Foreman - Bug #25624
Registered hosts' report performs poorly
12/04/2018 05:36 PM - Marek Hulán

<table>
<thead>
<tr>
<th>Status:</th>
<th>Closed</th>
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<tbody>
<tr>
<td>Priority:</td>
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<tr>
<td>Assignee:</td>
<td>Marek Hulán</td>
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<tr>
<td>Category:</td>
<td>Reporting</td>
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<tr>
<td>Target version:</td>
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<td>Difficulty:</td>
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<td>Triaged:</td>
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<td>Bugzilla link:</td>
<td>1655628</td>
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<tr>
<td>Fixed in Releases:</td>
<td>1.21.0</td>
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<td>Found in Releases:</td>
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Description
Cloned from https://bugzilla.redhat.com/show_bug.cgi?id=1655628

Description of problem:
Performance testing shows that there's most likely something done inefficiently in the Registered hosts report. I've tested on a Satellite with 10 000 systems.

When running a report without filters, it takes 8 minutes (there are no performance requirements specified so this should be fine). However, when running with a host filter such that it limits hosts to only 500 of these 10,000, the report generation consistently fails with ISE after 30 minutes.

Tested on a RHEL7 machine with Intel Xeon, 4 sockets, 32 cores, hyperthreading, 2.7 Ghz, 128 GB RAM

Version-Release number of selected component (if applicable):
6.5 snap 5

How reproducible:
Deterministic on one machine but may be influenced by the machine's performance.

Steps to Reproduce:
1. Have a Satellite with 10 000 systems, 500 of them with some easily filterable name
2. Monitor -> Report Templates -> Registered Hosts -> Generate
3. Fill in a filter such that it selects 500 systems
4. Submit

Actual results:
ISE after 30 minutes

Expected results:
Report generated. I'd expect it to be faster than without the filter

Associated revisions
Revision 8a76900b - 01/03/2019 07:16 PM - Marek Hulán
Fixes #25624 - add explicit kernel release fact loader

The problem with registered hosts report is that for each host we load all host facts just in order to display kernelrelease fact value. We can define explicit association for this fact so we can “include” it. To use it in templates a new macro `host_kernel_release` is introduced.
History

#1 - 12/04/2018 05:37 PM - Marek Hulán
  - Assignee set to Marek Hulán
  - Category changed from Statistics to Reporting
  - Subject changed from Registered hosts' report performs poorly to Registered hosts' report performs poorly

#2 - 12/04/2018 05:57 PM - The Foreman Bot
  - Status changed from New to Ready For Testing
  - Pull request https://github.com/theforeman/community-templates/pull/542 added

#3 - 12/04/2018 05:58 PM - The Foreman Bot
  - Pull request https://github.com/theforeman/foreman/pull/6305 added

#4 - 01/03/2019 07:16 PM - Tomer Brisker
  - Fixed in Releases 1.21.0 added

#5 - 01/03/2019 09:01 PM - Marek Hulán
  - Status changed from Ready For Testing to Closed

Applied in changeset 8a76900b31d4a6bb18852a7803e85d0c6e54be23.