

## Foreman - Bug #37184

### Satellite "Registered Content Hosts" report generates incorrect hosts' kernel version

02/20/2024 06:26 AM - Hao Yu

<b>Status:</b>	Closed	
<b>Priority:</b>	Normal	
<b>Assignee:</b>	Hao Yu	
<b>Category:</b>	Reporting	
<b>Target version:</b>		
<b>Difficulty:</b>	easy	<b>Fixed in Releases:</b> 3.10.0, 3.11.0
<b>Triaged:</b>	No	<b>Found in Releases:</b>
<b>Bugzilla link:</b>	2265062	<b>Red Hat JIRA:</b>
<b>Pull request:</b>	<a href="https://github.com/theforeman/foreman/pull/10056">https://github.com/theforeman/foreman/pull/10056</a> , <a href="https://github.com/theforeman/foreman/pull/10103">https://github.com/theforeman/foreman/pull/10103</a>	

#### Description

Cloned from bugzilla [https://bugzilla.redhat.com/show\\_bug.cgi?id=2265062](https://bugzilla.redhat.com/show_bug.cgi?id=2265062)

#### Description of problem:

Old or incorrect host kernel versions are printed in the generated report.

Multiple services are reporting kernel version facts to the Satellite, such as Ansible, Puppet and RHSM. While resolving the kernel version for a host, Satellite will pick the first one order by fact type. Since "Ansible" starts with 'A', kernel version reported by Ansible will normally be picked. If Ansible roles job is not run after the last host kernel update, then old or wrong kernel version will be reported.

#### How reproducible:

Easy

#### Steps to Reproduce:

1. Register a host to the Satellite.
2. Run Ansible roles against the host
3. Update the kernel of the host

#### Actual results:

Report template generated the old kernel version of the host.

#### Expected results:

Report template generated the upgraded kernel version of the host.

#### Additional info:

We can run the following hammer command to query all reported kernel versions of a host.

```
hammer fact list --search "host = content_host.example.com and (name = kernelrelease or name = ansible_kernel or name = kernel::release or name = uname::release) "
```

As we can see in the example below, Ansible fact has the outdated kernel version.

HOST	FACT	VALUE
content_host.example.com	ansible_kernel	3.10.0-1062.4.1.el7.x86_64 <=====
content_host.example.com	uname::release	3.10.0-1160.105.1.el7.x86_64

As we can see below, the results are sorted by "fact\_names.type" which means Ansible fact type always took precedence over other

fact types.

```
# /usr/share/foreman/app/models/host/base.rb
module Host
  class Base < ApplicationRecord
    <snip>
    has_one :kernel_release, -> { joins(:fact_name).where({ 'fact_names.name' => KERNEL_RELEASE_FACTS }).order('fact_names.type') }, :class_name => '::FactValue', :foreign_key => 'host_id'
```

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## Associated revisions

### Revision 459f70c4 - 02/26/2024 09:53 AM - Hao Yu

Fixes #37184 - Report template generates incorrect kernel version

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## History

### #1 - 02/20/2024 06:28 AM - Hao Yu

- Description updated

### #2 - 02/20/2024 07:19 AM - The Foreman Bot

- Status changed from New to Ready For Testing

- Assignee set to Hao Yu

- Pull request <https://github.com/theforeman/foreman/pull/10056> added

### #3 - 02/26/2024 09:53 AM - The Foreman Bot

- Fixed in Releases 3.11.0 added

### #4 - 02/26/2024 10:00 AM - Hao Yu

- Status changed from Ready For Testing to Closed

Applied in changeset [foreman|459f70c4f78d75e9948dab437b484319f38fb4aa](#).

### #5 - 03/19/2024 02:18 PM - The Foreman Bot

- Pull request <https://github.com/theforeman/foreman/pull/10103> added

### #6 - 03/20/2024 06:03 PM - The Foreman Bot

- Fixed in Releases 3.10.0 added