Foreman - Bug #21625

Host search using OR on facts finds duplicate records and takes a long time

11/10/2017 07:57 AM - Marek Hulán

Status:	Closed		
Priority:	Normal		
Assignee:	Amit Karsale		
Category:	Search		
Target version:			
Difficulty:		**Fixed in Releases:**	
Triaged:	No	**Found in Releases:**	
Bugzilla link:	1511254	**Red Hat JIRA:**	
Pull request:			

Description

Cloned from https://bugzilla.redhat.com/show_bug.cgi?id=1511254

Description of problem:

AND and OR operation is not working on satellite as expected, when trying to filtering host with single filter like "facts.bios_vendor = SeaBIOS" it works fine, but when your try to filter using AND and OR operator its not working as expected, when filtering using AND it gives zero result "facts.bios_vendor = SeaBIOS and facts.architecture = x86_64", when trying to filter using OR result is unstable as it gives around 1700 number of results even through there is only 10 machines registered with satellite.

How reproducible:
- Under Satellite UI - > Hosts → All Hosts → in search tab
- Try to filter host using any fact ex. "facts.bios_vendor = SeaBIOS"
- Also try to filter using any other fact ex. "facts.architecture = x86_64"
- Now combine search filter using AND and OR operator like below and check the result.
Ex. "facts.bios_vendor = SeaBIOS and facts.architecture = x86_64"
Ex. "facts.bios_vendor = SeaBIOS or facts.architecture = x86_64"

Actual results:
- Observe there is no result when using AND operator
- Observe there is N number of results when using OR operator which is regardless of number of registered clients.

Expected results:
- Should be able to search hosts using AND and OR

Additional info:
Also tried to search using the query structure given on the link "https://github.com/wvanbergen/scoped_search/wiki/Query-language" but still result is not as expected.

History

#1 - 11/10/2017 07:59 AM - Marek Hulán

The description is misleading. The error appears when we try to search using host facts and use or operator. E.g. this example

```
facts.bios_version = 1.9.3-1.fc25 or facts.bios_version = 1.9.1-1.fc24
```

causes huge load on my DB and the result is list of duplicate host entry.

#2 - 11/10/2017 08:00 AM - Marek Hulán

The generated SQL query looks like this

```
Host::Managed Load (103699.2ms)  SELECT  "hosts".* FROM "hosts" INNER JOIN fact_values fact_values_28 ON (host
s.id = fact_values_28.host_id) INNER JOIN fact_names fact_names_28 ON (fact_names_28.id = fact_values_28.fact_
name_id) INNER JOIN fact_values fact_values_29 ON (hosts.id = fact_values_29.host_id) INNER JOIN fact_names fa
ct_names_29 ON (fact_names_29.id = fact_values_29.fact_name_id) WHERE "hosts"."type" IN ('Host::Managed') AND
(((fact_names_28.name = 'bios_version' AND fact_values_28.value = '1.9.3-1.fc25') OR (fact_names_29.name = 'bi
os_version' AND fact_values_29.value = '1.9.1-1.fc24'))) ORDER BY "hosts"."name" ASC LIMIT $1 OFFSET $2  [["LI
MIT", 20], ["OFFSET", 0]]
```

#3 - 12/15/2017 07:29 AM - Amit Karsale

- Assignee set to Amit Karsale

#4 - 09/05/2019 07:17 AM - Marek Hulán

this is potentially resolved by [#25897](#25897)

#5 - 08/06/2021 08:36 AM - Leos Stejskal

- Status changed from New to Closed

Hi, I'm closing the issue,
it's been a while since the last update,
I wasn't able to reproduce it on current develop branch & linked BZ is closed.