

EDIT - bug #8132

phycobank cdm-server instance problems with db connections

02/22/2019 06:38 PM - Andreas Kohlbecker

Status:	Worksforme	Start date:	
Priority:	Highest	Due date:	
Assignee:	Wolf-Henning Kusber	% Done:	0%
Category:	cdmserver	Estimated time:	0:00 hour
Target version:		Found in Version:	
Severity:	critical		
Description			
the phycobank cdm-server instance which is running in a docker container got problems with the db connections			
Problem accessing /phycobank/registrationDTO/identifier/http%3A%2F%2Fphycobank.org%2F100530.json. Reason:			
com.mysql.jdbc.exceptions.jdbc4.CommunicationsException: The last packet successfully received from the server was 89,950,095 milliseconds ago. The last packet sent successfully to the server was 89,950,096 milliseconds ago. is longer than the server configured value of 'wait_timeout'. You should consider either expiring and/or testing connection validity before use in your application, increasing the server configured values for client timeouts, or using the Connector/J connection property 'autoReconnect=true' to avoid this problem.			
at sun.reflect.NativeConstructorAccessorImpl.newInstance0(Native Method) at sun.reflect.NativeConstructorAccessorImpl.newInstance(NativeConstructorAccessorImpl.java:62)) at sun.reflect.DelegatingConstructorAccessorImpl.newInstance(DelegatingConstructorAccessorImpl.java:45) at java.lang.reflect.Constructor.newInstance(Constructor.java:423) at com.mysql.jdbc.Util.handleNewInstance(Util.java:404) at com.mysql.jdbc.SQLError.createCommunicationsException(SQLError.java:981) at com.mysql.jdbc.MysqlIO.send(MysqlIO.java:3652) at com.mysql.jdbc.MysqlIO.sendCommand(MysqlIO.java:2460) at com.mysql.jdbc.MysqlIO.sqlQueryDirect(MysqlIO.java:2625) at com.mysql.jdbc.ConnectionImpl.execSQL(ConnectionImpl.java:2551) at com.mysql.jdbc.PreparedStatement.executeInternal(PreparedStatement.java:1861) at com.mysql.jdbc.PreparedStatement.executeQuery(PreparedStatement.java:1962) at com.mchange.v2.c3p0.impl.NewProxyPreparedStatement.executeQuery(NewProxyPreparedStatement.java:353) at org.hibernate.engine.jdbc.internal.ResultSetReturnImpl.extract(ResultSetReturnImpl.java:70) at org.hibernate.loader.Loader.getResultSet(Loader.java:2116) at org.hibernate.loader.Loader.executeQueryStatement(Loader.java:1899) at org.hibernate.loader.Loader.executeQueryStatement(Loader.java:1875) at org.hibernate.loader.Loader.doQuery(Loader.java:919) at org.hibernate.loader.Loader.doQueryAndInitializeNonLazyCollections(Loader.java:336) at org.hibernate.loader.Loader.doList(Loader.java:2611) at org.hibernate.loader.Loader.doList(Loader.java:2594) at org.hibernate.loader.Loader.listIgnoreQueryCache(Loader.java:2423) at org.hibernate.loader.Loader.list(Loader.java:2418) at org.hibernate.loader.criteria.CriteriaLoader.list(CriteriaLoader.java:109) at org.hibernate.internal.SessionImpl.list(SessionImpl.java:1774) at org.hibernate.internal.CriteriaImpl.list(CriteriaImpl.java:363) at org.hibernate.internal.CriteriaImpl.uniqueResult(CriteriaImpl.java:385) at eu.etaxonomy.cdm.persistence.dao.hibernate.common.CdmEntityDaoBase.countByParamWithRestrictions(CdmEntityDaoBase.java:1197) at eu.etaxonomy.cdm.persistence.dao.hibernate.common.IdentifiableDaoBase.countByTitleWithRestrictions(IdentifiableDaoBase.java:344) at eu.etaxonomy.cdm.api.service.IdentifiableServiceBase.findByTitleWithRestrictions(IdentifiableServiceBase.java:147) at sun.reflect.GeneratedMethodAccessor189.invoke(Unknown Source) at sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:43) at java.lang.reflect.Method.invoke(Method.java:498) at org.springframework.aop.support.AopUtils.invokeJoinpointUsingReflection(AopUtils.java:302) at org.springframework.aop.framework.ReflectiveMethodInvocation.invokeJoinpoint(ReflectiveMeth			

