Metacat - Bug #5519

Replicated data files are 0 bytes

10/26/2011 06:31 PM - ben leinfelder

Status: Resolved Start date: 10/26/2011

Priority: Normal Due date:

Assignee: ben leinfelder % Done: 0%

Category:metacatEstimated time:0.00 hourTarget version:2.0.0Spent time:0.00 hour

Bugzilla-ld: 5519

Description

We set up 2-way replication between PPBio and PELD (Brazilian Metacat instances) and have since seen that the replicated data files have no content on the target server.

Hi Ben,

today I noticed something in some data in the replication between PELD and PPBio2.

When I open a datafile that was originally inserted in Metacat through PELD, it is ok, but when I open the same datafile in PPBio2, the file is empty.

The same thing happens the other way around.

Ex: This package was inserted originally in PELD:

http://peld.inpa.gov.br/knb/metacat?action=read&gformat=peld&sessionid=0&docid=menger.17.3

But in PPBio2 the data file is empty:

http://ppbio2.inpa.gov.br/knb/metacat?action=read&qformat=ppbio&sessionid=0&docid=menger.17.3

File inserted originally on PPBio2:

http://ppbio2.inpa.gov.br/knb/metacat?action=read&qformat=ppbio&sessionid=0&docid=menger.358.3

Empty file: http://peld.inpa.gov.br/knb/metacat?action=read&qformat=peld&sessionid=0&docid=menger.358.3

Related issues:

Blocked by Metacat - Bug #5536: Restore replicated data files that are 0 bytes Resolved 11/09/2011

History

#1 - 10/31/2011 12:34 PM - ben leinfelder

I set up one-way replication from bespin.nceas.ucsb.edu --> fred.msi.ucsb.edu.

Using the Tomcat-only certificate generation/exchange approach, the data file was successfully replicated (with its content) to fred from bespin.

#2 - 10/31/2011 01:25 PM - ben leinfelder

Switching bespin.nceas.ucsb.edu to use Apache for the SSL handling still left the data replication working as expected (the data is in the replicated file).

#3 - 10/31/2011 02:06 PM - ben leinfelder

Now with BOTH servers using Apache certificate/SSL mechanisms the replication is still successful.

bespin.nceas.ucsb.edu is running a 1.10.0 variant with the semtools plugin and fred is running a pretty up-to-date version of the same (we recently changed trunk to use 2.0.0 versioning).

So this looks like a problem that exists in the 1.9.5 tag/branch and not currently in trunk -- will try to track down where it might have been resolved.

#4 - 10/31/2011 02:18 PM - ben leinfelder

There's no difference between 1.9.5 tag and trunk for the ReplicationService.handleGetDataFileRequest() method -- maybe there's a configuration difference that is causing this for peld->knb?

#5 - 10/31/2011 05:13 PM - ben leinfelder

After installing Metacat 1.9.5 on fred.msi.ucsb.edu I was able to see the failure point. It was something that I fixed in trunk a long time ago (probably during my character encoding enhancements) but never made it into our release branches. I'm not sure how old an issue this is for us, but I can't imagine it ever worked coded the way it is in 1.9.5 (which is an evolution of 1.9.3 when it first branched from trunk).

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When ReplicationServlet handles any request it first gets a PrintWriter from the response object. But when we try to send data to the response by getting it's OutputStream, we throw an IllegalStateException -- only one of those can be called on the same response object.

stack trace:

knb 20111101-00:02:26: [DEBUG]: ReplicationServlet.handleGetOrPost - Action "readdata" accepted for server:

bespin.nceas.ucsb.edu/knb/servlet/replication [ReplicationLogging]

knb 20111101-00:02:26: [ERROR]: Servlet.service() for servlet replication threw exception

