Arvados - Feature #14285
[keep-balance] metrics endpoint

10/03/2018 03:36 PM - Tom Clegg

<table>
<thead>
<tr>
<th>Status:</th>
<th>Resolved</th>
<th>Start date:</th>
<th>10/11/2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Priority:</td>
<td>Normal</td>
<td>Due date:</td>
<td></td>
</tr>
<tr>
<td>Assigned To:</td>
<td>Tom Clegg</td>
<td>% Done:</td>
<td>100%</td>
</tr>
<tr>
<td>Category:</td>
<td></td>
<td>Estimated time:</td>
<td>0.00 hour</td>
</tr>
<tr>
<td>Target version:</td>
<td>2018-10-17 sprint</td>
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Description
Export the current storage status (currently being logged as formatted text) as prometheus metrics.

Subtasks:
- Task # 14288: Review 14285-keep-balance-metrics: Resolved
- Task # 14357: Review 14285-keep-balance-metrics: Resolved

Associated revisions
Revision f29266f2 - 10/15/2018 08:09 PM - Tom Clegg
Merge branch '14285-keep-balance-metrics'
refs #14285
Arvados-DCO-1.1-Signed-off-by: Tom Clegg <tclegg@veritasgenetics.com>

Revision d6a21ab8 - 10/16/2018 03:41 PM - Tom Clegg
Fix missing namespace in metric names.
refs #14285
Arvados-DCO-1.1-Signed-off-by: Tom Clegg <tclegg@veritasgenetics.com>

Revision 0afa1718 - 10/16/2018 05:24 PM - Tom Clegg
Merge branch '14285-keep-balance-metrics'
closes #14285
Arvados-DCO-1.1-Signed-off-by: Tom Clegg <tclegg@veritasgenetics.com>

History
#1 - 10/03/2018 03:43 PM - Tom Clegg
- Target version set to 2018-10-17 sprint
- Story points set to 1.0

#2 - 10/08/2018 09:16 PM - Tom Clegg
14285-keep-balance-metrics @ 182ee5168acc0dee39653ba3b5f0b4903f8b8b7c
- changes logging format to JSON (was timestamped plaintext)
- adds backend storage metrics: keep_{garbage,lost,overreplicated,total,transient,underreplicated}_{blocks,bytes,replicas}
- adds keep-balance timing metrics: keepbalance_{changeset_compute,get_state,send_pull_list,send_trash_lists,sweep}_seconds
- updates doc page

TODO: require management token

#3 - 10/08/2018 09:16 PM - Tom Clegg
- Status changed from New to In Progress

#4 - 10/11/2018 08:35 PM - Lucas Di Pentima
Should the 'Listen' config param be added to usage.go? The rest lgtm.
Metrics endpoints for keepstore, keep-web, keep-balance now require ManagementToken, if one is configured.

Added Listen and ManagementToken to usage.go.

Fixes failing sdk/go/health test.

A couple of questions:

- I’m not understanding how LoadToken() comes into play with the rest of the code, it seems to not being called from anywhere, could you please explain?
- Is sdk/go/auth getting big enough to deserve some testing?

Yes, added some handler tests. There's room for more, but how far should we go?

It's a middleware that attaches a *Credentials to the request, for CredentialsFromRequest can return when called (perhaps repeatedly) by inner handlers. The most likely use for it is in controller, but not until it gets cleaned up a bit.

- Is sdk/go/auth getting big enough to deserve some testing?

Just one question: Would it be convenient to use uint64 instead of int64 on collectionB.+s vars?

The rest LGTM.

Just one question: Would it be convenient to use uint64 instead of int64 on collectionB.+s vars?

I'm inclined to use signed ints anywhere arithmetic might be done -- uints have weird properties like 0-1 > 0 that can produce subtle bugs later on.
#14 - 11/13/2018 08:53 PM - Tom Morris

- Release set to 14