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Impersonation related error after configuring impersonation in MapR and Hadoop ecosystem

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After configuring impersonation in MapR and the desired ecosystem components per the procedure documented by MapR an impersonation error similar to the one below may be seen. This error can occur when a process running as the 'mapr' user attempts to impersonate another user, for example in Hue, Hiveserver2 or Oozie.

```
JA009: User: mapr is not allowed to impersonate mapr
```

The following error is seen when impersonation is not properly configured on the Jobtracker/ResourceManager.

```
JA009: User: mapr is not allowed to impersonate mapr

Caused by: org.apache.hadoop.ipc.RemoteException: User: mapr is not allowed to impersonate mapr
at org.apache.hadoop.ipc.Client.call(Client.java:1142)
```

The most common cause of this exception is the process user, 'mapr' above is not properly configured on the JobTracker or ResourceManager nodes for impersonation. The user must be configured to permit impersonation in the corresponding service configuration file.

To setup impersonation for the desired process user that will perform impersonation use the following procedure.

Note: In the following steps the user 'mapr' is impersonation user. Please replace the impersonation user with the respective user that will be running the corresponding process like Oozie, Hue, Hiveserver2 in your environment. In this example those processes are running under the 'mapr' user so 'mapr' is responsible for impersonating actions on behalf of other users.

On all Jobtracker nodes edit /opt/mapr/hadoop/hadoop-0.20.2/conf/core-site.xml and add the two properties below:

```
<configuration>
  <property>
    <name>hadoop.proxyuser.mapr.groups</name>
    <value>*</value>
  </property>
  <property>
    <name>hadoop.proxyuser.mapr.hosts</name>
    <value>*</value>
  </property>
</configuration>
```

The value for 'hadoop.proxyuser.mapr.groups' can be left as '*' to allow impersonation of all groups or can be replaced with a comma separated list of groups that can be impersonated.

1. Add the above change to core-site.xml on all JobTracker nodes.
2. **Restart the active JobTracker** using either the MCS or the **maprccli node services** command.

For YARN deployments on all ResourceManager nodes edit /opt/mapr/hadoop/hadoop-2.4.1/etc/hadoop/core-site.xml and add the two properties below:

```
<configuration>
  <property>
    <name>hadoop.proxyuser.mapr.groups</name>
    <value>*</value>
  </property>
  <property>
    <name>hadoop.proxyuser.mapr.hosts</name>
    <value>*</value>
  </property>
</configuration>
```

1. Add the above change to core-site.xml on all ResourceManager nodes.
2. **Restart the active ResourceManager** using either the MCS or the **maprcli node services** command.

For more information on setting up impersonation with MapR and the necessary ecosystem components please search for 'impersonation' on the MapR Documentation site <http://doc.mapr.com>.

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Last modified on Feb 1, 2016 9:39 PM

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1 Comment



mdrazi
Dec 14, 2016 9:30 PM

Wonderful article @Sreedhar - There are couple of answers on stackoverflow but this is the best solution and worked like charm. I had a specific issue with hue browser unable to execute (aggregate or WHERE condition) query on hive table. The error would be pic below.

Your query has the following error(s):

Error while processing statement: FAILED: Execution Error, return code 1 from org.apache.hadoop.hive.ql.exec.mr.MapRedTask

```
1 select count(1) from production_3months_basecallqc
```

FAILED: Execution Error, return code 1 from org.apache.hadoop.hive.ql.exec.mr.MapRedTask

Steps I followed:

1. Update the core-site.xml
2. stopped all resourcemangers
3. stopped the node manager which the hue/hive services were configured
4. started resourcemangers
5. started node manager

Few things to remember for MapR 5.1 release for the location of the core-site.xml file.

- The core-site.xml is located depending on your core hadoop version
- vim /opt/mapr/hadoop/hadoop-2.7.0/etc/hadoop/core-site.xml
- stopping the resource manager maprccli node services -name resourcemanager -action stop -nodes `hostname`
- starting the resource manager maprccli node services -name resourcemanager -action start -nodes `hostname`

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