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odInvocation.java:190)
    at org.springframework.aop.framework.ReflectiveMethodInvocation.proceed(ReflectiveMethodInvocation.java:157)
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    at org.springframework.security.web.FilterChainProxy$VirtualFilterChain.doFilter(FilterChainProxy.java:330)
    at org.springframework.security.oauth2.provider.authentication.OAuth2AuthenticationProcessingF
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    at org.springframework.security.web.FilterChainProxy$VirtualFilterChain.doFilter(FilterChainPr
oxy.java:330)
    at org.springframework.security.web.authentication.logout.LogoutFilter.doFilter(LogoutFilter.j
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3)
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    at org.springframework.web.filter.DelegatingFilterProxy.invokeDelegate(DelegatingFilterProxy.j
ava:346)
    at org.springframework.web.filter.DelegatingFilterProxy.doFilter(DelegatingFilterProxy.java:26
2)
    at org.eclipse.jetty.servlet.ServletHandler$CachedChain.doFilter(ServletHandler.java:1652)
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    at org.eclipse.jetty.servlet.ServletHandler.doScope(ServletHandler.java:515)
    at org.eclipse.jetty.server.session.SessionHandler.doScope(SessionHandler.java:185)
    at org.eclipse.jetty.server.handler.ContextHandler.doScope(ContextHandler.java:1061)
    at org.eclipse.jetty.server.handler.ScopedHandler.handle(ScopedHandler.java:141)
    at org.eclipse.jetty.server.handler.ContextHandlerCollection.handle(ContextHandlerCollection.j
ava:215)
    at org.eclipse.jetty.server.handler.HandlerWrapper.handle(HandlerWrapper.java:97)
    at org.eclipse.jetty.server.Server.handle(Server.java:497)
    at org.eclipse.jetty.server.HttpChannel.handle(HttpChannel.java:310)
    at org.eclipse.jetty.server.HttpConnection.onFillable(HttpConnection.java:257)
    at org.eclipse.jetty.io.AbstractConnection$2.run(AbstractConnection.java:540)
    at org.eclipse.jetty.util.thread.QueuedThreadPool.runJob(QueuedThreadPool.java:635)
    at org.eclipse.jetty.util.thread.QueuedThreadPool$3.run(QueuedThreadPool.java:555)
    at java.lang.Thread.run(Thread.java:748)
Caused by: java.net.SocketException: Broken pipe (Write failed)
    at java.net.SocketOutputStream.socketWrite0(Native Method)
    at java.net.SocketOutputStream.socketWrite(SocketOutputStream.java:111)
    at java.net.SocketOutputStream.write(SocketOutputStream.java:155)
    at java.io.BufferedOutputStream.flushBuffer(BufferedOutputStream.java:82)
    at java.io.BufferedOutputStream.flush(BufferedOutputStream.java:140)
    at com.mysql.jdbc.MysqlIO.send(MysqlIO.java:3634)
    ... 107 more
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Caused by:

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at com.mysql.jdbc.MysqlIO.sendCommand (MysqlIO.java:2460)
at com.mysql.jdbc.MysqlIO.sqlQueryDirect (MysqlIO.java:2625)
at com.mysql.jdbc.ConnectionImpl.execSQL (ConnectionImpl.java:2551)
at com.mysql.jdbc.PreparedStatement.executeInternal (PreparedStatement.java:1861)
at com.mysql.jdbc.PreparedStatement.executeQuery (PreparedStatement.java:1962)
at com.mchange.v2.c3p0.impl.NewProxyPreparedStatement.executeQuery (NewProxyPreparedStatement.java:353)
at org.hibernate.engine.jdbc.internal.ResultSetReturnImpl.extract (ResultSetReturnImpl.java:70)
at org.hibernate.loader.Loader.getResultSet (Loader.java:2116)
at org.hibernate.loader.Loader.executeQueryStatement (Loader.java:1899)
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at java.lang.Thread.run(Thread.java:748)
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Powered by Jetty://

potentially related to [#7106](#) ?

Related issues:

Related to EDIT - bug #7106: avoid factory.openSession() in CdmRepository	Closed
Related to EDIT - bug #8170: javax.sql.DataSource.getConnection() implementat...	New
Related to EDIT - bug #8171: javax.sql.DataSource.getConnection() implementa...	Closed

Associated revisions

Revision d75c4b91 - 03/06/2019 06:07 PM - Andreas Kohlbecker

ref #8132 c3p0 settings for debugging lost jdbc connections

Revision d2accd99 - 03/08/2019 02:21 PM - Andreas Kohlbecker

ref #8132 fixing problem of uncommitted transaction in RegistrationWorkingsetPresenter

Revision 5479cc9a - 03/08/2019 02:26 PM - Andreas Kohlbecker

ref #8132 fixing problem of uncommitted transaction in RegistrationWorkingsetPresenter

