

## Metacat - Bug #185

### replication security hole

04/09/2001 12:10 PM - Matt Jones

<b>Status:</b>	Resolved	<b>Start date:</b>	04/09/2001
<b>Priority:</b>	Immediate	<b>Due date:</b>	
<b>Assignee:</b>	Jivka Bojilova	<b>% Done:</b>	0%
<b>Category:</b>	metacat	<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>	Release1.0	<b>Spent time:</b>	0.00 hour
<b>Bugzilla-Id:</b>	185		
<b>Description</b>			
Need to fix security hole in Metacat replication feature where host name can be spoofed, allowing complete access to the server's data.			
<b>Related issues:</b>			
Blocks Metacat - Bug #235: ssl support for metacat ( <a href="https">https</a> )		<b>Resolved</b>	<b>06/05/2001</b>

### History

#### #1 - 06/05/2001 04:12 PM - Matt Jones

This bug arises because the client metacat provides the hostname in the parameter data during replication, and the server metacat "trusts" (unwisely) that the client is telling the truth. Chad has a potential solution outlined which basically involves setting this up over an SSL connection, so that each metacat server is identified by a cryptographic host key. This of course requires SSL operation, which Jivka has at least partially implemented. See bug 235 for details of the ssl implementation.

#### #2 - 06/13/2001 01:38 AM - Matt Jones

Owen -- don't know if you noticed -- I reassigned this important security bug to you. Think you'll be able to take a look at it? If so, please accept it, otherwise I'll have to reassign it again.

#### #3 - 07/19/2001 02:58 AM - Matt Jones

Reassigned to bojilova.

#### #4 - 09/24/2001 12:57 PM - Jivka Bojilova

Added support for running replication over HTTPS.  
Removed the check of IP address using the DNS because it doesn't provide enough security because of possible IP spoofing.

In order to configure 2 Metacat servers to replicate over HTTPS (no matter of one-way or two-way replication):

1. Included interface in replControl.html to exchange certificate files by adding additional input box that should specify the source location of cert file. This should be done on "Add This Server" action.
2. Preliminary both Metacat servers should export their certificates in a file on their own file systems and both should download each other's certificate files using relpControl.html page. Then both should import the downloaded files on their side as trusted certificates.

#### #5 - 10/09/2001 03:45 PM - Jivka Bojilova

DONE

The problem is described in Metacat Installation Instructions in [knb.ecoinformatics.org](http://knb.ecoinformatics.org) web site

#### #6 - 10/09/2001 03:57 PM - Jivka Bojilova

SOLVED

#### #7 - 03/27/2013 02:13 PM - Redmine Admin

Original Bugzilla ID was 185