[Cassandra-5432](https://www.google.com/url?q=https://issues.apache.org/jira/browse/CASSANDRA-5432&sa=D&source=editors&ust=1751363294108854&usg=AOvVaw2obz2JC3KiMV3TqpT9RkNM)

Repair Freeze/Gossip Invisibility Issues 1.2.4

(1)  Log information

**(1.1) Background**

After upgrading to Cassandra version 1.2.4 from 1.2.3, nodetool repair command is unable to run on any node in an EC2 sandboxed (TCP connection from external network is blocked). “I am reaching our gc\_grace seconds this weekend".  (The grace period for a tombstone is set by the property gc\_grace\_seconds. Its default value is 864000 seconds (ten days)).

**(1.2) Symptoms**

Run nodetool repair on node /x.x.x.190. The repair command just gets stuck and the machine is idling. Only the following logs are printed for repair job:

INFO [Thread-42214] 2013-04-05 23:30:27,785 StorageService.java (line 2379) Starting repair command #4, repairing 1 ranges for keyspace cardspring\_production

INFO [AntiEntropySessions:7] 2013-04-05 23:30:27,789 AntiEntropyService.java (line 652) [repair #cc5a9aa0-9e48-11e2-98ba-11bde7670242](https://www.google.com/url?q=https://issues.apache.org/jira/browse/CASSANDRA-5432%23cc5a9aa0-9e48-11e2-98ba-11bde7670242&sa=D&source=editors&ust=1751363294110830&usg=AOvVaw251e8ccXl7zmd-Rswk0nGa) new session: will sync /X.X.X.190, /X.X.X.43, /X.X.X.56 on range (1808575600,42535295865117307932921825930779602032] for keyspace\_production.[comma separated list of CFs]

INFO [AntiEntropySessions:7] 2013-04-05 23:30:27,790 AntiEntropyService.java (line 858) [repair #cc5a9aa0-9e48-11e2-98ba-11bde7670242](https://www.google.com/url?q=https://issues.apache.org/jira/browse/CASSANDRA-5432%23cc5a9aa0-9e48-11e2-98ba-11bde7670242&sa=D&source=editors&ust=1751363294111242&usg=AOvVaw1a8qb3vexkc49Psh46Frg6) requesting merkle trees for BusinessConnectionIndicesEntries (to [/X.X.X.43, /X.X.X.56, /X.X.X.190])

INFO [AntiEntropyStage:1] 2013-04-05 23:30:28,086 AntiEntropyService.java (line 214) [repair #cc5a9aa0-9e48-11e2-98ba-11bde7670242](https://www.google.com/url?q=https://issues.apache.org/jira/browse/CASSANDRA-5432%23cc5a9aa0-9e48-11e2-98ba-11bde7670242&sa=D&source=editors&ust=1751363294111578&usg=AOvVaw3St_wIcb74aN4tIEhAiuOu) Received merkle tree for ColumnFamilyName from /X.X.X.43

INFO [AntiEntropyStage:1] 2013-04-05 23:30:28,147 AntiEntropyService.java (line 214) [repair #cc5a9aa0-9e48-11e2-98ba-11bde7670242](https://www.google.com/url?q=https://issues.apache.org/jira/browse/CASSANDRA-5432%23cc5a9aa0-9e48-11e2-98ba-11bde7670242&sa=D&source=editors&ust=1751363294111854&usg=AOvVaw2wi1Z3bvzM96brOfFhoUSH) Received merkle tree for ColumnFamilyName from /X.X.X.56

The reporter also “looked at all other nodes logs, and nothing interesting.”

INFO [Thread-458] 2013-04-24 23:21:16,543 StorageService.java (line 2407) Starting repair command #1, repairing 1 ranges for keyspace app\_production

DEBUG [Thread-458] 2013-04-24 23:21:16,580 StorageService.java (line 2547) computing ranges for 1808575600, 7089215977519551322153637656637080005, 14178431955039102644307275311465584410, 4253529586511

7307932921825930779602030, 49624511842636859255075463585608106435, 56713727820156410577229101240436610840, 85070591730234615865843651859750628460, 92159807707754167187997289514579132865, 9924902368527

3718510150927169407637270, 127605887595351923798765477788721654890, 134695103572871475120919115443550159295, 141784319550391026443072753098378663700

INFO [AntiEntropySessions:1] 2013-04-24 23:21:16,587 AntiEntropyService.java (line 651) repair #a9a87e40-ad35-11e2-945a-050d956ff11b new session: will sync /YYY.XX.98.11, /YY.XXX.107.137, /YY.XXX.133.163 on range (99249023685273718510150927169407637270,127605887595351923798765477788721654890] for cardspring\_production.[App]

INFO [AntiEntropySessions:1] 2013-04-24 23:21:16,598 AntiEntropyService.java (line 857) repair #a9a87e40-ad35-11e2-945a-050d956ff11b requesting merkle trees for App (to [/XX.YYY.107.137, /XX.YYY.133.163, /XXX.YY.98.11])

DEBUG [WRITE-/107.20.98.11] 2013-04-24 23:21:16,601 OutboundTcpConnection.java (line 260) attempting to connect to /XXX.YY.98.11

INFO [AntiEntropyStage:1] 2013-04-24 23:21:19,111 AntiEntropyService.java (line 213) repair #a9a87e40-ad35-11e2-945a-050d956ff11b Received merkle tree for App from /XX.YYY.133.163

DEBUG [ScheduledTasks:1] 2013-04-24 23:21:19,409 GCInspector.java (line 121) GC for ParNew: 54 ms for 1 collections, 669806384 used; max is 4211081216

INFO [AntiEntropyStage:1] 2013-04-24 23:21:20,408 AntiEntropyService.java (line 213) repair #a9a87e40-ad35-11e2-945a-050d956ff11b Received merkle tree for App from /XX.YYY.107.137