

Foreman - Bug #16576

Structured facts importer is extremely slow

09/15/2016 08:09 PM - Brandon Weeks

<b>Status:</b>	Closed	<b>Fixed in Releases:</b>  <b>Found in Releases:</b> 1.13.0  <b>Red Hat JIRA:</b>	
<b>Priority:</b>	Normal		
<b>Assignee:</b>	Dominic Cleal		
<b>Category:</b>	Facts		
<b>Target version:</b>	1.13.0		
<b>Difficulty:</b>			
<b>Triaged:</b>			
<b>Bugzilla link:</b>			
<b>Pull request:</b>	<a href="https://github.com/theforeman/foreman/pull/3852">https://github.com/theforeman/foreman/pull/3852</a>		
<b>Description</b> <p>After upgrading to 1.13.0-RC1, our Foreman server consumed all available resources and became effectively unusable with response times of 25k to 175k ms. This seems directly related to the changes made in <a href="#">#4528</a>, as Api::V2::HostsController#facts is where the application spends 99% of its time after upgrade according to NewRelic.</p> <ul style="list-style-type: none"><li><a href="https://gist.github.com/brandonweeks/94b93e343dca4395c17815e24aaeb879">https://gist.github.com/brandonweeks/94b93e343dca4395c17815e24aaeb879</a></li></ul>			
<b>Related issues:</b>			
Related to Foreman - Feature #4528: Support Facter 2 structured facts		<b>Closed</b>	<b>03/03/2014</b>
Related to Foreman - Feature #12163: Add ability to expire facts based on fac...		<b>Closed</b>	<b>10/14/2015</b>
Related to Foreman - Bug #9016: Fact import code consumes lot of memory		<b>Closed</b>	<b>01/18/2015</b>

Associated revisions

Revision e5381d3f - 09/19/2016 10:26 AM - Dominic Cleal

fixes #16576 - only load FactName IDs, not models during import

Restores behaviour from before c696f74, which only keeps FactName IDs to avoid loading the entire model. For structured facts, the compose values are also preloaded, so the model is only loaded and updated if the value of compose changes from the preloaded value.

Revision c2eca541 - 09/26/2016 07:38 AM - Dominic Cleal

fixes #16576 - only load FactName IDs, not models during import

Restores behaviour from before c696f74, which only keeps FactName IDs to avoid loading the entire model. For structured facts, the compose values are also preloaded, so the model is only loaded and updated if the value of compose changes from the preloaded value.  
(cherry picked from commit e5381d3ff9001d9fe3ce8d0f90afeec591571e97)

History

#1 - 09/15/2016 09:07 PM - Brandon Weeks

This was mostly caused by a massive numbers of orphaned rows in the fact\_names table. Here is a SQL query that removes any fact\_names without corresponding values.

```
DELETE
FROM fact_names
WHERE fact_names.id NOT IN (SELECT DISTINCT fact_name_id FROM fact_values);
```

#2 - 09/16/2016 02:56 AM - Dominic Cleal

- translation missing: en.field\_release set to 160

#3 - 09/16/2016 03:31 AM - Dominic Cleal

- Status changed from New to Assigned

- Assignee set to Dominic Cleal

**#4 - 09/16/2016 03:32 AM - Dominic Cleal**

- Related to Feature #4528: Support Factor 2 structured facts added

**#5 - 09/16/2016 03:41 AM - Dominic Cleal**

- Related to Feature #12163: Add ability to expire facts based on fact name. added

**#6 - 09/16/2016 03:58 AM - Lukas Zapletal**

- Related to Bug #9016: Fact import code consumes lot of memory added

**#7 - 09/16/2016 03:59 AM - Lukas Zapletal**

This patch [#9016](#) fixes it, we are just finishing the review process. Could you try it and share some numbers?

<https://github.com/theforeman/foreman/pull/3667>

**#8 - 09/16/2016 04:17 AM - The Foreman Bot**

- Status changed from Assigned to Ready For Testing

- Pull request <https://github.com/theforeman/foreman/pull/3852> added

**#9 - 09/19/2016 11:06 AM - Dominic Cleal**

- Status changed from Ready For Testing to Closed

- % Done changed from 0 to 100

Applied in changeset [e5381d3ff9001d9fe3ce8d0f90afeec591571e97](#).