshNodes	bin/hadoop dfsadmin -refreshNodes	重新读取 hosts 和 exclude 文件，更新允许连到 Namenode 的或那些需要退出或入编的 Datanode 的集合。	√
-finalizeUpgrade	bin/hadoop dfsadmin -finalizeUpgrade	终结 HDFS 的升级操作。Datanode 删除前一个版本的工作目录，之后 Namenode 也这样做。这个操作完结整个升级过程。	√
-upgradeProgress status details force	bin/hadoop dfsadmin -upgradeProgress status details force	请求当前系统的升级状态，状态的细节，或者强制升级操作进行。	√
-metasave filename	bin/hadoop dfsadmin -metasave /test.txt	保存 Namenode 的主要数据结构到 hadoop.log.dir 属性指定的目录下的 <filename> 文件。对于下面的每一项，<filename> 中都会一行内容与之对应 1. Namenode 收到的 Datanode 的心跳信号 2. 等待被复制的块 3. 正在被复制的块 4. 等待被删除的块	√
-setQuota <quota> <dirname>...<dirname>	bin/hadoop dfsadmin -setQuota 4 /test	为每个目录 <dirname> 设定配额 <quota>。目录配额是一个长整型整数，强制限定了目录树下的名字个数。 命令会在这个目录上工作良好，以下情况会报错：	√

		1. N 不是一个正整数 , 或者 2. 用户不是管理员 , 或者 3. 这个目录不存在或是文件 , 或者 4. 目录会马上超出新设定的配额。	
-clrQuota <dirname>...< dirname>	bin/hadoop dfsadmin -clrQuota /test	为每一个目录<dirname>清除配额设定。 命令会在这个目录上工作良好 , 以下情况会报错 : 1. 这个目录不存在或是文件 , 或者 2. 用户不是管理员。 如果目录原来没有配额不会报错。	√
-help [cmd]	bin/hadoop dfsadmin -help	显示给定命令的帮助信息 , 如果没有给定命令 , 则显示所有命令的帮助信息。	√

7. daemonlog

```
hadoop daemonlog -getlevel <host:port> <name>
```

```
hadoop daemonlog -setlevel <host:port> <name> <level>
```

参数选项	命令	Description	结果
-getlevel <host:por t> <name>	hadoop daemonlog -getlevel beaver-inter1:50070 org.apache.hadoop.mapred.JobTra cker	打印运行在<host:port>的守护进程的日志级别。这个命令内部会连接 <a href="http://<host:port>/logLevel?log=<name>">http://<host:port>/logLevel?log=<name>	√
-setlevel <host:por t> <name> <level>	hadoop daemonlog -setlevel beaver-inter1:50070 org.apache.hadoop.mapred.JobTra cker WARN	设置运行在<host:port>的守护进程的日志级别。这个命令内部会连接 <a href="http://<host:port>/logLevel?log=<name>">http://<host:port>/logLevel?log=<name>	√

8. mradmin

```
hadoop mradmin [-refreshQueueAcls]
```

参数选项	命令	Description	结果
- refre shQu ueAcls	bin/hadoop mradmin -refreshQueueAcls	更新 hadoop 使用的 queue acls , 在用户提 交和管理 job 期间检查访问。队列管理器重载 mapred-queue-acls.xml 中的属性。	✗

9. jobtracker

```
hadoop jobtracker [-dumpConfiguration]
```

参数选项		Description	结果
- dumpConfigu ration	bin/hadoop jobtracker -dumpConfiguration	将 JobTracker 的配置和 JSON 格式的队列 配置转储到 jobtracker 使用的标准输出	√

运行结果

一. 用户命令

1. archive

(1) bin/hadoop archive -archiveName 11.har -p /test2 a b

```
beaver@beaver-inter1:~/deploy/hadoop-1.2.1-new$ bin/hadoop archive -archiveName 11.har -p /te
st a b
Warning: $HADOOP_HOME is deprecated.

16/08/11 14:25:42 INFO hdfs.DFSClient: DFSClient, token=null
java.io.IOException: java.lang.NullPointerException
        at org.apache.hadoop.util.BeaverCommonUtil.verifyToken(BeaverCommonUtil.java:101)
        at org.apache.hadoop.hdfs.server.namenode.NameNode.getFileInfo(NameNode.java:1042)
        at sun.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
        at sun.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl.java:57)
        at sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:
43)
        at java.lang.reflect.Method.invoke(Method.java:606)
        at org.apache.hadoop.ipc.RPC$Server.call(RPC.java:587)
        at org.apache.hadoop.ipc.Server$Handler$1.run(Server.java:1432)
        at org.apache.hadoop.ipc.Server$Handler$1.run(Server.java:1428)
        at java.security.AccessController.doPrivileged(Native Method)
        at javax.security.auth.Subject.doAs(Subject.java:415)
        at org.apache.hadoop.security.UserGroupInformation.doAs(UserGroupInformation.java:119
0)
        at org.apache.hadoop.ipc.Server$Handler.run(Server.java:1426)
```

2. distcp

(1) bin/hadoop distcp hdfs://localhost:9000/test/a hdfs://localhost:9000/test

```
beaver@beaver-inter1:~/deploy/hadoop-1.2.1-new$ bin/hadoop distcp hdfs://localhost:9000/test/
a hdfs://localhost:9000/test
Warning: $HADOOP_HOME is deprecated.

16/08/11 14:28:15 INFO tools.DistCp: srcPaths=[hdfs://localhost:9000/test/a]
16/08/11 14:28:15 INFO tools.DistCp: destPath=hdfs://localhost:9000/test
16/08/11 14:28:15 INFO hdfs.DFSClient: DFSClient, token=null
org.apache.hadoop.ipc.RemoteException: java.io.IOException: java.lang.NullPointerException
        at org.apache.hadoop.util.BeaverCommonUtil.verifyToken(BeaverCommonUtil.java:101)
        at org.apache.hadoop.hdfs.server.namenode.NameNode.getFileInfo(NameNode.java:1042)
        at sun.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
        at sun.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl.java:57)
        at sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:
43)
        at java.lang.reflect.Method.invoke(Method.java:606)
        at org.apache.hadoop.ipc.RPC$Server.call(RPC.java:587)
        at org.apache.hadoop.ipc.Server$Handler$1.run(Server.java:1432)
        at org.apache.hadoop.ipc.Server$Handler$1.run(Server.java:1428)
        at java.security.AccessController.doPrivileged(Native Method)
        at javax.security.auth.Subject.doAs(Subject.java:415)
        at org.apache.hadoop.security.UserGroupInformation.doAs(UserGroupInformation.java:119
0)
        at org.apache.hadoop.ipc.Server$Handler.run(Server.java:1426)

        at org.apache.hadoop.ipc.Client.call(Client.java:1113)
        at org.apache.hadoop.ipc.RPC$Invoker.invoke(RPC.java:229)
        at com.sun.proxy.$Proxy1.getFileInfo(Unknown Source)
        at sun.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
        at sun.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl.java:57)
        at sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:
43)
        at java.lang.reflect.Method.invoke(Method.java:606)
        at org.apache.hadoop.io.retry.RetryInvocationHandler.invokeMethod(RetryInvocationHand
ler.java:85)
        at org.apache.hadoop.io.retry.RetryInvocationHandler.invoke(RetryInvocationHandler.ja
va:62)
        at com.sun.proxy.$Proxy1.getFileInfo(Unknown Source)
        at org.apache.hadoop.hdfs.DFSClient.getFileInfo(DFSClient.java:1081)
        at org.apache.hadoop.hdfs.DistributedFileSystem.getFileStatus(DistributedFileSystem.j
ava:565)
        at org.apache.hadoop.fs.FileSystem.exists(FileSystem.java:788)
        at org.apache.hadoop.tools.DistCp.checkSrcPath(DistCp.java:636)
        at org.apache.hadoop.tools.DistCp.copy(DistCp.java:656)
        at org.apache.hadoop.tools.DistCp.run(DistCp.java:881)
        at org.apache.hadoop.util.ToolRunner.run(ToolRunner.java:65)
        at org.apache.hadoop.util.ToolRunner.run(ToolRunner.java:79)
        at org.apache.hadoop.tools.DistCp.main(DistCp.java:908)
```

(2)bin/hadoop distcp -m 2 hdfs://localhost:9000/test/a hdfs://localhost:9000/test

```
beaver@beaver-inter1:~/deploy/hadoop-1.2.1-new$ bin/hadoop distcp -m 2 hdfs://localhost:9000/test/a hdfs://localhost:9000/test
Warning: $HADOOP_HOME is deprecated.

16/08/11 14:32:13 INFO tools.DistCp: srcPaths=[hdfs://localhost:9000/test/a]
16/08/11 14:32:13 INFO tools.DistCp: destPath=hdfs://localhost:9000/test
16/08/11 14:32:13 INFO hdfs.DFSClient: DFSClient, token=null
org.apache.hadoop.ipc.RemoteException: java.io.IOException: java.lang.NullPointerException
    at org.apache.hadoop.util.BeaverCommonUtil.verifyToken(BeaverCommonUtil.java:101)
    at org.apache.hadoop.hdfs.server.namenode.NameNode.getFileInfo(NameNode.java:1042)
    at sun.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
    at sun.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl.java:57)
    at sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:43)
    at java.lang.reflect.Method.invoke(Method.java:606)
    at org.apache.hadoop.ipc.RPC$Server.call(RPC.java:587)
    at org.apache.hadoop.ipc.Server$Handler$1.run(Server.java:1432)
    at org.apache.hadoop.ipc.Server$Handler$1.run(Server.java:1428)
    at java.security.AccessController.doPrivileged(Native Method)
    at javax.security.auth.Subject.doAs(Subject.java:415)
    at org.apache.hadoop.security.UserGroupInformation.doAs(UserGroupInformation.java:119)
    at org.apache.hadoop.ipc.Server$Handler.run(Server.java:1426)

    at org.apache.hadoop.ipc.Client.call(Client.java:1113)
    at org.apache.hadoop.ipc.RPC$Invoker.invoke(RPC.java:229)
    at com.sun.proxy.$Proxy1.getFileInfo(Unknown Source)
    at sun.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
    at sun.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl.java:57)
    at sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:43)
    at java.lang.reflect.Method.invoke(Method.java:606)
    at org.apache.hadoop.io.retry.RetryInvocationHandler.invokeMethod(RetryInvocationHandler.java:85)
    at org.apache.hadoop.io.retry.RetryInvocationHandler.invoke(RetryInvocationHandler.java:62)
    at com.sun.proxy.$Proxy1.getFileInfo(Unknown Source)
    at org.apache.hadoop.hdfs.DFSClient.getFileInfo(DFSClient.java:1081)
    at org.apache.hadoop.hdfs.DistributedFileSystem.getFileStatus(DistributedFileSystem.java:565)
    at org.apache.hadoop.fs.FileSystem.exists(FileSystem.java:788)
    at org.apache.hadoop.tools.DistCp.checkSrcPath(DistCp.java:636)
    at org.apache.hadoop.tools.DistCp.copy(DistCp.java:656)
    at org.apache.hadoop.tools.DistCp.run(DistCp.java:881)
    at org.apache.hadoop.util.ToolRunner.run(ToolRunner.java:65)
    at org.apache.hadoop.util.ToolRunner.run(ToolRunner.java:79)
    at org.apache.hadoop.tools.DistCp.main(DistCp.java:908)
```

(3)bin/hadoop distcp -delete -update hdfs://localhost:9000/test

hdfs://localhost:9000/test/a

```
beaver@beaver-inter1:~/deploy/hadoop-1.2.1-new$ bin/hadoop distcp -delete -update hdfs://localhost:9000/test hdfs://localhost:9000/test/a
Warning: $HADOOP_HOME is deprecated.

16/08/11 14:38:40 INFO tools.DistCp: srcPaths=[hdfs://localhost:9000/test]
16/08/11 14:38:40 INFO tools.DistCp: destPath=hdfs://localhost:9000/test/a
16/08/11 14:38:40 INFO hdfs.DFSClient: DFSClient, token=null
org.apache.hadoop.ipc.RemoteException: java.io.IOException: java.lang.NullPointerException
    at org.apache.hadoop.util.BeaverCommonUtil.verifyToken(BeaverCommonUtil.java:101)
    at org.apache.hadoop.hdfs.server.namenode.NameNode.getFileInfo(NameNode.java:1042)
    at sun.reflect.GeneratedMethodAccessor3.invoke(Unknown Source)
    at sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:43)
    at java.lang.reflect.Method.invoke(Method.java:606)
    at org.apache.hadoop.ipc.RPC$Server.call(RPC.java:587)
    at org.apache.hadoop.ipc.Server$Handler$1.run(Server.java:1432)
    at org.apache.hadoop.ipc.Server$Handler$1.run(Server.java:1428)
    at java.security.AccessController.doPrivileged(Native Method)
    at javax.security.auth.Subject.doAs(Subject.java:415)
    at org.apache.hadoop.security.UserGroupInformation.doAs(UserGroupInformation.java:119)
    at org.apache.hadoop.ipc.Server$Handler.run(Server.java:1426)

    at org.apache.hadoop.ipc.Client.call(Client.java:1113)
    at org.apache.hadoop.ipc.RPC$Invoker.invoke(RPC.java:229)
    at com.sun.proxy.$Proxy1.getFileInfo(Unknown Source)
    at sun.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
    at sun.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl.java:57)
    at sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:43)
    at java.lang.reflect.Method.invoke(Method.java:606)
    at org.apache.hadoop.io.retry.RetryInvocationHandler.invokeMethod(RetryInvocationHandler.java:85)
    at org.apache.hadoop.io.retry.RetryInvocationHandler.invoke(RetryInvocationHandler.java:62)
    at com.sun.proxy.$Proxy1.getFileInfo(Unknown Source)
    at org.apache.hadoop.hdfs.DFSClient.getFileInfo(DFSClient.java:1081)
    at org.apache.hadoop.hdfs.DistributedFileSystem.getFileStatus(DistributedFileSystem.java:565)
    at org.apache.hadoop.fs.FileSystem.exists(FileSystem.java:788)
    at org.apache.hadoop.tools.DistCp.checkSrcPath(DistCp.java:636)
    at org.apache.hadoop.tools.DistCp.copy(DistCp.java:656)
    at org.apache.hadoop.tools.DistCp.run(DistCp.java:881)
    at org.apache.hadoop.util.ToolRunner.run(ToolRunner.java:65)
    at org.apache.hadoop.util.ToolRunner.run(ToolRunner.java:79)
    at org.apache.hadoop.tools.DistCp.main(DistCp.java:908)
```

(4)bin/hadoop distcp -i hdfs://localhost:9000/test/a hdfs://localhost:9000/test

```
beaver@beaver-inter1:~/deploy/hadoop-1.2.1-new$ bin/hadoop distcp -i hdfs://localhost:9000/test/a hdfs://localhost:9000/test
Warning: $HADOOP_HOME is deprecated.

16/08/11 14:34:02 INFO tools.DistCp: srcPaths=[hdfs://localhost:9000/test/a]
16/08/11 14:34:02 INFO tools.DistCp: destPath=hdfs://localhost:9000/test
16/08/11 14:34:02 INFO hdfs.DFSClient: DFSClient, token=null
org.apache.hadoop.ipc.RemoteException: java.io.IOException: java.lang.NullPointerException
        at org.apache.hadoop.util.BeaverCommonUtil.verifyToken(BeaverCommonUtil.java:101)
        at org.apache.hadoop.hdfs.server.namenode.NameNode.getFileInfo(NameNode.java:1042)
        at sun.reflect.GeneratedMethodAccessor3.invoke(Unknown Source)
        at sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:43)
        at java.lang.reflect.Method.invoke(Method.java:606)
        at org.apache.hadoop.ipc.RPC$Server.call(RPC.java:587)
        at org.apache.hadoop.ipc.Server$Handler$1.run(Server.java:1432)
        at org.apache.hadoop.ipc.Server$Handler$1.run(Server.java:1428)
        at java.security.AccessController.doPrivileged(Native Method)
        at javax.security.auth.Subject.doAs(Subject.java:415)
        at org.apache.hadoop.security.UserGroupInformation.doAs(UserGroupInformation.java:119)
        at org.apache.hadoop.ipc.Server$Handler.run(Server.java:1426)

        at org.apache.hadoop.ipc.Client.call(Client.java:1113)
        at org.apache.hadoop.ipc.RPC$Invoker.invoke(RPC.java:229)
        at com.sun.proxy.$Proxy1.getFileInfo(Unknown Source)
        at sun.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
        at sun.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl.java:57)
        at sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:43)
        at java.lang.reflect.Method.invoke(Method.java:606)
        at org.apache.hadoop.io.retry.RetryInvocationHandler.invokeMethod(RetryInvocationHandler.java:85)
        at org.apache.hadoop.io.retry.RetryInvocationHandler.invoke(RetryInvocationHandler.java:62)
        at com.sun.proxy.$Proxy1.getFileInfo(Unknown Source)
        at org.apache.hadoop.hdfs.DFSClient.getFileInfo(DFSClient.java:1081)
        at org.apache.hadoop.hdfs.DistributedFileSystem.getFileStatus(DistributedFileSystem.java:565)
        at org.apache.hadoop.fs.FileSystem.exists(FileSystem.java:788)
        at org.apache.hadoop.tools.DistCp.checkSrcPath(DistCp.java:636)
        at org.apache.hadoop.tools.DistCp.copy(DistCp.java:656)
        at org.apache.hadoop.tools.DistCp.run(DistCp.java:881)
        at org.apache.hadoop.util.ToolRunner.run(ToolRunner.java:65)
        at org.apache.hadoop.util.ToolRunner.run(ToolRunner.java:79)
        at org.apache.hadoop.tools.DistCp.main(DistCp.java:908)
```