Revision 6f71379a - 03/11/2019 11:50 AM - Andreas Kohlbecker

ref #8132 proper transaction rollback in RegistrationWorkingsetPresenter

Revision 99583d95 - 03/11/2019 12:53 PM - Andreas Kohlbecker

ref #8132 proper transaction rollback in CdmStore

Revision 23025c30 - 03/11/2019 02:01 PM - Andreas Kohlbecker

ref #8132 proper transaction rollback in RegistrationWorkingsetPresenter

Revision 278e8f96 - 03/11/2019 02:16 PM - Andreas Kohlbecker

ref #8132 proper transaction rollback in CdmStore

merging Conflicts in src/main/java/eu/etaxonomy/cdm/service/CdmStore.java

Revision 5261131c - 03/11/2019 06:10 PM - Andreas Kohlbecker

ref #8132 proper transaction rollback in CdmStore - copied from hfx branch

Revision 98db0610 - 03/12/2019 12:52 PM - Andreas Kohlbecker

ref #8132 fixin bug related to transaction rollback in CdmStore

History

#4 - 02/25/2019 01:06 PM - Andreas Kohlbecker

these connectivity problems should be prevented by c3p0 since the idleConnectionTestPeriod is set to 600 (10 minutes)

#5 - 02/25/2019 03:21 PM - Andreas Kohlbecker

I added autoReconnect=true to the connection string of the phycobank datasource.

#6 - 02/25/2019 03:48 PM - Andreas Kohlbecker

Andreas Kohlbecker wrote:

I added autoReconnect=true to the connection string of the phycobank datasource.

using this parameter is highly discouraged:

"**If enabled the driver will throw an exception for a queries issued on a stale or dead connection, which belong to the current transaction, but will attempt reconnect before the next query issued on the connection in a new transaction.** The use of this feature is not recommended, because it has side effects related to session state and data consistency when applications do not handle SQLExceptions properly, and is only designed to be used when you are unable to configure your application to handle SQLExceptions resulting from dead and stale connections properly. Alternatively, investigate setting the MySQL server variable "wait_timeout" to some high value rather than the default of 8 hours." (<https://stackoverflow.com/questions/667289/why-does-autoreconnect-true-not-seem-to-work>)

#7 - 02/27/2019 03:35 PM - Andreas Kohlbecker

- File *cdmserver-docker-c3p0-connectivityproblem.png* added

#9 - 02/27/2019 03:52 PM - Andreas Kohlbecker

I set testConnectionsOnCheckIn=true temporarily via jmx in order to test if this helps avoiding this connectivity problem.

#10 - 03/01/2019 01:58 PM - Andreas Kohlbecker

Andreas Kohlbecker wrote:

I set testConnectionsOnCheckIn=true temporarily via jmx in order to test if this helps avoiding this connectivity problem.

this did not really help, so I added this configuration option now to the system environment:

-Dc3p0.testConnectionOnCheckout=true

Further more I try logging the com.mchange.v2.c3p0.impl.DefaultConnectionTester by adding

log4j.logger.com.mchange.v2.c3p0.impl.DefaultConnectionTester=DEBUG

to the log4j.properties but there is no logging visible from this class.

#11 - 03/01/2019 02:46 PM - Andreas Kohlbecker

this here <https://stackoverflow.com/questions/34408362/c3p0-connection-pool-gives-connection-timeout-error-with-this-configuration#34409748> seems to be related!

#12 - 03/01/2019 04:05 PM - Andreas Kohlbecker

It seems as if this problem is being caused by the CdmFilterablePagingProvider which might open a new Session which is not being closed afterwards. SO the connection stays open until the mysql will time it out.

This hypothesis needs to be confirmed.

Meanwhile I will set the configuration options unreturnedConnectionTimeout=3600 (1h) and debugUnreturnedConnectionStackTraces=true to debug the situation and to prevent errors in the application.

#13 - 03/05/2019 05:11 PM - Andreas Kohlbecker

- Subject changed from phycobank docker container problems with db connections to phycobank cdm-server instance problems with db connections
- Description updated

#14 - 03/05/2019 05:22 PM - Andreas Kohlbecker

Results from the server log:

