

## Foreman - Bug #19742

### API call for fact\_values is slow when user is non-admin , Foreman 1.15.0

06/01/2017 11:52 AM - Karen Kalinux

<b>Status:</b> Closed	
<b>Priority:</b> Normal	
<b>Assignee:</b> Marek Hulán	
<b>Category:</b> API	
<b>Target version:</b> 1.15.4	
<b>Difficulty:</b>	<b>Fixed in Releases:</b>
<b>Triaged:</b>	<b>Found in Releases:</b>
<b>Bugzilla link:</b>	<b>Red Hat JIRA:</b>
<b>Pull request:</b> <a href="https://github.com/theforeman/foreman/pull/4818">https://github.com/theforeman/foreman/pull/4818</a>	
<b>Description</b>	
Hi Gents,	
Seems the same user with admin rights can have a respond from API call within 0.1s and with limited access about 10.5s,	
Logs from Foreman below:	
limited user	
2017-06-01 15:39:42 5cb09216 [app] [I] Started GET "/api/hosts/345/facts?per_page=999" for myhost.domain.com at 2017-06-01 15:39:42 +0200	
2017-06-01 15:39:42 5cb09216 [app] [I] Processing by Api::V2::FactValuesController#index as JSON	
2017-06-01 15:39:42 5cb09216 [app] [I] Parameters: {"per_page"=>"999", "apiv"=>"v2", "host_id"=>"345", "fact_value"=>{}}	
2017-06-01 15:39:42 5cb09216 [app] [I] Authorized user karen(karen)	
2017-06-01 15:39:53 5cb09216 [app] [I] Rendered api/v2/fact_values/index.json.rabl within api/v2/layouts/index_layout (1.6ms)	
2017-06-01 15:39:53 5cb09216 [app] [I] Completed 200 OK in 10555ms (Views: 54.3ms   ActiveRecord: 190.0ms)	
as admin	
2017-06-01 15:40:46 3588293e [app] [I] Started GET "/api/hosts/345/facts?per_page=999" for myhost.domain.com at 2017-06-01 15:40:46 +0200	
2017-06-01 15:40:46 3588293e [app] [I] Processing by Api::V2::FactValuesController#index as JSON	
2017-06-01 15:40:46 3588293e [app] [I] Parameters: {"per_page"=>"999", "apiv"=>"v2", "host_id"=>"345", "fact_value"=>{}}	
2017-06-01 15:40:46 3588293e [app] [I] Authorized user karen(karen)	
2017-06-01 15:40:46 3588293e [app] [I] Rendered api/v2/fact_values/index.json.rabl within api/v2/layouts/index_layout (1.6ms)	
2017-06-01 15:40:46 3588293e [app] [I] Completed 200 OK in 776ms (Views: 11.5ms   ActiveRecord: 18.3ms)	
as user without Organization or Location assigned	
2017-06-01 17:41:11 bcf71b47 [app] [I] Started GET "/api/hosts/645/facts?per_page=999" for myhost.domain.com at 2017-06-01 17:41:11 +0200	
2017-06-01 17:41:11 bcf71b47 [app] [I] Processing by Api::V2::FactValuesController#index as JSON	
2017-06-01 17:41:11 bcf71b47 [app] [I] Parameters: {"per_page"=>"999", "apiv"=>"v2", "host_id"=>"645", "fact_value"=>{}}	
2017-06-01 17:41:11 bcf71b47 [app] [I] Authorized user karen(karen)	
2017-06-01 17:41:15 bcf71b47 [app] [I] Rendered api/v2/fact_values/index.json.rabl within api/v2/layouts/index_layout (1.3ms)	
2017-06-01 17:41:15 bcf71b47 [app] [I] Completed 200 OK in 3569ms (Views: 19.0ms   ActiveRecord: 68.9ms)	
<b>Related issues:</b>	
Related to Foreman - Bug #11996: fact_values API with non-admin user and sear...	<b>Closed</b> <b>09/29/2015</b>

#### Associated revisions

##### Revision e12885c7 - 09/08/2017 07:30 AM - Marek Hulán

Fixes #19742 - cache hosts for fact values

When we generate fact values hash we always loaded a host for a given fact. This in combination with taxonomies queries that are automatically generated caused roughly 6N+1 issue. We can preload all hosts that are required and use this in-memory cache for generating the hash.

## Revision 44072648 - 09/08/2017 11:31 AM - Marek Hulán

Fixes #19742 - cache hosts for fact values

When we generate fact values hash we always loaded a host for a given fact. This in combination with taxonomies queries that are automatically generated caused roughly 6N+1 issue. We can preload all hosts that are required and use this in-memory cache for generating the hash.

## Revision 82ab8c84 - 09/08/2017 11:32 AM - Marek Hulán

Fixes #19742 - cache hosts for fact values

When we generate fact values hash we always loaded a host for a given fact. This in combination with taxonomies queries that are automatically generated caused roughly 6N+1 issue. We can preload all hosts that are required and use this in-memory cache for generating the hash.

## History

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### #1 - 06/08/2017 09:02 AM - Daniel Lobato Garcia

- translation missing: en.field\_release changed from 248 to 266

### #2 - 06/15/2017 11:17 AM - Karen Kalinux

Any updates?

### #3 - 06/16/2017 04:53 AM - Matteo Castellarin

Hi

This is somehow blocking, as REST retrieving data for a pool of VMs (i.e. their facts) really takes hours for just some hundred of VMs, while it can be performed in a matter of seconds with admin rights.

### #4 - 07/06/2017 08:34 AM - Daniel Lobato Garcia

- translation missing: en.field\_release changed from 266 to 276

### #5 - 08/08/2017 05:16 AM - Daniel Lobato Garcia

- translation missing: en.field\_release changed from 276 to 287

### #6 - 09/08/2017 04:47 AM - Marek Hulán

- Related to Bug #11996: fact\_values API with non-admin user and search on host.hostgroup throws SQL error added

### #7 - 09/08/2017 04:56 AM - Marek Hulán

- Status changed from New to Assigned

- Assignee changed from Daniel Lobato Garcia to Marek Hulán

### #8 - 09/08/2017 05:01 AM - The Foreman Bot

- Status changed from Assigned to Ready For Testing

- Pull request <https://github.com/foreman/foreman/pull/4818> added

### #9 - 09/08/2017 05:17 AM - Marek Hulán

Steps to reproduce

1. create a user in some org and loc, have a host with facts in the same org and loc
2. compare SQL log from hammer host facts --id \$host\_id --per-page 100 ran under admin and non-admin user

For non-admin user it takes much longer since for every fact we load host and verify its taxonomies. For admin we don't check taxonomies, admin users can access all so we skip it. Therefore there's no n+1 issue for admins.

The same issue is present for the endpoint without specific host, could be reproduced with hammer fact list --per-page 1000, with the patch I was able to list 1000 facts for set on 10 hosts without any issue.

### #10 - 09/08/2017 08:01 AM - Anonymous

- Status changed from Ready For Testing to Closed

- % Done changed from 0 to 100

Applied in changeset [e12885c7d21458b1a446aa80a61e3225dfa331df](#).