(5)bin/hadoop distcp -overwrite hdfs://localhost:9000/test/a hdfs://localhost:9000/test

```
beaver@beaver-inter1:~/deploy/hadoop-1.2.1-new$ bin/hadoop distcp -overwrite hdfs://localhost:9000/test/a hdfs://localhost:9000/test
Warning: $HADOOP_HOME is deprecated.

16/08/11 14:35:08 INFO tools.DistCp: srcPaths=[hdfs://localhost:9000/test/a]
16/08/11 14:35:08 INFO tools.DistCp: destPath=hdfs://localhost:9000/test
16/08/11 14:35:08 INFO hdfs.DFSClient: DFSClient, token=null
org.apache.hadoop.ipc.RemoteException: java.io.IOException: java.lang.NullPointerException
        at org.apache.hadoop.util.BeaverCommonUtil.verifyToken(BeaverCommonUtil.java:101)
        at org.apache.hadoop.hdfs.server.namenode.NameNode.getFileInfo(NameNode.java:1042)
        at sun.reflect.GeneratedMethodAccessor3.invoke(Unknown Source)
        at sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:43)
        at java.lang.reflect.Method.invoke(Method.java:606)
        at org.apache.hadoop.ipc.RPC$Server.call(RPC.java:587)
        at org.apache.hadoop.ipc.Server$Handler$1.run(Server.java:1432)
        at org.apache.hadoop.ipc.Server$Handler$1.run(Server.java:1428)
        at java.security.AccessController.doPrivileged(Native Method)
        at javax.security.auth.Subject.doAs(Subject.java:415)
        at org.apache.hadoop.security.UserGroupInformation.doAs(UserGroupInformation.java:119)
        at org.apache.hadoop.ipc.Server$Handler.run(Server.java:1426)

        at org.apache.hadoop.ipc.Client.call(Client.java:1113)
        at org.apache.hadoop.ipc.RPC$Invoker.invoke(RPC.java:229)
        at com.sun.proxy.$Proxy1.getFileInfo(Unknown Source)
        at sun.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
        at sun.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl.java:57)
        at sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:43)
        at java.lang.reflect.Method.invoke(Method.java:606)
        at org.apache.hadoop.io.retry.RetryInvocationHandler.invokeMethod(RetryInvocationHandler.java:85)
        at org.apache.hadoop.io.retry.RetryInvocationHandler.invoke(RetryInvocationHandler.java:62)
        at com.sun.proxy.$Proxy1.getFileInfo(Unknown Source)
        at org.apache.hadoop.hdfs.DFSClient.getFileInfo(DFSClient.java:1081)
        at org.apache.hadoop.hdfs.DistributedFileSystem.getFileStatus(DistributedFileSystem.java:565)
        at org.apache.hadoop.fs.FileSystem.exists(FileSystem.java:788)
        at org.apache.hadoop.tools.DistCp.checkSrcPath(DistCp.java:636)
        at org.apache.hadoop.tools.DistCp.copy(DistCp.java:656)
        at org.apache.hadoop.tools.DistCp.run(DistCp.java:881)
        at org.apache.hadoop.util.ToolRunner.run(ToolRunner.java:65)
        at org.apache.hadoop.util.ToolRunner.run(ToolRunner.java:79)
        at org.apache.hadoop.tools.DistCp.main(DistCp.java:908)
```

```
(6)bin/hadoop distcp -update hdfs://localhost:9000/test/a hdfs://localhost:9000/test
```

```
beaver@beaver-inter1:~/deploy/hadoop-1.2.1-new$ bin/hadoop distcp -update hdfs://localhost:9000/test/a hdfs://localhost:9000/test
Warning: $HADOOP_HOME is deprecated.

16/08/11 14:35:47 INFO tools.DistCp: srcPaths=[hdfs://localhost:9000/test/a]
16/08/11 14:35:47 INFO tools.DistCp: destPath=hdfs://localhost:9000/test
16/08/11 14:35:47 INFO hdfs.DFSClient: DFSClient, token=null
org.apache.hadoop.ipc.RemoteException: java.io.IOException: java.lang.NullPointerException
        at org.apache.hadoop.util.BeaverCommonUtil.verifyToken(BeaverCommonUtil.java:101)
        at org.apache.hadoop.hdfs.server.namenode.NameNode.getFileInfo(NameNode.java:1042)
        at sun.reflect.GeneratedMethodAccessor3.invoke(Unknown Source)
        at sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:43)
        at java.lang.reflect.Method.invoke(Method.java:606)
        at org.apache.hadoop.ipc.RPC$Server.call(RPC.java:587)
        at org.apache.hadoop.ipc.Server$Handler$1.run(Server.java:1432)
        at org.apache.hadoop.ipc.Server$Handler$1.run(Server.java:1428)
        at java.security.AccessController.doPrivileged(Native Method)
        at javax.security.auth.Subject.doAs(Subject.java:415)
        at org.apache.hadoop.security.UserGroupInformation.doAs(UserGroupInformation.java:1190)
        at org.apache.hadoop.ipc.Server$Handler.run(Server.java:1426)

        at org.apache.hadoop.ipc.Client.call(Client.java:1113)
        at org.apache.hadoop.ipc.RPC$Invoker.invoke(RPC.java:229)
        at com.sun.proxy.$Proxy1.getFileInfo(Unknown Source)
        at sun.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
        at sun.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl.java:57)
        at sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:43)
        at java.lang.reflect.Method.invoke(Method.java:606)
        at org.apache.hadoop.io.retry.RetryInvocationHandler.invokeMethod(RetryInvocationHandler.java:85)
        at org.apache.hadoop.io.retry.RetryInvocationHandler.invoke(RetryInvocationHandler.java:62)
        at com.sun.proxy.$Proxy1.getFileInfo(Unknown Source)
        at org.apache.hadoop.hdfs.DFSClient.getFileInfo(DFSClient.java:1081)
        at org.apache.hadoop.hdfs.DistributedFileSystem.getFileStatus(DistributedFileSystem.java:565)
        at org.apache.hadoop.fs.FileSystem.exists(FileSystem.java:788)
        at org.apache.hadoop.tools.DistCp.checkSrcPath(DistCp.java:636)
        at org.apache.hadoop.tools.DistCp.copy(DistCp.java:656)
        at org.apache.hadoop.tools.DistCp.run(DistCp.java:881)
        at org.apache.hadoop.util.ToolRunner.run(ToolRunner.java:65)
        at org.apache.hadoop.util.ToolRunner.run(ToolRunner.java:79)
        at org.apache.hadoop.tools.DistCp.main(DistCp.java:908)
```

3. fs

```
(1) bin/hadoop fs -ls /
```

```
beaver@beaver-inter1:~/deploy/hadoop-1.2.1-new$ bin/hadoop fs -ls /
Warning: $HADOOP_HOME is deprecated.
```

```
16/08/10 15:31:25 INFO hdfs.DFSClient: DFSClient, token:eyJ0eXAiOiJKV1QiLCAiYWx
nIjoiSFMyNTYifQ.eyJpc3MiOiIjbGFzcyBvcmcuYXBhY2hlLmhZG9vcC5mcy5Gc1NoZWxsIiwgImV
4cCI6LTEsICJpYXQiOjE0NzA4MTQyODV9.KxKcVTJ4ga1lUDtR3OPRd-KVq_u_Uir5onopPM2o9A0
beaver@beaver-inter1:~/deploy/hadoop-1.2.1-new$ █
```

(2) bin/hadoop fs -mkdir /test2

```
beaver@beaver-inter1:~/deploy/hadoop-1.2.1-new$ bin/hadoop fs -mkdir /test2
Warning: $HADOOP_HOME is deprecated.

16/08/10 15:34:13 INFO hdfs.DFSClient: DFSClient, token:eyJ0eXAiOiJKV1QiLCAiYWx
nIjoisFMyNTYifQ.eyJpc3MiOiJjbGFzcyBvcmcuYXBhY2hlLmhZG9vcC5mcy5Gc1NoZWxsIiwgImV
4cCI6LTEsICJpYXQiOjE0NzA4MTQ0NTN9.FMd90J3fSFrsamACXdOFnTfYE_Z8WFS3KIKGvTg20cM
beaver@beaver-inter1:~/deploy/hadoop-1.2.1-new$ bin/hadoop fs -ls /
Warning: $HADOOP_HOME is deprecated.

16/08/10 15:34:16 INFO hdfs.DFSClient: DFSClient, token:eyJ0eXAiOiJKV1QiLCAiYWx
nIjoisFMyNTYifQ.eyJpc3MiOiJjbGFzcyBvcmcuYXBhY2hlLmhZG9vcC5mcy5Gc1NoZWxsIiwgImV
4cCI6LTEsICJpYXQiOjE0NzA4MTQ0NTZ9.DafxtCU5zaBgzgArA7epi0mdwRrimcLqf2sN8Et6mes
Found 3 items
drwxr-xr-x - beaver supergroup          0 2016-08-10 15:33 /test
drwxr-xr-x - beaver supergroup          0 2016-08-10 15:34 /test1
drwxr-xr-x - beaver supergroup          0 2016-08-10 15:34 /test2
beaver@beaver-inter1:~/deploy/hadoop-1.2.1-new$
```

(3) bin/hadoop fs -lsr /

```
beaver@beaver-inter1:~/deploy/hadoop-1.2.1-new$ bin/hadoop fs -lsr /
Warning: $HADOOP_HOME is deprecated.

16/08/10 15:35:32 INFO hdfs.DFSClient: DFSClient, token:eyJ0eXAiOiJKV1QiLCAiYWx
nIjoisFMyNTYifQ.eyJpc3MiOiJjbGFzcyBvcmcuYXBhY2hlLmhZG9vcC5mcy5Gc1NoZWxsIiwgImV
4cCI6LTEsICJpYXQiOjE0NzA4MTQ1MzF9.8EAtpw7-NAfrGXFtx8gzV_v74tLjHoUdkVT8RwGPdrE
drwxr-xr-x - beaver supergroup          0 2016-08-10 15:35 /test
drwxr-xr-x - beaver supergroup          0 2016-08-10 15:35 /test/a
drwxr-xr-x - beaver supergroup          0 2016-08-10 15:35 /test/b
drwxr-xr-x - beaver supergroup          0 2016-08-10 15:34 /test1
drwxr-xr-x - beaver supergroup          0 2016-08-10 15:35 /test2
drwxr-xr-x - beaver supergroup          0 2016-08-10 15:35 /test2/b
beaver@beaver-inter1:~/deploy/hadoop-1.2.1-new$
```

(4) bin/hadoop fs -count /

```
beaver@beaver-inter1:~/deploy/hadoop-1.2.1-new$ bin/hadoop fs -count /
Warning: $HADOOP_HOME is deprecated.

16/08/10 15:36:43 INFO hdfs.DFSClient: DFSClient, token:eyJ0eXAiOiJKV1QiLCAiYWx
nIjoisFMyNTYifQ.eyJpc3MiOiJjbGFzcyBvcmcuYXBhY2hlLmhZG9vcC5mcy5Gc1NoZWxsIiwgImV
4cCI6LTEsICJpYXQiOjE0NzA4MTQ2MDN9.9t-BFPiOAzBm5IjqoQtc9CC8x7_2KqDRywlVJueg1eY
    7           0           0 hdfs://localhost:9000/
beaver@beaver-inter1:~/deploy/hadoop-1.2.1-new$
```

(5) bin/hadoop fs -rmr /test/a

```
beaver@beaver-inter1:~/deploy/hadoop-1.2.1-new$ bin/hadoop fs -rmr /test/a
Warning: $HADOOP_HOME is deprecated.

16/08/10 15:39:02 INFO hdfs.DFSClient: DFSClient, token:eyJ0eXAiOiJKV1QiLCAiYWx
nIjoisFMyNTYifQ.eyJpc3MiOiJjbGFzcyBvcmcuYXBhY2hlLmhZG9vcC5mcy5Gc1NoZWxsIiwgImV
4cCI6LTEsICJpYXQiOjE0NzA4MTQ3NDF9.UTTrIq1qK9ONRgPXMbKwUgeT3Bk2jqMubkzWV9ituZY
Deleted hdfs://localhost:9000/test/a
beaver@beaver-inter1:~/deploy/hadoop-1.2.1-new$
```

(6) bin/hadoop fs -put /home/beaver/Documents/test/hadoop/test.txt /test/b

```

beaver@beaver-inter1:~/deploy/hadoop-1.2.1-new$ bin/hadoop fs -put /home/beaver/Documents/test/hadoop/test.txt /test/b
Warning: $HADOOP_HOME is deprecated.

16/08/10 15:44:08 INFO hdfs.DFSClient: DFSClient, token:eyJ0eXAiOiJKV1QiLCAiYWxnIjoiSFMyNTYifQ.eyJpc3MiOiIjzbGFzcyBvcmcuYXBhY2hlLmhZG9vcC5mcy5Gc1NoZWxsIiwgImV4cCI6LTEsICJpYXQiOjE0NzA4MTUwNDh9.pHBnEcxkDBwAQFxSmeRaunnCRRHeKwNRS2rPprjvr4
beaver@beaver-inter1:~/deploy/hadoop-1.2.1-new$ bin/hadoop fs -ls /test/b
Warning: $HADOOP_HOME is deprecated.

16/08/10 15:44:16 INFO hdfs.DFSClient: DFSClient, token:eyJ0eXAiOiJKV1QiLCAiYWxnIjoiSFMyNTYifQ.eyJpc3MiOiIjzbGFzcyBvcmcuYXBhY2hlLmhZG9vcC5mcy5Gc1NoZWxsIiwgImV4cCI6LTEsICJpYXQiOjE0NzA4MTUwNTV9.a2ZbFdsdk1FOxFtxJ-qdhR3RU4XVDuvdT Sug4_Cdrqo
Found 1 items
-rw-r--r-- 1 beaver supergroup 13 2016-08-10 15:44 /test/b/test.txt
beaver@beaver-inter1:~/deploy/hadoop-1.2.1-new$ 
```

(7) bin/hadoop fs -copyFromLocal /home/beaver/Documents/test/hadoop/test.txt /

```

beaver@beaver-inter1:~/deploy/hadoop-1.2.1-new$ bin/hadoop fs -copyFromLocal /home/beaver/Documents/test/hadoop/test.txt /
Warning: $HADOOP_HOME is deprecated.

16/08/10 15:46:15 INFO hdfs.DFSClient: DFSClient, token:eyJ0eXAiOiJKV1QiLCAiYWxnIjoiSFMyNTYifQ.eyJpc3MiOiIjzbGFzcyBvcmcuYXBhY2hlLmhZG9vcC5mcy5Gc1NoZWxsIiwgImV4cCI6LTEsICJpYXQiOjE0NzA4MTUxNzV9.8321G2UqavX5zhquTcouxbdNDqqsHPDabUcJgoD2r3A
beaver@beaver-inter1:~/deploy/hadoop-1.2.1-new$ bin/hadoop fs -ls /
Warning: $HADOOP_HOME is deprecated.

16/08/10 15:46:20 INFO hdfs.DFSClient: DFSClient, token:eyJ0eXAiOiJKV1QiLCAiYWxnIjoiSFMyNTYifQ.eyJpc3MiOiIjzbGFzcyBvcmcuYXBhY2hlLmhZG9vcC5mcy5Gc1NoZWxsIiwgImV4cCI6LTEsICJpYXQiOjE0NzA4MTUxODB9.dzc9ZguJhbiKDDF6dCoY76UX4ZW8- auexGj3satHeGY
Found 4 items
drwxr-xr-x - beaver supergroup 0 2016-08-10 15:43 /test
-rw-r--r-- 1 beaver supergroup 13 2016-08-10 15:46 /test.txt
drwxr-xr-x - beaver supergroup 0 2016-08-10 15:34 /test1
drwxr-xr-x - beaver supergroup 0 2016-08-10 15:35 /test2
beaver@beaver-inter1:~/deploy/hadoop-1.2.1-new$ 
```

