Security Fix for Hive

Security Settings

Out of the box, the virtual environment setup causes some of the commands of the form "set hive.xxx=xxx" give a security error when run.

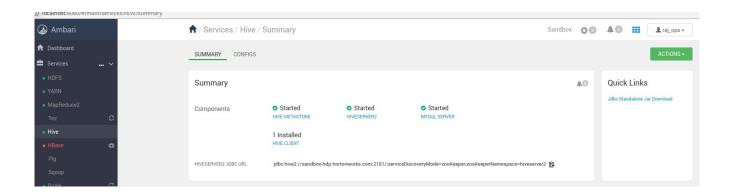
This is because the most recent version of Hive introduced a new security model which blocks the user's ability to set certain Hive environment variables

To fix this issue so that your labs work properly, the simplest solution is to disable the Hive security feature that blocks these commands from running. Note that this is NOT recommended in any operational environment!! This is a solution ONLY in your Nuvelab sandbox.

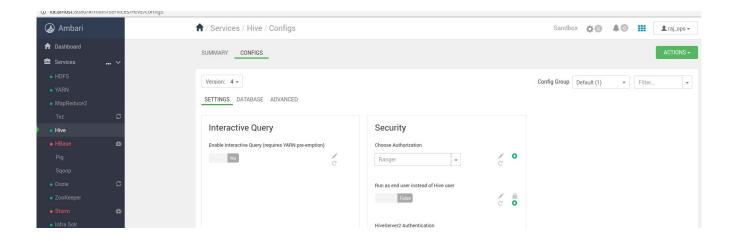
With security on, you will see the error messages that look something like this:

Beeline version 3.1.0.3.0.1.0-187 by Apache Hive
0: jdbc:hive2://sandbox-hdp.hortonworks.com:2> set hive.cli.print.header=true;
Error: Error while processing statement: Cannot modify hive.cli.print.header at runtime. It is not in list of params that are allowed to be modified at runtime (state=42000,code=1)
0: jdbc:hive2://sandbox-hdp.hortonworks.com:2>

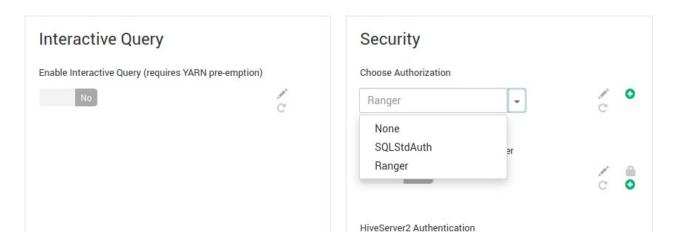
In order to disable the security, go into the Ambari control center as raj_ops and select "Hive" from the services on the left. You should see a screen that looks like the one below.



Select the CONFIG tab next to the SUMMARY tab. You should see the screen shown on the next page

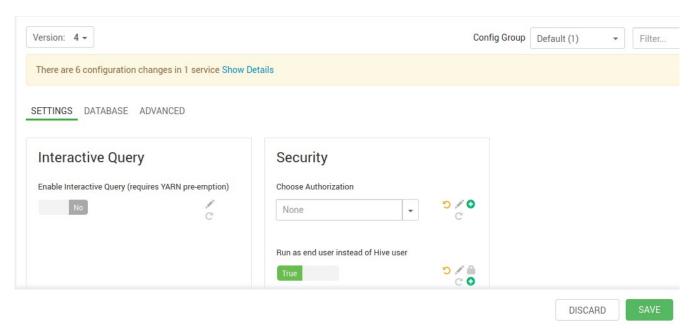


By default the security is set to Ranger. Using the drop down arrow shows other options.

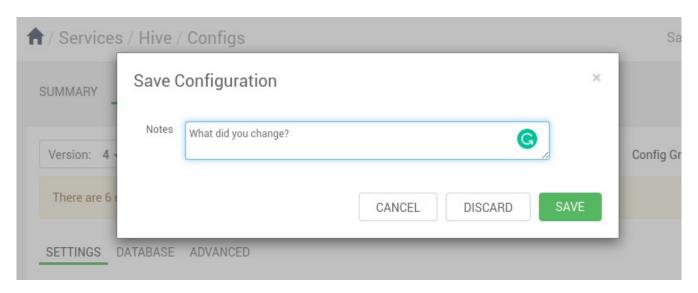


The security we want is "None". After choosing None, select "FINISH" at the bottom of the screen as shown on the next page.

