

Foreman - Feature #236

Installation media should be usable for more than one operating system

05/03/2010 12:23 PM - Jochen Schalanda

Status: Closed	
Priority: Normal	
Assignee: Jochen Schalanda	
Category: Database	
Target version: 0.1-5	
Difficulty:	Fixed in Releases:
Triaged:	Found in Releases:
Bugzilla link:	Red Hat JIRA:
Pull request:	
Description	
The current database schema of Foreman describes a one-to-many relation between Installation Medium and Operating Systems :	
<pre>+-----+ +-----+ Media <*>----<1> Operatingsystem +-----+ +-----+</pre>	
ActiveRecord: Media :belongs_to Operatingsystem Operatingsystem :has_many Media	
The implication of this design is, that the user has to create an installation medium for each operating system created in Foreman. This makes sense for installation media which contain a certain the version number or architecture of the operating system in their URI or path, like the ones of Fedora or CentOS Linux.	
With Debian-based Linux distributions on the other hand, one mirror can serve several versions of the operating system from the same URI/path. This results in several identical installation media.	
For example, having the operating systems "Ubuntu 8.04 LTS", "Ubuntu 9.10", "Ubuntu 10.04 LTS" each in "x86" and "x86_64" variants need 6 identical installation media in Foreman while one mirror would be sufficient.	
By creating a many-to-many relation between Installation Media and Operating Systems , the user could "reuse" an installation medium for several operating system.	
<pre>+-----+ +-----+ Media <*>----<*> Operatingsystem +-----+ +-----+</pre>	
ActiveRecord: Media has_and_belongs_to_many Operatingsystem Operatingsystem has_and_belongs_to_many Media	
PS: Assigned to Paul Kelly due to recommendation of Ohad Levy.	

Associated revisions

Revision 0ba45d6d - 05/24/2010 09:03 AM - Jochen Schalanda

fixes #236 - Installation media are now usable with more than one operating system.

Revision 0bba6aae - 05/27/2010 03:42 AM - Ohad Levy

migration might fail if medium does not have an opeartingsystem - refs #236

History

#1 - 05/23/2010 08:10 AM - Jochen Schalanda

- File 0001-Implements-feature-236-Installation-media-are-now-us.patch added

I've implemented the proposed changes, see the attached patch file.

Being able to assign an installation medium to more than one operating system together with the variable substitution in the URL (\$arch, \$version, \$major and \$minor) should greatly reduce the need for several nearly identical installation mediums.

For example: instead of creating an installation medium for CentOS 5.4 ([http://mirror.averse.net/centos/5.4/os/\\$arch](http://mirror.averse.net/centos/5.4/os/$arch)) and 5.5 ([http://mirror.averse.net/centos/5.5/os/\\$arch](http://mirror.averse.net/centos/5.5/os/$arch)) one could simply create an installation medium with the URL [http://mirror.averse.net/centos/\\$version/os/\\$arch](http://mirror.averse.net/centos/$version/os/$arch) and assign it to the respective operating systems.

#2 - 05/23/2010 03:52 PM - Jochen Schalanda

- File 0002-Refactored-latest-migrations-to-actually-migrate-dat.patch added

Refactored migrations to migrate existing data to the new schema.

#3 - 05/24/2010 08:15 AM - Ohad Levy

- Assignee changed from Paul Kelly to Jochen Schalanda

- Target version set to 0.1-5

#4 - 05/24/2010 09:08 AM - Jochen Schalanda

- Status changed from New to Ready For Testing

- % Done changed from 0 to 100

Applied in changeset [0ba45d6d0d68324650c378a35ee54eddd51d67a3](#).

#5 - 05/26/2010 05:23 AM - Ohad Levy

- Status changed from Ready For Testing to Closed

Files

0001-Implements-feature-236-Installation-media-are-now-us.patch	5.36 KB	05/23/2010	Jochen Schalanda
0002-Refactored-latest-migrations-to-actually-migrate-dat.patch	2.94 KB	05/23/2010	Jochen Schalanda