[MAPREDUCE-2693](https://www.google.com/url?q=https://issues.apache.org/jira/browse/MAPREDUCE-2693&sa=D&source=editors&ust=1751358339462338&usg=AOvVaw1bp4rEwhitRvzYilIokguC)

NPE in AM causes it to lose containers which are never returned back to RM

**(1)  Log information**

**(1.1) Roles in this case**

AM (Client-side)   RM(server-side)

**(1.2) Symptoms**

Once the following exception happens, AM keeps obtaining containers from RM and simply loses them. Eventually on a cluster with multiple jobs, no more scheduling happens because of these lost containers.

AM’s log

11/06/17 06:11:18 INFO rm.RMContainerAllocator: **Assigned based on host match** 98.138.163.34

11/06/17 06:11:18 INFO rm.RMContainerRequestor: BEFORE decResourceRequest: applicationId=30 priority=20 resourceName=... numContainers=4978 #asks=5

11/06/17 06:11:18 INFO rm.RMContainerRequestor: AFTER decResourceRequest: applicationId=30 priority=20 resourceName=... numContainers=4977 #asks=5

11/06/17 06:11:18 INFO rm.RMContainerRequestor: BEFORE decResourceRequest: applicationId=30 priority=20 resourceName=... numContainers=1540 #asks=5

11/06/17 06:11:18 INFO rm.RMContainerRequestor: AFTER decResourceRequest: applicationId=30 priority=20 resourceName=... numContainers=1539 #asks=6

11/06/17 06:11:18 ERROR rm.RMContainerAllocator: **ERROR IN CONTACTING RM**.

java.lang.NullPointerException

at org.apache.hadoop.mapreduce.v2.app.rm.RMContainerRequestor.decResourceRequest(RMContainerRequestor.java:246)

at org.apache.hadoop.mapreduce.v2.app.rm.RMContainerRequestor.decContainerReq(RMContainerRequestor.java:198)

at org.apache.hadoop.mapreduce.v2.app.rm.RMContainerAllocator$ScheduledRequests.assign(RMContainerAllocator.java:523)

at org.apache.hadoop.mapreduce.v2.app.rm.RMContainerAllocator$ScheduledRequests.access$200(RMContainerAllocator.java:433)

at org.apache.hadoop.mapreduce.v2.app.rm.RMContainerAllocator.heartbeat(RMContainerAllocator.java:151)

at org.apache.hadoop.mapreduce.v2.app.rm.RMCommunicator$1.run(RMCommunicator.java:220)

at java.lang.Thread.run(Thread.java:619)