(8) bin/hadoop fs -moveFromLocal /home/beaver/Documents/test/hadoop/test2.txt /

```

beaver@beaver-inter1:~/deploy/hadoop-1.2.1-new$ bin/hadoop fs -moveFromLocal /home/beaver/Documents/test/hadoop/test2.txt /
Warning: $HADOOP_HOME is deprecated.

16/08/10 15:47:16 INFO hdfs.DFSClient: DFSClient, token:eyJ0eXAiOiJKV1QiLCAiYWxnIjoiSFMyNTYifQ.eyJpc3MiOiIjzbGFzcyBvcmcuYXBhY2hlLmhZG9vcC5mcy5Gc1NoZWxsIiwgImV4cCI6LTEsICJpYXQiOjE0NzA4MTUyMzZ9.Gx27azDiCbiJJZioIVVp0ayiY_n7Fp3eb-Es87WbBU8M
beaver@beaver-inter1:~/deploy/hadoop-1.2.1-new$ bin/hadoop fs -ls /
Warning: $HADOOP_HOME is deprecated.

16/08/10 15:47:18 INFO hdfs.DFSClient: DFSClient, token:eyJ0eXAiOiJKV1QiLCAiYWxnIjoiSFMyNTYifQ.eyJpc3MiOiIjzbGFzcyBvcmcuYXBhY2hlLmhZG9vcC5mcy5Gc1NoZWxsIiwgImV4cCI6LTEsICJpYXQiOjE0NzA4MTUyMzh9.cse172lCY18j5uqXBVoDnvWzw1jTtxDoExxnPDYPy9A
Found 5 items
drwxr-xr-x - beaver supergroup 0 2016-08-10 15:43 /test
-rw-r--r-- 1 beaver supergroup 13 2016-08-10 15:46 /test.txt
drwxr-xr-x - beaver supergroup 0 2016-08-10 15:34 /test1
drwxr-xr-x - beaver supergroup 0 2016-08-10 15:35 /test2
-rw-r--r-- 1 beaver supergroup 13 2016-08-10 15:47 /test2.txt
beaver@beaver-inter1:~/deploy/hadoop-1.2.1-new$ 
```

(9) bin/hadoop fs -rm /test.txt

```
beaver@beaver-inter1:~/deploy/hadoop-1.2.1-new$ bin/hadoop fs -rm /test.txt
Warning: $HADOOP_HOME is deprecated.

16/08/10 15:48:30 INFO hdfs.DFSClient: DFSClient, token:eyJ0eXAiOiJKV1QiLCAiYWxnIj
oiSFMyNTYifQeyJpc3Mi0iJjbGFzcyBvcmcuYXBhY2hlLmhZG9vcC5mcy5Gc1NoZWxsIiwgImV4cCI6L
TEsICJpYXQiOjE0NzA4MTUzMTB9.opsPn3P9Jc0yd7fXgLK51Bh4TWTXJC7bCep1d9ddJe4
Deleted hdfs://localhost:9000/test.txt
beaver@beaver-inter1:~/deploy/hadoop-1.2.1-new$ bin/hadoop fs -ls /
Warning: $HADOOP_HOME is deprecated.

16/08/10 15:48:32 INFO hdfs.DFSClient: DFSClient, token:eyJ0eXAiOiJKV1QiLCAiYWxnIj
oiSFMyNTYifQeyJpc3Mi0iJjbGFzcyBvcmcuYXBhY2hlLmhZG9vcC5mcy5Gc1NoZWxsIiwgImV4cCI6L
TEsICJpYXQiOjE0NzA4MTUzMTJ9.dRZCzeA2eDfhuvB4b4icCZCIEDcc1C6rMpIWz2QpyJM
Found 4 items
drwxr-xr-x  - beaver supergroup          0 2016-08-10 15:43 /test
drwxr-xr-x  - beaver supergroup          0 2016-08-10 15:34 /test1
drwxr-xr-x  - beaver supergroup          0 2016-08-10 15:35 /test2
-rw-r--r--  1 beaver supergroup         13 2016-08-10 15:47 /test2.txt
```

(10) bin/hadoop fs -mv /test2.txt /test1

```
beaver@beaver-inter1:~/deploy/hadoop-1.2.1-new$ bin/hadoop fs -mv /test2.txt /test1
Warning: $HADOOP_HOME is deprecated.

16/08/10 15:49:54 INFO hdfs.DFSClient: DFSClient, token:eyJ0eXAiOiJKV1QiLCAiYWxnIj
oiSFMyNTYifQeyJpc3Mi0iJjbGFzcyBvcmcuYXBhY2hlLmhZG9vcC5mcy5Gc1NoZWxsIiwgImV4cCI6L
TEsICJpYXQiOjE0NzA4MTUzOTR9.PC4xNzi6Y1hiTSxc6vRghqnI6ttl_LgYAvLkmeJphaw
beaver@beaver-inter1:~/deploy/hadoop-1.2.1-new$ bin/hadoop fs -ls /test1
Warning: $HADOOP_HOME is deprecated.

16/08/10 15:50:01 INFO hdfs.DFSClient: DFSClient, token:eyJ0eXAiOiJKV1QiLCAiYWxnIj
oiSFMyNTYifQeyJpc3Mi0iJjbGFzcyBvcmcuYXBhY2hlLmhZG9vcC5mcy5Gc1NoZWxsIiwgImV4cCI6L
TEsICJpYXQiOjE0NzA4MTU0MDF9.YUDMXnTh0J2W_ImaoQGMT0U05QPw3kMhk8qrRmjoStg
Found 1 items
-rw-r--r--  1 beaver supergroup         13 2016-08-10 15:47 /test1/test2.txt
```

(11) bin/hadoop fs -cp /test2.txt /test/a

```
beaver@beaver-inter1:~/deploy/hadoop-1.2.1-new$ bin/hadoop fs -cp /test2.txt /test/a
Warning: $HADOOP_HOME is deprecated.

16/08/10 16:00:54 INFO hdfs.DFSClient: DFSClient, token:eyJ0eXAiOiJKV1QiLCAiYWxnIj
oiSFMyNTYifQeyJpc3Mi0iJjbGFzcyBvcmcuYXBhY2hlLmhZG9vcC5mcy5Gc1NoZWxsIiwgImV4cCI6L
TEsICJpYXQiOjE0NzA4MTYwNTN9.lhrEa0svB_Z8lzLrqL4p9oJaNhpXQNWtpSgyHA4ZC48
copy hdfs paths:/test2.txt /test/a
```

(12) bin/hadoop fs -du /

```
beaver@beaver-inter1:~/deploy/hadoop-1.2.1-new$ bin/hadoop fs -du /
Warning: $HADOOP_HOME is deprecated.

16/08/10 16:02:32 INFO hdfs.DFSClient: DFSClient, token:eyJ0eXAiOiJKV1QiLCAiYWxnIj
oiSFMyNTYifQeyJpc3Mi0iJjbGFzcyBvcmcuYXBhY2hlLmhZG9vcC5mcy5Gc1NoZWxsIiwgImV4cCI6L
TEsICJpYXQiOjE0NzA4MTYxNTJ9.9K0J4_0Y7W3gw_5aehPef2ca32KIFp9jVA_74gzNreA
Found 6 items
52      hdfs://localhost:9000/
13      hdfs://localhost:9000/test
13      hdfs://localhost:9000/test.txt
0       hdfs://localhost:9000/test1
0       hdfs://localhost:9000/test2
13      hdfs://localhost:9000/test2.txt
```

(13) bin/hadoop fs -dus /

```
beaver@beaver-inter1:~/deploy/hadoop-1.2.1-new$ bin/hadoop fs -dus /
Warning: $HADOOP_HOME is deprecated.
```

```
16/08/10 16:03:27 INFO hdfs.DFSClient: DFSClient, token:eyJ0eXAiOiJKV1QiLCAiYWxnIjoi
SFMyNTYifQ.eyJpc3Mi0iJjbGFzcyBvcmcuYXBhY2hLmhZG9vcC5mcy5Gc1NoZWxsIiwgImV4cCI6LTEsI
CJpYXQiOjE0NzA4MTYyMDd9.bAraPBTdHEEGrgGzPibL8ppoeut38Sy_rs9ik7xvblQ
hdfs://localhost:9000/ 52
```

(14) bin/hadoop fs -getmerge /test/a /home/beaver/Documents/test/hadoop/

```
beaver@beaver-inter1:~/deploy/hadoop-1.2.1-new$ bin/hadoop fs -getmerge /test/a /hom
e/beaver/Documents/test/hadoop/
Warning: $HADOOP_HOME is deprecated.
```

```
16/08/10 16:05:30 INFO hdfs.DFSClient: DFSClient, token:eyJ0eXAiOiJKV1QiLCAiYWxnIjoi
SFMyNTYifQ.eyJpc3Mi0iJjbGFzcyBvcmcuYXBhY2hLmhZG9vcC5mcy5Gc1NoZWxsIiwgImV4cCI6LTEsI
CJpYXQiOjE0NzA4MTYzMzB9.o4LshhMxDxZ1Qsgw0dY1E8DhzKX3Fc6RgQcbgJ_lJo
16/08/10 16:05:30 INFO util.NativeCodeLoader: Loaded the native-hadoop library
DFSClient.fetchLocatedBlocks:
block -765344476677518368 size 13 offset 0 locs 1
DFSClient.fetchLocatedBlocks:
block 5624660870194180560 size 13 offset 0 locs 1
```

(15) bin/hadoop fs -cat /test.txt

```
beaver@beaver-inter1:~/deploy/hadoop-1.2.1-new$ bin/hadoop fs -cat /test.txt
Warning: $HADOOP_HOME is deprecated.
```

```
16/08/10 16:06:50 INFO hdfs.DFSClient: DFSClient, token:eyJ0eXAiOiJKV1QiLCAiYWxnIjoi
SFMyNTYifQ.eyJpc3Mi0iJjbGFzcyBvcmcuYXBhY2hLmhZG9vcC5mcy5Gc1NoZWxsIiwgImV4cCI6LTEsI
CJpYXQiOjE0NzA4MTY0MDl9.TdRQZimLFnFvC2IDjYIoEBs2ZHwkH9Ipyn6JdIyeqq
DFSClient.fetchLocatedBlocks:
block -765344476677518368 size 13 offset 0 locs 1
zdgdxfgfzg
```

(16) bin/hadoop fs -text /test2.txt

```
beaver@beaver-inter1:~/deploy/hadoop-1.2.1-new$ bin/hadoop fs -text /test2.txt
Warning: $HADOOP_HOME is deprecated.
```

```
16/08/10 16:08:04 INFO hdfs.DFSClient: DFSClient, token:eyJ0eXAiOiJKV1QiLCAiYWxnIjoi
SFMyNTYifQ.eyJpc3Mi0iJjbGFzcyBvcmcuYXBhY2hLmhZG9vcC5mcy5Gc1NoZWxsIiwgImV4cCI6LTEsI
CJpYXQiOjE0NzA4MTY0ODN9.THmHj4X_M4a_OvNh0tZPaP_0P5VJgRRj-_bWo1x0_QE
DFSClient.fetchLocatedBlocks:
block 5624660870194180560 size 13 offset 0 locs 1
zdgdxfgfzg
```

(17) bin/hadoop fs -copyToLocal /test2.txt /home/beaver/Documents/test/hadoop/hdfs/

```
beaver@beaver-inter1:~/deploy/hadoop-1.2.1-new$ bin/hadoop fs -copyToLocal /test2.tx
t /home/beaver/Documents/test/hadoop/hdfs/
Warning: $HADOOP_HOME is deprecated.
```

```
16/08/10 16:11:35 INFO hdfs.DFSClient: DFSClient, token:eyJ0eXAiOiJKV1QiLCAiYWxnIjoi
SFMyNTYifQ.eyJpc3Mi0iJjbGFzcyBvcmcuYXBhY2hLmhZG9vcC5mcy5Gc1NoZWxsIiwgImV4cCI6LTEsI
CJpYXQiOjE0NzA4MTY20TR9.l23chLwqdnhX9JwZ00DScyfYd2QwdpfM1AeWF4U04Bs
DFSClient.fetchLocatedBlocks:
block 5624660870194180560 size 13 offset 0 locs 1
```

(18) bin/hadoop fs -moveToLocal

Option '-moveToLocal' is not implemented yet

(19) bin/hadoop fs -touchz /test3.txt

```
beaver@beaver-inter1:~/deploy/hadoop-1.2.1-new$ bin/hadoop fs -touchz /test3.txt
Warning: $HADOOP_HOME is deprecated.
```

```
16/08/10 16:15:18 INFO hdfs.DFSClient: DFSClient, token:eyJ0eXAiOiJKV1QiLCAiYWxnIjoi
SFMyNTYifQ.eyJpc3MiOiJjbGFzcycBvcmcuYXBhY2hlLmhhZG9vcC5mcy5Gc1NoZWxsIiwgImV4cCI6LTEsI
CJpYXQiOjE0NzA4MTY5MT9.r-hTb7EM_lH2vMchtMTHpzZZJRGslULDuhsRSVolk_8
```

(20)bin/hadoop fs -stat /

```
beaver@beaver-inter1:~/deploy/hadoop-1.2.1-new$ bin/hadoop fs -stat /
Warning: $HADOOP_HOME is deprecated.
```

```
16/08/10 16:16:56 INFO hdfs.DFSClient: DFSClient, token:eyJ0eXAiOiJKV1QiLCAiYWxnIjoi
SFMyNTYifQ.eyJpc3MiOiJjbGFzcycBvcmcuYXBhY2hlLmhhZG9vcC5mcy5Gc1NoZWxsIiwgImV4cCI6LTEsI
CJpYXQiOjE0NzA4MTcwMTZ9.ciDWXqcVzQ4rA0GhWetPPjhy2B54Qw6yc9wUexyzLM
2016-08-10 08:15:18
```

(21) bin/hadoop fs -setrep 2 /test.txt

```
beaver@beaver-inter1:~/deploy/hadoop-1.2.1-new$ bin/hadoop fs -setrep 2 /test.txt
Warning: $HADOOP_HOME is deprecated.
```

```
16/08/10 16:18:20 INFO hdfs.DFSClient: DFSClient, token:eyJ0eXAiOiJKV1QiLCAiYWxnIjoi
SFMyNTYifQ.eyJpc3MiOiJjbGFzcycBvcmcuYXBhY2hlLmhhZG9vcC5mcy5Gc1NoZWxsIiwgImV4cCI6LTEsI
CJpYXQiOjE0NzA4MTcxMDB9.fpE0d2wUb1hJSxFu351IvvxMfbfjsI7vNeAtvi5_JyQ
Replication 2 set: hdfs://localhost:9000/test.txt
```

(22) bin/hadoop fs -tail /test.txt

```
beaver@beaver-inter1:~/deploy/hadoop-1.2.1-new$ bin/hadoop fs -tail /test.txt
Warning: $HADOOP_HOME is deprecated.
```

```
16/08/10 16:19:10 INFO hdfs.DFSClient: DFSClient, token:eyJ0eXAiOiJKV1QiLCAiYWxnIjoi
SFMyNTYifQ.eyJpc3MiOiJjbGFzcycBvcmcuYXBhY2hlLmhhZG9vcC5mcy5Gc1NoZWxsIiwgImV4cCI6LTEsI
CJpYXQiOjE0NzA4MTcxNTB9.iw4oCcd3l8SuR4l7YnlLr-znwy1kDkz00C1mB4G9SIg
DFSClient.fetchLocatedBlocks:
  block -765344476677518368 size 13 offset 0 locs 1
zdgdgdxfgfgz
```

(23) bin/hadoop fs -get /test3.txt /home/beaver/Documents/test/hadoop/hdfs/

```
beaver@beaver-inter1:~/deploy/hadoop-1.2.1-new$ bin/hadoop fs -get /test3.txt /home/
beaver/Documents/test/hadoop/hdfs/
Warning: $HADOOP_HOME is deprecated.
```

```
16/08/10 16:20:13 INFO hdfs.DFSClient: DFSClient, token:eyJ0eXAiOiJKV1QiLCAiYWxnIjoi
SFMyNTYifQ.eyJpc3MiOiJjbGFzcycBvcmcuYXBhY2hlLmhhZG9vcC5mcy5Gc1NoZWxsIiwgImV4cCI6LTEsI
CJpYXQiOjE0NzA4MTcyMTJ9.hduj-HoGR1zdBMxYuJY1qa99Unyzng3ZKZoAz_rOTkw
DFSClient.fetchLocatedBlocks:
```

