Foreman - Bug #1088

Overly aggressive query

08/04/2011 03:33 PM - Dis Connect

Status:	Closed	
Priority:	Normal	
Assignee:	Ohad Levy	
Category:	Facts	
Target version:	0.4	
Difficulty:		**Fixed in Releases:**
Triaged:		**Found in Releases:**
Bugzilla link:		**Red Hat JIRA:**
Pull request:		

Description

Clicking the facts tab results in the entire foreman installation hanging for 1 minute while it runs this monstrosity:

```
SELECT `fact_values`.`id` AS t0_r0, `fact_values`.`value` AS t0_r1, `fact_values`.`fact_name_id` A
S t0_r2, `fact_values`.`host_id` AS t0_r3, `fact_values`.`updated_at` AS t0_r4, `fact_values`.`cre
ated_at` AS t0_r5, `fact_names`.`id` AS t1_r0, `fact_names`.`name` AS t1_r1, `fact_names`.`updated
_at` AS t1_r2, `fact_names`.`created_at` AS t1_r3, `hosts`.`id` AS t2_r0, `hosts`.`name` AS t2_r1,
 `hosts`.`ip` AS t2_r2, `hosts`.`last_compile` AS t2_r3, `hosts`.`last_freshcheck` AS t2_r4, `host
s`.`last_report` AS t2_r5, `hosts`.`updated_at` AS t2_r6, `hosts`.`source_file_id` AS t2_r7, `host
s`.`created_at` AS t2_r8, `hosts`.`environment` AS t2_r9, `hosts`.`mac` AS t2_r10, `hosts`.`sp_mac
` AS t2_r11, `hosts`.`sp_ip` AS t2_r12, `hosts`.`sp_name` AS t2_r13, `hosts`.`root_pass` AS t2_r14
, `hosts`.`serial` AS t2_r15, `hosts`.`puppetmaster_name` AS t2_r16, `hosts`.`puppet_status` AS t2
_r17, `hosts`.`domain_id` AS t2_r18, `hosts`.`architecture_id` AS t2_r19, `hosts`.`operatingsystem
_id` AS t2_r20, `hosts`.`environment_id` AS t2_r21, `hosts`.`subnet_id` AS t2_r22, `hosts`.`sp_sub
net_id` AS t2_r23, `hosts`.`ptable_id` AS t2_r24, `hosts`.`medium_id` AS t2_r25, `hosts`.`build` A
S t2_r26, `hosts`.`comment` AS t2_r27, `hosts`.`disk` AS t2_r28, `hosts`.`installed_at` AS t2_r29,
 `hosts`.`model_id` AS t2_r30, `hosts`.`hostgroup_id` AS t2_r31, `hosts`.`owner_id` AS t2_r32, `ho
sts`.`owner_type` AS t2_r33, `hosts`.`enabled` AS t2_r34, `hosts`.`managed` AS t2_r35, `hosts`.`pu
ppetproxy_id` AS t2_r36, `hosts`.`use_image` AS t2_r37, `hosts`.`image_file` AS t2_r38 FROM `fact_
values` LEFT OUTER JOIN `fact_names` ON `fact_names`.id = `fact_values`.fact_name_id LEFT OUTER JO
IN `hosts` ON `hosts`.id = `fact_values`.host_id WHERE (fact_names.name <> '--- !ruby/sym _timesta
mp') ORDER BY `hosts`.`name` ASC LIMIT 0, 20
```

Due to the various text columns, mysql must create on-disk temp tables for the results:
1   SIMPLE   fact_names   range   PRIMARY,index_fact_names_on_id,index_fact_names_on_name
index_fact_names_on_name   767   NULL   20   Using where with pushed condition; Using temporary; Using filesort
1   SIMPLE   fact_values   ref   index_fact_values_on_fact_name_id   index_fact_values_on_fact_name_id   4
puppetmaster.fact_names.id   1
1   SIMPLE   hosts   eq_ref   PRIMARY,index_hosts_on_id   PRIMARY   4   puppetmaster.fact_values.host_id   1

Somehow it doesn't seem reasonable to join and dump the largest tables in the database just to display a couple of facts from the first host... (I understand the need to display ~~something~~ when you open that tab but does anyone really need the 20 randomly-ordered values from the alphabetically-first host? Especially at the expense of the database..)

On a related note, it'd be nice if the whole app didn't hang up (causing report timeouts, ext-lookup timeouts, api timeouts..) when it spits up long-running queries like this..

Associated revisions

Revision 169e7ac6 - 09/05/2011 07:27 AM - Ohad Levy

fixes #1088 - Overly aggressive query in facts tab

History

#1 - 08/07/2011 06:44 AM - Ohad Levy

ok, it seems this is mostly related to the order, which is order based on the host name.
so really, what we ask the db to do, is to fetch all hosts, sort them by name, then join the with facts and return only 20 records.

to solve this issue, we need to sort on the facts rather the host names.

Amos - any other ideas?

#2 - 09/05/2011 07:41 AM - Ohad Levy

- Status changed from New to Closed

- % Done changed from 0 to 100

Applied in changeset [169e7ac6db84f702c875c8daaab69d9a480c66f0](#).

#3 - 09/05/2011 07:41 AM - Ohad Levy

- Assignee changed from Amos Benari to Ohad Levy

- Target version set to 0.4