

## Foreman - Bug #35917

### PXE boot with GRUB2 fails, "linuxefi" and "initrdefi" deprecated

01/10/2023 07:19 PM - Zailo Leite

<b>Status:</b> New	
<b>Priority:</b> Urgent	
<b>Assignee:</b>	
<b>Category:</b>	
<b>Target version:</b>	
<b>Difficulty:</b>	<b>Fixed in Releases:</b>
<b>Triaged:</b> No	<b>Found in Releases:</b>
<b>Bugzilla link:</b>	<b>Red Hat JIRA:</b>
<b>Pull request:</b>	
<b>Description</b> "linuxefi" and "initrdefi" are not available in RHEL8, Once foreman-installer copies grubx64.efi from the foreman host (supposedly RHEL8 on current foreman) to /var/lib/tftpboot/grub2 provisioning and discovery PXE GRUB2 boot fails. Since foreman in RHEL7 is deprecated the references to "linuxefi" and "initrdefi" should be removed from the templates.  Example patch attached.	

#### History

##### #1 - 01/10/2023 07:24 PM - Zailo Leite

- Description updated

##### #2 - 01/10/2023 07:27 PM - Zailo Leite

- File Kickstart\_default\_PXEGrub2.patch added

- Description updated

##### #3 - 01/10/2023 07:29 PM - Zailo Leite

- Description updated

##### #4 - 01/10/2023 07:29 PM - Zailo Leite

- Description updated

##### #5 - 01/10/2023 10:39 PM - Ewoud Kohl van Wijngaarden

Reading the source, this should automatically happen already if the OS has a proper major version set. Your patch should have no effect on EL7+.

Can you share what the OS major is set to for you?

##### #6 - 01/10/2023 11:02 PM - Zailo Leite

The foreman host is 8.7

I'm not sure if I follow. The default template creates an output like:

```
=====  
if [ ${grub_platform} "pc" ]; then  
menuentry 'Foreman Discovery Image' --id discovery {  
linux boot/fdi-image/vmlinuz0 ${common}  
initrd boot/fdi-image/initrd0.img  
}  
else  
menuentry 'Foreman Discovery Image EFI' --id discovery {  
linuxefi boot/fdi-image/vmlinuz0 ${common}  
initrdefi boot/fdi-image/initrd0.img  
}  
fi  
====
```

This will fail with with grubx64.efi from grub2-efi-x64-2.02-142 .

#### #7 - 01/10/2023 11:04 PM - Zailo Leite

Typical error is:

error: ../../grub-core/script/lexer.c:352:syntax error.

error: ../../grub-core/script/lexer.c:352:Incorrect command.

#### #8 - 01/10/2023 11:40 PM - Ewoud Kohl van Wijngaarden

I was asking about the Operating System as you have configured it in the application itself. Every host in Foreman is assigned an Operating System and that has a major version.

However, now that I reread it I wonder if the code is correct.

Either way, submitting it as a pull request on GitHub allows for proper discussion. Patches in Redmine typically get lost.

#### #9 - 01/11/2023 03:17 AM - Zailo Leite

Created <https://github.com/theforeman/foreman/pull/9580>

#### Files

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Kickstart_default_PXEGrub2.patch	2.16 KB	01/10/2023	Zailo Leite
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