(24) bin/hadoop fs -help

```
beaver@beaver-inter1:~/deploy/hadoop-1.2.1-new$ bin/hadoop fs -help
Warning: $HADOOP_HOME is deprecated.

hadoop fs is the command to execute fs commands. The full syntax is:

hadoop fs [-fs <local | file system URI>] [-conf <configuration file>]
           [-D <property=value>] [-ls <path>] [-lsr <path>] [-du <path>]
           [-dus <path>] [-mv <src> <dst>] [-cp <src> <dst>] [-rm [-skipTrash] <src>]
           [-rmr [-skipTrash] <src>] [-put <localsrc> ... <dst>] [-copyFromLocal <local
src> ... <dst>]
           [-moveFromLocal <localsrc> ... <dst>] [-get [-ignoreCrc] [-crc] <src> <local
dst>
           [-getmerge <src> <localdst> [addnl]] [-cat <src>]
           [-copyToLocal [-ignoreCrc] [-crc] <src> <localdst>] [-moveToLocal <src> <loc
aldst>]
           [-mkdir <path>] [-report] [-setrep [-R] [-w] <rep> <path/file>]
           [-touchz <path>] [-test [-ezd] <path>] [-stat [format] <path>]
           [-tail [-f] <path>] [-text <path>]
           [-chmod [-R] <MODE[,MODE]... | OCTALMODE> PATH...]
           [-chown [-R] [OWNER][:GROUP]] PATH...
           [-chgrp [-R] GROUP PATH...]
           [-count[-q] <path>]
           [-help [cmd]]]
```

(25)bin/hadoop fs -test -d /test

```
beaver@beaver-inter1:~/deploy/hadoop-1.2.1-new$ bin/hadoop fs -test -d /test
Warning: $HADOOP_HOME is deprecated.

16/08/10 16:22:42 INFO hdfs.DFSClient: DFSClient, token:eyJ0eXAiOiJKV1QiLCAiYWxnIjoi
SFMyNTYifQ.eyJpc3MiOiJjbGFzcyBvcmcuYXBhY2hLmhZG9vcC5mcy5Gc1NoZWxsIiwgImV4cCI6LTEsI
CJpYXQiOjE0NzA4MTczNjJ9.y_v34uinqkfcztgGrFJLQimkDk3cl7cbHGc78b8tDXA
```

(26)bin/hadoop fs -expunge

```
beaver@beaver-inter1:~/deploy/hadoop-1.2.1-new$ bin/hadoop fs -expunge
Warning: $HADOOP_HOME is deprecated.

16/08/10 16:23:19 INFO hdfs.DFSClient: DFSClient, token:eyJ0eXAiOiJKV1QiLCAiYWxnIjoi
SFMyNTYifQ.eyJpc3MiOiJjbGFzcyBvcmcuYXBhY2hLmhZG9vcC5mcy5Gc1NoZWxsIiwgImV4cCI6LTEsI
CJpYXQiOjE0NzA4MTczOTh9.PNas5pItWYS0uOL93SPBaJ7AI5rZ46VN0W-s8rGcgs0
```

(27)bin/hadoop fs -chmod 777 /test.txt

```
beaver@beaver-inter1:~/deploy/hadoop-1.2.1-new$ bin/hadoop fs -chmod 777 /test.txt
Warning: $HADOOP_HOME is deprecated.

16/08/10 16:36:12 INFO hdfs.DFSClient: DFSClient, token:eyJ0eXAiOiJKV1QiLCAiYWxnIjoi
SFMyNTYifQ.eyJpc3MiOiJjbGFzcyBvcmcuYXBhY2hLmhZG9vcC5mcy5Gc1NoZWxsIiwgImV4cCI6LTEsI
CJpYXQiOjE0NzA4MTgxNzJ9.Xqx160ShMgUW9gvhhj2KnCkv0vC7yZhvFrB_TzArkYA
beaver@beaver-inter1:~/deploy/hadoop-1.2.1-new$ bin/hadoop fs -ls /
Warning: $HADOOP_HOME is deprecated.

16/08/10 16:36:14 INFO hdfs.DFSClient: DFSClient, token:eyJ0eXAiOiJKV1QiLCAiYWxnIjoi
SFMyNTYifQ.eyJpc3MiOiJjbGFzcyBvcmcuYXBhY2hLmhZG9vcC5mcy5Gc1NoZWxsIiwgImV4cCI6LTEsI
CJpYXQiOjE0NzA4MTgxNzR9.CiD7GmKtGNjaAzpr3s1SgQt96Coht1th1qeuJfmVQ80
Found 7 items
drwxrwxrwx - beaver supergroup 0 2016-08-10 15:51 /
d-wx--x--x - -r supergroup 0 2016-08-10 15:58 /test
-rw-rw-rw- 2 beaver supergroup 13 2016-08-10 15:59 /test.txt
drwxr-xr-x - beaver supergroup 0 2016-08-10 15:58 /test1
drwxr-xr-x - beaver supergroup 0 2016-08-10 15:58 /test2
-rw-r--r-- 1 beaver supergroup 13 2016-08-10 15:59 /test2.txt
-rw-r--r-- 1 beaver supergroup 0 2016-08-10 16:15 /test3.txt
```

(28) bin/hadoop fs -chown -r /test

```
beaver@beaver-inter1:~/deploy/hadoop-1.2.1-new$ bin/hadoop fs -chown -r /test
Warning: $HADOOP_HOME is deprecated.

16/08/10 16:33:36 INFO hdfs.DFSClient: DFSClient, token:eyJ0eXAiOiJKV1QiLCAiYWxnIjoi
SFMyNTYifQ.eyJpc3MiOiJjbGFzcyBvcmcuYXBhY2hLmhZG9vcC5mcy5Gc1NoZWxsIiwgImV4cCI6LTEsI
CJpYXQiOjE0NzA4MTgwMTZ9.BojengAzO_rZeP4ZFyzxayM-VGa0esssd0DRol7XOUJQ
```

(29) bin/hadoop fs -chgrp -r /test2

```
beaver@beaver-inter1:~/deploy/hadoop-1.2.1-new$ bin/hadoop fs -chgrp -r /test2
Warning: $HADOOP_HOME is deprecated.

16/08/10 16:37:19 INFO hdfs.DFSClient: DFSClient, token:eyJ0eXAiOiJKV1QiLCAiYWxnIjoi
SFMyNTYifQ.eyJpc3MiOiJjbGFzcyBvcmcuYXBhY2hLmhZG9vcC5mcy5Gc1NoZWxsIiwgImV4cCI6LTEsI
CJpYXQiOjE0NzA4MTgyMzl9.ln3lktI_j8o5CtdnAjJPKH0Rmm1093haVmVfJoNpvXA
beaver@beaver-inter1:~/deploy/hadoop-1.2.1-new$ bin/hadoop fs -ls /
Warning: $HADOOP_HOME is deprecated.

16/08/10 16:37:22 INFO hdfs.DFSClient: DFSClient, token:eyJ0eXAiOiJKV1QiLCAiYWxnIjoi
SFMyNTYifQ.eyJpc3MiOiJjbGFzcyBvcmcuYXBhY2hLmhZG9vcC5mcy5Gc1NoZWxsIiwgImV4cCI6LTEsI
CJpYXQiOjE0NzA4MTgyNDJ9.huHzfYlmti6BnWa3L6Ue-lfFUHnuGOkd5pakzWe06mk
Found 7 items
drwxrwxrwx - beaver supergroup 0 2016-08-10 15:51 /
d-wx--x--x - -r supergroup 0 2016-08-10 15:58 /test
-rw-rw-rw- 2 beaver supergroup 13 2016-08-10 15:59 /test.txt
drwxr-xr-x - beaver supergroup 0 2016-08-10 15:58 /test1
drwxr-xr-x - beaver -r 0 2016-08-10 15:58 /test2
-rw-r--r-- 1 beaver supergroup 13 2016-08-10 15:59 /test2.txt
-rw-r--r-- 1 beaver supergroup 0 2016-08-10 16:15 /test3.txt
```

4. fsck

(1)bin/hadoop fsck /

```
beaver@beaver-inter1:~/deploy/hadoop-1.2.1-new$ bin/hadoop fsck /
Warning: $HADOOP_HOME is deprecated.

FSCK started by beaver from /127.0.0.1 for path / at Thu Aug 11 14:40:29 CST 2016
..Status: HEALTHY
Total size: 57 B
Total dirs: 4
Total files: 2
Total blocks (validated): 2 (avg. block size 28 B)
Minimally replicated blocks: 2 (100.0 %)
Over-replicated blocks: 0 (0.0 %)
Under-replicated blocks: 0 (0.0 %)
Mis-replicated blocks: 0 (0.0 %)
Default replication factor: 1
Average block replication: 1.0
Corrupt blocks: 0
Missing replicas: 0 (0.0 %)
Number of data-nodes: 1
Number of racks: 1
FSCK ended at Thu Aug 11 14:40:29 CST 2016 in 6 milliseconds

The filesystem under path '/' is HEALTHY
```

(2)bin/hadoop fsck / -move

```
beaver@beaver-inter1:~/deploy/hadoop-1.2.1-new$ bin/hadoop fsck / -move
Warning: $HADOOP_HOME is deprecated.

FSCK started by beaver from /127.0.0.1 for path / at Thu Aug 11 14:53:10 CST 2016
..Status: HEALTHY
Total size: 57 B
Total dirs: 4
Total files: 2
Total blocks (validated): 2 (avg. block size 28 B)
Minimally replicated blocks: 2 (100.0 %)
Over-replicated blocks: 0 (0.0 %)
Under-replicated blocks: 0 (0.0 %)
Mis-replicated blocks: 0 (0.0 %)
Default replication factor: 1
Average block replication: 1.0
Corrupt blocks: 0
Missing replicas: 0 (0.0 %)
Number of data-nodes: 1
Number of racks: 1
FSCK ended at Thu Aug 11 14:53:10 CST 2016 in 2 milliseconds

The filesystem under path '/' is HEALTHY
```

(3)bin/hadoop fsck / -delete

```
beaver@beaver-inter1:~/deploy/hadoop-1.2.1-new$ bin/hadoop fsck / -delete
Warning: $HADOOP_HOME is deprecated.

FSCK started by beaver from /127.0.0.1 for path / at Thu Aug 11 14:52:08 CST 2016
..Status: HEALTHY
Total size: 57 B
Total dirs: 4
Total files: 2
Total blocks (validated): 2 (avg. block size 28 B)
Minimally replicated blocks: 2 (100.0 %)
Over-replicated blocks: 0 (0.0 %)
Under-replicated blocks: 0 (0.0 %)
Mis-replicated blocks: 0 (0.0 %)
Default replication factor: 1
Average block replication: 1.0
Corrupt blocks: 0
Missing replicas: 0 (0.0 %)
Number of data-nodes: 1
Number of racks: 1
FSCK ended at Thu Aug 11 14:52:08 CST 2016 in 2 milliseconds

The filesystem under path '/' is HEALTHY
```

(4)bin/hadoop fsck / -openforwrite

```
beaver@beaver-inter1:~/deploy/hadoop-1.2.1-new$ bin/hadoop fsck / -openforwrite
Warning: $HADOOP_HOME is deprecated.

FSCK started by beaver from /127.0.0.1 for path / at Thu Aug 11 14:53:41 CST 2016
..Status: HEALTHY
Total size: 57 B
Total dirs: 4
Total files: 2
Total blocks (validated): 2 (avg. block size 28 B)
Minimally replicated blocks: 2 (100.0 %)
Over-replicated blocks: 0 (0.0 %)
Under-replicated blocks: 0 (0.0 %)
Mis-replicated blocks: 0 (0.0 %)
Default replication factor: 1
Average block replication: 1.0
Corrupt blocks: 0
Missing replicas: 0 (0.0 %)
Number of data-nodes: 1
Number of racks: 1
FSCK ended at Thu Aug 11 14:53:41 CST 2016 in 2 milliseconds

The filesystem under path '/' is HEALTHY
```

(5)bin/hadoop fsck / -files

```
beaver@beaver-inter1:~/deploy/hadoop-1.2.1-new$ bin/hadoop fsck / -files
Warning: $HADOOP_HOME is deprecated.

FSCK started by beaver from /127.0.0.1 for path / at Thu Aug 11 14:53:56 CST 2016
/ <dir>
/test <dir>
/test/a <dir>
/test/a/test.txt 44 bytes, 1 block(s):  OK
/test/a/test2.txt 13 bytes, 1 block(s):  OK
/test/b <dir>
Status: HEALTHY
  Total size:    57 B
  Total dirs:    4
  Total files:   2
  Total blocks (validated):    2 (avg. block size 28 B)
  Minimally replicated blocks: 2 (100.0 %)
  Over-replicated blocks:     0 (0.0 %)
  Under-replicated blocks:    0 (0.0 %)
  Mis-replicated blocks:      0 (0.0 %)
  Default replication factor: 1
  Average block replication:  1.0
  Corrupt blocks:            0
  Missing replicas:          0 (0.0 %)
  Number of data-nodes:       1
  Number of racks:           1
FSCK ended at Thu Aug 11 14:53:56 CST 2016 in 2 milliseconds
```

The filesystem under path '/' is HEALTHY

(6)bin/hadoop fsck / -files -blocks

```
beaver@beaver-inter1:~/deploy/hadoop-1.2.1-new$ bin/hadoop fsck / -files -blocks
Warning: $HADOOP_HOME is deprecated.

FSCK started by beaver from /127.0.0.1 for path / at Thu Aug 11 14:54:46 CST 2016
/ <dir>
/test <dir>
/test/a <dir>
/test/a/test.txt 44 bytes, 1 block(s):  OK
0. blk_2058934387927710663_1001 len=44 repl=1

/test/a/test2.txt 13 bytes, 1 block(s):  OK
0. blk_8260576278818800940_1002 len=13 repl=1

/test/b <dir>
Status: HEALTHY
  Total size:    57 B
  Total dirs:    4
  Total files:   2
  Total blocks (validated):    2 (avg. block size 28 B)
  Minimally replicated blocks: 2 (100.0 %)
  Over-replicated blocks:     0 (0.0 %)
  Under-replicated blocks:    0 (0.0 %)
  Mis-replicated blocks:      0 (0.0 %)
  Default replication factor: 1
  Average block replication:  1.0
  Corrupt blocks:            0
  Missing replicas:          0 (0.0 %)
  Number of data-nodes:       1
  Number of racks:           1
FSCK ended at Thu Aug 11 14:54:46 CST 2016 in 2 milliseconds
```

The filesystem under path '/' is HEALTHY

(7)bin/hadoop fsck / -files -blocks -locations

```
beaver@beaver-inter1:~/deploy/hadoop-1.2.1-new$ bin/hadoop fsck / -files -blocks -locations
Warning: $HADOOP_HOME is deprecated.

FSCK started by beaver from /127.0.0.1 for path / at Thu Aug 11 14:56:20 CST 2016
/ <dir>
/test <dir>
/test/a <dir>
/test/a/test.txt 44 bytes, 1 block(s):  OK
0. blk_2058934387927710663_1001 len=44 repl=1 [127.0.0.1:50010]

/test/a/test2.txt 13 bytes, 1 block(s):  OK
0. blk_8260576278818800940_1002 len=13 repl=1 [127.0.0.1:50010]

/test/b <dir>
Status: HEALTHY
  Total size:    57 B
  Total dirs:    4
  Total files:   2
  Total blocks (validated):    2 (avg. block size 28 B)
  Minimally replicated blocks: 2 (100.0 %)
  Over-replicated blocks:     0 (0.0 %)
  Under-replicated blocks:    0 (0.0 %)
  Mis-replicated blocks:      0 (0.0 %)
  Default replication factor: 1
  Average block replication:  1.0
  Corrupt blocks:            0
  Missing replicas:          0 (0.0 %)
  Number of data-nodes:       1
  Number of racks:           1
FSCK ended at Thu Aug 11 14:56:20 CST 2016 in 2 milliseconds

The filesystem under path '/' is HEALTHY
```

(8)bin/hadoop fsck / -files -blocks -racks

```
beaver@beaver-inter1:~/deploy/hadoop-1.2.1-new$ bin/hadoop fsck / -files -blocks -racks
Warning: $HADOOP_HOME is deprecated.

FSCK started by beaver from /127.0.0.1 for path / at Thu Aug 11 14:57:43 CST 2016
/ <dir>
/test <dir>
/test/a <dir>
/test/a/test.txt 44 bytes, 1 block(s):  OK
0. blk_2058934387927710663_1001 len=44 repl=1 [/default-rack/127.0.0.1:50010]

/test/a/test2.txt 13 bytes, 1 block(s):  OK
0. blk_8260576278818800940_1002 len=13 repl=1 [/default-rack/127.0.0.1:50010]

/test/b <dir>
Status: HEALTHY
  Total size:    57 B
  Total dirs:    4
  Total files:   2
  Total blocks (validated):    2 (avg. block size 28 B)
  Minimally replicated blocks: 2 (100.0 %)
  Over-replicated blocks:     0 (0.0 %)
  Under-replicated blocks:    0 (0.0 %)
  Mis-replicated blocks:      0 (0.0 %)
  Default replication factor: 1
  Average block replication:  1.0
  Corrupt blocks:            0
  Missing replicas:          0 (0.0 %)
  Number of data-nodes:       1
  Number of racks:           1
FSCK ended at Thu Aug 11 14:57:43 CST 2016 in 6 milliseconds
```

