git_commits:

1. **summary:** HIVE-2767 [jira] Optionally use framed transport with metastore **message:** HIVE-2767 [jira] Optionally use framed transport with metastore (Travis Crawford via Ashutosh Chauhan) Summary: Add support for optionally using the thrift framed transport, enabling integration with environments where that is necessary. Users may want/need to use thrift's framed transport when communicating with the Hive MetaStore. This patch adds a new property hive.metastore.thrift.framed.transport.enabled that enables the framed transport (defaults to off, aka no change from before the patch). This property must be set for both clients and the HMS server. It wasn't immediately clear how to use the framed transport with SASL, so as written an exception is thrown if you try starting the server with both options. If SASL and the framed transport will indeed work together I can update the patch (although I don't have a secured environment to test in). Test Plan: Tested locally that client and server can connect, both with and without the flag. Tests pass. Reviewers: JIRA, ashutoshc Reviewed By: ashutoshc Differential Revision: https://reviews.facebook.net/D2661 git-svn-id: https://svn.apache.org/repos/asf/hive/trunk@1325446 13f79535-47bb-0310-9956-ffa450edef68

github_issues:
github_issues_comments:
github_pulls:
github_pulls_comments:
github_pulls_reviews:
jira_issues:

1. **summary:** Optionally use framed transport with metastore **description:** Users may want/need to use thrift's framed transport when communicating with the Hive MetaStore. This patch adds a new property {{hive.metastore.thrift.framed.transport.enabled}} that enables the framed transport (defaults to off, aka no change from before the patch). This property must be set for both clients and the HMS server. It wasn't immediately clear how to use the framed transport with

SASL, so as written an exception is thrown if you try starting the server with both options. If SASL and the framed transport will indeed work together I can update the patch (although I don't have a secured

environment to test in).

jira_issues_comments:

1. **body:** Patch looks ok to me. I presume this is for performance. Just curious, have you seen substantial performance gains because of this. Since, most of the rpc call in MetaStore are of fairly small payload. To me, it appears it won't bring in much perf gains.

label: code-design

2. **body:** Thanks for the feedback Ashutosh - if this is something you'd consider adding I can update based on current trunk if things have changed. While there may be perf gains, this is needed to integrate with our compute grid. Basically a wrapper registers the metastore host:port in zookeeper, and a thrift framed-transport-only proxy proxies metastore requests based on its ZK registration. This lets us launch the metastore on our mesos cluster and still give clients the hard-coded host:port they expect.

label: code-design

- 3. Thanks Travis for explaining the usecase. Makes sense. Without that I was shooting in dark about why you need Framed Transport. :) Yeah, update the patch. I will test and commit.
- 4. I have an updated patch, as Hive changed since this patch. Will post it soon.
- 5. patch updated to latest Hive
- 6. Not to the latest trunk:) Patch fails to apply. Also, can you use arc to submit the patch. Instructions are here: https://cwiki.apache.org/confluence/display/Hive/PhabricatorCodeReview
- 7. Patch needs to be rebased.

environments where that is necessary. Users may want/need to use thrift's framed transport when communicating with the Hive MetaStore. This patch adds a new property hive.metastore.thrift.framed.transport.enabled that enables the framed transport (defaults to off, aka no change from before the patch). This property must be set for both clients and the HMS server. It wasn't immediately clear how to use the framed transport with SASL, so as written an exception is thrown if you try starting the server with both options. If SASL and the framed transport will indeed work together I can update the patch (although I don't have a secured environment to test in). TEST PLAN Tested locally that client and server can connect, both with and without the flag. Tests pass. REVISION DETAIL https://reviews.facebook.net/D2661 AFFECTED FILES common/src/java/org/apache/hadoop/hive/conf/HiveConf.java metastore/src/java/org/apache/hadoop/hive/metastore/HiveMetaStore.java metastore/src/java/org/apache/hadoop/hive/metastore/HiveMetaStoreClient.java MANAGE HERALD DIFFERENTIAL RULES https://reviews.facebook.net/herald/view/differential/ WHY DID I GET THIS EMAIL? https://reviews.facebook.net/herald/transcript/6111/ Tip: use the X-Herald-Rules header to filter Herald messages in your client.

