

Metacat - Bug #7203

Improve D1NodeService.isAuthorized() performance

07/22/2017 04:14 PM - Chris Jones

Status:	In Progress	Start date:	07/22/2017
Priority:	Normal	Due date:	
Assignee:	Chris Jones	% Done:	0%
Category:	metacat	Estimated time:	0.00 hour
Target version:	2.9.0	Spent time:	0.00 hour
Bugzilla-Id:			
Description			
<p>We're seeing poor performance in calls to D1NodeService.isAuthorized() on https://arcticdata.io. When the system Metacat is under light load (< 10 requests per second), calls to isAuthorized() are taking up to 35 seconds to return either an HTTP 200 response or a HTTP 403 exception.</p> <p>Change isAuthorized() to prioritize user-based authorization first, and then CN or MN authorization last. This should increase performance for end users, whereas MN to MN replication calls and CN-administrative calls will be slightly less prioritized.</p> <p>Note that calls to userHasPermission() involve token verification using the PortalCertificateManager and the TokenGenerator. These calls may be repeatedly making a call to the CN to get the SSL certificate for verification if it is not cached. If this change doesn't significantly improve performance, look into refactoring those classes in d1_portal to cache and use the certificate, unless there is a verification exception, in which case we make the call to fetchCertificate() again, re-cache it, and attempt to re-verify the token. If it still fails, throw NotAuthorized.</p>			

History

#1 - 07/22/2017 04:23 PM - Chris Jones

I've re-ordered the authorization in isAuthorized(). Needs testing, and merging into the 2.8.x branch.

#2 - 07/22/2017 04:24 PM - Chris Jones

- Subject changed from *Improve D1NodeService.isAuthorized() performance* to *Improve D1NodeService.isAuthorized() performance*