[Cassandra-5804](https://www.google.com/url?q=https://issues.apache.org/jira/browse/CASSANDRA-5804&sa=D&source=editors&ust=1751363286309678&usg=AOvVaw19TeUaLM0t8tkJf4K0GYrs)

AntiEntropySession fails when OutboundTcpConnection receives IOException

**(1)  Log information**

(1.1) Roles in this case

Cassandra node 192.168.193 sends TreeRequest to the other peer nodes (192.168.2.92, 192.168.2.91, 192.168.1.91, 192.168.1.93).

Node 192.168.1.93   fails to send TreeRequest to   node 192.168.2.92 and node 192.168.2.91

**(1.2) Symptoms**

The logs are from node 192.168.1.93, which is conducting AntiEntropy repair:

INFO [AntiEntropySessions:5] 2013-07-24 20:16:39,232 AntiEntropyService.java (line 651) [repair #79afee40-f4bf-11e2-bfb6-bd4071a4c32e] new session: will sync /192.168.1.93, /192.168.2.92, /192.168.2.91, /192.168.1.91 on range (6575400599453278172,6596229519918600663) for ks1.[cf1, cf2]

When doing AntiEntropy repair on node 192.168.1.93, a new RepairSession is started. Node 192.168.1.93 will send TreeRequest to some certain peer nodes.

INFO [AntiEntropySessions:5] 2013-07-24 20:16:39,233 AntiEntropyService.java (line 857) [repair #79afee40-f4bf-11e2-bfb6-bd4071a4c32e] requesting merkle trees for cf1 (to [/192.168.2.92, /192.168.2.91, /192.168.1.91, /192.168.1.93])

Node 192.168.1.93 will send TreeRequest (merkle tree) for column family cf1 to the above nodes.

TRACE [AntiEntropySessions:5] 2013-07-24 20:16:39,233 MessagingService.java (line 602) /192.168.1.93 sending TREE\_REQUEST to 320929@/192.168.2.91

TRACE [AntiEntropySessions:5] 2013-07-24 20:16:39,233 MessagingService.java (line 602) /192.168.1.93 sending TREE\_REQUEST to 320930@/192.168.1.93

TRACE [AntiEntropySessions:5] 2013-07-24 20:16:39,234 MessagingService.java (line 605) Message-to-self TYPE:ANTI\_ENTROPY VERB:TREE\_REQUEST going over MessagingService

TRACE [AntiEntropySessions:5] 2013-07-24 20:16:39,235 MessagingService.java (line 602) /192.168.1.93 sending TREE\_REQUEST to 320931@/192.168.2.92

TRACE [AntiEntropySessions:5] 2013-07-24 20:16:39,235 MessagingService.java (line 602) /192.168.1.93 sending TREE\_REQUEST to 320932@/192.168.1.91

DEBUG [AntiEntropyStage:1] 2013-07-24 20:16:39,236 AntiEntropyService.java (line 467) Queueing validation compaction for #<TreeRequest 79afee40-f4bf-11e2-bfb6-bd4071a4c32e, /192.168.1.93, (ks1,cf1), (6575400599453278172,6596229519918600663)>

DEBUG [WRITE-/192.168.2.92] 2013-07-24 20:16:39,237 OutboundTcpConnection.java (line 209) error writing to /192.168.2.92

java.io.IOException: Connection reset by peer

            at sun.nio.ch.FileDispatcher.write0(Native Method)

            at sun.nio.ch.SocketDispatcher.write(Unknown Source)

            at sun.nio.ch.IOUtil.writeFromNativeBuffer(Unknown Source)

            at sun.nio.ch.IOUtil.write(Unknown Source)

            at sun.nio.ch.SocketChannelImpl.write(Unknown Source)

            at java.nio.channels.Channels.writeFullyImpl(Unknown Source)

            at java.nio.channels.Channels.writeFully(Unknown Source)

            at java.nio.channels.Channels.access$000(Unknown Source)

            at java.nio.channels.Channels$1.write(Unknown Source)

            at java.io.BufferedOutputStream.flushBuffer(Unknown Source)

            at java.io.BufferedOutputStream.flush(Unknown Source)

            at org.xerial.snappy.SnappyOutputStream.flush(SnappyOutputStream.java:272)

            at java.io.DataOutputStream.flush(Unknown Source)

            at org.apache.cassandra.net.OutboundTcpConnection.writeConnected(OutboundTcpConnection.java:200)

            at org.apache.cassandra.net.OutboundTcpConnection.run(OutboundTcpConnection.java:144)

DEBUG [ValidationExecutor:3] 2013-07-24 20:16:39,239 StorageService.java (line 2331) Forcing flush on keyspace ks1, CF cf1

DEBUG [WRITE-/192.168.2.91] 2013-07-24 20:16:39,237 OutboundTcpConnection.java (line 209) error writing to /192.168.2.91

java.io.IOException: Connection reset by peer

            at sun.nio.ch.FileDispatcher.write0(Native Method)

            at sun.nio.ch.SocketDispatcher.write(Unknown Source)

            at sun.nio.ch.IOUtil.writeFromNativeBuffer(Unknown Source)

            at sun.nio.ch.IOUtil.write(Unknown Source)

            at sun.nio.ch.SocketChannelImpl.write(Unknown Source)

            at java.nio.channels.Channels.writeFullyImpl(Unknown Source)

            at java.nio.channels.Channels.writeFully(Unknown Source)

            at java.nio.channels.Channels.access$000(Unknown Source)

            at java.nio.channels.Channels$1.write(Unknown Source)

            at java.io.BufferedOutputStream.flushBuffer(Unknown Source)

            at java.io.BufferedOutputStream.flush(Unknown Source)

            at org.xerial.snappy.SnappyOutputStream.flush(SnappyOutputStream.java:272)

        at java.io.DataOutputStream.flush(Unknown Source)

            at org.apache.cassandra.net.OutboundTcpConnection.writeConnected(OutboundTcpConnection.java:200)

            at org.apache.cassandra.net.OutboundTcpConnection.run(OutboundTcpConnection.java:144)

The IOException happens when 192.168.1.93 is sending TreeRequest to 192.168.2.92 and 192.168.2.91.