[HBase-8230](https://www.google.com/url?q=https://issues.apache.org/jira/browse/HBASE-8230&sa=D&source=editors&ust=1751359855391969&usg=AOvVaw2NfRdzv_OReyDSezViXVVP)

Possible NPE on regionserver abort if replication service has not been started

**(1)  Log information**

**(1.1) Roles in this case**

RegionServer   aborts due to the exception in  NameNode

**(1.2) Symptoms**

“RegionServer got Exception on calling setupWALAndReplication, so entered abort flow. Since replicationSink had not been initialized yet, we got below exception:”

Exception in thread "regionserver26003" java.lang.NullPointerException

 at org.apache.hadoop.hbase.replication.regionserver.Replication.join(Replication.java:129)

 at org.apache.hadoop.hbase.replication.regionserver.Replication.stopReplicationService(Replication.java:120)

 at org.apache.hadoop.hbase.regionserver.HRegionServer.join(HRegionServer.java:1803)

 at org.apache.hadoop.hbase.regionserver.HRegionServer.**run**(HRegionServer.java:834)

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

The log below shows that RS got exception on calling setupWALAndReplication, so entered abort flow.

2013-03-29 10:32:42,251 INFO  [regionserver26003] STOPPED: Failed initialization org.apache.hadoop.hbase.regionserver.HRegionServer.stop(HRegionServer.java:1665)

2013-03-29 10:32:42,253 ERROR [regionserver26003] Failed init org.apache.hadoop.hbase.regionserver.HRegionServer.cleanup(HRegionServer.java:1161)

java.io.IOException: cannot get log writer

 at org.apache.hadoop.hbase.regionserver.wal.HLog.createWriter(HLog.java:757)

 at org.apache.hadoop.hbase.regionserver.wal.HLog.createWriterInstance(HLog.java:701)

 at org.apache.hadoop.hbase.regionserver.wal.HLog.rollWriter(HLog.java:637)

 at org.apache.hadoop.hbase.regionserver.wal.HLog.rollWriter(HLog.java:582)

 at org.apache.hadoop.hbase.regionserver.wal.HLog.<init>(HLog.java:436)

 at org.apache.hadoop.hbase.regionserver.wal.HLog.<init>(HLog.java:362)

 at org.apache.hadoop.hbase.regionserver.HRegionServer.instantiateHLog(HRegionServer.java:1327)

 at org.apache.hadoop.hbase.regionserver.HRegionServer.setupWALAndReplication(HRegionServer.java:1316)

 at org.apache.hadoop.hbase.regionserver.HRegionServer.handleReportForDutyResponse(HRegionServer.java:1030)

 at org.apache.hadoop.hbase.regionserver.HRegionServer.run(HRegionServer.java:706)

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

2013-03-29 10:32:42,260 FATAL [regionserver26003] ABORTING region server om-host2,26003,1364524173470: Unhandled exception: cannot get log writer org.apache.hadoop.hbase.regionserver.HRegionServer.abort(HRegionServer.java:1737)

java.io.IOException: cannot get log writer

         at org.apache.hadoop.hbase.regionserver.wal.HLog.createWriter(HLog.java:757)

         at org.apache.hadoop.hbase.regionserver.wal.HLog.createWriterInstance(HLog.java:701)

         at org.apache.hadoop.hbase.regionserver.wal.HLog.rollWriter(HLog.java:637)

         at org.apache.hadoop.hbase.regionserver.wal.HLog.rollWriter(HLog.java:582)

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    at org.apache.hadoop.hbase.regionserver.HRegionServer.run(HRegionServer.java:706)

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

Caused by: java.io.IOException: org.apache.hadoop.hdfs.server.namenode.SafeModeException: Cannot create file/hbase/.logs/om-host2,26003,1364524173470/om-host2%2C26003%2C1364524173470.1364524361366. Name node is in safe mode.

The reported blocks 14 has reached the threshold 0.9990 of total blocks 14. Safe mode will be turned off automatically in 21 seconds.

at org.apache.hadoop.hdfs.server.namenode.FSNamesystem.startFileInternal(FSNamesystem.java:1601)

at org.apache.hadoop.hdfs.server.namenode.FSNamesystem.startFile(FSNamesystem.java:1547)

at org.apache.hadoop.hdfs.server.namenode.NameNodeRpcServer.create(NameNodeRpcServer.java:412)

at org.apache.hadoop.hdfs.protocolPB.ClientNamenodeProtocolServerSideTranslatorPB.create(ClientNamenodeProtocolServerSideTranslatorPB.java:204)

at org.apache.hadoop.hdfs.protocol.proto.ClientNamenodeProtocolProtos$ClientNamenodeProtocol$2.callBlockingMethod(ClientNamenodeProtocolProtos.java:43664)

at org.apache.hadoop.ipc.ProtobufRpcEngine$Server$ProtoBufRpcInvoker.call(ProtobufRpcEngine.java:427)

at org.apache.hadoop.ipc.RPC$Server.call(RPC.java:924)

at org.apache.hadoop.ipc.Server$Handler$1.run(Server.java:1710)

at org.apache.hadoop.ipc.Server$Handler$1.run(Server.java:1706)

at java.security.AccessController.doPrivileged(Native Method)

at javax.security.auth.Subject.doAs(Subject.java:396)

at org.apache.hadoop.security.UserGroupInformation.doAs(UserGroupInformation.java:1232)

at org.apache.hadoop.ipc.Server$Handler.run(Server.java:1704)

at org.apache.hadoop.hbase.regionserver.wal.SequenceFileLogWriter.init(SequenceFileLogWriter.java:209)

at org.apache.hadoop.hbase.regionserver.wal.HLog.createWriter(HLog.java:754)

         ... 10 more