The problem occurred again. The jdbc connection which was being used by the thread qtp1207140081-33 was causing problems. This thread has been used before by the taxeditor and finally cdm-vaadin when the first stacktrace was logged. Later on the "broken" connection is being used in the context of another thread qtp1207140081-35

before

```
[phycobank] 2019-03-05 11:04:24,453 DEBUG [qtp1207140081-33] [org.springframework.remoting.support.RemoteInvocationTraceInterceptor] - Incoming HttpInvokerServiceExporter remote call: eu.etaxonomy.cdm.api.service.IIdentifiableEntityService.findByTitle
[phycobank] 2019-03-05 11:04:24
...
[phycobank] 2019-03-05 11:04:24,453 DEBUG [qtp1207140081-33] [org.springframework.remoting.support.RemoteInvocationTraceInterceptor] - Incoming HttpInvokerServiceExporter remote call: eu.etaxonomy.cdm.api.service.IIdentifiableEntityService.findByTitle
[phycobank] 2019-03-05 11:04:24
...
[phycobank] 2019-03-05 11:04:24,453 DEBUG [qtp1207140081-33] [org.springframework.remoting.support.RemoteInvocationTraceInterceptor] - Incoming HttpInvokerServiceExporter remote call: eu.etaxonomy.cdm.api.service.IIdentifiableEntityService.findByTitle
[phycobank] 2019-03-05 11:04:24
...
[phycobank] 2019-03-05 11:04:24,453 DEBUG [qtp1207140081-33] [org.springframework.remoting.support.RemoteInvocationTraceInterceptor] - Incoming HttpInvokerServiceExporter remote call: eu.etaxonomy.cdm.api.service.IIdentifiableEntityService.findByTitle
[phycobank] 2019-03-05 11:04:24
```

