Foreman - Feature #17228

Allow selecting a template used as global default for each kind

11/04/2016 10:56 AM - Marek Hulán

Status:	Closed		
Priority:	Normal		
Assignee:	Ondřej Pražák		
Category:	Templates		
Target version:	1.15.0		
Difficulty:		**Fixed in Releases:**	
Triaged:		**Found in Releases:**	
Bugzilla link:	1382008	**Red Hat JIRA:**	
Pull request:	https://github.com/theforeman/foreman/pull/4283, https://github.com/theforeman/foreman/pull/4331		

Description

Cloned from https://bugzilla.redhat.com/show_bug.cgi?id=1382008

Description of problem:
The 'PXELinux global default' is silently overwritten by the ugprade process.

```
[crash] root@li-lc-1578:~# hammer -c/opt/hoici/etc/sat6/hammer-hoici.yaml template dump --name='PX
ELinux global default'
empty
```

running a seed tasks e.g. from installer

```
[crash] root@li-lc-1578:~# satellite-installer --scenario=satellite --verbose --upgrade
[ INFO 2016-10-05 13:28:32 verbose] Executing hooks in group pre_migrations
[ INFO 2016-10-05 13:28:32 verbose] All hooks in group pre_migrations finished
[ INFO 2016-10-05 13:28:32 verbose] Executing hooks in group boot
[ INFO 2016-10-05 13:28:32 verbose] All hooks in group boot finished
.....
Upgrade Step: db_seed...
[ INFO 2016-10-05 13:34:27 verbose] Upgrade Step: db_seed...
Seeding /usr/share/foreman/db/seeds.d/03-auth_sources.rb
Seeding /usr/share/foreman/db/seeds.d/03-permissions.rb
Seeding /usr/share/foreman/db/seeds.d/03-roles.rb
Seeding /usr/share/foreman/db/seeds.d/04-admin.rb
Seeding /usr/share/foreman/db/seeds.d/05-taxonomies.rb
Seeding /usr/share/foreman/db/seeds.d/06-architectures.rb
Seeding /usr/share/foreman/db/seeds.d/07-provisioning_templates.rb        <-------------
Seeding /usr/share/foreman/db/seeds.d/08-partition_tables.rb
Seeding /usr/share/foreman/db/seeds.d/10-installation_media.rb
Seeding /opt/theforeman/tfm/root/usr/share/gems/gems/katello-3.0.0.80/db/seeds.d/101-locations.rb
Seeding /opt/theforeman/tfm/root/usr/share/gems/gems/katello-3.0.0.80/db/seeds.d/102-organizations
.rb
Seeding /opt/theforeman/tfm/root/usr/share/gems/gems/katello-3.0.0.80/db/seeds.d/103-provisioning_
templates.rb
Seeding /opt/theforeman/tfm/root/usr/share/gems/gems/katello-3.0.0.80/db/seeds.d/104-proxy.rb
Seeding /opt/theforeman/tfm/root/usr/share/gems/gems/katello-3.0.0.80/db/seeds.d/106-mail_notifica
tions.rb
Seeding /opt/theforeman/tfm/root/usr/share/gems/gems/katello-3.0.0.80/db/seeds.d/107-enable_dynflo
w.rb
Seeding /opt/theforeman/tfm/root/usr/share/gems/gems/katello-3.0.0.80/db/seeds.d/108-ensure_sync_n
otification.rb
Seeding /usr/share/foreman/db/seeds.d/11-smart_proxy_features.rb
Seeding /usr/share/foreman/db/seeds.d/13-compute_profiles.rb
Seeding /usr/share/foreman/db/seeds.d/15-bookmarks.rb
```

```
Seeding /usr/share/foreman/db/seeds.d/16-mail_notifications.rb
Seeding /opt/theforeman/tfm/root/usr/share/gems/gems/foreman-tasks-0.7.14.7/db/seeds.d/20-foreman_
tasks_permissions.rb
Seeding /opt/theforeman/tfm/root/usr/share/gems/gems/redhat_access-1.0.13/db/seeds.d/200-update-in
sights-roles.rb
Seeding /opt/theforeman/tfm/root/usr/share/gems/gems/foreman_bootdisk-6.1.0.3/db/seeds.d/50-bootdi
sk_templates.rb
Seeding /opt/theforeman/tfm/root/usr/share/gems/gems/foreman_discovery-5.0.0.9/db/seeds.d/50_disco
very_templates.rb
Seeding /opt/theforeman/tfm/root/usr/share/gems/gems/foreman-tasks-0.7.14.7/db/seeds.d/60-dynflow_
