Foreman - Bug #35689

Queries take too long to return when you have lots of facts

10/28/2022 03:39 PM - Guilherme M. Schroeder

Status:	Ready For Testing		
Priority:	Normal		
Assignee:	Adam Ruzicka		
Category:	Search		
Target version:			
Difficulty:		**Fixed in Releases:**	
Triaged:	No	**Found in Releases:**	3.4.0
Bugzilla link:		**Red Hat JIRA:**	
Pull request:	https://github.com/theforeman/foreman/pull/9724		

Description

Foreman 3.4.0 with ~ 6k hosts + 900 in discovery mode. Receiving facts from Puppet. ~1.8 million facts in the fact_values table.

When trying to do a query like "facts.architecture=x86_64" in the search box of "Hosts -> Discovered Hosts", it takes more than 4 minutes (check debug.txt attached).

The query is constructed as the following:

irb(main):001:0> puts Host::Discovered.search_for("facts.architecture=x86_64").to_sql
SELECT "hosts".* FROM "hosts" INNER JOIN "fact_values" fact_values_588605 ON (hosts.id = fact_values_588605.host_id) INNER JOIN "fact_names" fact_names_588605 ON (fact_names_588605.id = fact_values_588605.fact_name_id) WHERE "hosts"."type" = 'Host::Discovered' AND ((fact_names_588605."name" = 'architecture') AND ("hosts"."id" IN (SELECT "host_id" FROM "fact_values" WHERE "fact_values_588605"."value" = 'x86_64'))) ORDER BY "hosts"."created_at" DESC NULLS LAST => nil
irb(main):002:0>

It can be simplified to:

SELECT "hosts".* FROM "hosts" INNER JOIN "fact_values" fact_values_588605 ON (hosts.id = fact_values_588605.host_id) INNER JOIN "fact_names" fact_names_588605 ON (fact_names_588605.id = fact_values_588605.fact_name_id) WHERE "hosts"."type" = 'Host::Discovered' AND "hosts"."organization_id" = '33' AND "hosts"."organization_id" = '33' AND fact_names_588605."name" = 'architecture' AND "fact_values_588605"."value" = 'x86_64' ORDER BY "hosts"."created_at" DESC NULLS LAST LIMIT '100' OFFSET '0';

And it takes only 32ms to return.

Related issues:

Copied to Discovery - Bug #36491: Queries take too long to return when you ha...		**Ready For Testing**

History

#1 - 10/28/2022 03:50 PM - Ewoud Kohl van Wijngaarden

- Project changed from Foreman to Discovery

- Category set to Discovery plugin

#2 - 06/06/2023 02:28 PM - Adam Ruzicka

- Project changed from Discovery to Foreman

- Category changed from Discovery plugin to Search

#3 - 06/06/2023 02:33 PM - The Foreman Bot

- Status changed from New to Ready For Testing

- Assignee set to Adam Ruzicka

- Pull request https://github.com/theforeman/foreman/pull/9724 added

#4 - 06/08/2023 12:52 PM - Adam Ruzicka

- Copied to Bug #36491: Queries take too long to return when you have lots of facts added

Files

debug.txt	166 KB	10/28/2022	Guilherme M. Schroeder