

## Metacat - Bug #2157

### Metacat Performance: Optimize Postgres and Tomcat...

07/13/2005 06:24 PM - Saurabh Garg

<b>Status:</b>	Resolved	<b>Start date:</b>	07/13/2005
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	Jing Tao	<b>% Done:</b>	0%
<b>Category:</b>	metacat	<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>	1.8	<b>Spent time:</b>	0.00 hour
<b>Bugzilla-Id:</b>	2157		
<b>Description</b>			
<p>There might be some options in Tomcat to speed things up a little bit. e.g. Chris suggested about turning off autoloading of war files.</p> <p>In Postgres.. From Matt's email... It would be best to fit the whole postgres image into memory so it need not be swapped to disk for queries. Postgres needs to be configured to use the memory even if its on the machine. Chris saw significant performance gains by upping the memory for Postgres to 768MB. We have a much larger DB, so we probably want to go higher. Ecoinfo2 has 2GB of RAM, which we should probably increase to 4GB. New machines should have that much at least, but we run into the 32bit limit so might need to consider moving to a 64bit os. Sid should look at the memory size needed for the postgres image on ecoinfo2 to get an idea of how much we need.</p>			
<b>Related issues:</b>			
Blocked by Metacat - Bug #1879: Metacat Performance: Summary		<b>New</b>	<b>01/18/2005</b>

#### History

##### #1 - 01/19/2006 11:34 AM - Saurabh Garg

John made these changes on the new knb.msi machine.

But I am retargeting this to 1.7 instead of closing the bug, so that we can review it again before the next release. Chris told me about how Postgres loses a lot of time because of swapping between memory and disk. This can be fixed by increasing RAM. Also I think heard that Postgres uses full table search even when when index is specified based on the shared memory limit specified. Hence there might be room for improvement here.

##### #2 - 09/27/2006 06:50 AM - Saurabh Garg

The current RAM specified for Tomcat and Postgres in KNB:  
Tomcat: 500 MB  
Postgres: 760 MB

##### #3 - 11/02/2007 10:06 AM - Jing Tao

Here are current configuration in knb (total 8 G memory)  
1) Set SHMMAX to 4,000,000,000  
2) Assign Postgresql shared\_buffer=400,000 (total is 400,000x8k=3.2G)  
3) Assign 2048M to tomcat

##### #4 - 11/09/2007 04:06 PM - Jing Tao

Move to release 1.7.1

##### #5 - 03/27/2013 02:19 PM - Redmine Admin

Original Bugzilla ID was 2157