

## Metacat - Bug #4307

### Upgrade Geoserver to prevent Metacat crashes

08/12/2009 06:49 PM - Shaun Walbridge

|   |                |                        |            |
|---|----------------|------------------------|------------|
| <b>Status:</b>  | Resolved       | <b>Start date:</b>     | 08/12/2009 |
| <b>Priority:</b>  | Normal         | <b>Due date:</b>       |            |
| <b>Assignee:</b>  | ben leinfelder | <b>% Done:</b>         | 0%         |
| <b>Category:</b>  | metacat        | <b>Estimated time:</b> | 0.00 hour  |
| <b>Target version:</b>  | 2.x.y          | <b>Spent time:</b>     | 0.00 hour  |
| <b>Bugzilla-Id:</b>   | 4307           |                        |            |
| <b>Description</b>  |                |                        |            |
| <p>The shapefile building routine isn't releasing file handles it uses when building new shapefiles. This is causing processes which rely on multiple simultaneous files (e.g. Kepler workflows) to fail, and causes intermittent failures within Metacat (e.g. the Google results at [1]). Currently, there are 918 open filehandles on KNB, with 891 of them caused by the unclosed shapfiles.</p> <p>It looks like this issue was resolved in a newer release of Geotools, which Geoserver relies on for generating shapefiles. Assuming this is our problem (as seen in [2] and [3]), then just upgrading to a newer release of Geoserver should solve the issue. It's possible we could even just upgrade the Jars used to Geotools 2.3 or later, but doing a proper upgrade makes sense since many performance improvements with both geotools and geoserver have been made in the past three years.</p> <ol style="list-style-type: none"><li>1. <a href="http://www.google.com/search?q=metacat+%22too+many+open+files%22">http://www.google.com/search?q=metacat+%22too+many+open+files%22</a></li><li>2. <a href="http://jira.codehaus.org/browse/GEOT-1014">http://jira.codehaus.org/browse/GEOT-1014</a></li><li>3. <a href="http://thread.gmane.org/gmane.comp.gis.geoserver.user/8145">http://thread.gmane.org/gmane.comp.gis.geoserver.user/8145</a></li></ol> |                |                        |            |

#### History

##### #2 - 01/28/2011 12:16 PM - ben leinfelder

We are now using Geotools 2.6.4 (from Geoserver 2.0.2) to read/write the shape files.  
Geoserver is deployed in a different context from Metacat but uses the same shapefiles that Metacat edits.  
The Geoserver configuration requests three pieces of information:  
-the data directory to use (defaults to the pre-configured one we are shipping in Metacat webapp)  
-the geoserver webapp context (default to "geoserver" since the war is "geoserver.war")  
-the admin password (default is "geoserver").

##### #3 - 01/28/2011 05:34 PM - ben leinfelder

keeping this opened until additional tasks are completed:  
-package geoserver.war (v2.0.2) along with Metacat's knb.war as an EAR:  
[http://en.wikipedia.org/wiki/EAR\\_\(file\\_format\)](http://en.wikipedia.org/wiki/EAR_(file_format))  
-force geoserver configuration (by removing the bypass option). This ensures we are saving the default settings in metacat.properties - and the default settings are the ones we want 99.9% of the time (excluding password)

##### #4 - 01/28/2011 05:53 PM - ben leinfelder

I seem to have introduced invalid shapefiles - perhaps when committing them to SVN. Will have to check alternate checkout.

##### #5 - 02/09/2011 11:41 AM - ben leinfelder

Shape files were corrupted by the ant build (filtered copy treated them as text).  
Configuration allows for bypass and uses sensible default values.  
Documentation has been updated to reflect new deployment strategy.  
GeoServer is included in the distribution - not EAR since that requires an "Enterprise" webapp server.

##### #6 - 03/27/2013 02:26 PM - Redmine Admin

Original Bugzilla ID was 4307

#### Files

|                             |        |            |                 |
|-----------------------------|--------|------------|-----------------|
| tomcat-open-filehandles.txt | 137 KB | 08/13/2009 | Shaun Walbridge |
|-----------------------------|--------|------------|-----------------|