The filesystem under path '/' is HEALTHY

5. jar

(1)bin/hadoop jar /home/beaver/deploy/hadoop-1.2.1-new/hadoop-examples-1.2.1.jar wordcount
/home/beaver/Documents/test/hadoop/input
/home/beaver/Documents/test/hadoop/output

```
beaver@beaver-inter1:~/deploy/hadoop-1.2.1-new$ bin/hadoop jar /home/beaver/deploy/hadoop-1.2.1-new/hadoop-examples-1.2.1.jar wordcount /home/beaver/Documents/test/hadoop/input /home/beaver/Documents/test/hadoop/output
Warning: $HADOOP_HOME is deprecated.

16/08/11 16:30:13 INFO hdfs.DFSClient: DFSClient, token=null
16/08/11 16:30:13 INFO output.FileOutputFormat: ----- mapreduce, setOutputPath, path: /home/beaver/Documents/test/hadoop/output
java.lang.NullPointerException
    at org.apache.hadoop.BeaverPathMapper.needMap(BeaverPathMapper.java:33)
    at org.apache.hadoop.BeaverPathMapper.writePathMap(BeaverPathMapper.java:20)
    at org.apache.hadoop.mapreduce.lib.output.FileOutputFormat.setOutputPath(FileOutputFormat.java:157)
    at org.apache.hadoop.examples.WordCount.main(WordCount.java:81)
    at sun.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
    at sun.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl.java:57)
    at sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:43)
    at java.lang.reflect.Method.invoke(Method.java:606)
    at org.apache.hadoop.util.ProgramDriver$ProgramDescription.invoke(ProgramDriver.java:68)
    at org.apache.hadoop.util.ProgramDriver.driver(ProgramDriver.java:139)
    at org.apache.hadoop.examples.ExampleDriver.main(ExampleDriver.java:64)
    at sun.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
    at sun.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl.java:57)
    at sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:43)
    at java.lang.reflect.Method.invoke(Method.java:606)
    at org.apache.hadoop.util.RunJar.main(RunJar.java:160)
```

6. job

未运行。

7. pipes

(1) bin/hadoop pipes -input /test/b

```
beaver@beaver-inter1:~/deploy/hadoop-1.2.1-new$ bin/hadoop pipes -input /test/b
Warning: $HADOOP_HOME is deprecated.

16/08/11 15:06:19 INFO hdfs.DFSClient: DFSClient, token=null
16/08/11 15:06:19 INFO mapred.FileInputFormat: ----- mapred, setInputPaths, path:hdfs://localhost:9000/test/b
Exception in thread "main" java.lang.NullPointerException
    at org.apache.hadoop.BeaverPathMapper.needMap(BeaverPathMapper.java:33)
    at org.apache.hadoop.BeaverPathMapper.readPathMap(BeaverPathMapper.java:24)
    at org.apache.hadoop.mapred.FileInputFormat.setInputPaths(FileInputFormat.java:323)
    at org.apache.hadoop.mapred.FileInputFormat.setInputPaths(FileInputFormat.java:293)
    at org.apache.hadoop.mapred.pipes.Submitter.run(Submitter.java:409)
    at org.apache.hadoop.mapred.pipes.Submitter.main(Submitter.java:494)
```

(2)bin/hadoop pipes -output /test

```

beaver@beaver-inter1:~/deploy/hadoop-1.2.1-new$ bin/hadoop pipes -output /test
Warning: $HADOOP_HOME is deprecated.

16/08/11 15:07:14 INFO mapred.FileOutputFormat: ----- mapred, setOutputPath, path:/te
st
16/08/11 15:07:14 INFO hdfs.DFSClient: DFSClient, token:null
Exception in thread "main" java.lang.NullPointerException
    at org.apache.hadoop.BeaverPathMapper.needMap(BeaverPathMapper.java:33)
    at org.apache.hadoop.BeaverPathMapper.writePathMap(BeaverPathMapper.java:28)
    at org.apache.hadoop.mapred.FileOutputFormat.setOutputPath(FileOutputFormat.java:143)
    at org.apache.hadoop.mapred.pipes.Submitter.run(Submitter.java:413)
    at org.apache.hadoop.mapred.pipes.Submitter.main(Submitter.java:494)

```

(3)bin/hadoop pipes -jar /hadoop-examples-1.2.1.jar

```

beaver@beaver-inter1:~/deploy/hadoop-1.2.1-new$ bin/hadoop pipes -jar /hadoop-examples-1.2.1.
jar
Warning: $HADOOP_HOME is deprecated.

16/08/11 15:05:19 INFO util.NativeCodeLoader: Loaded the native-hadoop library
16/08/11 15:05:19 WARN snappy.LoadSnappy: Snappy native library not loaded
Exception in thread "main" java.lang.IllegalArgumentException: No application program defined
.
    at org.apache.hadoop.mapred.pipes.Submitter.setupPipesJob(Submitter.java:296)
    at org.apache.hadoop.mapred.pipes.Submitter.runJob(Submitter.java:247)
    at org.apache.hadoop.mapred.pipes.Submitter.run(Submitter.java:479)
    at org.apache.hadoop.mapred.pipes.Submitter.main(Submitter.java:494)

```

8. queue

(1)bin/hadoop queue -list

```

beaver@beaver-inter1:~/deploy/hadoop-1.2.1-new$ bin/hadoop queue -list
Warning: $HADOOP_HOME is deprecated.

Exception in thread "main" java.net.UnknownHostException: unknown host: show
    at org.apache.hadoop.ipc.Client$Connection.<init>(Client.java:236)
    at org.apache.hadoop.ipc.Client.getConnection(Client.java:1239)
    at org.apache.hadoop.ipc.Client.call(Client.java:1093)
    at org.apache.hadoop.ipc.RPC$Invoker.invoke(RPC.java:229)
    at org.apache.hadoop.mapred.$Proxy1.getProtocolVersion(Unknown Source)
    at sun.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
    at sun.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl.java:57)
    at sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:
43)
    at java.lang.reflect.Method.invoke(Method.java:606)
    at org.apache.hadoop.io.retry.RetryInvocationHandler.invokeMethod(RetryInvocationHand
ler.java:85)
    at org.apache.hadoop.io.retry.RetryInvocationHandler.invoke(RetryInvocationHandler.ja
va:62)
    at org.apache.hadoop.mapred.$Proxy1.getProtocolVersion(Unknown Source)
    at org.apache.hadoop.ipc.RPC.checkVersion(RPC.java:422)
    at org.apache.hadoop.mapred.JobClient.createProxy(JobClient.java:559)
    at org.apache.hadoop.mapred.JobClient.init(JobClient.java:498)
    at org.apache.hadoop.mapred.JobClient.<init>(JobClient.java:479)
    at org.apache.hadoop.mapred.JobQueueClient.init(JobQueueClient.java:48)
    at org.apache.hadoop.mapred.JobQueueClient.run(JobQueueClient.java:88)
    at org.apache.hadoop.util.ToolRunner.run(ToolRunner.java:65)
    at org.apache.hadoop.util.ToolRunner.run(ToolRunner.java:79)
    at org.apache.hadoop.mapred.JobQueueClient.main(JobQueueClient.java:199)

```

(2)bin/hadoop queue -showacls

```

beaver@beaver-inter1:~/deploy/hadoop-1.2.1-new$ bin/hadoop queue -showacls
Warning: $HADOOP_HOME is deprecated.

Exception in thread "main" java.net.UnknownHostException: unknown host: show
    at org.apache.hadoop.ipc.Client$Connection.<init>(Client.java:236)
    at org.apache.hadoop.ipc.Client.getConnection(Client.java:1239)
    at org.apache.hadoop.ipc.Client.call(Client.java:1093)
    at org.apache.hadoop.ipc.RPC$Invoker.invoke(RPC.java:229)
    at org.apache.hadoop.mapred.$Proxy1.getProtocolVersion(Unknown Source)
    at sun.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
    at sun.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl.java:57)
    at sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:
43)
    at java.lang.reflect.Method.invoke(Method.java:606)
    at org.apache.hadoop.io.retry.RetryInvocationHandler.invokeMethod(RetryInvocationHand
ler.java:85)
    at org.apache.hadoop.io.retry.RetryInvocationHandler.invoke(RetryInvocationHandler.ja
va:62)
    at org.apache.hadoop.mapred.$Proxy1.getProtocolVersion(Unknown Source)
    at org.apache.hadoop.ipc.RPC.checkVersion(RPC.java:422)
    at org.apache.hadoop.mapred.JobClient.createProxy(JobClient.java:559)
    at org.apache.hadoop.mapred.JobClient.init(JobClient.java:498)
    at org.apache.hadoop.mapred.JobClient.<init>(JobClient.java:479)
    at org.apache.hadoop.mapred.JobQueueClient.init(JobQueueClient.java:48)
    at org.apache.hadoop.mapred.JobQueueClient.run(JobQueueClient.java:88)
    at org.apache.hadoop.util.ToolRunner.run(ToolRunner.java:65)
    at org.apache.hadoop.util.ToolRunner.run(ToolRunner.java:79)
    at org.apache.hadoop.mapred.JobQueueClient.main(JobQueueClient.java:199)

```

9. version

(1)bin/hadoop version

```
beaver@beaver-inter1:~/deploy/hadoop-1.2.1-new$ bin/hadoop version
Warning: $HADOOP_HOME is deprecated.

Hadoop 1.2.2-SNAPSHOT
Subversion -r
Compiled by beaver on 2016-08-10 at 18:05:34 CST
From source with checksum 886f4202f9e4fea2af611f1642f84a08
This command was run using /home/beaver/deploy/hadoop-1.2.1-new/hadoop-core-1.2.2-SNAPSHOT.jar
beaver@beaver-inter1:~/deploy/hadoop-1.2.1-new$
```

10.CLASSNAME

未运行。

11.classpath

(1)bin/hadoop classpath

```
beaver@beaver-inter1:~/deploy/hadoop-1.2.1-new$ bin/hadoop classpath
Warning: $HADOOP_HOME is deprecated.

/home/beaver/deploy/hadoop-1.2.1-new/libexec/../conf:/usr/lib/jvm/jdk1.7.0/lib/tools.jar:/home/beaver/deploy/hadoop-1.2.1-new/libexec/../../home/beaver/deploy/hadoop-1.2.1-new/libexec/../../hadoop-core-1.2.2-SNAPSHOT.jar:/home/beaver/deploy/hadoop-1.2.1-new/libexec/../../lib/asm-3.2.jar:/home/beaver/deploy/hadoop-1.2.1-new/libexec/../../lib/aspectjrt-1.6.11.jar:/home/beaver/deploy/hadoop-1.2.1-new/libexec/../../lib/aspectjtools-1.6.11.jar:/home/beaver/deploy/hadoop-1.2.1-new/libexec/../../lib/commons-beanutils-1.7.0.jar:/home/beaver/deploy/hadoop-1.2.1-new/libexec/../../lib/commons-beanutils-core-1.8.0.jar:/home/beaver/deploy/hadoop-1.2.1-new/libexec/../../lib/commons-cli-1.2.jar:/home/beaver/deploy/hadoop-1.2.1-new/libexec/../../lib/commons-codec-1.4.jar:/home/beaver/deploy/hadoop-1.2.1-new/libexec/../../lib/commons-collections-3.2.1.jar:/home/beaver/deploy/hadoop-1.2.1-new/libexec/../../lib/commons-configuration-1.6.jar:/home/beaver/deploy/hadoop-1.2.1-new/libexec/../../lib/commons-daemon-1.0.1.jar:/home/beaver/deploy/hadoop-1.2.1-new/libexec/../../lib/commons-digester-1.8.jar:/home/beaver/deploy/hadoop-1.2.1-new/libexec/../../lib/commons-el-1.0.jar:/home/beaver/deploy/hadoop-1.2.1-new/libexec/../../lib/commons-httpclient-3.0.1.jar:/home/beaver/deploy/hadoop-1.2.1-new/libexec/../../lib/commons-io-2.1.jar:/home/beaver/deploy/hadoop-1.2.1-new/libexec/../../lib/commons-lang-2.4.jar:/home/beaver/deploy/hadoop-1.2.1-new/libexec/../../lib/commons-logging-1.1.1.jar:/home/beaver/deploy/hadoop-1.2.1-new/libexec/../../lib/commons-logging-api-1.0.4.jar:/home/beaver/deploy/hadoop-1.2.1-new/libexec/../../lib/commons-math-2.1.jar:/home/beaver/deploy/hadoop-1.2.1-new/libexec/../../lib/commons-net-3.1.jar:/home/beaver/deploy/hadoop-1.2.1-new/libexec/../../lib/core-3.1.1.jar:/home/beaver/deploy/hadoop-1.2.1-new/libexec/../../lib/hadoop-capacity-scheduler-1.2.1.jar:/home/beaver/deploy/hadoop-1.2.1-new/libexec/../../lib/hadoop-fairscheduler-1.2.1.jar:/home/beaver/deploy/hadoop-1.2.1-new/libexec/../../lib/hadoop-thriftfs-1.2.1.jar:/home/beaver/deploy/hadoop-1.2.1-new/libexec/../../lib/hsqldb-1.8.0.10.jar:/home/beaver/deploy/hadoop-1.2.1-new/libexec/../../lib/jackson-core-asl-1.8.8.jar:/home/beaver/deploy/hadoop-1.2.1-new/libexec/../../lib/jackson-mapper-asl-1.8.8.jar:/home/beaver/deploy/hadoop-1.2.1-new/libexec/../../lib/jasper-compiler-5.5.12.jar:/home/beaver/deploy/hadoop-1.2.1-new/libexec/../../lib/jasper-runtime-5.5.12.jar:/home/beaver/deploy/hadoop-1.2.1-new/libexec/../../lib/jdb-0.8.jar:/home/beaver/deploy/hadoop-1.2.1-new/libexec/../../lib/jersey-core-1.8.jar:/home/beaver/deploy/hadoop-1.2.1-new/libexec/../../lib/jersey-json-1.8.jar:/home/beaver/deploy/hadoop-1.2.1-new/libexec/../../lib/jets3t-0.6.1.jar:/home/beaver/deploy/hadoop-1.2.1-new/libexec/../../lib/jetty-6.1.26.jar:/home/beaver/deploy/hadoop-1.2.1-new/libexec/../../lib/jetty-util-6.1.26.jar:/home/beaver/deploy/hadoop-1.2.1-new/libexec/../../lib/junit-4.5.jar:/home/beaver/deploy/hadoop-1.2.1-new/libexec/../../lib/kfs-0.2.2.jar:/home/beaver/deploy/hadoop-1.2.1-new/libexec/../../lib/mockito-all-1.8.5.jar:/home/beaver/deploy/hadoop-1.2.1-new/libexec/../../lib/oro-2.0.8.jar:/home/beaver/deploy/hadoop-1.2.1-new/libexec/../../lib/servlet-api-2.5-20081211.jar:/home/beaver/deploy/hadoop-1.2.1-new/libexec/../../lib/slf4j-api-1.4.3.jar:/home/beaver/deploy/hadoop-1.2.1-new/libexec/../../lib/xmlenc-0.52.jar:/home/beaver/deploy/hadoop-1.2.1-new/libexec/../../lib/jsp-2.1/jsp-2.1.jar:/home/beaver/deploy/hadoop-1.2.1-new/libexec/../../lib/jsp-2.1/jsp-api-2.1.jar
```

三. 管理命令

1. datanode

(1)bin/hadoop datanode

```
beaver@beaver-inter1:~/deploy/hadoop-1.2.1-new$ bin/hadoop datanode
Warning: $HADOOP_HOME is deprecated.

16/08/10 17:46:40 INFO datanode.DataNode: STARTUP_MSG:
/*****
STARTUP_MSG: Starting DataNode
STARTUP_MSG: host = beaver-inter1/127.0.0.1
STARTUP_MSG: args = []
STARTUP_MSG: version = 1.2.2-SNAPSHOT
STARTUP_MSG: build = -r ; compiled by 'beaver' on 2016-08-10 at 13:42:24 UTC
STARTUP_MSG: java = 1.7.0_79
*****
16/08/10 17:46:40 INFO impl.MetricsConfig: loaded properties from hadoop-metrics2.properties
16/08/10 17:46:40 INFO impl.MetricsSourceAdapter: MBean for source MetricsSystem,sub=Stats registered.
16/08/10 17:46:40 INFO impl.MetricsSystemImpl: Scheduled snapshot period at 10 second(s).
16/08/10 17:46:40 INFO impl.MetricsSystemImpl: DataNode metrics system started
16/08/10 17:46:41 INFO impl.MetricsSourceAdapter: MBean for source ugi registered.
16/08/10 17:46:41 WARN impl.MetricsSystemImpl: Source name ugi already exists!
16/08/10 17:46:41 INFO datanode.DataNode: Registered FSDatasetStatusMBean
16/08/10 17:46:41 INFO datanode.FSDatasetAsyncDiskService: Shutting down all async disk service threads...
16/08/10 17:46:41 INFO datanode.FSDatasetAsyncDiskService: All async disk service threads have been shut down
16/08/10 17:46:41 ERROR datanode.DataNode: java.net.BindException: Problem binding to /0.0.0.0:50010 : Address already in use
        at org.apache.hadoop.ipc.Server.bind(Server.java:267)
        at org.apache.hadoop.hdfs.server.datanode.DataNode.startDataNode(DataNode.java:434)
        at org.apache.hadoop.hdfs.server.datanode.DataNode.<init>(DataNode.java:322)
        at org.apache.hadoop.hdfs.server.datanode.DataNode.makeInstance(DataNode.java:1714)
        at org.apache.hadoop.hdfs.server.datanode.DataNode.instantiateDataNode(DataNode.java:1653)
        at org.apache.hadoop.hdfs.server.datanode.DataNode.createDataNode(DataNode.java:1671)
        at org.apache.hadoop.hdfs.server.datanode.DataNode.secureMain(DataNode.java:1797)
        at org.apache.hadoop.hdfs.server.datanode.DataNode.main(DataNode.java:1814)
Caused by: java.net.BindException: Address already in use
        at sun.nio.ch.Net.bind0(Native Method)
        at sun.nio.ch.Net.bind(Net.java:444)
        at sun.nio.ch.Net.bind(Net.java:436)
        at sun.nio.ch.ServerSocketChannelImpl.bind(ServerSocketChannelImpl.java:214)
        at sun.nio.ch.ServerSocketAdaptor.bind(ServerSocketAdaptor.java:74)
        at org.apache.hadoop.ipc.Server.bind(Server.java:265)
        ... 7 more

16/08/10 17:46:41 INFO datanode.DataNode: SHUTDOWN_MSG:
/*****
```

