

Metacat - Bug #5644

"Too man open files" error when running 3 Metacat/Geoserver webapps together

08/06/2012 07:35 AM - ben leinfelder

Status:	Resolved	Start date:	08/06/2012
Priority:	Normal	Due date:	
Assignee:	ben leinfelder	% Done:	0%
Category:	metacat	Estimated time:	0.00 hour
Target version:	2.x.y	Spent time:	0.00 hour
Bugzilla-Id:	5644		
Description			
<p>Derik and I tried to deploy PAR, ESA and EVOS Metacat instances (and corresponding Geoserver webapps) under the same Tomcat instance. After configuring the third (EVOS) webapp, we saw the "Too many open files" message and geoserver-evos failed to start.</p> <p>We should run tests to isolate the condidtions under which this occurs -- first by ruling out Metacat as the origination of the error then by adding geoserver webapps into the mix one by one.</p>			

History

#1 - 08/06/2012 05:52 PM - Derik Barseghian

I think the 'open file' limit is set too low. Nick, could you increase this, maybe to 'unlimited', or some large number as you see fit. I believe we then must reboot -- Ben, Matt asked I check w/ you if it's ok to reboot, i.e. if there's anything else of importance besides parc and esa on this machine.

```
barseghian@mn-ucsb-2:~$ ulimit -aS | grep open
open files          (-n) 1024
barseghian@mn-ucsb-2:~$ ulimit -aH | grep open
open files          (-n) 1024
```

Kernel limits seem ok from what I can tell, although aio-max-nr is set lower than what oracle recommends (1048576):
fs.aio-max-nr = 65536

#2 - 08/07/2012 11:11 AM - ben leinfelder

Reboot away! (Only parc and esa will be affected)

#3 - 08/07/2012 11:23 AM - Nick Brand

I made the change in /etc/security/limits.conf, from 1024 to 65k.

#4 - 08/07/2012 11:32 AM - Nick Brand

Also uncommented "session required pam_limits.so" in /etc/pam.d/su

#5 - 08/07/2012 12:40 PM - Derik Barseghian

Adding to /etc/init.d/tomcat6:

```
ulimit -Hn 65536
```

```
ulimit -Sn 65536
```

seems to have done the trick, no more 'too many open files' errors, and <http://evos.nceas.ucsb.edu/evos/style/skins/default/> is online.

I restarted tomcat to be certain parc, esa, and evos all come up normally, and i think they do (afaict -- there are a lot of errors but I believe they're all 'expected/known').

Will leave open a little while more before closing in case anyone wants to test...

#6 - 08/07/2012 02:46 PM - ben leinfelder

Looks good!

#7 - 03/27/2013 02:31 PM - Redmine Admin

Original Bugzilla ID was 5644