The ceph auth get process creates a keyring file which is not suitable for usage in ceph auth import. This occurs when the original client entry has permissions enable such as allow command.

Fixes needed:
1) ceph auth get should return a keyring which can be used in ceph auth import. It should escape any embedded quotes
2) ceph auth import should return an error if any parsing error occurs. It should fail to import the keyring instead of partially importing an invalid keyring.

Example:
1) Ceph keyring in the file system:

1. cat /etc/ceph/ceph.client.manila.keyring
   [client.manila]
   key = AQAJlgRaAAAAABAAKOyA/uFL9L62CR0WXC73IA==
caps mds = "allow *"
caps mon = "allow r, allow command \"auth del\", allow command \"auth caps\", allow command \"auth get\", allow command \"auth get-or-create\"
caps osd = "allow rw"

2) Ceph client entry in ceph auth

1. ceph auth list
   installed auth entries:
   ...
   client.manila
   key: AQAJlgRaAAAAABAAKOyA/uFL9L62CR0WXC73IA==
caps: [mds] allow *
caps: [mon] allow r, allow command "auth del", allow command "auth caps", allow command "auth get", allow command "auth get-or-create"
caps: [osd] allow rw

3) Make a new copy of the keyring

1. ceph auth get client.manila -o temp.keyring
   exported keyring for client.manila
2. sed -e ‘s/manila/manila2/’ -i temp.keyring
3. cat temp.keyring
   [client.manila2]
   key = AQAJlgRaAAAAABAAKOyA/uFL9L62CR0WXC73IA==
caps mds = "allow *"
caps mon = "allow r, allow command "auth del", allow command "auth caps", allow command "auth get", allow command "auth get-or-create"
caps osd = "allow rw"

4) Import the keyring

1. ceph auth import -i temp.keyring
   imported keyring

5) Display the new client entry

1. ceph auth get client.manila2
   exported keyring for client.manila2
   [client.manila2]
   key = AQAJlgRaAAAAABAAKOyA/uFL9962CR0WXC73IA==
   caps mds = "allow *"
caps osd = "allow rw"

The new keyring is imported but the caps are not added and no error is returned to the user.

Keith

<table>
<thead>
<tr>
<th>Related Issues:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Copied to Ceph - Backport #40546: nautilus: Keyrings created by ceph auth get...</td>
<td>Resolved</td>
</tr>
<tr>
<td>Copied to Ceph - Backport #40547: mimic: Keyrings created by ceph auth get ar...</td>
<td>Resolved</td>
</tr>
<tr>
<td>Copied to Ceph - Backport #40548: luminous: Keyrings created by ceph auth get...</td>
<td>Resolved</td>
</tr>
</tbody>
</table>

History

#1 - 11/16/2018 02:52 AM - Brad Hubbard
- Status changed from New to In Progress

Please check https://github.com/ceph/ceph/pull/20610 (closed)

#2 - 06/18/2019 02:55 PM - Kefu Chai
- Status changed from In Progress to Fix Under Review
- Assignee set to Kefu Chai
- Pull request ID set to 28634

#3 - 06/18/2019 02:56 PM - Kefu Chai
- Backport set to nautilus, luminous, mimic

#4 - 06/19/2019 06:56 AM - Nathan Cutler
- Subject changed from Keyrings created by ceph auth get are not suitable for auth auth import to Keyrings created by ceph auth get are not suitable for ceph auth import

#5 - 06/25/2019 11:29 AM - Kefu Chai
- Status changed from Fix Under Review to Pending Backport

only the commit of "auth/KeyRing: escape quotes around commands" needs to be backported.

#6 - 06/25/2019 12:22 PM - Nathan Cutler
- Copied to Backport #40546: nautilus: Keyrings created by ceph auth get are not suitable for ceph auth import added

#7 - 06/25/2019 12:22 PM - Nathan Cutler
- Copied to Backport #40547: mimic: Keyrings created by ceph auth get are not suitable for ceph auth import added
- Copied to Backport #40548: luminous: Keyrings created by ceph auth get are not suitable for ceph auth import added

#9 - 07/03/2019 01:49 PM - Nathan Cutler
Follow-on fix: https://github.com/ceph/ceph/pull/28776 (does not affect the backports, since the feature as a whole is not being backported)

#10 - 08/29/2019 08:18 AM - Nathan Cutler
- Status changed from Pending Backport to Resolved

While running with --resolve-parent, the script "backport-create-issue" noticed that all backports of this issue are in status "Resolved".