proxy_feature.rb
Seeding /opt/theforeman/tfm/root/usr/share/gems/gems/foreman_remote_execution-0.3.0.12/db/seeds.d/
60-ssh_proxy_feature.rb
Seeding /opt/theforeman/tfm/root/usr/share/gems/gems/foreman_discovery-5.0.0.9/db/seeds.d/60_disco
very_proxy_feature.rb
Seeding /opt/theforeman/tfm/root/usr/share/gems/gems/foreman-tasks-0.7.14.7/db/seeds.d/61-foreman_
tasks_bookmarks.rb
Seeding /opt/theforeman/tfm/root/usr/share/gems/gems/foreman_remote_execution-0.3.0.12/db/seeds.d/
70-job_templates.rb
Seeding /opt/theforeman/tfm/root/usr/share/gems/gems/katello-3.0.0.80/db/seeds.d/75-job_templates.
rb
Seeding /opt/theforeman/tfm/root/usr/share/gems/gems/foreman_remote_execution-0.3.0.12/db/seeds.d/
90-bookmarks.rb
Seeding /opt/theforeman/tfm/root/usr/share/gems/gems/foreman_theme_satellite-0.1.28/db/seeds.d/990
 - provisioning_templates.rb
....

[crash] root@li-lc-1578:~# hammer -c/opt/hoici/etc/sat6/hammer-hoici.yaml template dump --name='PX
ELinux global default'
<%#
kind: PXELinux
name: PXELinux global default
%>

<%# This template has special name (do not change it) and it is used for booting unknown hosts. %>

DEFAULT menu
PROMPT 0
MENU TITLE PXE Menu
TIMEOUT 200
TOTALTIMEOUT 6000
ONTIMEOUT local

LABEL local
    MENU LABEL (local)
    MENU DEFAULT
    LOCALBOOT 0

LABEL discovery
    MENU LABEL (discovery)
    KERNEL boot/fdi-image-rhel_7-vmlinuz
    APPEND initrd=boot/fdi-image-rhel_7-img rootflags=loop root=live:/fdi.iso rootfstype=auto ro
rd.live.image acpi=force rd.luks=0 rd.md=0 rd.dm=0 rd.lvm=0 rd.bootif=0 rd.neednet=0 nomodeset pro
xy.url=https://SATELLITE_CAPSULE_URL:9090 proxy.type=proxy
    IPAPPEND 2

<% for profile in @profiles -%>
LABEL <%= "#{profile[:template]} - #{profile[:hostgroup]}" %>
    KERNEL <%= profile[:hostgroup].operatingsystem.kernel(profile[:hostgroup].architecture) %>
<% case profile[:hostgroup].operatingsystem.pxe_type -%>
<% when 'kickstart' -%>
    APPEND initrd=<%= profile[:hostgroup].operatingsystem.initrd(profile[:hostgroup].architecture
) %> ks=<%= default_template_url(profile[:template], profile[:hostgroup]) %> ksdevice=bootif netwo
rk kssendmac
<% when 'preseed' -%>
    APPEND initrd=<%= profile[:hostgroup].operatingsystem.initrd(profile[:hostgroup].architecture
) %> interface=auto url=<%= default_template_url(profile[:template], profile[:hostgroup]) %> ramdi
```

```
sk_size=10800 root=/dev/rd/0 rw auto hostname=unassigned-hostname locale=<%= profile[:hostgroup].p
arams['lang'] || 'en_US' %> console-setup/ask_detect=false console-setup/layout=USA console-setup/
variant=USA
<% end -%>


<% end -%>
```

Version-Release number of selected component (if applicable):

Reproducible with Foreman 1.13 and nightly

How reproducible:

Always

Steps to Reproduce:
1. Edit the 'PXELinux global default'
2. Dump the 'PXELinux global default' on the console
hammer template dump --name='PXELinux global default'
3. Run rake db:seed
4. Dump the 'PXELinux global default' on the console
hammer template dump --name='PXELinux global default'

Actual results:
Content is changed to the default

Expected results:
- Upgrade process shall have logging and history appending when it overwrites content
- User can choose what template will be used as PXELinux global default (the same for other kinds) so its modified version can be kept separately and still being used.