[org.apache.catalina.core.ContainerBase.[Catalina].[localhost].[/knb].[replication]]

java.lang.lllegalStateException: getWriter() has already been called for this response

at org.apache.catalina.connector.Response.getOutputStream(Response.java:570)

at org.apache.catalina.connector.ResponseFacade.getOutputStream(ResponseFacade.java:181)

at edu.ucsb.nceas.metacat.replication.ReplicationServlet.handleGetOrPost(ReplicationServlet.java:160)

at edu.ucsb.nceas.metacat.replication.ReplicationServlet.doGet(ReplicationServlet.java:77)

at javax.servlet.http.HttpServlet.service(HttpServlet.java:690)

at javax.servlet.http.HttpServlet.service(HttpServlet.java:803)

at org.apache.catalina.core.ApplicationFilterChain.internalDoFilter(ApplicationFilterChain.java:269)

at org.apache.catalina.core.ApplicationFilterChain.doFilter(ApplicationFilterChain.java:188)

at org.vfny.geoserver.filters.SetCharacterEncodingFilter.doFilter(SetCharacterEncodingFilter.java:122)

at org.apache.catalina.core.ApplicationFilterChain.internalDoFilter(ApplicationFilterChain.java:215)

at org.apache.catalina.core.ApplicationFilterChain.doFilter(ApplicationFilterChain.java:188)

 $at\ org. apache. catalina. core. Standard Wrapper Valve. invoke (Standard Wrapper Valve. java: 210) at\ org. apache. catalina. core. Standard Wrapper Valve. invoke (Standard Wrapper Valve. java: 210) at\ org. apache. catalina. core. Standard Wrapper Valve. invoke (Standard Wrapper Valve. java: 210) at\ org. apache. catalina. core. Standard Wrapper Valve. invoke (Standard Wrapper Valve. java: 210) at\ org. apache. catalina. core. Standard Wrapper Valve. invoke (Standard Wrapper Valve. java: 210) at\ org. apache. catalina. core. Standard Wrapper Valve. invoke (Standard Wrapper Valve. java: 210) at\ org. apache. catalina. core. Standard Wrapper Valve. invoke (Standard Wrapper Valve. java: 210) at\ org. apache. catalina. core. Standard Wrapper Valve. invoke (Standard Wrapper Valve. java: 210) at\ org. apache. catalina. core. Standard Wrapper Valve. invoke (Standard Wrapper Valve. java: 210) at\ org. apache. catalina. core. catalina. core. catalina. core. catalina. catalina.$

at org.apache.catalina.core.StandardContextValve.invoke(StandardContextValve.java:174)

at org.apache.catalina.authenticator.AuthenticatorBase.invoke(AuthenticatorBase.java:433)

at org.apache.catalina.core.StandardHostValve.invoke(StandardHostValve.java:127)

at org.apache.catalina.valves.ErrorReportValve.invoke(ErrorReportValve.java:117)

at org.apache.catalina.core.StandardEngineValve.invoke(StandardEngineValve.java:108)

at org.apache.catalina.connector.CoyoteAdapter.service(CoyoteAdapter.java:151)

at org.apache.jk.server.JkCoyoteHandler.invoke(JkCoyoteHandler.java:200)

at org.apache.jk.common.HandlerRequest.invoke(HandlerRequest.java:283)

at org.apache.jk.common.ChannelSocket.jnvoke(ChannelSocket.java:773)

at org.apache.jk.common.ChannelSocket.processConnection(ChannelSocket.java:703)

at org.apache.jk.common.ChannelSocket\$SocketConnection.runlt(ChannelSocket.java:895)

at org.apache.tomcat.util.threads.ThreadPool\$ControlRunnable.run(ThreadPool.java:685)

at java.lang.Thread.run(Thread.java:662)

#6 - 11/09/2011 12:22 PM - ben leinfelder

This is fixed. We just need to figure out the files that have not replicated successfully. Any 0-length files on KNB and LTER are suspect. Then we will need to track down where they came from in order to get the content.

#7 - 03/27/2013 02:30 PM - Redmine Admin

Original Bugzilla ID was 5519

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