ERROR

```
[phycobank] 2019-03-05 11:50:07,891 DEBUG [qtp1207140081-33] [com.mchange.v2.c3p0.impl.DefaultConnectionTester] - Testing a Connection in response to an Exception:
com.mysql.jdbc.exceptions.jdbc4.MySQLNonTransientConnectionException: No operations allowed after connection closed.
        at sun.reflect.NativeConstructorAccessorImpl.newInstance0(Native Method)
        at sun.reflect.NativeConstructorAccessorImpl.newInstance(NativeConstructorAccessorImpl.java:62)
        at sun.reflect.DelegatingConstructorAccessorImpl.newInstance(DelegatingConstructorAccessorImpl.java:45)
)
        at java.lang.reflect.Constructor.newInstance(Constructor.java:423)
        at com.mysql.jdbc.Util.handleNewInstance(Util.java:404)
        at com.mysql.jdbc.Util.getInstance(Util.java:387)
        at com.mysql.jdbc.SQLException.createSQLException(SQLException.java:917)
        at com.mysql.jdbc.SQLException.createSQLException(SQLException.java:896)
        at com.mysql.jdbc.SQLException.createSQLException(SQLException.java:885)
        at com.mysql.jdbc.SQLException.createSQLException(SQLException.java:860)
        at com.mysql.jdbc.ConnectionImpl.throwConnectionClosedException(ConnectionImpl.java:1235)
        at com.mysql.jdbc.ConnectionImpl.checkClosed(ConnectionImpl.java:1230)
..
        at org.hibernate.loader.criteria.CriteriaLoader.list(CriteriaLoader.java:109)
        at org.hibernate.internal.SessionImpl.list(SessionImpl.java:1774)
        at org.hibernate.internal.CriteriaImpl.list(CriteriaImpl.java:363)
        at org.hibernate.internal.CriteriaImpl.uniqueResult(CriteriaImpl.java:385)
        at eu.etaxonomy.cdm.persistence.dao.hibernate.common.CdmEntityDaoBase.countByParam(CdmEntityDaoBase.java:1113)
        at eu.etaxonomy.cdm.persistence.dao.hibernate.common.VersionableDaoBase.countByParam(VersionableDaoBase.java:388)
        at eu.etaxonomy.cdm.persistence.dao.hibernate.common.IdentifiableDaoBase.countByTitle(IdentifiableDaoBase.java:334)
        at eu.etaxonomy.cdm.api.service.IdentifiableServiceBase.findByTitle(IdentifiableServiceBase.java:134)
...
        at com.sun.proxy.$Proxy196.findByTitle(Unknown Source)
        at eu.etaxonomy.cdm.service.CdmFilterablePagingProvider.size(CdmFilterablePagingProvider.java:193)
        at org.vaadin.viritin.fields.LazyComboBox$4.size(LazyComboBox.java:142)
        at org.vaadin.viritin.LazyList.size(LazyList.java:229)
        at java.util.AbstractCollection.isEmpty(AbstractCollection.java:86)
        at org.vaadin.viritin.ListContainer.firstItemId(ListContainer.java:185)
        at org.vaadin.viritin.fields.TypedSelect.getType(TypedSelect.java:339)
        at org.vaadin.viritin.fields.LazyComboBox.loadFrom(LazyComboBox.java:264)
        at eu.etaxonomy.vaadin.component.ToOneRelatedEntityCombobox.loadFrom(ToOneRelatedEntityCombobox.java:18)
        at eu.etaxonomy.cdm.vaadin.view.reference.ReferenceEditorPresenter.updateInReferencePageProvider(ReferenceEditorPresenter.java:142)
        at eu.etaxonomy.cdm.vaadin.view.reference.ReferenceEditorPresenter.handleViewEntered(ReferenceEditorPresenter.java:86)
        at eu.etaxonomy.vaadin.mvp.AbstractPresenter.onViewEnter(AbstractPresenter.java:158)
        at eu.etaxonomy.vaadin.mvp.AbstractPopupView.viewEntered(AbstractPopupView.java:95)
        at eu.etaxonomy.vaadin.ui.navigation.NavigationManagerBean.showInPopup(NavigationManagerBean.java:181)
        at eu.etaxonomy.vaadin.mvp.AbstractPresenter.openPopupEditor(AbstractPresenter.java:237)
        at eu.etaxonomy.cdm.vaadin.view.name.TaxonNameEditorPresenter.onReferenceEditorActionAdd(TaxonNameEditorPresenter.java:340)
        at sun.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
```

```

at sun.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl.java:62)
at sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:43)
at java.lang.reflect.Method.invoke(Method.java:498)
at org.vaadin.spring.events.internal.MethodListenerWrapper.publish(MethodListenerWrapper.java:78)
at org.vaadin.spring.events.internal.ListenerCollection.publish(ListenerCollection.java:167)
at org.vaadin.spring.events.internal.ScopedEventBus.publish(ScopedEventBus.java:116)
at org.vaadin.spring.events.internal.ScopedEventBus.publish(ScopedEventBus.java:109)
at eu.etaxonomy.cdm.vaadin.view.name.TaxonNamePopupEditor.lambda$initContent$61446b05$1(TaxonNamePopup
Editor.java:328)
at sun.reflect.GeneratedMethodAccessor624.invoke(Unknown Source)
at sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:43)
at java.lang.reflect.Method.invoke(Method.java:498)
at com.vaadin.event.ListenerMethod.receiveEvent(ListenerMethod.java:510)
at com.vaadin.event.EventRouter.fireEvent(EventRouter.java:200)
at com.vaadin.event.EventRouter.fireEvent(EventRouter.java:163)
at com.vaadin.server.AbstractClientConnector.fireEvent(AbstractClientConnector.java:1015)
at com.vaadin.ui.Button.fireClick(Button.java:377)
at com.vaadin.ui.Button$1.click(Button.java:54)
at sun.reflect.GeneratedMethodAccessor627.invoke(Unknown Source)
at sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:43)
at java.lang.reflect.Method.invoke(Method.java:498)
at com.vaadin.server.ServerRpcManager.applyInvocation(ServerRpcManager.java:158)
...
at org.eclipse.jetty.server.Server.handle(Server.java:497)
at org.eclipse.jetty.server.HttpChannel.handle(HttpChannel.java:310)
at org.eclipse.jetty.server.HttpConnection.onFillable(HttpConnection.java:257)
at org.eclipse.jetty.io.AbstractConnection$2.run(AbstractConnection.java:540)
at org.eclipse.jetty.util.thread.QueuedThreadPool.runJob(QueuedThreadPool.java:635)
at org.eclipse.jetty.util.thread.QueuedThreadPool$3.run(QueuedThreadPool.java:555)
at java.lang.Thread.run(Thread.java:748)
[phycobank] 2019-03-05 11:50:07,900 WARN [qtp1207140081-33] [org.hibernate.engine.jdbc.spi.SqlExceptionHelper]
- SQL Error: 0, SQLState: 08003
[phycobank] 2019-03-05 11:50:07,905 ERROR [qtp1207140081-33] [org.hibernate.engine.jdbc.spi.SqlExceptionHelper]
] - No operations allowed after connection closed.
[phycobank] 2019-03-05 11:50:07,911 DEBUG [qtp1207140081-33] [com.mchange.v2.c3p0.impl.DefaultConnectionTester
] - Testing a Connection in response to an Exception:
com.mysql.jdbc.exceptions.jdbc4.MySQLNonTransientConnectionException: No operations allowed after connection c
losed.
        at sun.reflect.NativeConstructorAccessorImpl.newInstance0(Native Method)
        at sun.reflect.NativeConstructorAccessorImpl.newInstance(NativeConstructorAccessorImpl.java:62)
        at sun.reflect.DelegatingConstructorAccessorImpl.newInstance(DelegatingConstructorAccessorImpl.java:45
)
        at java.lang.reflect.Constructor.newInstance(Constructor.java:423)
        at com.mysql.jdbc.Util.handleNewInstance(Util.java:404)
        at com.mysql.jdbc.Util.getInstance(Util.java:387)
        at com.mysql.jdbc.SQLException.createSQLException(SQLException.java:917)
        at com.mysql.jdbc.SQLException.createSQLException(SQLException.java:896)
        at com.mysql.jdbc.SQLException.createSQLException(SQLException.java:885)
        at com.mysql.jdbc.SQLException.createSQLException(SQLException.java:860)
        at com.mysql.jdbc.ConnectionImpl.throwConnectionClosedException(ConnectionImpl.java:1235)
        at com.mysql.jdbc.ConnectionImpl.checkClosed(ConnectionImpl.java:1230)
        at com.mysql.jdbc.ConnectionImpl.prepareStatement(ConnectionImpl.java:4132)
        at com.mysql.jdbc.ConnectionImpl.prepareStatement(ConnectionImpl.java:4101)
        at com.mchange.v2.c3p0.impl.NewProxyConnection.prepareStatement(NewProxyConnection.java:567)
        at org.hibernate.engine.jdbc.internal.StatementPreparerImpl$5.doPrepare(StatementPreparerImpl.java:146
)
        at org.hibernate.engine.jdbc.internal.StatementPreparerImpl$StatementPreparationTemplate.prepareStatement(StatementPreparerImpl.java:172)
        at org.hibernate.engine.jdbc.internal.StatementPreparerImpl.prepareQueryStatement(StatementPreparerImpl.java:148)
        at org.hibernate.loader.Loader.prepareQueryStatement(Loader.java:1928)
        at org.hibernate.loader.Loader.executeQueryStatement(Loader.java:1897)
        at org.hibernate.loader.Loader.executeQueryStatement(Loader.java:1875)
        at org.hibernate.loader.Loader.doQuery(Loader.java:919)
        at org.hibernate.loader.Loader.doQueryAndInitializeNonLazyCollections(Loader.java:336)
        at org.hibernate.loader.Loader.doList(Loader.java:2611)
        at org.hibernate.loader.Loader.doList(Loader.java:2594)
        at org.hibernate.loader.Loader.listIgnoreQueryCache(Loader.java:2423)
        at org.hibernate.loader.Loader.list(Loader.java:2418)
        at org.hibernate.loader.criteria.CriteriaLoader.list(CriteriaLoader.java:109)
        at org.hibernate.internal.SessionImpl.list(SessionImpl.java:1774)
        at org.hibernate.internal.CriteriaImpl.list(CriteriaImpl.java:363)
        at org.hibernate.internal.CriteriaImpl.uniqueResult(CriteriaImpl.java:385)
        at eu.etaxonomy.cdm.persistence.dao.hibernate.common.CdmEntityDaoBase.countByParam(CdmEntityDaoBase.ja
va:1113)

