

SELinux - Bug #32299

Installation of Katello 4 RC3 fails when --foreman-proxy-ssl-port is not set to default 9090

04/12/2021 06:27 PM - Matthew Smith

Status: New	
Priority: Normal	
Assignee:	
Category: General Foreman	
Target version:	
Difficulty:	Fixed in Releases:
Triaged: No	Found in Releases: Katello 4.0.0
Bugzilla link:	Red Hat JIRA:
Pull request:	
Description	
Hi,	
Katello 4 installation completes without any error when using the default foreman-proxy ssl port of 9090, however when using a custom port with the argument --foreman-proxy-ssl-port "9093" the installation fails with the following:	
.	
.	
.	
2021-04-12 19:02:57 [NOTICE] [configure] 2200 out of 2289 done.	
2021-04-12 19:03:05 [ERROR] [configure] Error making PUT request to https://katello.mnsmithuk/api/v2/smart_proxies/1/refresh : Response: 500 Internal Server Error: Check /var/log/foreman/production.log on Foreman server for detailed information	
2021-04-12 19:03:05 [ERROR] [configure] /Stage[main]/Foreman_proxy::Register/Foreman_smartproxy[katello.mnsmithuk]/features: change from ["Ansible", "BMC", "DHCP", "DNS", "Discovery", "Dynflow", "Logs", "Pulpcore", "Puppet", "Puppet CA", "Registration", "SSH", "TFTP"] to ["Ansible", "BMC", "DHCP", "DNS", "Discovery", "Dynflow", "HTTPBoot", "Logs", "Pulpcore", "Puppet", "Puppet CA", "Registration", "SSH", "TFTP"] failed: Error making PUT request to https://katello.mnsmithuk/api/v2/smart_proxies/1/refresh : Response: 500 Internal Server Error: Check /var/log/foreman/production.log on Foreman server for detailed information	
2021-04-12 19:03:05 [ERROR] [configure] Error making PUT request to Foreman at https://katello.mnsmithuk/api/v2/smart_proxies/1 : Response: 422 Unprocessable Entity	
2021-04-12 19:03:05 [ERROR] [configure] /Stage[main]/Foreman_proxy::Register/Foreman_smartproxy[katello.mnsmithuk]/url: change from 'https://katello.mnsmithuk:9090' to 'https://katello.mnsmithuk:9093' failed: Error making PUT request to Foreman at https://katello.mnsmithuk/api/v2/smart_proxies/1 : Response: 422 Unprocessable Entity	
2021-04-12 19:03:05 [ERROR] [configure] /Stage[main]/Foreman_proxy::Register/Foreman_smartproxy[katello.mnsmithuk]: Failed to call refresh: Error making PUT request to https://katello.mnsmithuk/api/v2/smart_proxies/1/refresh : Response: 500 Internal Server Error: Check /var/log/foreman/production.log on Foreman server for detailed information	
2021-04-12 19:03:05 [ERROR] [configure] /Stage[main]/Foreman_proxy::Register/Foreman_smartproxy[katello.mnsmithuk]: Error making PUT request to https://katello.mnsmithuk/api/v2/smart_proxies/1/refresh : Response: 500 Internal Server Error: Check /var/log/foreman/production.log on Foreman server for detailed information	
2021-04-12 19:03:07 [NOTICE] [configure] System configuration has finished.	
There were errors detected during install.	
Please address the errors and re-run the installer to ensure the system is properly configured.	
Failing to do so is likely to result in broken functionality.	
The full log is at /var/log/foreman-installer/katello.log	
Below is the extract from katello.log	
2021-04-12 19:03:02 [DEBUG] [configure] /Stage[main]/Foreman_proxy::Register/Datacat_collector[foreman_proxy::enabled_features]: Evaluated in 0.01 seconds	
2021-04-12 19:03:02 [DEBUG] [configure] /Stage[main]/Foreman_proxy::Register/Foreman_smartproxy[katello.mnsmithuk]: Starting to evaluate the resource (2265 of 2289)	
2021-04-12 19:03:02 [DEBUG] [configure] Foreman_smartproxy[katello.mnsmithuk](provider=rest_v3): Making get request to https://katello.mnsmithuk/api/v2/smart_proxies?search=name%3D%22katello.mnsmithuk%22	
2021-04-12 19:03:05 [DEBUG] [configure] Foreman_smartproxy[katello.mnsmithuk](provider=rest_v3): Received response 200 from request to https://katello.mnsmithuk/api/v2/smart_proxies?search=name%3D%22katello.mnsmithuk%22	
2021-04-12 19:03:05 [DEBUG] [configure] Foreman_smartproxy[katello.mnsmithuk](provider=rest_v3): Making put request to	

https://katello.mnsmithuk/api/v2/smart_proxies/1/refresh

2021-04-12 19:03:05 [DEBUG] [configure] Foreman_smartproxy[katello.mnsmithuk](provider=rest_v3): Received response 500 from request to https://katello.mnsmithuk/api/v2/smart_proxies/1/refresh