(2) bin/hadoop datanode -rollback

```

beaver@beaver-inter1:~/deploy/hadoop-1.2.1-new$ bin/hadoop datanode -rollback
Warning: $HADOOP_HOME is deprecated.

16/08/11 15:22:59 INFO datanode.DataNode: STARTUP_MSG:
/*****
STARTUP_MSG: Starting DataNode
STARTUP_MSG: host = beaver-inter1/127.0.0.1
STARTUP_MSG: args = [-rollback]
STARTUP_MSG: version = 1.2.2-SNAPSHOT
STARTUP_MSG: build = -r ; compiled by 'beaver' on 2016-08-10 at 18:05:34 UTC
STARTUP_MSG: java = 1.7.0_79
*****
16/08/11 15:23:00 INFO impl.MetricsConfig: loaded properties from hadoop-metrics2.properties
16/08/11 15:23:00 INFO impl.MetricsSourceAdapter: MBean for source MetricsSystem,sub=Stats registered.
16/08/11 15:23:00 INFO impl.MetricsSystemImpl: Scheduled snapshot period at 10 second(s).
16/08/11 15:23:00 INFO impl.MetricsSystemImpl: DataNode metrics system started
16/08/11 15:23:00 INFO impl.MetricsSourceAdapter: MBean for source ugi registered.
16/08/11 15:23:00 WARN impl.MetricsSystemImpl: Source name ugi already exists!
16/08/11 15:23:00 INFO common.Storage: Cannot lock storage /home/beaver/deploy/data/hadoop_dfs. The directory is already locked.
16/08/11 15:23:00 ERROR datanode.DataNode: java.io.IOException: Cannot lock storage /home/beaver/deploy/data/hadoop_dfs. The directory is already locked.
        at org.apache.hadoop.hdfs.server.common.Storage$StorageDirectory.lock(Storage.java:599)
        at org.apache.hadoop.hdfs.server.common.Storage$StorageDirectory.analyzeStorage(Storage.java:452)
        at org.apache.hadoop.hdfs.server.datanode.DataStorage.recoverTransitionRead(DataStorage.java:111)
        at org.apache.hadoop.hdfs.server.datanode.DataNode.startDataNode(DataNode.java:415)
        at org.apache.hadoop.hdfs.server.datanode.DataNode.<init>(DataNode.java:322)
        at org.apache.hadoop.hdfs.server.datanode.DataNode.makeInstance(DataNode.java:1714)
        at org.apache.hadoop.hdfs.server.datanode.DataNode.instantiateDataNode(DataNode.java:1653)
        at org.apache.hadoop.hdfs.server.datanode.DataNode.createDataNode(DataNode.java:1671)
        at org.apache.hadoop.hdfs.server.datanode.DataNode.secureMain(DataNode.java:1797)
        at org.apache.hadoop.hdfs.server.datanode.DataNode.main(DataNode.java:1814)

16/08/11 15:23:00 INFO datanode.DataNode: SHUTDOWN_MSG:
/*****
SHUTDOWN_MSG: Shutting down DataNode at beaver-inter1/127.0.0.1
*****
```

2. namenode

(1)bin/hadoop namenode -format

```

beaver@beaver-inter1:~/deploy/hadoop-1.2.1-new$ bin/hadoop namenode -format
Warning: $HADOOP_HOME is deprecated.

16/08/10 17:42:40 INFO namenode.NameNode: STARTUP_MSG:
/*****
STARTUP_MSG: Starting NameNode
STARTUP_MSG: host = beaver-inter1/127.0.0.1
STARTUP_MSG: args = [-format]
STARTUP_MSG: version = 1.2.2-SNAPSHOT
STARTUP_MSG: build = -r ; compiled by 'beaver' on 2016-08-10 at 13:42:24 UTC
STARTUP_MSG: java = 1.7.0_79
*****
16/08/10 17:42:40 INFO util.GSet: Computing capacity for map BlocksMap
16/08/10 17:42:40 INFO util.GSet: VM type          = 64-bit
16/08/10 17:42:40 INFO util.GSet: 2.0% max memory = 932184064
16/08/10 17:42:40 INFO util.GSet: capacity        = 2^21 = 2097152 entries
16/08/10 17:42:40 INFO util.GSet: recommended=2097152, actual=2097152
16/08/10 17:42:40 INFO namenode.FSNamesystem: fsOwner=beaver
16/08/10 17:42:40 INFO namenode.FSNamesystem: supergroup=supergroup
16/08/10 17:42:40 INFO namenode.FSNamesystem: isPermissionEnabled=true
16/08/10 17:42:40 INFO namenode.FSNamesystem: dfs.block.invalidate.limit=100
16/08/10 17:42:40 INFO namenode.FSNamesystem: isAccessTokenEnabled=false accessTokenUpdateInterval=0 min(s), accessTokenLifetime=0 min(s)
16/08/10 17:42:40 INFO namenode.FSEditLog: dfs.namenode.edits.toleration.length = 0
16/08/10 17:42:40 INFO namenode.NameNode: Caching file names occurring more than 10 times
16/08/10 17:42:40 INFO common.Storage: Image file /home/beaver/deploy/data/hadoop_name/current/fsimage of size 112 bytes saved in 0 seconds.
16/08/10 17:42:40 INFO namenode.FSEditLog: closing edit log: position=4, editlog=/home/beaver/deploy/data/hadoop_name/current/edits
16/08/10 17:42:40 INFO namenode.FSEditLog: close success: truncate to 4, editlog=/home/beaver/deploy/data/hadoop_name/current/edits
16/08/10 17:42:40 INFO common.Storage: Storage directory /home/beaver/deploy/data/hadoop_name has been successfully formatted.
16/08/10 17:42:40 INFO namenode.NameNode: SHUTDOWN_MSG:
/*****
SHUTDOWN_MSG: Shutting down NameNode at beaver-inter1/127.0.0.1
*****
```

(2)bin/hadoop namenode -upgrade

```
beaver@beaver-inter1:~/deploy/hadoop-1.2.1-new$ bin/hadoop namenode -upgrade
Warning: $HADOOP_HOME is deprecated.

16/08/11 15:23:47 INFO namenode.NameNode: STARTUP_MSG:
/*****
STARTUP_MSG: Starting NameNode
STARTUP_MSG: host = beaver-inter1/127.0.0.1
STARTUP_MSG: args = [-upgrade]
STARTUP_MSG: version = 1.2.2-SNAPSHOT
STARTUP_MSG: build = -r ; compiled by 'beaver' on 2016-08-08 at 18:05:34 UTC
ST
STARTUP_MSG: java = 1.7.0_79
*****
16/08/11 15:23:47 INFO impl.MetricsConfig: loaded properties from hadoop-metrics2.properties
16/08/11 15:23:47 INFO impl.MetricsSourceAdapter: MBean for source MetricsSystem,sub=Stats registered.
16/08/11 15:23:47 INFO impl.MetricsSystemImpl: Scheduled snapshot period at 10 second(s).
16/08/11 15:23:47 INFO impl.MetricsSystemImpl: NameNode metrics system started
16/08/11 15:23:47 INFO impl.MetricsSourceAdapter: MBean for source ugi registered.
16/08/11 15:23:47 WARN impl.MetricsSystemImpl: Source name ugi already exists!
16/08/11 15:23:47 INFO impl.MetricsSourceAdapter: MBean for source jvm registered.
16/08/11 15:23:47 INFO impl.MetricsSourceAdapter: MBean for source NameNode registered.
16/08/11 15:23:47 INFO util.GSet: Computing capacity for map BlocksMap
16/08/11 15:23:47 INFO util.GSet: VM type      = 64-bit
16/08/11 15:23:47 INFO util.GSet: 2.0% max memory = 932184064
16/08/11 15:23:47 INFO util.GSet: capacity      = 2^21 = 2097152 entries
16/08/11 15:23:47 INFO util.GSet: recommended=2097152, actual=2097152
16/08/11 15:23:47 INFO namenode.FSNamesystem: fsOwner=beaver
16/08/11 15:23:47 INFO namenode.FSNamesystem: supergroup=supergroup
16/08/11 15:23:47 INFO namenode.FSNamesystem: isPermissionEnabled=true
16/08/11 15:23:47 INFO namenode.FSNamesystem: dfs.block.invalidate.limit=100
16/08/11 15:23:47 INFO namenode.FSNamesystem: isAccessTokenEnabled=false accessKeyUpdateInterval=0 min(s), accessTokenLifetime=0 min(s)
16/08/11 15:23:47 INFO namenode.FSNamesystem: Registered FSNamesystemStateMBean and NameNodeMXBean
16/08/11 15:23:47 INFO namenode.FSEditLog: dfs.namenode.edits.tolerant.length = 0
16/08/11 15:23:47 INFO namenode.NameNode: Caching file names occurring more than 10 times
16/08/11 15:23:47 INFO common.Storage: Cannot lock storage /home/beaver/deploy/data/hadoop_name. The directory is already locked.
16/08/11 15:23:47 ERROR namenode.FSNamesystem: FSNamesystem initialization failed.
java.io.IOException: Cannot lock storage /home/beaver/deploy/data/hadoop_name. The directory is already locked.
        at org.apache.hadoop.hdfs.server.common.Storage$StorageDirectory.lock(Storage.java:599)
        at org.apache.hadoop.hdfs.server.common.Storage$StorageDirectory.analyzeStorage(Storage.java:452)
        at org.apache.hadoop.hdfs.server.namenode.FSImage.recoverTransitionRead(FSImage.java:299)
        at org.apache.hadoop.hdfs.server.namenode.FSDirectory.loadFSImage(FSDirectory.java:102)
```

(3)bin/hadoop namenode -rollback

```
beaver@beaver-inter1:~/deploy/hadoop-1.2.1-new$ bin/hadoop namenode -rollback
Warning: $HADOOP_HOME is deprecated.

16/08/11 15:24:31 INFO namenode.NameNode: STARTUP_MSG:
/*****
STARTUP_MSG: Starting NameNode
STARTUP_MSG: host = beaver-inter1/127.0.0.1
STARTUP_MSG: args = [-rollback]
STARTUP_MSG: version = 1.2.2-SNAPSHOT
STARTUP_MSG: build = -r ; compiled by 'beaver' on 2016-08-08 at 18:05:34 UTC
ST
STARTUP_MSG: java = 1.7.0_79
*****
16/08/11 15:24:31 INFO impl.MetricsConfig: loaded properties from hadoop-metrics2.properties
16/08/11 15:24:31 INFO impl.MetricsSourceAdapter: MBean for source MetricsSystem,sub=Stats registered.
16/08/11 15:24:31 INFO impl.MetricsSystemImpl: Scheduled snapshot period at 10 second(s).
16/08/11 15:24:31 INFO impl.MetricsSystemImpl: NameNode metrics system started
16/08/11 15:24:32 INFO impl.MetricsSourceAdapter: MBean for source ugi registered.
16/08/11 15:24:32 WARN impl.MetricsSystemImpl: Source name ugi already exists!
16/08/11 15:24:32 INFO impl.MetricsSourceAdapter: MBean for source jvm registered.
16/08/11 15:24:32 INFO util.GSet: Computing capacity for map BlocksMap
16/08/11 15:24:32 INFO util.GSet: VM type      = 64-bit
16/08/11 15:24:32 INFO util.GSet: 2.0% max memory = 932184064
16/08/11 15:24:32 INFO util.GSet: capacity      = 2^21 = 2097152 entries
16/08/11 15:24:32 INFO util.GSet: recommended=2097152, actual=2097152
16/08/11 15:24:32 INFO namenode.FSNamesystem: fsOwner=beaver
16/08/11 15:24:32 INFO namenode.FSNamesystem: supergroup=supergroup
16/08/11 15:24:32 INFO namenode.FSNamesystem: isPermissionEnabled=true
16/08/11 15:24:32 INFO namenode.FSNamesystem: dfs.block.invalidate.limit=100
16/08/11 15:24:32 INFO namenode.FSNamesystem: isAccessTokenEnabled=false accessKeyUpdateInterval=0 min(s), accessTokenLifetime=0 min(s)
16/08/11 15:24:32 INFO namenode.FSNamesystem: Registered FSNamesystemStateMBean and NameNodeMXBean
16/08/11 15:24:32 INFO namenode.FSEditLog: dfs.namenode.edits.tolerant.length = 0
16/08/11 15:24:32 INFO namenode.NameNode: Caching file names occurring more than 10 times
16/08/11 15:24:32 INFO common.Storage: Cannot lock storage /home/beaver/deploy/data/hadoop_name. The directory is already locked.
16/08/11 15:24:32 ERROR namenode.FSNamesystem: FSNamesystem initialization failed.
java.io.IOException: Cannot lock storage /home/beaver/deploy/data/hadoop_name. The directory is already locked.
        at org.apache.hadoop.hdfs.server.common.Storage$StorageDirectory.lock(Storage.java:599)
        at org.apache.hadoop.hdfs.server.common.Storage$StorageDirectory.analyzeStorage(Storage.java:452)
        at org.apache.hadoop.hdfs.server.namenode.FSImage.recoverTransitionRead(FSImage.java:299)
```

(4)bin/hadoop namenode -finalize

```
beaver@beaver-inter1:~/deploy/hadoop-1.2.1-new$ bin/hadoop namenode -finalize
Warning: $HADOOP_HOME is deprecated.

16/08/11 15:25:11 INFO namenode.NameNode: STARTUP_MSG:
/*****
STARTUP_MSG: Starting NameNode
STARTUP_MSG: host = beaver-inter1/127.0.0.1
STARTUP_MSG: args = [-finalize]
STARTUP_MSG: version = 1.2.2-SNAPSHOT
STARTUP_MSG: build = -r ; compiled by 'beaver' on 2016-08-10 at 18:05:34 C
ST
STARTUP_MSG: java = 1.7.0_79
*****
16/08/11 15:25:11 INFO util.GSet: Computing capacity for map BlocksMap
16/08/11 15:25:11 INFO util.GSet: VM type      = 64-bit
16/08/11 15:25:11 INFO util.GSet: 2.0% max memory = 932184064
16/08/11 15:25:11 INFO util.GSet: capacity      = 2^21 = 2097152 entries
16/08/11 15:25:11 INFO util.GSet: recommended=2097152, actual=2097152
16/08/11 15:25:12 INFO namenode.FSNamesystem: fsOwner=beaver
16/08/11 15:25:12 INFO namenode.FSNamesystem: supergroup=supergroup
16/08/11 15:25:12 INFO namenode.FSNamesystem: isPermissionEnabled=true
16/08/11 15:25:12 INFO namenode.FSNamesystem: dfs.block.invalidate.limit=100
16/08/11 15:25:12 INFO namenode.FSNamesystem: isAccessTokenEnabled=false accessTokenUpdateInter
val=0 min(s), accessTokenLifetime=0 min(s)
16/08/11 15:25:12 INFO namenode.FSEditLog: dfs.namenode.edits.toleration.length = 0
16/08/11 15:25:12 INFO namenode.NameNode: Caching file names occurring more than 10 times
"finalize" will remove the previous state of the files system.
Recent upgrade will become permanent.
Rollback option will not be available anymore.
Finalize filesystem state ? (Y or N) y
Finalize aborted.
16/08/11 15:25:16 INFO namenode.NameNode: SHUTDOWN_MSG:
/*****
SHUTDOWN_MSG: Shutting down NameNode at beaver-inter1/127.0.0.1
*****
```