```

```

        at eu.etaxonomy.cdm.persistence.dao.hibernate.common.VersionableDaoBase.countByParam(VersionableDaoBas
e.java:388)
        at eu.etaxonomy.cdm.persistence.dao.hibernate.common.IdentifiableDaoBase.countByTitle(IdentifiableDaoB
ase.java:334)
        at eu.etaxonomy.cdm.api.service.IdentifiableServiceBase.findByTitle(IdentifiableServiceBase.java:134)
...
        at org.eclipse.jetty.util.thread.QueuedThreadPool.runJob(QueuedThreadPool.java:635)
        at org.eclipse.jetty.util.thread.QueuedThreadPool$3.run(QueuedThreadPool.java:555)
        at java.lang.Thread.run(Thread.java:748)
[phycobank] 2019-03-05 11:50:07,913 WARN [qtp1207140081-33] [com.mchange.v2.c3p0.impl.NewPooledConnection] - [c3p0] A PooledConnection that has already signalled a Connection error is still in use!
[phycobank] 2019-03-05 11:50:07,913 WARN [qtp1207140081-33] [com.mchange.v2.c3p0.impl.NewPooledConnection] - [c3p0] Another error has occurred [ com.mysql.jdbc.exceptions.jdbc4.MySQLNonTransientConnectionException: No op
erations allowed after connection closed. ] which will not be reported to listeners!
com.mysql.jdbc.exceptions.jdbc4.MySQLNonTransientConnectionException: No operations allowed after connection c
losed.
        at sun.reflect.NativeConstructorAccessorImpl.newInstance0(Native Method)

```

the connection which is closed reports: **SQL Error: 0, SQLState: 08003**

#16 - 03/06/2019 05:46 PM - Andreas Kohlbecker

- *Description updated*

#17 - 03/06/2019 05:46 PM - Andreas Kohlbecker

- *Related to bug #7106: avoid factory.openSession() in CdmRepository added*

#18 - 03/07/2019 12:37 PM - Andreas Kohlbecker

The problem just occurred again. This time no one was using the Taxeditor since the instance has been started.