2021-04-12 19:03:05 [ERROR] [configure] Error making PUT request to https://katello.mnsmithuk/api/v2/smart_proxies/1/refresh: Response: 500 Internal Server Error: Check /var/log/foreman/production.log on Foreman server for detailed information

2021-04-12 19:03:05 [ERROR] [configure]

/Stage[main]/Foreman_proxy::Register/Foreman_smartproxy[katello.mnsmithuk]/features: change from ["Ansible", "BMC", "DHCP", "DNS", "Discovery", "Dynflow", "Logs", "Pulpcore", "Puppet", "Puppet CA", "Registration", "SSH", "TFTP"] to ["Ansible", "BMC", "DHCP", "DNS", "Discovery", "Dynflow", "HTTPBoot", "Logs", "Pulpcore", "Puppet", "Puppet CA", "Registration", "SSH", "TFTP"]

failed: Error making PUT request to https://katello.mnsmithuk/api/v2/smart_proxies/1/refresh: Response: 500 Internal Server Error: Check /var/log/foreman/production.log on Foreman server for detailed information

2021-04-12 19:03:05 [DEBUG] [configure] Foreman_smartproxy[katello.mnsmithuk](provider=rest_v3): Making put request to https://katello.mnsmithuk/api/v2/smart_proxies/1

2021-04-12 19:03:05 [DEBUG] [configure] Foreman_smartproxy[katello.mnsmithuk](provider=rest_v3): Received response 422 from request to https://katello.mnsmithuk/api/v2/smart_proxies/1

2021-04-12 19:03:05 [ERROR] [configure] Error making PUT request to Foreman at https://katello.mnsmithuk/api/v2/smart_proxies/1: Response: 422 Unprocessable Entity

2021-04-12 19:03:05 [ERROR] [configure] /Stage[main]/Foreman_proxy::Register/Foreman_smartproxy[katello.mnsmithuk]/url: change from 'https://katello.mnsmithuk:9090' to 'https://katello.mnsmithuk:9093' failed: Error making PUT request to Foreman at https://katello.mnsmithuk/api/v2/smart_proxies/1: Response: 422 Unprocessable Entity

2021-04-12 19:03:05 [DEBUG] [configure] Foreman_smartproxy[katello.mnsmithuk](provider=rest_v3): Making put request to https://katello.mnsmithuk/api/v2/smart_proxies/1/refresh

2021-04-12 19:03:05 [DEBUG] [configure] Foreman_smartproxy[katello.mnsmithuk](provider=rest_v3): Received response 500 from request to https://katello.mnsmithuk/api/v2/smart_proxies/1/refresh

2021-04-12 19:03:05 [ERROR] [configure] /Stage[main]/Foreman_proxy::Register/Foreman_smartproxy[katello.mnsmithuk]: Failed to call refresh: Error making PUT request to https://katello.mnsmithuk/api/v2/smart_proxies/1/refresh: Response: 500 Internal Server Error: Check /var/log/foreman/production.log on Foreman server for detailed information

2021-04-12 19:03:05 [ERROR] [configure] /Stage[main]/Foreman_proxy::Register/Foreman_smartproxy[katello.mnsmithuk]: Error making PUT request to https://katello.mnsmithuk/api/v2/smart_proxies/1/refresh: Response: 500 Internal Server Error: Check /var/log/foreman/production.log on Foreman server for detailed information

2021-04-12 19:03:05 [ERROR] [configure] /Stage[main]/Foreman_proxy::Register/Foreman_smartproxy[katello.mnsmithuk]: Error making PUT request to https://katello.mnsmithuk/api/v2/smart_proxies/1/refresh: Response: 500 Internal Server Error: Check /var/log/foreman/production.log on Foreman server for detailed information

2021-04-12 19:03:05 [DEBUG] [configure] /Stage[main]/Foreman_proxy::Register/Foreman_smartproxy[katello.mnsmithuk]: Evaluated in 3.47 seconds

2021-04-12 19:03:05 [DEBUG] [configure] Class[Foreman_proxy::Register]: Starting to evaluate the resource (2266 of 2289)