Additional info:

There is a code that checks audit records for template but it only verifies if name was changed. The name of global templates are hardcoded so users can't just clone the default template and add custom modifications because such clone would not be deployable. Therefore we should allow user to change the hardcoded names.
We should probably also add audit log if content has changed so user can revert.

Related issues:		
Related to Foreman - Feature #7484: Per-subnet PXELinux global default files	**New**	**09/17/2014**
Related to Foreman - Bug #19677: Unable to edit localboot templates	**Closed**	**05/26/2017**

Associated revisions

Revision bc600bd6 - 02/23/2017 06:58 AM - Ondřej Pražák

Fixes #17228 - Select templates as global defaults (#4283)

This should allow user to select templates that will be used
for building PXE Default on TFTP proxy. These templates will
not be updated from seeds during updates.

Revision c08844d0 - 02/24/2017 10:00 AM - Dominic Cleal

refs #17228 - modify, don't re-define existing constant

Prevents warnings during startup:

```
app/models/setting/provisioning.rb:9: warning: already initialized constant Setting::BLANK_ATTRS
    app/models/setting.rb:13: warning: previous definition of BLANK_ATTRS was here
```

History

#1 - 11/04/2016 10:56 AM - Marek Hulán

*- Subject changed from Allow selecting a template used as global default for each kind
to Allow selecting a template used as global default for each kind*

- Category changed from TFTP to Settings

- Target version set to 115

#2 - 11/08/2016 03:31 AM - Dominic Cleal

- Related to Feature #7484: Per-subnet PXELinux global default files added

#3 - 11/08/2016 03:33 AM - Dominic Cleal

The text of this ticket is reporting a bug about how templates are being changed on seed, which is likely introduced by #15416, but the title doesn't match. They should probably be filed separately, as the seed issue appears valid (settings/changing the template is related to #7484).

#4 - 11/08/2016 03:53 AM - Marek Hulán

That was intentional. The text of the ticket gives background why we need to make the name of template configurable, hence the ticket subject. I think changing of the template was intentional, so this ticket does not aim to change that behavior. The #7484 asks for global template per subnet which I think is advanced and even conflicts with **global** template functionality.

#5 - 11/08/2016 09:47 AM - Marek Hulán

- Target version changed from 115 to 1.4.4

#6 - 11/29/2016 08:54 AM - Marek Hulán

- Target version changed from 1.4.4 to 1.10.1

#7 - 01/03/2017 08:21 AM - Marek Hulán

- Target version changed from 1.10.1 to 1.10.2

#8 - 01/10/2017 08:28 AM - Marek Hulán

- Target version changed from 1.10.2 to 1.11.2

#9 - 01/31/2017 04:17 AM - Ondřej Pražák

- Assignee set to Ondřej Pražák

#10 - 02/09/2017 08:15 AM - Marek Hulán

- Target version changed from 1.11.2 to 1.11.4

#11 - 02/14/2017 07:42 AM - The Foreman Bot

- Status changed from New to Ready For Testing

- Pull request https://github.com/theforeman/foreman/pull/4283 added

#12 - 02/21/2017 10:21 AM - Marek Hulán

- Target version changed from 1.11.4 to 1.12.1

#13 - 02/23/2017 07:01 AM - Anonymous

- Status changed from Ready For Testing to Closed

- % Done changed from 0 to 100

Applied in changeset bc600bd637d3aff9d7221aa3f28160882cbe5d98.

#14 - 02/23/2017 10:17 AM - Dominic Cleal

- Tracker changed from Bug to Feature

- Category changed from Settings to Templates

- translation missing: en.field_release set to 209

#15 - 02/24/2017 08:46 AM - The Foreman Bot

- Pull request https://github.com/theforeman/foreman/pull/4331 added

#16 - 05/26/2017 04:42 AM - Dominic Cleal

- Related to Bug #19677: Unable to edit localboot templates added