

Foreman - Bug #36626

Template render error when no PXELoader is selected

08/01/2023 06:36 AM - Leos Stejskal

Status:	Ready For Testing	
Priority:	Normal	
Assignee:	Leos Stejskal	
Category:	Templates	
Target version:		
Difficulty:		Fixed in Releases:
Triaged:	No	Found in Releases:
Bugzilla link:	2225129	Red Hat JIRA:
Pull request:	https://github.com/theforeman/foreman/pull/9993	

Description

Cloned from https://bugzilla.redhat.com/show_bug.cgi?id=2225129

Steps to Reproduce:

1. Install and configure a Foreman for PXELess discovery-based deployment
2. Setup Hostgroups and discovery rules as per <https://www.redhat.com/en/blog/provisioning-discovery-rules-red-hat-satellite-6>
3. Ensure that the PXELoader is unselected in the Hostgroup i.e. blank\nil.
4. You can use either Discovery ISO or boot the blank system from network to get the Discovery many and start booting from Discovery
5. As soon as it shows the message about auto-discovery, hit some key to interrupt the process and then on the next screen, use DHCP or Static discovery options.

This interruption will ensure that kexec happens at the end.

6. Monitor the overall process.

Actual results:

Host is discovered, a new host profile is created and submitted for build but kexec would not be possible due to the following traceback

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2023-07-24T15:55:49 [W|app|75f82e89] Unable render or parse kexec template, must be valid JSON

2023-07-24T15:55:49 [I|app|75f82e89] Backtrace for 'Unable render or parse kexec template, must be valid JSON' error (NoMethodError): undefined method `include?' for nil:NilClass

75f82e89 | Discovery Red Hat kexec:17:in `get_binding'

75f82e89 | /usr/share/ruby/erb.rb:905:in `eval'

```
75f82e89 | /usr/share/foreman/app/services/foreman/renderer/unsafe_mode_renderer.rb:7:in `render'
75f82e89 | /usr/share/foreman/app/services/foreman/renderer/base_renderer.rb:18:in `render'
75f82e89 | /usr/share/foreman/app/services/foreman/renderer.rb:46:in `render'
75f82e89 | /usr/share/foreman/app/models/template.rb:172:in `render'
75f82e89 | /usr/share/foreman/app/models/host/base.rb:348:in `render_template'
75f82e89 | /usr/share/gems/gems/foreman_discovery-21.0.5/app/models/host/managed_extensions.rb:48:in `render_kexec_template'
75f82e89 | /usr/share/gems/gems/foreman_discovery-21.0.5/app/models/host/managed_extensions.rb:58:in `setKexec'
75f82e89 | /usr/share/foreman/app/models/concerns/orchestration.rb:227:in `execute'
~
```

Reason: The Hostgroup has no PXE Loader selected and hence Host also inherited a null value but

https://github.com/theforeman/foreman/blob/develop/app/views/unattended/provisioning_templates/discovery/redhat_kexec.erb#L48 expects some loader to be selected so that it can search for the "SecureBoot" string.

```
extra << "--kexec-file-syscall" if @host.pxe_loader.include?('SecureBoot')
```

Expected results:

No such issues. Discovery Kexec should happen even if no PXELoaders are selected.

Additional info:

We can solve it in two ways:

- Select the PXE Loader as "None" instead of leaving it blank. This allows both LEGacy BIOS and UEFI builds to happen without needing to specify any related loaders for the hostgroup or host.
- [least preferable option i guess]

Change

```
extra << "--kexec-file-syscall" if @host.pxe_loader.include?('SecureBoot')
```

to

```
extra << "--kexec-file-syscall" if @host.pxe_loader && @host.pxe_loader.include?('SecureBoot')
```

And then leaving the PXELoader blank\unselected will work.

[But I still prefer to select None instead of this change]

History

#1 - 08/01/2023 06:37 AM - Leos Stejskal

- Subject changed from *Template render error when no PXELoader is selected* to *Template render error when no PXELoader is selected*
- Category set to *Templates*
- Assignee set to *Leos Stejskal*

#2 - 08/01/2023 06:52 AM - The Foreman Bot

- Status changed from *New* to *Ready For Testing*
- Pull request <https://github.com/theforeman/foreman/pull/9785> added

#3 - 01/15/2024 09:00 AM - The Foreman Bot

- Pull request <https://github.com/theforeman/foreman/pull/9993> added

#4 - 01/15/2024 09:00 AM - The Foreman Bot

- Pull request deleted (<https://github.com/theforeman/foreman/pull/9785>, <https://github.com/theforeman/foreman/pull/9993>)

#5 - 01/29/2024 08:37 AM - The Foreman Bot

- Pull request <https://github.com/theforeman/foreman/pull/9993> added