8. travis requested code review of "HIVE-2767 [jira] Optionally use framed transport with metastore".

Reviewers: JIRA Add support for optionally using the thrift framed transport, enabling integration with

- 9. ashutoshc has requested changes to the revision "HIVE-2767 [jira] Optionally use framed transport with metastore". What will happen if the config variable is set to true in client, but is false in server and viceversa? INLINE COMMENTS common/src/java/org/apache/hadoop/hive/conf/HiveConf.java:269 This also needs to be added in conf/hive-default.xml.template which serve as a documentation. metastore/src/java/org/apache/hadoop/hive/metastore/HiveMetaStore.java:3020 In your earlier version of patch you were throwing exception in case both secure mode as well as framed transport is set to true. If you have tested with both true and it works then its fine, otherwise we should throw an exception here. REVISION DETAIL https://reviews.facebook.net/D2661 BRANCH HIVE-2767_optional_framed_transport
- 10. travis has commented on the revision "HIVE-2767 [jira] Optionally use framed transport with metastore". If just one side of the connection is using the framed transport the connection will fail, likely after the timeout. As this is something that is setup just once per site its not likely to change often, and it defaults off, so the risk of casual misconfiguration is low. Any suggestions on how to better clue the user in that the transport may be the issue? INLINE COMMENTS common/src/java/org/apache/hadoop/hive/conf/HiveConf.java:269 Good suggestion, done. metastore/src/java/org/apache/hadoop/hive/metastore/HiveMetaStore.java:3020 Good suggestion. I don't have an environment to test SASL in, so I'll add the check back. REVISION DETAIL https://reviews.facebook.net/D2661 BRANCH HIVE-2767_optional_framed_transport
- 11. travis updated the revision "HIVE-2767 [jira] Optionally use framed transport with metastore". Reviewers: JIRA, ashutoshc REVISION DETAIL https://reviews.facebook.net/D2661 AFFECTED FILES common/src/java/org/apache/hadoop/hive/conf/HiveConf.java conf/hive-default.xml.template metastore/src/java/org/apache/hadoop/hive/metastore/HiveMetaStore.java metastore/src/java/org/apache/hadoop/hive/metastore/HiveMetaStoreClient.java
- 12. travis updated the revision "HIVE-2767 [jira] Optionally use framed transport with metastore". Reviewers: JIRA, ashutoshc Update per comments from review. Add option to hive-default.xml, and disallow framed transport when using SASL as that has not been tested. REVISION DETAIL https://reviews.facebook.net/D2661 AFFECTED FILES common/src/java/org/apache/hadoop/hive/conf/HiveConf.java conf/hive-default.xml.template metastore/src/java/org/apache/hadoop/hive/metastore/HiveMetaStore.java metastore/src/java/org/apache/hadoop/hive/metastore/HiveMetaStoreClient.java
- 13. After your patch test {{ant test -Dtestcase=TestHiveServerSessions}} is timing out. Can you take a look?
- 14. @ashutosh Yeah this test does seem problematic. It works fine in IntelliJ but I can't get it to pass with the command you gave, even when doing a clean trunk build. Looking at Jenkins the test works fine, so perhaps its something to do with my machine (osx 10.7.3). I'm looking into why the test doesn't work on trunk, then will see if this change affects it.
- 15. @Travis, It has nothing to do with your patch. Problem exists on trunk. See, HIVE-2937 And ya, its a race condition, so it doesn't show up always.
- 16. Cool thanks for the pointer! I'll watch that issue and afterwards rebase if necessary and update.
- 17. Committed. Thanks, Travis!
- 18. ashutoshc has accepted the revision "HIVE-2767 [jira] Optionally use framed transport with metastore". +1 will commit soon. REVISION DETAIL https://reviews.facebook.net/D2661 BRANCH HIVE-2767_optional_framed_transport