(5)bin/hadoop namenode -importCheckpoint

```
beaver@beaver-inter1:~/deploy/hadoop-1.2.1-new$ bin/hadoop namenode -importCheckpoint
Warning: $HADOOP_HOME is deprecated.

16/08/11 15:26:22 INFO namenode.NameNode: STARTUP_MSG:
/*****
STARTUP_MSG: Starting NameNode
STARTUP_MSG: host = beaver-inter1/127.0.0.1
STARTUP_MSG: args = [-importCheckpoint]
STARTUP_MSG: version = 1.2.2-SNAPSHOT
STARTUP_MSG: build = -r ; compiled by 'beaver' on 2016-08-10 at 18:05:34 C
ST
STARTUP_MSG: java = 1.7.0_79
*****
16/08/11 15:26:22 INFO impl.MetricsConfig: loaded properties from hadoop-metrics2.properties
16/08/11 15:26:22 INFO impl.MetricsSourceAdapter: MBean for source MetricsSystem,sub=Stats re
gistered.
16/08/11 15:26:22 INFO impl.MetricsSystemImpl: Scheduled snapshot period at 10 second(s).
16/08/11 15:26:22 INFO impl.MetricsSystemImpl: NameNode metrics system started
16/08/11 15:26:22 INFO impl.MetricsSourceAdapter: MBean for source ugi registered.
16/08/11 15:26:23 WARN impl.MetricsSystemImpl: Source name ugi already exists!
16/08/11 15:26:23 INFO impl.MetricsSourceAdapter: MBean for source jvm registered.
16/08/11 15:26:23 INFO impl.MetricsSourceAdapter: MBean for source NameNode registered.
16/08/11 15:26:23 INFO util.GSet: Computing capacity for map BlocksMap
16/08/11 15:26:23 INFO util.GSet: VM type      = 64-bit
16/08/11 15:26:23 INFO util.GSet: 2.0% max memory = 932184064
16/08/11 15:26:23 INFO util.GSet: capacity      = 2^21 = 2097152 entries
16/08/11 15:26:23 INFO util.GSet: recommended=2097152, actual=2097152
16/08/11 15:26:23 INFO namenode.FSNamesystem: fsOwner=beaver
16/08/11 15:26:23 INFO namenode.FSNamesystem: supergroup=supergroup
16/08/11 15:26:23 INFO namenode.FSNamesystem: isPermissionEnabled=true
16/08/11 15:26:23 INFO namenode.FSNamesystem: dfs.block.invalidate.limit=100
16/08/11 15:26:23 INFO namenode.FSNamesystem: isAccessTokenEnabled=false accessTokenUpdateInter
val=0 min(s), accessTokenLifetime=0 min(s)
16/08/11 15:26:23 INFO namenode.FSNamesystem: Registered FSNamesystemStateMBean and NameNodeM
XBean
16/08/11 15:26:23 INFO namenode.FSEditLog: dfs.namenode.edits.toleration.length = 0
16/08/11 15:26:23 INFO namenode.NameNode: Caching file names occurring more than 10 times
16/08/11 15:26:23 INFO common.Storage: Cannot lock storage /home/beaver/deploy/data/hadoop_na
me. The directory is already locked.
16/08/11 15:26:23 ERROR namenode.FSNamesystem: FSNamesystem initialization failed.
java.io.IOException: Cannot lock storage /home/beaver/deploy/data/hadoop_name. The directory
is already locked.
        at org.apache.hadoop.hdfs.server.common.Storage$StorageDirectory.lock(Storage.java:59
9)
```

3.secondarynamenode

(1)bin/hadoop secondarynamenode

```
beaver@beaver-inter1:~/deploy/hadoop-1.2.1-new$ bin/hadoop secondarynamenode
Warning: $HADOOP_HOME is deprecated.

16/08/11 15:27:12 INFO namenode.SecondaryNameNode: STARTUP_MSG:
/*****
STARTUP_MSG: Starting SecondaryNameNode
STARTUP_MSG: host = beaver-inter1/127.0.0.1
STARTUP_MSG: args = []
STARTUP_MSG: version = 1.2.2-SNAPSHOT
STARTUP_MSG: build = -r ; compiled by 'beaver' on 2016-08-10 at 18:05:34 UTC
STARTUP_MSG: java = 1.7.0_79
*****
16/08/11 15:27:12 INFO namenode.SecondaryNameNode: dfs.namenode.edits.toleration.length is set to 0. Override it with -1, i.e. disable it.
16/08/11 15:27:13 INFO common.Storage: Cannot lock storage /home/beaver/deploy/data/hadoop_tmp/dfs/namesecondary. The directory is already locked.
Exception in thread "main" java.io.IOException: Cannot lock storage /home/beaver/deploy/data/hadoop_tmp/dfs/namesecondary. The directory is already locked.
        at org.apache.hadoop.hdfs.server.common.Storage$StorageDirectory.lock(Storage.java:599)
        at org.apache.hadoop.hdfs.server.common.Storage$StorageDirectory.analyzeStorage(Storage.java:452)
        at org.apache.hadoop.hdfs.server.namenode.SecondaryNameNode$CheckpointStorage.recoverCreate(SecondaryNameNode.java:726)
        at org.apache.hadoop.hdfs.server.namenode.SecondaryNameNode.initialize(SecondaryNameNode.java:209)
        at org.apache.hadoop.hdfs.server.namenode.SecondaryNameNode.<init>(SecondaryNameNode.java:151)
        at org.apache.hadoop.hdfs.server.namenode.SecondaryNameNode.main(SecondaryNameNode.java:678)
16/08/11 15:27:13 INFO namenode.SecondaryNameNode: SHUTDOWN_MSG:
/*****
SHUTDOWN_MSG: Shutting down SecondaryNameNode at beaver-inter1/127.0.0.1
*****
```

(2)bin/hadoop secondarynamenode -checkpoint

```
beaver@beaver-inter1:~/deploy/hadoop-1.2.1-new$ bin/hadoop secondarynamenode -checkpoint
Warning: $HADOOP_HOME is deprecated.

16/08/11 15:28:04 INFO namenode.SecondaryNameNode: STARTUP_MSG:
/*****
STARTUP_MSG: Starting SecondaryNameNode
STARTUP_MSG: host = beaver-inter1/127.0.0.1
STARTUP_MSG: args = [-checkpoint]
STARTUP_MSG: version = 1.2.2-SNAPSHOT
STARTUP_MSG: build = -r ; compiled by 'beaver' on 2016-08-10 at 18:05:34 UTC
STARTUP_MSG: java = 1.7.0_79
*****
16/08/11 15:28:04 INFO namenode.SecondaryNameNode: dfs.namenode.edits.toleration.length is set to 0. Override it with -1, i.e. disable it.
16/08/11 15:28:05 INFO common.Storage: Cannot lock storage /home/beaver/deploy/data/hadoop_tmp/dfs/namesecondary. The directory is already locked.
Exception in thread "main" java.io.IOException: Cannot lock storage /home/beaver/deploy/data/hadoop_tmp/dfs/namesecondary. The directory is already locked.
        at org.apache.hadoop.hdfs.server.common.Storage$StorageDirectory.lock(Storage.java:599)
        at org.apache.hadoop.hdfs.server.common.Storage$StorageDirectory.analyzeStorage(Storage.java:452)
        at org.apache.hadoop.hdfs.server.namenode.SecondaryNameNode$CheckpointStorage.recoverCreate(SecondaryNameNode.java:726)
        at org.apache.hadoop.hdfs.server.namenode.SecondaryNameNode.initialize(SecondaryNameNode.java:209)
        at org.apache.hadoop.hdfs.server.namenode.SecondaryNameNode.<init>(SecondaryNameNode.java:151)
        at org.apache.hadoop.hdfs.server.namenode.SecondaryNameNode.main(SecondaryNameNode.java:672)
16/08/11 15:28:05 INFO namenode.SecondaryNameNode: SHUTDOWN_MSG:
/*****
SHUTDOWN_MSG: Shutting down SecondaryNameNode at beaver-inter1/127.0.0.1
*****
```

(3)secondarynamenode -geteditsize

```
beaver@beaver-inter1:~/deploy/hadoop-1.2.1-new$ bin/hadoop secondarynamenode -geteditsize
Warning: $HADOOP_HOME is deprecated.

16/08/11 15:28:42 INFO namenode.SecondaryNameNode: STARTUP_MSG:
/*****
STARTUP_MSG: Starting SecondaryNameNode
STARTUP_MSG: host = beaver-inter1/127.0.0.1
STARTUP_MSG: args = [-geteditsize]
STARTUP_MSG: version = 1.2.2-SNAPSHOT
STARTUP_MSG: build = -r ; compiled by 'beaver' on 2016-08-10 at 18:05:34 UTC
STARTUP_MSG: java = 1.7.0_79
*****
16/08/11 15:28:42 INFO namenode.SecondaryNameNode: dfs.namenode.edits.toleration.length is set to 0. Override it with -1, i.e. disable it.
16/08/11 15:28:42 INFO common.Storage: Cannot lock storage /home/beaver/deploy/data/hadoop_tmp/dfs/namesecondary. The directory is already locked.
Exception in thread "main" java.io.IOException: Cannot lock storage /home/beaver/deploy/data/hadoop_tmp/dfs/namesecondary. The directory is already locked.
        at org.apache.hadoop.hdfs.server.common.Storage$StorageDirectory.lock(Storage.java:599)
        at org.apache.hadoop.hdfs.server.common.Storage$StorageDirectory.analyzeStorage(Storage.java:452)
        at org.apache.hadoop.hdfs.server.namenode.SecondaryNameNode$CheckpointStorage.recoverCreate(SecondaryNameNode.java:726)
        at org.apache.hadoop.hdfs.server.namenode.SecondaryNameNode.initialize(SecondaryNameNode.java:209)
        at org.apache.hadoop.hdfs.server.namenode.SecondaryNameNode.<init>(SecondaryNameNode.java:151)
        at org.apache.hadoop.hdfs.server.namenode.SecondaryNameNode.main(SecondaryNameNode.java:672)
16/08/11 15:28:42 INFO namenode.SecondaryNameNode: SHUTDOWN_MSG:
/*****
SHUTDOWN_MSG: Shutting down SecondaryNameNode at beaver-inter1/127.0.0.1
*****
```

4. tasktracker

(1)bin/hadoop tasktracker

```
16/08/11 15:29:48 INFO ipc.Server: IPC Server Responder: starting
16/08/11 15:29:48 INFO ipc.Server: IPC Server listener on 48501: starting
16/08/11 15:29:48 INFO ipc.Server: IPC Server handler 0 on 48501: starting
16/08/11 15:29:48 INFO ipc.Server: IPC Server handler 1 on 48501: starting
16/08/11 15:29:48 INFO mapred.TaskTracker: TaskTracker up at: localhost/127.0.0.1:48501
16/08/11 15:29:48 INFO ipc.Server: IPC Server handler 3 on 48501: starting
16/08/11 15:29:48 INFO mapred.TaskTracker: Starting tracker tracker_localhost:localhost/127.0.1:48501
16/08/11 15:29:48 INFO ipc.Server: IPC Server handler 2 on 48501: starting
16/08/11 15:29:48 ERROR security.UserGroupInformation: PrivilegedActionException as:beaver cause:java.net.UnknownHostException: unknown host: show
16/08/11 15:29:48 ERROR mapred.TaskTracker: Can not start task tracker because java.net.UnknownHostException: unknown host: show
        at org.apache.hadoop.ipc.Client$Connection.<init>(Client.java:236)
        at org.apache.hadoop.ipc.Client.getConnection(Client.java:1239)
        at org.apache.hadoop.ipc.Client.call(Client.java:1093)
        at org.apache.hadoop.ipc.RPC$Invoker.invoke(RPC.java:229)
        at org.apache.hadoop.mapred.$Proxy3.getProtocolVersion(Unknown Source)
        at org.apache.hadoop.ipc.RPC.checkVersion(RPC.java:422)
        at org.apache.hadoop.ipc.RPC.getProxy(RPC.java:414)
        at org.apache.hadoop.ipc.RPC.getProxy(RPC.java:392)
        at org.apache.hadoop.ipc.RPC.getProxy(RPC.java:374)
        at org.apache.hadoop.ipc.RPC.getProxy(RPC.java:453)
        at org.apache.hadoop.ipc.RPC.waitForProxy(RPC.java:335)
        at org.apache.hadoop.ipc.RPC.waitForProxy(RPC.java:300)
        at org.apache.hadoop.mapred.TaskTracker$3.run(TaskTracker.java:908)
        at java.security.AccessController.doPrivileged(Native Method)
        at javax.security.auth.Subject.doAs(Subject.java:415)
        at org.apache.hadoop.security.UserGroupInformation.doAs(UserGroupInformation.java:1199)
        at org.apache.hadoop.mapred.TaskTracker.initialize(TaskTracker.java:904)
        at org.apache.hadoop.mapred.TaskTracker.<init>(TaskTracker.java:1573)
        at org.apache.hadoop.mapred.TaskTracker.main(TaskTracker.java:3937)

16/08/11 15:29:48 INFO mapred.TaskTracker: SHUTDOWN_MSG:
/*****
SHUTDOWN_MSG: Shutting down TaskTracker at beaver-inter1/127.0.0.1
*****
```

5. balancer

(1)bin/hadoop balancer

```
beaver@beaver-inter1:~/deploy/hadoop-1.2.1-new$ bin/hadoop balancer
Warning: $HADOOP_HOME is deprecated.

16/08/11 15:30:44 INFO hdfs.DFSClient: DFSClient, token:eyJ0eXAiOiJKV1QiLCAiYWxnIjoiSFMyNTYif
Q.eyJpc3MiOiJjbGFzcycBvcmcuYXBhY2hlLmhZG9vcC5oZGZzLnNlcnZlci5iYWxhbmnLci5CYWxhbmnLciIsICJleHA
i0i0xLCAiaWF0IjoxNDcwOTAwNjQ0fQ.ri7J3GKI7SHkI_pg5iZQcKkV2q92r6SysncI8AYLRD0
Time Stamp           Iteration#  Bytes Already Moved  Bytes Left To Move  Bytes Being Moved
16/08/11 15:30:44 INFO net.NetworkTopology: Adding a new node: /default-rack/127.0.0.1:50010
16/08/11 15:30:44 INFO balancer.Balancer: 0 over utilized nodes:
16/08/11 15:30:44 INFO balancer.Balancer: 1 under utilized nodes: 127.0.0.1:50010
The cluster is balanced. Exiting...
Balancing took 300.0 milliseconds
```

(2)bin/hadoop balancer -threshold 2

```
beaver@beaver-inter1:~/deploy/hadoop-1.2.1-new$ bin/hadoop balancer -threshold 2
Warning: $HADOOP_HOME is deprecated.

16/08/11 15:31:27 INFO balancer.Balancer: Using a threshold of 2.0
16/08/11 15:31:27 INFO hdfs.DFSClient: DFSClient, token:eyJ0eXAiOiJKV1QiLCAiYWxnIjoiSFMyNTYif
Q.eyJpc3MiOiJjbGFzcycBvcmcuYXBhY2hlLmhZG9vcC5oZGZzLnNlcnZlci5iYWxhbmnLci5CYWxhbmnLciIsICJleHA
i0i0xLCAiaWF0IjoxNDcwOTAwNjg3fQ.V0M370_HAtxZlmQ0zx80SEXvGOEcRYkjjAps6cpXyw
Time Stamp           Iteration#  Bytes Already Moved  Bytes Left To Move  Bytes Being Moved
16/08/11 15:31:27 INFO net.NetworkTopology: Adding a new node: /default-rack/127.0.0.1:50010
16/08/11 15:31:27 INFO balancer.Balancer: 0 over utilized nodes:
16/08/11 15:31:27 INFO balancer.Balancer: 1 under utilized nodes: 127.0.0.1:50010
The cluster is balanced. Exiting...
Balancing took 302.0 milliseconds
```

6 . dfsadmin

(1)bin/hadoop dfsadmin -report

```
beaver@beaver-inter1:~/deploy/hadoop-1.2.1-new$ bin/hadoop dfsadmin -report
Warning: $HADOOP_HOME is deprecated.

16/08/11 15:32:22 INFO hdfs.DFSClient: DFSClient, token:eyJ0eXAiOiJKV1QiLCAiYWxnIjoiSFMyNTYif
Q.eyJpc3MiOiJjbGFzcycBvcmcuYXBhY2hlLmhZG9vcC5oZGZzLnRvb2xzLkRGU0FkbWluIiwgImV4cCI6LTEsICJpYXQ
i0jE0NzA5MDA3NDF9.XpxwBUxfR00B4-bDu7FgtD2oKl12ytI1J16fsbCsNd0
Configured Capacity: 237119766528 (220.83 GB)
Present Capacity: 41649082368 (38.79 GB)
DFS Remaining: 41648885760 (38.79 GB)
DFS Used: 196608 (192 KB)
DFS Used%: 0%
Under replicated blocks: 0
Blocks with corrupt replicas: 0
Missing blocks: 0

-----
Datanodes available: 1 (1 total, 0 dead)

Name: 127.0.0.1:50010
Decommission Status : Normal
Configured Capacity: 237119766528 (220.83 GB)
DFS Used: 196608 (192 KB)
Non DFS Used: 195470684160 (182.05 GB)
DFS Remaining: 41648885760(38.79 GB)
DFS Used%: 0%
DFS Remaining%: 17.56%
Last contact: Thu Aug 11 15:32:21 CST 2016
```