2021-04-12 19:03:05 [DEBUG] [configure] Class[Foreman_proxy::Register]: Resource is being skipped, unscheduling all events

2021-04-12 19:03:05 [DEBUG] [configure] Class[Foreman_proxy::Register]: Evaluated in 0.00 seconds

2021-04-12 19:03:05 [DEBUG] [configure] Class[Foreman_proxy]: Starting to evaluate the resource (2267 of 2289)

2021-04-12 19:03:05 [DEBUG] [configure] Class[Foreman_proxy]: Resource is being skipped, unscheduling all events

2021-04-12 19:03:05 [DEBUG] [configure] Class[Foreman_proxy]: Unscheduling all events on Class[Foreman_proxy]

2021-04-12 19:03:05 [DEBUG] [configure] Class[Foreman_proxy]: Evaluated in 0.00 seconds

History

#1 - 04/14/2021 05:47 PM - Chris Roberts

- Project changed from Katello to Installer

- Category set to Foreman modules

Moving to installer, since it is related to puppet-foreman-proxy

#2 - 04/20/2021 03:05 PM - Ewoud Kohl van Wijngaarden

I wonder if this has something to do with the SELinux policy. Can you check for denials? I usually grep for AVC in /var/log/audit/audit.log but I think ausearch can also be used.

#3 - 04/24/2021 10:29 AM - Matthew Smith

Ewoud Kohl van Wijngaarden wrote:

I wonder if this has something to do with the SELinux policy. Can you check for denials? I usually grep for AVC in /var/log/audit/audit.log but I think ausearch can also be used.

Hi Ewoud,

I just reinstalled and grepped AVC as suggested. Here is the output below.

```
[root@katello ~]# grep AVC /var/log/audit/audit.log
```

```
type=USER_AVC msg=audit(1619257981.018:338): pid=1607 uid=81 auid=4294967295 ses=4294967295
```

```
subj=system_u:system_r:system_dbusd_t:s0-s0:c0.c1023 msg='avc: received policyload notice (seqno=2) exe="/usr/bin/dbus-daemon" sauid=81
```

