[Cassandra-1463](https://www.google.com/url?q=https://issues.apache.org/jira/browse/CASSANDRA-1463&sa=D&source=editors&ust=1751363605373865&usg=AOvVaw2K68164kSx_dnv2tztQptm)

Failed bootstrap can cause NPE in batch\_mutate on every node, taking down the entire cluster

**(1)  Log information**

In adding a node to the cluster, the bootstrap failed (still investigating the cause). An hour later, the entire cluster failed, preventing any writes from being accepted. This exception started being printed to the logs:

INFO [Timer-0] 2010-09-03 12:23:33,282 Gossiper.java (line 402) FatClient /10.251.243.191 has been silent for 3600000ms, removing from gossip

ERROR [Timer-0] 2010-09-03 12:23:33,318 Gossiper.java (line 99) Gossip error

java.util.ConcurrentModificationException

at java.util.Hashtable$Enumerator.next(Hashtable.java:1048)

at org.apache.cassandra.gms.Gossiper.doStatusCheck(Gossiper.java:383)

at org.apache.cassandra.gms.Gossiper$GossipTimerTask.run(Gossiper.java:93)

at java.util.TimerThread.mainLoop(Timer.java:534)

at java.util.TimerThread.run(Timer.java:484)

ERROR [pool-1-thread-69153] 2010-09-03 12:23:33,857 Cassandra.java (line 1659) Internal error processing batch\_mutate

java.lang.NullPointerException

at org.apache.cassandra.gms.FailureDetector.isAlive(FailureDetector.java:135)

at org.apache.cassandra.locator.AbstractReplicationStrategy.getHintedEndpoints(AbstractReplicationStrategy.java:85)

at org.apache.cassandra.service.StorageProxy.mutateBlocking(StorageProxy.java:204)

at org.apache.cassandra.thrift.CassandraServer.batch\_mutate(CassandraServer.java:415)

at org.apache.cassandra.thrift.Cassandra$Processor$batch\_mutate.process(Cassandra.java:1651)

at org.apache.cassandra.thrift.Cassandra$Processor.process(Cassandra.java:1166)

at org.apache.cassandra.thrift.CustomTThreadPoolServer$WorkerProcess.run(CustomTThreadPoolServer.java:167)

at java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1110)

at java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:603)

at java.lang.Thread.run(Thread.java:636)

ERROR [pool-1-thread-69154] 2010-09-03 12:23:33,869 Cassandra.java (line 1659) Internal error processing batch\_mutate

java.lang.NullPointerException

at org.apache.cassandra.gms.FailureDetector.isAlive(FailureDetector.java:135)

at org.apache.cassandra.locator.AbstractReplicationStrategy.getHintedEndpoints(AbstractReplicationStrategy.java:85)

at org.apache.cassandra.service.StorageProxy.mutateBlocking(StorageProxy.java:204)

at org.apache.cassandra.thrift.CassandraServer.batch\_mutate(CassandraServer.java:415)

at org.apache.cassandra.thrift.Cassandra$Processor$batch\_mutate.process(Cassandra.java:1651)

at org.apache.cassandra.thrift.Cassandra$Processor.process(Cassandra.java:1166)

at org.apache.cassandra.thrift.CustomTThreadPoolServer$WorkerProcess.run(CustomTThreadPoolServer.java:167)

at java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1110)

at java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:603)

at java.lang.Thread.run(Thread.java:636)

After *a large number of iterations* of that (at least thousands), the printed exception was shortened to

ERROR [pool-1-thread-68869] 2010-09-03 12:39:22,857 Cassandra.java (line 1659) Internal error processing batch\_mutate

java.lang.NullPointerException

ERROR [pool-1-thread-68869] 2010-09-03 12:39:22,883 Cassandra.java (line 1659) Internal error processing batch\_mutate

java.lang.NullPointerException

ERROR [pool-1-thread-68869] 2010-09-03 12:39:22,894 Cassandra.java (line 1659) Internal error processing batch\_mutate

java.lang.NullPointerException

ERROR [pool-1-thread-68970] 2010-09-03 12:39:22,985 Cassandra.java (line 1659) Internal error processing batch\_mutate

java.lang.NullPointerException

ERROR [pool-1-thread-68970] 2010-09-03 12:39:23,084 Cassandra.java (line 1659) Internal error processing batch\_mutate

java.lang.NullPointerException

Rolling a restart over the cluster fixed it, but every node had to be restarted before it started accepting writes again.

INFO 05:26:36,245 FatClient /10.179.65.102 has been silent for 3600000ms, removing from gossip

ERROR 05:26:36,247 Uncaught exception in thread Thread[Timer-0,5,main]

java.lang.AssertionError

at org.apache.cassandra.locator.TokenMetadata.removeEndpoint(TokenMetadata.java:192)

at org.apache.cassandra.service.StorageService.onRemove(StorageService.java:879)

at org.apache.cassandra.gms.Gossiper.removeEndPoint(Gossiper.java:221)

at org.apache.cassandra.gms.Gossiper.doStatusCheck(Gossiper.java:407)

at org.apache.cassandra.gms.Gossiper$GossipTimerTask.run(Gossiper.java:93)

at java.util.TimerThread.mainLoop(Timer.java:534)

at java.util.TimerThread.run(Timer.java:484)