**Metacat - Bug #7203**

**Improve D1NodeService.isAuthorized() performance**

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

<table>
<thead>
<tr>
<th>Status:</th>
<th>In Progress</th>
</tr>
</thead>
<tbody>
<tr>
<td>Priority:</td>
<td>Normal</td>
</tr>
<tr>
<td>Assignee:</td>
<td>Chris Jones</td>
</tr>
<tr>
<td>Category:</td>
<td>metacat</td>
</tr>
<tr>
<td>Target version:</td>
<td>2.9.0</td>
</tr>
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<td>Bugzilla-Id:</td>
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**Start date:** 07/22/2017

**Due date:**

**% Done:** 0%

**Estimated time:** 0.00 hour

**Spent time:** 0.00 hour

**Description**

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.

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.

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.

**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