Compute Resource cannot list the VMs if any VMs in the datacenter has config.instanceUuid set to "".

When trying see the VMs from Virtual Machines tab of a Vmware Compute Resource, It shows "500 Internal Server" error.

Under specific circumstances i.e when the value of instanceUuid of any VM in the concerned datacenter is set to "

Steps to Reproduce:
1. Have a VM created in vCenter in a way that it's config.uuid and config.instanceUuid looks like below.
   ```
   name = '/vmfs/volumes/60d169e5-cbe0d537-c0b3-94f128c38630/sandbox02/sandbox02.vmx',
   guestFullName = 'Other (32-bit)',
   version = 'vmx-13',
   uuid = '',
   instanceUuid = '',
   ```
2. Create a VMware Compute Resource in Satellite for that Datacenter where above VM resides.
3. Go to UI --> Infrastructure --> Compute Resources --> Click open the compute resource and go to the Virtual Machines tab

Actual results:
At Step 3: We can see 500 Internal Server error.

Rails debug shows following traceback in production.log

```
```

Bugzilla link: 2000534
Expected results:
The satellite should be able to bypass the problematic VMs and then provide us with the list of good VMs utilizing the compute resource connectivity.

Additional info:
Following is the code we have.

```
1. grep 'vms =' /usr/share/foreman/app/services/fog_extensions/vsphere/mini_servers.rb
   vms = results.select { |result| result.obj.is_a?(RbVmomi::VIM::VirtualMachine) && result['config.template'] == templates && !result['config.instanceUuid'].nil? }
```

Based on discussion with the RH Engineering team, we needed to change it to look like below followed by a restart of satellite services and that fixed the issue.

```
1. grep 'vms =' /usr/share/foreman/app/services/fog_extensions/vsphere/mini_servers.rb
   vms = results.select { |result| result.obj.is_a?(RbVmomi::VIM::VirtualMachine) && result['config.template'] == templates && result['config.instanceUuid'].present? }
```

Related issues:
Related to Foreman - Bug #25295: VSphere vm with id==nil breaks listing of vm... Closed

Associated revisions
Revision 69dcf938 - 09/02/2021 07:08 PM - Tomer Brisker
Fixes #33396 - Filter out vms with missing instanceUid

The previous fix handled cases where the instanceUuid was set to nil, but in some cases it could be set to an empty string.

History
#1 - 09/02/2021 11:04 AM - Tomer Brisker
- Subject changed from Compute Resource cannot list the VMs if any VMs in the datacenter has config.instanceUuid set to " in Satellite 6.7 and above to Compute Resource cannot list the VMs if any VMs in the datacenter has config.instanceUuid set to "

#2 - 09/02/2021 11:07 AM - Tomer Brisker
- Related to Bug #25295: VSphere vm with id==nil breaks listing of vmware vms in compute resources added

#3 - 09/02/2021 11:09 AM - The Foreman Bot
- Assignee set to Tomer Brisker

03/09/2022
Status changed from New to Ready For Testing
Pull request https://github.com/theforeman/foreman/pull/8754 added

#4 - 09/02/2021 07:08 PM - The Foreman Bot
- Fixed in Releases 3.1.0 added

#5 - 09/02/2021 08:08 PM - Tomer Brisker
- Status changed from Ready For Testing to Closed

Applied in changeset foreman|69dfc93863f876d6c678a4d24c2c0495e2d1e856.

#6 - 09/08/2021 09:23 AM - The Foreman Bot
- Pull request https://github.com/theforeman/foreman/pull/8770 added

#7 - 09/08/2021 10:02 AM - Ewoud Kohl van Wijngaarden
- Triaged changed from No to Yes
- Target version set to 3.0.1

Setting 3.0.1 now but can also be picked to 2.5.

#8 - 09/15/2021 02:01 PM - Ondřej Ezr
- Fixed in Releases 3.0.1 added