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

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

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

[crash] root@li-lc-1578:~# hammer -c/opt/hoici/etc/sat6/hammer-hoici.yaml template dump --name='PXELinux 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] 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_notifications.rb
Seeding /opt/theforeman/tfm/root/usr/share/gems/gems/katello-3.0.0.80/db/seeds.d/107-enable_dynflow.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-insights-roles.rb
Seeding /opt/theforeman/tfm/root/usr/share/gems/gems/foreman_bootdisk-6.1.0.3/db/seeds.d/50-bootdisk_templates.rb
Seeding /opt/theforeman/tfm/root/usr/share/gems/gems/foreman_discovery-5.0.0.9/db/seeds.d/50_discovery_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_discovery_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_discovery-5.0.0.9/db/seeds.d/990 - provisioning_templates.rb

[crash] root@li-lc-1578:~# hammer -c/opt/hoici/etc/sat6/hammer-hoici.yaml template dump --name='PXELinux 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-vmlinux
    APPEND initrd=boot/fdi-image-rhel_7-img rootflags=loop root=live:/fdi.iso rootflags=auto ro
r
    rd.live.image acpi=force rd.luks=0 rd.dm=0 rd.lvm=0 rd.bootif=0 rd.neednet=0 nomodeset proxy.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]) %>
<% device=bootif network kssendmac

03/25/2022 2/5
<% when 'preseed' -%>

APPEND initrd=<%= profile[:hostgroup].operatingsystem.initrd(profile[:hostgroup].architecture) %>
interface=auto url=<%= default_template_url(profile[:template], profile[:hostgroup]) %>
ramdisk_size=10800 root=/dev/rd/0 rw auto hostname=unassigned-hostname locale=<%= profile[:hostgroup].params['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.

<table>
<thead>
<tr>
<th>Related issues:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Related to Foreman - Feature #7484: Per-subnet PXELinux global default files</td>
</tr>
<tr>
<td>Related to Foreman - Bug #19677: Unable to edit localboot templates</td>
</tr>
</tbody>
</table>

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
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
#14 - 02/23/2017 10:17 AM - Dominic Cleal
- Tracker changed from Bug to Feature
- Category changed from Settings to Templates
- Legacy Backlogs Release (now unused) 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