The c3p0 jmx bean reports

```
numUnclosedOrphanedConnections=1
```

There is a good chance that these problems are caused by unintentionally opening new unmanaged sessions, see [#7106](#)

#19 - 03/08/2019 02:02 PM - Andreas Kohlbecker

debugging the cdm-server to find connections that have been opened but which are not being closed properly (DebugC3P0Connections) revealed that the problem is caused in situations when eu.etaxonomy.cdm.api.application.CdmRepository.startTransaction(CdmRepository.java:460) is being used in turn of RegistrationWorkingsetPresenter.onEntityChangeEvent(RegistrationWorkingsetPresenter.java:760)

```

[phycobank] 12:05:05,721 INFO [C3P0PooledConnectionPoolManager[identityToken->z8kfsxa1psn7sp6a4p59|f2f2cc1]-Ad
minTaskTimer][co.mc.v2.re.BasicResourcePool] - Logging the stack trace by which the overdue resource was check
ed-out.
java.lang.Exception: DEBUG STACK TRACE: Overdue resource check-out stack trace.
        at com.mchange.v2.resourcepool.BasicResourcePool.checkoutResource(BasicResourcePool.java:588)
        at com.mchange.v2.c3p0.impl.C3P0PooledConnectionPool.checkoutAndMarkConnectionInUse(C3P0PooledConnecti
onPool.java:758)
        at com.mchange.v2.c3p0.impl.C3P0PooledConnectionPool.checkoutPooledConnection(C3P0PooledConnectionPool
.java:685)
        at com.mchange.v2.c3p0.impl.AbstractPoolBackedDataSource.getConnection(AbstractPoolBackedDataSource.ja
va:140)
        at org.hibernate.engine.jdbc.connections.internal.DatasourceConnectionProviderImpl.getConnection(Datas
ourceConnectionProviderImpl.java:122)
        at org.hibernate.internal.AbstractSessionImpl$NonContextualJdbcConnectionAccess.obtainConnection(Abstr
actSessionImpl.java:386)
        at org.hibernate.resource.jdbc.internal.LogicalConnectionManagedImpl.acquireConnectionIfNeeded(Logical
ConnectionManagedImpl.java:87)
        at org.hibernate.resource.jdbc.internal.LogicalConnectionManagedImpl.getPhysicalConnection(LogicalConn
ectionManagedImpl.java:112)
        at org.hibernate.resource.jdbc.internal.LogicalConnectionManagedImpl.getConnectionForTransactionManage
ment(LogicalConnectionManagedImpl.java:230)
        at org.hibernate.resource.jdbc.internal.LogicalConnectionManagedImpl.begin(LogicalConnectionManagedImp
l.java:237)
        at org.hibernate.resource.transaction.backend.jdbc.internal.JdbcResourceLocalTransactionCoordinatorImp
$TransactionDriverControlImpl.begin(JdbcResourceLocalTransactionCoordinatorImpl.java:214)
        at org.hibernate.engine.transaction.internal.TransactionImpl.begin(TransactionImpl.java:52)
        at org.hibernate.internal.SessionImpl.beginTransaction(SessionImpl.java:1512)
        at org.springframework.orm.hibernate5.HibernateTransactionManager.doBegin(HibernateTransactionManager.
java:499)
        at org.springframework.transaction.support.AbstractPlatformTransactionManager.getTransaction(AbstractP

```

```
latformTransactionManager.java:373)
    at eu.etaxonomy.cdm.api.application.CdmRepository.startTransaction(CdmRepository.java:460)
    at eu.etaxonomy.cdm.api.application.CdmRepository.startTransaction(CdmRepository.java:436)
    at eu.etaxonomy.cdm.vaadin.view.registration.RegistrationWorkingsetPresenter.onEntityChangeEvent(RegistrationWorkingsetPresenter.java:760)
```