- 19. travis has committed the revision "HIVE-2767 [jira] Optionally use framed transport with metastore". Change committed by hashutosh. REVISION DETAIL https://reviews.facebook.net/D2661 COMMIT https://reviews.facebook.net/rHIVE1325446
- 20. Integrated in Hive-trunk-h0.21 #1370 (See [https://builds.apache.org/job/Hive-trunk-h0.21/1370/]) HIVE-2767 [jira] Optionally use framed transport with metastore (Travis Crawford via Ashutosh Chauhan) Summary: Add support for optionally using the thrift framed transport, enabling integration with environments where that is necessary. Users may want/need to use thrift's framed transport when communicating with the Hive MetaStore. This patch adds a new property hive.metastore.thrift.framed.transport.enabled that enables the framed transport (defaults to off, aka no change from before the patch). This property must be set for both clients and the HMS server. It wasn't immediately clear how to use the framed transport with SASL, so as written an exception is thrown if you try starting the server with both options. If SASL and the framed transport will indeed work together I can update the patch (although I don't have a secured environment to test in). Test Plan: Tested locally that client and server can connect, both with and without the flag. Tests pass. Reviewers: JIRA, ashutoshc Reviewed By: ashutoshc Differential Revision: https://reviews.facebook.net/D2661 (Revision 1325446) Result = SUCCESS hashutosh: http://svn.apache.org/viewcvs.cgi/?root=Apache-SVN&view=rev&rev=1325446 Files: *

/hive/trunk/common/src/java/org/apache/hadoop/hive/conf/HiveConf.java*/hive/trunk/conf/hive-default.xml.template*

/hive/trunk/metastore/src/java/org/apache/hadoop/hive/metastore/HiveMetaStore.java * /hive/trunk/metastore/src/java/org/apache/hadoop/hive/metastore/HiveMetaStoreClient.java

21. Integrated in Hive-trunk-hadoop2 #54 (See [https://builds.apache.org/job/Hive-trunk-hadoop2/54/]) HIVE-2767 [jira] Optionally use framed transport with metastore (Travis Crawford via Ashutosh Chauhan) Summary: Add support for optionally using the thrift framed transport, enabling integration with environments where that is necessary. Users may want/need to use thrift's framed transport when communicating with the Hive MetaStore. This patch adds a new property hive.metastore.thrift.framed.transport.enabled that enables the framed transport (defaults to off, aka no change from before the patch). This property must be set for both clients and the HMS server. It wasn't immediately clear how to use the framed transport with SASL, so as written an exception is thrown if you try starting the server with both options. If SASL and the framed transport will indeed work together I can update the patch (although I don't have a secured environment to test in). Test Plan: Tested locally that client and server can connect, both with and without the flag. Tests pass. Reviewers: JIRA, ashutoshc Reviewed By: ashutoshc Differential Revision: https://reviews.facebook.net/D2661 (Revision 1325446) Result = ABORTED hashutosh: http://svn.apache.org/viewcvs.cgi/?root=Apache-SVN&view=rev&rev=1325446 Files: *

/hive/trunk/common/src/java/org/apache/hadoop/hive/conf/HiveConf.java*/hive/trunk/conf/hive-default.xml.template*

- /hive/trunk/metastore/src/java/org/apache/hadoop/hive/metastore/HiveMetaStore.java * /hive/trunk/metastore/src/java/org/apache/hadoop/hive/metastore/HiveMetaStoreClient.java
- 22. This issue is fixed and released as part of 0.10.0 release. If you find an issue which seems to be related to this one, please create a new jira and link this one with new jira.
- 23. **body:** Doc note: This adds configuration parameter *hive.metastore.thrift.framed.transport.enabled* to HiveConf.java, so it needs to be documented in the wiki: * [Configuration Properties -- MetaStore | https://cwiki.apache.org/confluence/display/Hive/Configuration+Properties#ConfigurationProperties-MetaStore]

label: documentation