(2)bin/hadoop dfsadmin -safemode enter

```
beaver@beaver-inter1:~/deploy/hadoop-1.2.1-new$ bin/hadoop dfsadmin -safemode enter
Warning: $HADOOP_HOME is deprecated.

16/08/11 15:33:11 INFO hdfs.DFSClient: DFSClient, token:eyJ0eXAiOiJKV1QiLCAiYWxnIjoiSFMyNTYif
Q.eyJpc3Mi0iJjbGFzczyBvcmcuYXBhY2hlLmhZG9vcC5oZGZzLnRvb2xzLkRGU0FkbWluIiwgImV4cCI6LTEsICJpYXQ
i0jE0NzA5MDA3OTB9.Ggm0IqBKRxWb6zQRU3zL3ln9UfrptJHVy2qZpEBvsA
Safe mode is ON
```

(3)bin/hadoop dfsadmin -safemode leave

```
beaver@beaver-inter1:~/deploy/hadoop-1.2.1-new$ bin/hadoop dfsadmin -safemode leave
Warning: $HADOOP_HOME is deprecated.

16/08/11 15:34:01 INFO hdfs.DFSClient: DFSClient, token:eyJ0eXAiOiJKV1QiLCAiYWxnIjoiSFMyNTYif
Q.eyJpc3Mi0iJjbGFzczyBvcmcuYXBhY2hlLmhZG9vcC5oZGZzLnRvb2xzLkRGU0FkbWluIiwgImV4cCI6LTEsICJpYXQ
i0jE0NzA5MDA4NDB9.mhyGANALXF8Ex0v5-J3apPAMkPdNfwCA1yeZ_FsPaFI
Safe mode is OFF
```

(4)bin/hadoop dfsadmin -safemode wait

```
beaver@beaver-inter1:~/deploy/hadoop-1.2.1-new$ bin/hadoop dfsadmin -safemode wait
Warning: $HADOOP_HOME is deprecated.

16/08/11 15:37:00 INFO hdfs.DFSClient: DFSClient, token:eyJ0eXAiOiJKV1QiLCAiYWxnIjoiSFMyNTYif
Q.eyJpc3Mi0iJjbGFzczyBvcmcuYXBhY2hlLmhZG9vcC5oZGZzLnRvb2xzLkRGU0FkbWluIiwgImV4cCI6LTEsICJpYXQ
i0jE0NzA5MDewMjB9.MLBial0cdy3J-DQoX1mI89jaB4fjthabb3HD5DV0Fug
Safe mode is OFF
```

(5)bin/hadoop dfsadmin -safemode get

```
beaver@beaver-inter1:~/deploy/hadoop-1.2.1-new$ bin/hadoop dfsadmin -safemode get
Warning: $HADOOP_HOME is deprecated.

16/08/11 15:35:46 INFO hdfs.DFSClient: DFSClient, token:eyJ0eXAiOiJKV1QiLCAiYWxnIjoiSFMyNTYif
Q.eyJpc3Mi0iJjbGFzczyBvcmcuYXBhY2hlLmhZG9vcC5oZGZzLnRvb2xzLkRGU0FkbWluIiwgImV4cCI6LTEsICJpYXQ
i0jE0NzA5MDA5NDZ9.oqYNjNzEcgLqiIRZqaA0534TtB4GRNpwYchB_3A01Eng
Safe mode is OFF
```

(6)bin/hadoop dfsadmin -refreshNodes

```
beaver@beaver-inter1:~/deploy/hadoop-1.2.1-new$ bin/hadoop dfsadmin -refreshNodes
Warning: $HADOOP_HOME is deprecated.

16/08/11 15:37:33 INFO hdfs.DFSClient: DFSClient, token:eyJ0eXAiOiJKV1QiLCAiYWxnIjoiSFMyNTYif
Q.eyJpc3Mi0iJjbGFzczyBvcmcuYXBhY2hlLmhZG9vcC5oZGZzLnRvb2xzLkRGU0FkbWluIiwgImV4cCI6LTEsICJpYXQ
i0jE0NzA5MDewNTN9.s-KCe2xJIuqt18t_bnXShnazVCM2VCxq268lltPgQUI
```

(7)bin/hadoop dfsadmin -finalizeUpgrade

```
beaver@beaver-inter1:~/deploy/hadoop-1.2.1-new$ bin/hadoop dfsadmin -finalizeUpgrade
Warning: $HADOOP_HOME is deprecated.

16/08/11 15:38:29 INFO hdfs.DFSClient: DFSClient, token:eyJ0eXAiOiJKV1QiLCAiYWxnIjoiSFMyNTYif
Q.eyJpc3Mi0iJjbGFzczyBvcmcuYXBhY2hlLmhZG9vcC5oZGZzLnRvb2xzLkRGU0FkbWluIiwgImV4cCI6LTEsICJpYXQ
i0jE0NzA5MDExMDl9._IkKGHzUaRW8-wvqN08wHkQizQd_YxeYqg3aKyWicY
```

(8)bin/hadoop dfsadmin -upgradeProgress status

```
beaver@beaver-inter1:~/deploy/hadoop-1.2.1-new$ bin/hadoop dfsadmin -upgradeProgress status
Warning: $HADOOP_HOME is deprecated.

16/08/11 15:39:08 INFO hdfs.DFSClient: DFSClient, token:eyJ0eXAiOiJKV1QiLCAiYWxnIjoiSFMyNTYif
Q.eyJpc3Mi0iJjbGFzczyBvcmcuYXBhY2hlLmhZG9vcC5oZGZzLnRvb2xzLkRGU0FkbWluIiwgImV4cCI6LTEsICJpYXQ
i0jE0NzA5MDExNDh9.HmtjKgTuRoYE_-BpxFKLxmrluHXYOppk6s41UFPPWvA
There are no upgrades in progress.
```

(9)bin/hadoop dfsadmin -upgradeProgress details

```
beaver@beaver-inter1:~/deploy/hadoop-1.2.1-new$ bin/hadoop dfsadmin -upgradeProgress details
Warning: $HADOOP_HOME is deprecated.

16/08/11 15:39:43 INFO hdfs.DFSClient: DFSClient, token:eyJ0eXAiOiJKV1QiLCAiYWxnIjoiSFMyNTYif
Q.eyJpc3MiOiJjbGFzczyBvcmcuYXBhY2hlLmhZG9vcC5oZGZzLnRvb2xzLkRGU0FkbWluIiwgImV4cCI6LTEsICJpYXQ
i0jE0NzA5MDE0DN9.cPGNo073cUmZg0-EU0ifWtDoXSaaWNDsoHmlzRt1A_o
There are no upgrades in progress.
```

(10)bin/hadoop dfsadmin -upgradeProgress force

```
beaver@beaver-inter1:~/deploy/hadoop-1.2.1-new$ bin/hadoop dfsadmin -upgradeProgress force
Warning: $HADOOP_HOME is deprecated.

16/08/11 15:40:19 INFO hdfs.DFSClient: DFSClient, token:eyJ0eXAiOiJKV1QiLCAiYWxnIjoiSFMyNTYif
Q.eyJpc3MiOiJjbGFzczyBvcmcuYXBhY2hlLmhZG9vcC5oZGZzLnRvb2xzLkRGU0FkbWluIiwgImV4cCI6LTEsICJpYXQ
i0jE0NzA5MDEyMTl9.cvxDRqFF0Tr3wWWnD0Q3MayIy8ajLHYtd_WTEDb81ws
There are no upgrades in progress.
```

(11) bin/hadoop dfsadmin -metasave /test.txt

```
beaver@beaver-inter1:~/deploy/hadoop-1.2.1-new$ bin/hadoop dfsadmin -metasave /test.txt
Warning: $HADOOP_HOME is deprecated.

16/08/11 15:41:26 INFO hdfs.DFSClient: DFSClient, token:eyJ0eXAiOiJKV1QiLCAiYWxnIjoiSFMyNTYif
Q.eyJpc3MiOiJjbGFzczyBvcmcuYXBhY2hlLmhZG9vcC5oZGZzLnRvb2xzLkRGU0FkbWluIiwgImV4cCI6LTEsICJpYXQ
i0jE0NzA5MDEyODZ9.pvkvaEou2ik8zVHxRW-jWMqyxmxHlsGONNWjaPVriqq
Created file /test.txt on server hdfs://localhost:9000
```

(12)bin/hadoop dfsadmin -setQuota 4 /test

```
beaver@beaver-inter1:~/deploy/hadoop-1.2.1-new$ bin/hadoop dfsadmin -setQuota 4 /test
Warning: $HADOOP_HOME is deprecated.

16/08/11 15:42:33 INFO hdfs.DFSClient: DFSClient, token:eyJ0eXAiOiJKV1QiLCAiYWxnIjoiSFMyNTYif
Q.eyJpc3MiOiJjbGFzczyBvcmcuYXBhY2hlLmhZG9vcC5oZGZzLnRvb2xzLkRGU0FkbWluIiwgImV4cCI6LTEsICJpYXQ
i0jE0NzA5MDEzNTN9.-ir-RiC-INGfFv_SPumqQzwhbq-Vo_xjhSFwN2YBbEw
beaver@beaver-inter1:~/deploy/hadoop-1.2.1-new$
```

(13)bin/hadoop dfsadmin -clrQuota /test

```
beaver@beaver-inter1:~/deploy/hadoop-1.2.1-new$ bin/hadoop dfsadmin -clrQuota /test
Warning: $HADOOP_HOME is deprecated.

16/08/11 15:43:23 INFO hdfs.DFSClient: DFSClient, token:eyJ0eXAiOiJKV1QiLCAiYWxnIjoiSFMyNTYif
Q.eyJpc3MiOiJjbGFzczyBvcmcuYXBhY2hlLmhZG9vcC5oZGZzLnRvb2xzLkRGU0FkbWluIiwgImV4cCI6LTEsICJpYXQ
i0jE0NzA5MDE0MDJ9.ieTzJQGo4xLiZWq4Pa5wTp0jpIrd0ewlfuC1F6r2a64
beaver@beaver-inter1:~/deploy/hadoop-1.2.1-new$
```

(14)bin/hadoop dfsadmin -help

```
beaver@beaver-inter1:~/deploy/hadoop-1.2.1-new$ bin/hadoop dfsadmin -help
Warning: $HADOOP_HOME is deprecated.

hadoop dfsadmin is the command to execute DFS administrative commands.
The full syntax is:

hadoop dfsadmin [-report] [-safemode <enter | leave | get | wait>]
  [-saveNamespace]
  [-refreshNodes]
  [-setQuota <quota> <dirname>...<dirname>]
  [-clrQuota <dirname>...<dirname>]
  [-setSpaceQuota <quota> <dirname>...<dirname>]
  [-clrSpaceQuota <dirname>...<dirname>]
  [-refreshServiceAcl]
  [-refreshUserToGroupsMappings]
  [refreshSuperUserGroupsConfiguration]
  [-setBalancerBandwidth <bandwidth>]
  [-help [cmd]]]

-report:           Reports basic filesystem information and statistics.
```

7. daemonlog

(1)hadoop daemonlog -getlevel beaver-inter1:50070 org.apache.hadoop.mapred.JobTracker

```
beaver@beaver-inter1:~/deploy/hadoop-1.2.1-new$ hadoop daemonlog -getlevel beaver-inter1:50070 org.apache.hadoop.mapred.JobTracker
Warning: $HADOOP_HOME is deprecated.

Connecting to http://beaver-inter1:50070/logLevel?log=org.apache.hadoop.mapred.JobTracker
Submitted Log Name: org.apache.hadoop.mapred.JobTracker
Log Class: org.apache.commons.logging.impl.Log4JLogger
Effective level: INFO
```

(2)hadoop daemonlog -setlevel beaver-inter1:50070 org.apache.hadoop.mapred.JobTracker WARN

```
beaver@beaver-inter1:~/deploy/hadoop-1.2.1-new$ hadoop daemonlog -setlevel beaver-inter1:50070 org.apache.hadoop.mapred.JobTracker WARN
Warning: $HADOOP_HOME is deprecated.

Connecting to http://beaver-inter1:50070/logLevel?log=org.apache.hadoop.mapred.JobTracker&level=WARN
Submitted Log Name: org.apache.hadoop.mapred.JobTracker
Log Class: org.apache.commons.logging.impl.Log4JLogger
Submitted Level: WARN
Setting Level to WARN ...
Effective level: WARN
```

8. mradmin

(1)bin/hadoop mradmin -refreshQueueAcls

```
beaver@beaver-inter1:~/deploy/hadoop-1.2.1-new$ bin/hadoop mradmin -refreshQueueAcls
Warning: $HADOOP_HOME is deprecated.

refreshQueueAcls: Unknown command
Usage: java MRAdmin
      [-refreshServiceAcl]
      [-refreshQueues]
      [-refreshUserToGroupsMappings]
      [-refreshSuperUserGroupsConfiguration]
      [-refreshNodes]
      [-safemode <enter | leave | get | wait>]
      [-help [cmd]]
```

9. jobtracker

(1)bin/hadoop jobtracker -dumpConfiguration

```
beaver@beaver-inter1:~/deploy/hadoop-1.2.1-new$ bin/hadoop jobtracker -dumpConfiguration
Warning: $HADOOP_HOME is deprecated.

16/08/11 16:00:34 INFO mapred.JobTracker: STARTUP_MSG:
*****STARTUP_MSG: Starting JobTracker
STARTUP_MSG: host = beaver-inter1/127.0.0.1
STARTUP_MSG: args = [-dumpConfiguration]
STARTUP_MSG: version = 1.2.2-SNAPSHOT
STARTUP_MSG: build = -r ; compiled by 'beaver' on 2016-08-08 at 10:00:00 UTC
STARTUP_MSG: java = 1.7.0_79
*****
{"properties": [{"key": "fs.s3n.impl", "value": "org.apache.hadoop.fs.s3native.NativeS3FileSystem", "isFinal": false, "resource": "core-default.xml"}, {"key": "mapreduce.job.counters.max", "value": "120", "isFinal": false, "resource": "mapred-default.xml"}, {"key": "mapred.task.cache.levels", "value": "2", "isFinal": false, "resource": "mapred-default.xml"}, {"key": "mapreduce.job.restart.recover", "value": "true", "isFinal": false, "resource": "mapred-default.xml"}, {"key": "hadoop.tmp.dir", "value": "/home/beaver/deploy/data/hadoop_tmp", "isFinal": false, "resource": "core-site.xml"}, {"key": "hadoop.native.lib", "value": "true", "isFinal": false, "resource": "core-default.xml"}, {"key": "map.sort.class", "value": "org.apache.hadoop.util.QuickSort", "isFinal": false, "resource": "mapred-default.xml"}, {"key": "ipc.client.idlethreshold", "value": "4000", "isFinal": false, "resource": "core-default.xml"}, {"key": "mapred.system.dir", "value": "/home/beaver/deploy/data/hadoop_tmp/mapred/system", "isFinal": false, "resource": "mapred-default.xml"}, {"key": "mapred.job.tracker.persist.jobstatus.hours", "value": "0", "isFinal": false, "resource": "mapred-default.xml"}, {"key": "io.skip.checksum.errors", "value": "false", "isFinal": false, "resource": "core-default.xml"}, {"key": "fs.default.name", "value": "hdfs://localhost:9000", "isFinal": false, "resource": "core-site.xml"}, {"key": "mapred.cluster.reduce.memory.mbs", "value": "-1", "isFinal": false, "resource": "mapred-default.xml"}, {"key": "mapred.child.tmp", "value": "./tmp", "isFinal": false, "resource": "mapred-default.xml"}, {"key": "fs.har.impl.disable.cache", "value": "true", "isFinal": false, "resource": "core-default.xml"}, {"key": "mapred.skip.reduce.max.skip.groups", "value": "0", "isFinal": false, "resource": "mapred-default.xml"}, {"key": "mapred.heartbeats.in.second", "value": "100", "isFinal": false, "resource": "mapred-default.xml"}, {"key": "mapred.tasktracker.dns.nameserver", "value": "default", "isFinal": false, "resource": "mapred-default.xml"}, {"key": "mapred.job.tracker.address", "value": "127.0.0.1:50030", "isFinal": false, "resource": "mapred-default.xml"}, {"key": "mapred.job.tracker.info.address", "value": "127.0.0.1:50031", "isFinal": false, "resource": "mapred-default.xml"}, {"key": "mapred.job.tracker.info.port", "value": "50031", "isFinal": false, "resource": "mapred-default.xml"}, {"key": "mapred.job.tracker.info.address", "value": "127.0.0.1:50031", "isFinal": false, "resource": "mapred-default.xml"}, {"key": "mapred.job.tracker.info.port", "value": "50031", "isFinal": false, "resource": "mapred-default.xml"}]}
```