**Foreman - Bug #23382**

**Editing Smart Class Parameter of type YAML creates malformed value in release 1.17.0**

04/24/2018 02:58 PM - Vadim Bulst

<table>
<thead>
<tr>
<th>Status:</th>
<th>Closed</th>
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</thead>
<tbody>
<tr>
<td>Priority:</td>
<td>Urgent</td>
</tr>
<tr>
<td>Assignee:</td>
<td>Daniel Lobato Garcia</td>
</tr>
<tr>
<td>Category:</td>
<td>Parameters</td>
</tr>
<tr>
<td>Target version:</td>
<td>1.17.2</td>
</tr>
<tr>
<td>Triaged:</td>
<td>No</td>
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<tr>
<td>Bugzilla link:</td>
<td>Found in Releases: 1.17.0</td>
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</tbody>
</table>

**Description**

When defining smart class parameter values with type YAML and submitted in GUI an Ruby error message gets prepended for each array entry.

Defining an YAML-Array like:

```yaml
---
- name: foo
  mount_point: /bar
- name: john
  mount_point: /doe
```

gets saved as:

```ruby
- `!ruby/hash:ActiveSupport::HashWithIndifferentAccess`name: foo  
mount_point: "/bar"
- `!ruby/hash:ActiveSupport::HashWithIndifferentAccess`name: john  
mount_point: "/doe"
```

Just a very simple example our YAML are much more complex. This error appears since the upgrade from 1.16.1 to 1.17.0.

As we need this system for production, we can leave this installation like it is for debugging purposes for a maximum of 36hours.

**HOSTNAME:** urzlxdeploy.rz.uni-leipzig.de  
**OS:** redhat  
**RELEASE:** CentOS Linux release 7.4.1708 (Core)  
**FOREMAN:** 1.17.0  
**RUBY:** ruby 2.0.0p648 (2015-12-16) [x86_64-linux]  
**PUPPET:** 4.10.11  
**DENIALS:** 0

**Related issues:**

- Related to Foreman - Bug #23581: Upgrade to Foreman 1.17 converts YAML to JSO...  
  Resolved  
- Has duplicate Foreman - Bug #23463: YAML rendering of external nodes generate...  
  Duplicate  
  04/30/2018

03/27/2022 1/4
Definition in YAML-Array like:

```yaml
---
- name: foo
  mount_point: /bar
- name: john
  mount_point: /doe
```

is shown on the ENC as:

```
- !ruby/hash:ActiveSupport::HashWithIndifferentAccess
  name: foo
  mount_point: "/bar"
- !ruby/hash:ActiveSupport::HashWithIndifferentAccess
  name: john
  mount_point: "/doe"
```

In order to avoid parsing the whole YAML or monkeypatching HashWithIndifferentAccess the easiest workaround is to convert to JSON then parse back to YAML.

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History

#1 - 04/30/2018 04:16 PM - Anonymous
- Related to Bug #23463: YAML rendering of external nodes generates incorrect data if hashes are used added

#2 - 05/05/2018 12:53 AM - Anonymous
- Legacy Backlogs Release (now unused) changed from 296 to 297

I think this is [https://github.com/rails/rails/issues/29013](https://github.com/rails/rails/issues/29013) a fix was merged to Rails 5.1 branch and will be part of Rails 5.1.7, which is not yet released...

#3 - 05/16/2018 06:46 PM - Anonymous
Is there any quick fix? I have upgraded to 1.17.0 recently and now all my Puppet manifests fail because the hashes are malformed? Rails 5.1.7 isn't going to be released anytime soon, so I guess we need a fix for that. Couldn't we just revert the change that introduced this issue from 1.16.x to 1.17.0?
#4 - 05/17/2018 10:54 AM - Tomer Brisker
- Legacy Backlogs Release (now unused) changed from 297 to 360

Pushing out to 1.17.2, this won't be fixed in time for 1.17.1.

#5 - 05/17/2018 05:06 PM - Anonymous
Well I fixed this in the meantime by manually editing the rails file as mentioned by Michael. Can't we just provide a patched rails release via the foreman repos?

#6 - 05/25/2018 08:19 AM - Tobias Ehrig
The fix mentioned by Henry Spanka doesn't work for me. (Debian Stretch installed via DEB Repositoy)

#7 - 05/25/2018 01:44 PM - Anonymous
@Tobias: Have you restarted foreman (Webserver) after applying the fix? Note that you also need to edit the classes again and just save the parameters again so they are correctly stored in the database. It is not required to change them but you need to resave them.

#8 - 05/29/2018 08:23 AM - Tobias Ehrig
@Henry: Yes, I've restarted the whole box. After the fix, the array values are displayed fine - without escaped doublequotes - but the puppet agent still failed with the exception above.

#9 - 07/03/2018 07:17 AM - Tomer Brisker
- Related to Bug #23581: Upgrade to Foreman 1.17 converts YAML to JSON Hash added

#10 - 07/04/2018 10:19 AM - Daniel Lobato Garcia
- Triaged set to No

I'm trying hard to reproduce this, but even complex hashes seem to be rendered properly. For example:

classes:
  dhcp:
    bootfiles:
      override_value:
        match: fqdn=server.example.com
        value:
          testvg:
            physical_volumes:
              - "/dev/sdb"
              - "//dev/sdc"
          logical_volumes:
            test1:
              size: 128M
              mountpath: "/opt/test1"
            test2:
              size: 128M
              mountpath: "/opt/test2"
            test3:
              size: 128M
              mountpath: "/opt/test3"
            test4:
              size: 128M
              mountpath: "/opt/test4"
            test5:
              size: 128M
              mountpath: "/opt/test5"
I do see it now, with Arrays:

classes:
  dhcp:
    bootfiles:
    - !ruby/hash:ActiveSupport::HashWithIndifferentAccess
      name: foo
      mount_point: "/bar"
    - !ruby/hash:ActiveSupport::HashWithIndifferentAccess
      name: john
      mount_point: "/doe"

JSON.parse(@host.info.to_json).to_yaml(:line_width => -1)

- using this in hosts_controller, on the externalNodes method works well