[MAPREDUCE-5488](https://www.google.com/url?q=https://issues.apache.org/jira/browse/MAPREDUCE-5488&sa=D&source=editors&ust=1751358308233207&usg=AOvVaw2Uh9U5IdN0OEL5wluQqABQ)

Job recovery fails after killing all the running containers for the app

**(1)  Log information**

**(1.1) Roles in this case**

 JobClient                      ResourceManager(RM): master                ApplicationMaster(AM): slave

**(1.2) Symptoms** (based on the client’s log)

Description for this bug in the comment: “Approx 15s after job submission we find the running container for the app and kill the process. For this test the client reported the failure but the job actually restarted on a different host and finished successfully.”

✦     client connected RM and submitted an application successfully.

13/08/30 08:45:42 INFO impl.YarnClientImpl: Submitted application application\_1377851032086\_0003 to ResourceManager at hostname/68.142.247.148:8032

✦     the application began to run

13/08/30 08:45:42 INFO mapreduce.Job: Running job: job\_1377851032086\_0003

13/08/30 08:45:48 INFO mapreduce.Job: Job job\_1377851032086\_0003 running in uber mode : false

13/08/30 08:45:48 INFO mapreduce.Job:  map 0% reduce 0%

✦    for testing, “stop applicationmaster”

   stop applicationmaster

beaver.component.hadoop|INFO|Kill container container\_1377851032086\_0003\_01\_000001 on host hostname

✦    find and kill the process, to make sure the AM is killed

RUNNING: ssh -o StrictHostKeyChecking=no hostname "sudo su - -c \"ps aux | grep container\_1377851032086\_0003\_01\_000001 | awk '{print \\\$2}' | xargs kill -9\" root"

   Warning: Permanently added 'hostname,68.142.247.155' (RSA) to the list of known hosts.

     kill 8978: No such process                          ( 68.142.247.155 is the old AM addr )

✦     “The client can monitor the application's status by querying the ResourceManager or by directly querying the ApplicationMaster if it supports such a service.”  “The client will periodically poll the Application Master for status updates and display them in the console.”

✦     If the AM fails, the client will experience a timeout when it issues a status update, at which point the client will go back to RM to ask for the new application master’s address.

    waiting for down time 10 seconds for service applicationmaster

✦     Then the client tried to connect the address provided by RM. Since the value of “client-am.ipc.max-retries” is “1”, the client retried to connect the AM, but failed.

13/08/30 08:45:55 INFO ipc.Client: Retrying connect to server: hostname/68.142.247.155:52713. Already tried 0 time(s); retry policy is RetryUpToMaximumCountWithFixedSleep(maxRetries=1, sleepTime=1 SECONDS)                                     (still try to connect the old AM addr)

13/08/30 08:45:56 INFO ipc.Client: Retrying connect to server: hostname/68.142.247.155:52713. Already tried 0 time(s); retry policy is RetryUpToMaximumCountWithFixedSleep(maxRetries=1, sleepTime=1 SECONDS)

13/08/30 08:45:56 ERROR security.UserGroupInformation: PriviledgedActionException as:user@REALM (auth:KERBEROS) cause:java.io.IOException: java.net.ConnectException: Call From hostname.ConnectException: Connection refused; For more details see:  http://wiki.apache.org/hadoop/ConnectionRefused

java.io.IOException: java.net.ConnectException: Call From hostname.ConnectException: Connection refused; For more details see:  http://wiki.apache.org/hadoop/ConnectionRefused

at org.apache.hadoop.mapred.ClientServiceDelegate.invoke(ClientServiceDelegate.java:319)

at org.apache.hadoop.mapred.ClientServiceDelegate.getTaskCompletionEvents(ClientServiceDelegate.java:354)

at org.apache.hadoop.mapred.YARNRunner.getTaskCompletionEvents(YARNRunner.java:529)

at org.apache.hadoop.mapreduce.Job$5.run(Job.java:668)

at org.apache.hadoop.mapreduce.Job$5.run(Job.java:665)

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:1477)

at org.apache.hadoop.mapreduce.Job.getTaskCompletionEvents(Job.java:665)

at org.apache.hadoop.mapreduce.Job.monitorAndPrintJob(Job.java:1349)

at org.apache.hadoop.mapreduce.Job.waitForCompletion(Job.java:1289)

at org.apache.hadoop.examples.WordCount.main(WordCount.java:84)

at sun.reflect.NativeMethodAccessorImpl.invoke0(Native Method)

at sun.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl.java:39)

at sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:25)

at java.lang.reflect.Method.invoke(Method.java:597)

at org.apache.hadoop.util.ProgramDriver$ProgramDescription.invoke(ProgramDriver.java:72)

at org.apache.hadoop.util.ProgramDriver.run(ProgramDriver.java:144)

at org.apache.hadoop.examples.ExampleDriver.main(ExampleDriver.java:74)

at sun.reflect.NativeMethodAccessorImpl.invoke0(Native Method)

at sun.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl.java:39)

at sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:25)

at java.lang.reflect.Method.invoke(Method.java:597)

at org.apache.hadoop.util.RunJar.main(RunJar.java:212)

Caused by: java.net.ConnectException: Call From hostname.ConnectException: Connection refused; For more details see:  http://wiki.apache.org/hadoop/ConnectionRefused

…(stack trace)

at org.apache.hadoop.net.NetUtils.wrapWithMessage(NetUtils.java:783)

at org.apache.hadoop.net.NetUtils.wrapException(NetUtils.java:730)

at org.apache.hadoop.ipc.Client.call(Client.java:1351)

at org.apache.hadoop.ipc.Client.call(Client.java:1300)

at org.apache.hadoop.ipc.ProtobufRpcEngine$Invoker.invoke(ProtobufRpcEngine.java:206)

at $Proxy14.getTaskAttemptCompletionEvents(Unknown Source)

at org.apache.hadoop.mapreduce.v2.api.impl.pb.client.MRClientProtocolPBClientImpl.getTaskAttemptCompletionEvents(MRClientProtocolPBClientImpl.java:177)

…(stack trace)

at java.lang.reflect.Method.invoke(Method.java:597)

at org.apache.hadoop.mapred.ClientServiceDelegate.invoke(ClientServiceDelegate.java:310)

... 23 more

Caused by: java.net.ConnectException: Connection refused

…(stack trace)

at org.apache.hadoop.ipc.Client$Connection.setupConnection(Client.java:547)

at org.apache.hadoop.ipc.Client$Connection.setupIOstreams(Client.java:642)

at org.apache.hadoop.ipc.Client$Connection.access$2600(Client.java:314)

at org.apache.hadoop.ipc.Client.getConnection(Client.java:1399)

at org.apache.hadoop.ipc.Client.call(Client.java:1318)

... 32 more