Foreman - Feature #11176

Foreman should have a mechanism for stripping sensitive information out of the database for debugging and reporting purposes

07/21/2015 10:49 AM - Martin Jackson

Status:	New		
Priority:	Normal		
Assignee:			
Category:	Database		
Target version:			
Difficulty:		**Fixed in Releases:**	
Triaged:		**Found in Releases:**	
Bugzilla link:		**Red Hat JIRA:**	
Pull request:			

Description

There should be a way to programmatically remove sensitive/identifying information from the foreman database, but still allow it to be used to model, for example, unfortunate query behaviors (such as N+1 queries), etc.

We have developed a process for doing this, which involves a script and a second machine. The process is destructive to the database, so we wouldn't want to run this script on the production instance.

The outline of the process is as follows:

- Export a database snapshot
- Load the snapshot on a “safe” test machine
- Change the production access restrictions (i.e. change the database password for the foreman user in the DB)
- Perform the following data transformations:
  - Delete authentication sources that are not internal (i.e. LDAP integrations)
  - Set the admin user password to “changeme”
  - Delete all non-admin users
  - Obfuscate all non-smartclass parameters to the string “Overridden”
  - Set all Foreman global settings to their defaults
  - Change all parameter overrides to obfuscated strings that are syntactically legal but not useful.
  - Purge all user sessions
  - Purge all audit records

What the database still does have is all of our regular hostnames, fact, and report data.

I’ve validated that the resulting database can be used with a standalone application instance, and can be used (for example) to explore expensive database queries, fact queries, etc.

History

#1 - 07/21/2015 10:54 AM - Dominic Cleal

- Category set to Database

#2 - 07/21/2015 10:58 AM - Ohad Levy

I could think of a few more:

- audits
- compute resources
- report content? (e.g. diff)

Files

sanitize_foreman.py	777 Bytes	07/21/2015	Martin Jackson
sanitize_foreman.json	2.16 KB	07/21/2015	Martin Jackson