hostname=? addr=? terminal=?
type=USER_AVC msg=audit(1619258089.614:522): pid=1607 uid=81 auid=4294967295 ses=4294967295
subj=system_u:system_r:system_dbusd_t:s0-s0:c0.c1023 msg=avc: received policyload notice (seqno=3) exe="/usr/bin/dbus-daemon" sauid=81
hostname=? addr=? terminal=?
type=USER_AVC msg=audit(1619258416.392:154): pid=845 uid=81 auid=4294967295 ses=4294967295
subj=system_u:system_r:system_dbusd_t:s0-s0:c0.c1023 msg=avc: received policyload notice (seqno=2) exe="/usr/bin/dbus-daemon" sauid=81
hostname=? addr=? terminal=?
type=USER_AVC msg=audit(1619258563.872:443): pid=845 uid=81 auid=4294967295 ses=4294967295
subj=system_u:system_r:system_dbusd_t:s0-s0:c0.c1023 msg=avc: received policyload notice (seqno=3) exe="/usr/bin/dbus-daemon" sauid=81
hostname=? addr=? terminal=?
type=USER_AVC msg=audit(1619258568.859:453): pid=845 uid=81 auid=4294967295 ses=4294967295
subj=system_u:system_r:system_dbusd_t:s0-s0:c0.c1023 msg=avc: received policyload notice (seqno=4) exe="/usr/bin/dbus-daemon" sauid=81
hostname=? addr=? terminal=?
type=USER_AVC msg=audit(1619258571.290:456): pid=845 uid=81 auid=4294967295 ses=4294967295
subj=system_u:system_r:system_dbusd_t:s0-s0:c0.c1023 msg=avc: received policyload notice (seqno=5) exe="/usr/bin/dbus-daemon" sauid=81
hostname=? addr=? terminal=?
type=USER_AVC msg=audit(1619258582.033:462): pid=845 uid=81 auid=4294967295 ses=4294967295
subj=system_u:system_r:system_dbusd_t:s0-s0:c0.c1023 msg=avc: received policyload notice (seqno=6) exe="/usr/bin/dbus-daemon" sauid=81
hostname=? addr=? terminal=?
type=USER_AVC msg=audit(1619258599.595:470): pid=845 uid=81 auid=4294967295 ses=4294967295
subj=system_u:system_r:system_dbusd_t:s0-s0:c0.c1023 msg=avc: received policyload notice (seqno=7) exe="/usr/bin/dbus-daemon" sauid=81
hostname=? addr=? terminal=?
type=USER_AVC msg=audit(1619258600.332:473): pid=845 uid=81 auid=4294967295 ses=4294967295
subj=system_u:system_r:system_dbusd_t:s0-s0:c0.c1023 msg=avc: received policyload notice (seqno=8) exe="/usr/bin/dbus-daemon" sauid=81
hostname=? addr=? terminal=?
type=USER_AVC msg=audit(1619258603.054:474): pid=845 uid=81 auid=4294967295 ses=4294967295
subj=system_u:system_r:system_dbusd_t:s0-s0:c0.c1023 msg=avc: received policyload notice (seqno=9) exe="/usr/bin/dbus-daemon" sauid=81
hostname=? addr=? terminal=?
type=USER_AVC msg=audit(1619258659.930:573): pid=845 uid=81 auid=4294967295 ses=4294967295
subj=system_u:system_r:system_dbusd_t:s0-s0:c0.c1023 msg=avc: received policyload notice (seqno=10) exe="/usr/bin/dbus-daemon" sauid=81
hostname=? addr=? terminal=?
type=USER_AVC msg=audit(1619258663.030:575): pid=845 uid=81 auid=4294967295 ses=4294967295
subj=system_u:system_r:system_dbusd_t:s0-s0:c0.c1023 msg=avc: received policyload notice (seqno=11) exe="/usr/bin/dbus-daemon" sauid=81
hostname=? addr=? terminal=?
type=USER_AVC msg=audit(1619258677.423:579): pid=845 uid=81 auid=4294967295 ses=4294967295
subj=system_u:system_r:system_dbusd_t:s0-s0:c0.c1023 msg=avc: received policyload notice (seqno=12) exe="/usr/bin/dbus-daemon" sauid=81
hostname=? addr=? terminal=?
type=USER_AVC msg=audit(1619258680.529:581): pid=845 uid=81 auid=4294967295 ses=4294967295
subj=system_u:system_r:system_dbusd_t:s0-s0:c0.c1023 msg=avc: received policyload notice (seqno=13) exe="/usr/bin/dbus-daemon" sauid=81
hostname=? addr=? terminal=?
type=USER_AVC msg=audit(1619258712.729:652): pid=845 uid=81 auid=4294967295 ses=4294967295
subj=system_u:system_r:system_dbusd_t:s0-s0:c0.c1023 msg=avc: received policyload notice (seqno=14) exe="/usr/bin/dbus-daemon" sauid=81
hostname=? addr=? terminal=?
type=USER_AVC msg=audit(1619258723.638:654): pid=845 uid=81 auid=4294967295 ses=4294967295
subj=system_u:system_r:system_dbusd_t:s0-s0:c0.c1023 msg=avc: received policyload notice (seqno=15) exe="/usr/bin/dbus-daemon" sauid=81
hostname=? addr=? terminal=?
type=USER_AVC msg=audit(1619258734.605:656): pid=845 uid=81 auid=4294967295 ses=4294967295
subj=system_u:system_r:system_dbusd_t:s0-s0:c0.c1023 msg=avc: received policyload notice (seqno=16) exe="/usr/bin/dbus-daemon" sauid=81
hostname=? addr=? terminal=?
type=USER_AVC msg=audit(1619258833.840:782): pid=845 uid=81 auid=4294967295 ses=4294967295
subj=system_u:system_r:system_dbusd_t:s0-s0:c0.c1023 msg=avc: received policyload notice (seqno=17) exe="/usr/bin/dbus-daemon" sauid=81
hostname=? addr=? terminal=?
type=USER_AVC msg=audit(1619258836.523:783): pid=845 uid=81 auid=4294967295 ses=4294967295
subj=system_u:system_r:system_dbusd_t:s0-s0:c0.c1023 msg=avc: received policyload notice (seqno=18) exe="/usr/bin/dbus-daemon" sauid=81
hostname=? addr=? terminal=?
type=USER_AVC msg=audit(1619258876.172:805): pid=845 uid=81 auid=4294967295 ses=4294967295
subj=system_u:system_r:system_dbusd_t:s0-s0:c0.c1023 msg=avc: received policyload notice (seqno=19) exe="/usr/bin/dbus-daemon" sauid=81
hostname=? addr=? terminal=?
type=USER_AVC msg=audit(1619258878.846:806): pid=845 uid=81 auid=4294967295 ses=4294967295
subj=system_u:system_r:system_dbusd_t:s0-s0:c0.c1023 msg=avc: received policyload notice (seqno=20) exe="/usr/bin/dbus-daemon" sauid=81
hostname=? addr=? terminal=?
type=USER_AVC msg=audit(1619258953.645:866): pid=845 uid=81 auid=4294967295 ses=4294967295
subj=system_u:system_r:system_dbusd_t:s0-s0:c0.c1023 msg=avc: received policyload notice (seqno=21) exe="/usr/bin/dbus-daemon" sauid=81
hostname=? addr=? terminal=?
type=USER_AVC msg=audit(1619258956.248:867): pid=845 uid=81 auid=4294967295 ses=4294967295
subj=system_u:system_r:system_dbusd_t:s0-s0:c0.c1023 msg=avc: received policyload notice (seqno=22) exe="/usr/bin/dbus-daemon" sauid=81
hostname=? addr=? terminal=?
type=AVC msg=audit(1619259801.263:967): avc: denied { create } for pid=1514 comm="gunicorn"
scontext=system_u:system_r:pulpcore_server_t:s0 tcontext=system_u:system_r:pulpcore_server_t:s0 tclass=unix_dgram_socket permissive=1
type=AVC msg=audit(1619259801.263:968): avc: denied { connect } for pid=1514 comm="gunicorn"
scontext=system_u:system_r:pulpcore_server_t:s0 tcontext=system_u:system_r:pulpcore_server_t:s0 tclass=unix_dgram_socket permissive=1
type=AVC msg=audit(1619259801.263:968): avc: denied { sendto } for pid=1514 comm="gunicorn" path="/run/systemd/notify"
scontext=system_u:system_r:pulpcore_server_t:s0 tcontext=system_u:system_r:kernel_t:s0 tclass=unix_dgram_socket permissive=1
type=AVC msg=audit(1619259802.374:970): avc: denied { sendto } for pid=1654 comm="gunicorn" path="/run/systemd/notify"
scontext=system_u:system_r:pulpcore_server_t:s0 tcontext=system_u:system_r:kernel_t:s0 tclass=unix_dgram_socket permissive=1

```
type=AVC msg=audit(1619259817.825:975): avc: denied { name_connect } for pid=31541 comm="diagnostic_con*" dest=9093
scontext=system_u:system_r:foreman_rails_t:s0 tcontext=system_u:object_r:unreserved_port_t:s0 tclass=tcp_socket permissive=0
```

