Arvados - Bug #14398
[keep-balance] deadlock on index retrieval error
10/24/2018 07:58 PM - Tom Clegg

<table>
<thead>
<tr>
<th>Status:</th>
<th>Resolved</th>
</tr>
</thead>
<tbody>
<tr>
<td>Priority:</td>
<td>Normal</td>
</tr>
<tr>
<td>Assigned To:</td>
<td>Tom Clegg</td>
</tr>
<tr>
<td>Category:</td>
<td>Keep</td>
</tr>
<tr>
<td>Target version:</td>
<td>2018-10-31 sprint</td>
</tr>
</tbody>
</table>

Start date:            
Due date:              
% Done: 100%          
Estimated time: 0.00 hour

Description
The error handling in keep-balance's GetCurrentState func depends on the size of the "errs" channel exceeding the number of possible errors from various goroutines. It used to be correct when the number of goroutines was 2+nServers, but then the number of goroutines changed to 2+nMounts, and GetCurrentState deadlocks if more than 2+nMounts > 2+nServers and all mounts return errors (e.g., wrong auth token).

Rather than relying on the channel size, fix this by using channel size 1 and ignoring subsequent errors once the channel is full (they won't be reported anyway).

Associated revisions
Revision dd5efa11 - 10/25/2018 09:46 PM - Tom Clegg
Merge branch '14398-error-deadlock'
fixes #14398
Arvados-DCO-1.1-Signed-off-by: Tom Clegg <tclegg@veritasgenetics.com>

History
#1 - 10/24/2018 08:26 PM - Tom Clegg
14398-error-deadlock @ 906551dd3a4823c03290d6abc37a3232dfa957bb

#2 - 10/25/2018 10:45 PM - Tom Clegg
- Status changed from In Progress to Resolved
- % Done changed from 0 to 100

Applied in changeset arvados|dd5efa11702934a9e00ae05b76f3f0279e1c36df.

#3 - 11/13/2018 08:53 PM - Tom Morris
- Release set to 14