

Metacat - Bug #2748

MetaCatServlet.handleUploadAction() can cause data file deletion in the data store

01/25/2007 11:42 AM - Chris Jones

Status:	Resolved	Start date:	01/25/2007
Priority:	Immediate	Due date:	
Assignee:	Chris Jones	% Done:	0%
Category:	metacat	Estimated time:	0.00 hour
Target version:	1.7	Spent time:	0.00 hour
Bugzilla-Id:	2748		

Description

During the upload of data documents to Metacat 1.6.x, data documents that have been previously uploaded can be deleted from Metacat's file storage area when the same file is uploaded on a second attempt. In MetaCatServlet.handleUploadAction(), DocumentImpl.registerDocument() is called after the data file has been created in the filesystem. If for some reason registerDocument() throws an exception (for instance if the docid and revision is already taken), then the data file is deleted, regardless of whether or not it happened in a previous transaction.

This can be critical since an entire Metacat data store could be deleted by calling action=upload on the existing data docids residing in the catalog. The existence of the data files remains registered in the catalog tables, but the file will be physically gone from the data store.

History

#1 - 01/25/2007 05:21 PM - Jing Tao

The reason we added this delete function was: we wanted to intergarte registering data file into db and saving data file into file system as atomic process - if this data file couldn't be registered into xml_document table, we wouldn't keep it in the data file system. Otherwise, this data file couldn't be accessible (data file is in file system, but no record in xml_documents table). But we didn't think about the side-effect. So we should remove this function.

#2 - 01/29/2007 07:16 PM - Chris Jones

As a fix to http://bugzilla.ecoinformatics.org/show_bug.cgi?id=2748, I'm applying the patch sent to me from Mike Frenock when he reported this bug.

This patch changes MetaCatServlet.handleUploadAction() by first setting a boolean flag on whether the file to be uploaded exists already. If it doesn't exist, the transaction continues, uploading and registering the data file. In the event of an Exception during the registration, the file will be deleted, since the file's existence is not recorded in the database.

#3 - 03/27/2013 02:21 PM - Redmine Admin

Original Bugzilla ID was 2748