[HBase-6088](https://www.google.com/url?q=https://issues.apache.org/jira/browse/HBASE-6088&sa=D&source=editors&ust=1751363081465381&usg=AOvVaw3eZ2JB_b5ieDZwFyrL3X7j)

Region splitting not happened for long time due to ZK exception while creating RS\_ZK\_SPLITTING node

**(1)  Log information**

**(1.1) Roles in this case**

HRegionServer   creates ZNode on   ZooKeeper

**(1.2) Symptoms**

“Region splitting not happened for long time due to ZK exception while creating RS\_ZK\_SPLITTING node.”

The following ZK exception ConnectionLossException occurs when trying to create the ZNode for the region, then it will retry to create this ZNode.

2012-05-24 01:45:41,363 INFO org.apache.zookeeper.ClientCnxn: Client session timed out, have not heard from server in 26668ms for sessionid 0x1377a75f41d0012, closing socket connection and attempting reconnect

2012-05-24 01:45:41,464 WARN org.apache.hadoop.hbase.zookeeper.RecoverableZooKeeper: Possibly transient ZooKeeper exception: org.apache.zookeeper.KeeperException$ConnectionLossException: KeeperErrorCode = ConnectionLoss for /hbase/unassigned/bd1079bf948c672e493432020dc0e144

Since we have the following logs(operations), we know that finally the ZNode for this region split is created successfully.

It fails to execute SplitRequest due to the IOExcetpion (caused by BadVersionException), then it runs rollback/cleanup of the failed split transaction.

2012-05-24 01:45:43,300 DEBUG org.apache.hadoop.hbase.regionserver.wal.HLog: cleanupCurrentWriter  waiting for transactions to get synced  total 189377 synced till here 189365

2012-05-24 01:45:48,474 INFO org.apache.hadoop.hbase.regionserver.SplitRequest: Running rollback/cleanup of failed split of ufdr,011365398471659,1337823505339.bd1079bf948c672e493432020dc0e144.; Failed setting SPLITTING znode on ufdr,011365398471659,1337823505339.bd1079bf948c672e493432020dc0e144.

java.io.IOException: Failed setting SPLITTING znode on ufdr,011365398471659,1337823505339.bd1079bf948c672e493432020dc0e144.

         at org.apache.hadoop.hbase.regionserver.SplitTransaction.createDaughters(SplitTransaction.java:242)

         at org.apache.hadoop.hbase.regionserver.SplitTransaction.execute(SplitTransaction.java:450)

         at org.apache.hadoop.hbase.regionserver.SplitRequest.run(SplitRequest.java:67)

            at java.util.concurrent.ThreadPoolExecutor$Worker.runTask(ThreadPoolExecutor.java:886)

         at java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:908)

         at java.lang.Thread.run(Thread.java:662)

Caused by: org.apache.zookeeper.KeeperException$BadVersionException: KeeperErrorCode = BadVersion for /hbase/unassigned/bd1079bf948c672e493432020dc0e144

         at org.apache.zookeeper.KeeperException.create(KeeperException.java:115)

         at org.apache.zookeeper.KeeperException.create(KeeperException.java:51)

         at org.apache.zookeeper.ZooKeeper.setData(ZooKeeper.java:1246)

         at org.apache.hadoop.hbase.zookeeper.RecoverableZooKeeper.setData(RecoverableZooKeeper.java:321)

         at org.apache.hadoop.hbase.zookeeper.ZKUtil.setData(ZKUtil.java:659)

         at org.apache.hadoop.hbase.zookeeper.ZKAssign.transitionNode(ZKAssign.java:811)

         at org.apache.hadoop.hbase.zookeeper.ZKAssign.transitionNode(ZKAssign.java:747)

         at org.apache.hadoop.hbase.regionserver.SplitTransaction.transitionNodeSplitting(SplitTransaction.java:919)

         at org.apache.hadoop.hbase.regionserver.SplitTransaction.createNodeSplitting(SplitTransaction.java:869)

         at org.apache.hadoop.hbase.regionserver.SplitTransaction.createDaughters(SplitTransaction.java:239)

         ... 5 more

2012-05-24 01:45:48,476 INFO org.apache.hadoop.hbase.regionserver.SplitRequest: Successful rollback of failed split of ufdr,011365398471659,1337823505339.bd1079bf948c672e493432020dc0e144.

The following part of log prints when executing splitRequest for this region again.

2012-05-24 01:47:28,141 **ERROR** org.apache.hadoop.hbase.zookeeper.RecoverableZooKeeper: Node /hbase/unassigned/bd1079bf948c672e493432020dc0e144 already exists and this is not a retry

2012-05-24 01:47:28,142 INFO org.apache.hadoop.hbase.regionserver.SplitRequest: Running rollback/cleanup of failed split of ufdr,011365398471659,1337823505339.bd1079bf948c672e493432020dc0e144.; Failed create of ephemeral /hbase/unassigned/bd1079bf948c672e493432020dc0e144

java.io.IOException: Failed create of ephemeral /hbase/unassigned/bd1079bf948c672e493432020dc0e144

         at org.apache.hadoop.hbase.regionserver.SplitTransaction.createNodeSplitting(SplitTransaction.java:865)

         at org.apache.hadoop.hbase.regionserver.SplitTransaction.createDaughters(SplitTransaction.java:239)

         at org.apache.hadoop.hbase.regionserver.SplitTransaction.execute(SplitTransaction.java:450)

         at org.apache.hadoop.hbase.regionserver.SplitRequest.run(SplitRequest.java:67)

“Due to the above exception, region splitting was failing contineously more than 5hrs.”