#20 - 03/08/2019 05:17 PM - Andreas Kohlbecker

Another situation in which a connection is being opened but not properly closed is occurring in the `DataSourceConfigurer.dataSource()` method:

```
14:40:29,148 INFO [C3P0PooledConnectionPoolManager[identityToken->z8kfsxa1py9c3g1uw8b66|6b756a62]-AdminTaskTimer][co.mc.v2.re.BasicResourcePool] - Logging the stack trace by which the overdue resource was checked-out.
java.lang.Exception: DEBUG STACK TRACE: Overdue resource check-out stack trace.
    at com.mchange.v2.resourcepool.BasicResourcePool.checkoutResource(BasicResourcePool.java:588)
    at com.mchange.v2.c3p0.impl.C3P0PooledConnectionPool.checkoutAndMarkConnectionInUse(C3P0PooledConnectionPool.java:758)
    at com.mchange.v2.c3p0.impl.C3P0PooledConnectionPool.checkoutPooledConnection(C3P0PooledConnectionPool.java:685)
    at com.mchange.v2.c3p0.impl.AbstractPoolBackedDataSource.getConnection(AbstractPoolBackedDataSource.java:140)
    at eu.etaxonomy.cdm.database.WrappedCdmDataSource.getConnection(WrappedCdmDataSource.java:66)
    at eu.etaxonomy.cdm.database.WrappedCdmDataSource.executeQuery(WrappedCdmDataSource.java:360)
    at eu.etaxonomy.cdm.database.WrappedCdmDataSource.getSingleValue(WrappedCdmDataSource.java:393)
    at eu.etaxonomy.cdm.database.update.SchemaUpdaterBase.getCurrentVersion(SchemaUpdaterBase.java:82)
    at eu.etaxonomy.cdm.database.update.UpdaterBase.isToBeInvoked(UpdaterBase.java:72)
    at eu.etaxonomy.cdm.database.update.UpdaterBase.countSteps(UpdaterBase.java:55)
    at eu.etaxonomy.cdm.database.update.CdmUpdater.updateToCurrentVersion(CdmUpdater.java:94)
    at eu.etaxonomy.cdm.opt.config.DataSourceConfigurer.dataSource(DataSourceConfigurer.java:251)
```

The actual problem, however, comes from the `eu.etaxonomy.cdm.database.WrappedCdmDataSource` which implements `javax.sql.DataSource.getConnection()` in a false and dangerous way: [#8170](#), [#8171](#)

#21 - 03/08/2019 05:18 PM - Andreas Kohlbecker

- Related to bug #8170: `javax.sql.DataSource.getConnection()` implementation in `WrappedCdmDataSource` does not conform to the interface added

#22 - 03/08/2019 05:18 PM - Andreas Kohlbecker

- Related to bug #8171: `javax.sql.DataSource.getConnection()` implementation in `WrappedCdmDataSource` fails to cache the connection which and leaves it unclosed added

#23 - 04/11/2019 05:38 PM - Andreas Kohlbecker

- Target version changed from Release 5.6 to Release 5.7

#24 - 05/03/2019 02:59 PM - Andreas Müller

- Target version changed from Release 5.7 to Release 5.8

#25 - 07/19/2019 03:07 PM - Andreas Kohlbecker

- Target version changed from Release 5.8 to Release 5.10

#26 - 09/20/2019 05:37 PM - Andreas Kohlbecker

- Target version changed from Release 5.10 to Release 5.11

#27 - 11/04/2019 04:36 PM - Andreas Kohlbecker

- Target version changed from Release 5.11 to Release 5.12

#28 - 01/16/2020 11:51 AM - Andreas Kohlbecker

- Target version changed from Release 5.12 to Release 5.13

#29 - 03/10/2020 09:28 AM - Andreas Kohlbecker

- Target version changed from Release 5.13 to Release 5.14

#30 - 04/08/2020 04:13 PM - Andreas Müller

- Target version changed from Release 5.14 to Release 5.15

#31 - 06/23/2020 01:58 PM - Andreas Müller

- Target version changed from Release 5.15 to Release 5.18

#32 - 12/01/2020 03:08 PM - Andreas Kohlbecker

- Target version changed from Release 5.18 to Release 5.19

#33 - 01/27/2021 03:13 PM - Andreas Kohlbecker

- Target version changed from Release 5.19 to Release 5.21

#34 - 03/10/2021 02:53 PM - Andreas Müller

- Target version changed from Release 5.21 to Release 5.22

#35 - 04/19/2021 04:35 PM - Andreas Kohlbecker

- Target version changed from Release 5.22 to Release 5.46

#36 - 02/22/2022 01:27 PM - Andreas Müller

- Status changed from New to In Progress

This ticket seems at least to be in progress. Is it still open at all?

#37 - 12/01/2022 06:53 PM - Andreas Müller

- Status changed from In Progress to Resolved

- Assignee changed from Andreas Kohlbecker to Wolf-Henning Kusber

- Target version changed from Release 5.46 to Release 5.35

To me it seems that this problem did not occur anymore in the last years and we can close the ticket as worksforme.

Henning, can you please verify?

#38 - 12/02/2022 02:47 PM - Andreas Müller

- Status changed from Resolved to Worksforme

- Target version deleted (Release 5.35)

Files

cdmserver-docker-c3p0-connectivityproblem.png

80 KB

02/27/2019

Andreas Kohlbecker