#4 - 04/24/2021 11:56 AM - Ewoud Kohl van Wijngaarden

- Project changed from Installer to SELinux
- Category changed from Foreman modules to General Foreman

This line here is the denial:

```
type=AVC msg=audit(1619259817.825:975): avc: denied { name_connect } for pid=31541 comm="diagnostic_con*" dest=9093
scontext=system_u:system_r:foreman_rails_t:s0 tcontext=system_u:object_r:unreserved_port_t:s0 tclass=tcp_socket permissive=0
```

Foreman (in the foreman_rails_t domain) isn't allowed to talk to port 9093.

#5 - 04/24/2021 05:04 PM - Matthew Smith

Ewoud Kohl van Wijngaarden wrote:

This line here is the denial:

```
type=AVC msg=audit(1619259817.825:975): avc: denied { name_connect } for pid=31541 comm="diagnostic_con*" dest=9093
scontext=system_u:system_r:foreman_rails_t:s0 tcontext=system_u:object_r:unreserved_port_t:s0 tclass=tcp_socket permissive=0
```

Foreman (in the foreman_rails_t domain) isn't allowed to talk to port 9093.

Ok. So it this a bug or is there a semanage command that can rectify it ?

#6 - 04/24/2021 05:20 PM - Matthew Smith

Matthew Smith wrote:

Ewoud Kohl van Wijngaarden wrote:

This line here is the denial:

```
type=AVC msg=audit(1619259817.825:975): avc: denied { name_connect } for pid=31541 comm="diagnostic_con*" dest=9093
scontext=system_u:system_r:foreman_rails_t:s0 tcontext=system_u:object_r:unreserved_port_t:s0 tclass=tcp_socket permissive=0
```

Foreman (in the foreman_rails_t domain) isn't allowed to talk to port 9093.

Ok. So it this a bug or is there a semanage command that can rectify it ?

I think when I initially read the line "For Red Hat family operating systems, SELinux must not be set to disabled mode." in the Katello 4 documentation I assumed it meant needs to be set to Enforcing but now realised I could have set it to Permissive. I just set SELINUX to Permissive and that worked.

Thanks for the pointer.