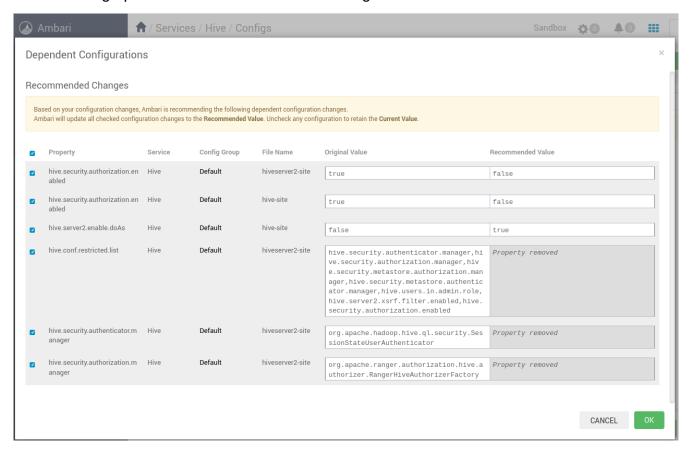
Security Fix



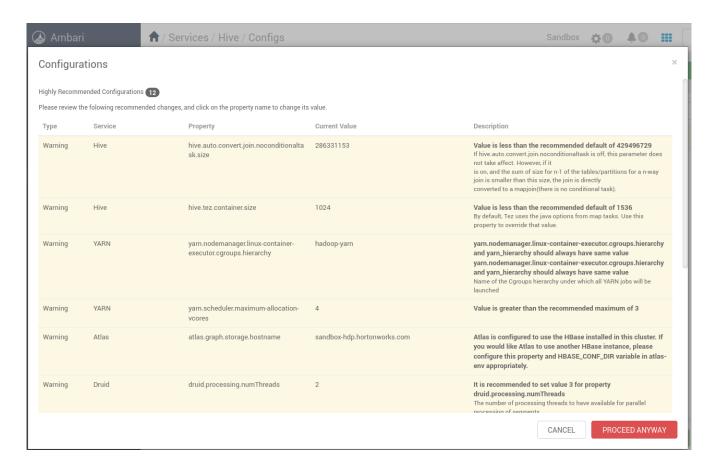
When the dialog box comes up, you can just click save again. This is used to document changes made by administrators so can just click "SAVE".



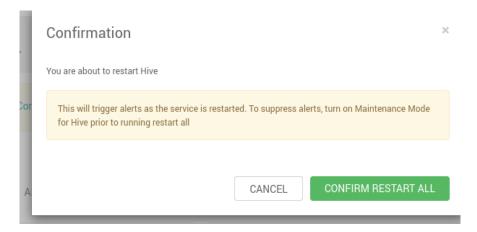
This will bring up a screen of recommended changes. Just click on "OK"



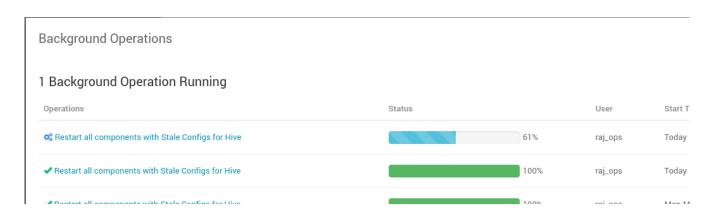
There will be a list of configuration warnings, most about default settings. For now, you can just select the red "PROCEED ANYWAY" Option.



After clicking OK on the confirmation dialog box, the Hive server needs to be restarted for the changes to take effect. Select the orange RESTART button to restart all. Ambari asks you to confirm.



Select "CONFIRM RESTART ALL" and you should see the services restarting.



Once all the services have been restarted, open a new hive shell and confirm that you can now set the configuration variable you could not set previously.

```
0: jdbc:hive2://sandbox-hdp.hortonworks.com:2> set hive.cli.print.header=true;
No rows affected (0.008 seconds)
0: jdbc:hive2://sandbox-hdp.hortonworks.com:2>
```