

Installer - Bug #32068

Installation of katello-ca-consumer fails on RHEL with enabled FIPS

03/11/2021 07:42 AM - Leos Stejskal

Status: Rejected	
Priority: Normal	
Assignee:	
Category: Foreman modules	
Target version:	
Difficulty:	Fixed in Releases:
Triaged: Yes	Found in Releases: 2.4.0
Bugzilla link:	Red Hat JIRA:
Pull request:	
Description	
Preconditions: RHEL with enabled fips:	
<pre>fips-mode-setup --enable reboot fips-mode-setup --check # -> FIPS mode is enabled.</pre>	
Steps to reproduce	
<pre>curl -o katello-ca-consumer-latest.noarch.rpm http://foreman.example.com/pub/katello-ca-consumer-latest.noarch.rpm yum localinstall -y katello-ca-consumer-latest.noarch.rpm</pre>	
Downloading Packages: Running transaction check Transaction check succeeded. Running transaction test Error: Transaction test error: package katello-ca-consumer-centos7-katello-devel-stable.example.com-1.0-1.noarch does not verify: no digest	
Workaround	
<pre>rpm -ivh --nodigest katello-ca-consumer-latest.noarch.rpm</pre>	

History

#1 - 03/11/2021 10:49 AM - Ewoud Kohl van Wijngaarden

- Project changed from Packaging to Installer
- Category set to Foreman modules
- Triaged changed from No to Yes
- Found in Releases 2.4.0 added

Technically the installer generates this consumer CA RPM. I'm going to guess this shows up in every release but I'm picking the latest RC now.

#2 - 03/11/2021 11:07 AM - Ewoud Kohl van Wijngaarden

I can't reproduce this with a CentOS 8 server:

```
[root@centos8 ~]# dnf install http://pipe-katello-server-nightly-centos8.wisse.example.com/pub/katello-ca-cons
```

umer-latest.noarch.rpm

Last metadata expiration check: 0:04:10 ago on Thu 11 Mar 2021 11:01:45 UTC.

katello-ca-consumer-latest.noarch.rpm

549 kB/s | 13 kB 00:00

Dependencies resolved.

Package	Repository	Size	Architecture
Installing:			
katello-ca-consumer-pipe-katello-server-nightly-centos8.wisse.example.com	@commandline	13 k	noarch
Installing dependencies:			
dnf-plugin-subscription-manager	baseos	288 k	x86_64
python3-ethtool	baseos	45 k	x86_64
python3-iniparse	baseos	49 k	noarch
python3-inotify	baseos	57 k	noarch
python3-librepo	baseos	52 k	x86_64
python3-subscription-manager-rhsm	baseos	360 k	x86_64
subscription-manager	baseos	1.1 M	x86_64
subscription-manager-rhsm-certificates	baseos	256 k	x86_64
usermode	baseos	202 k	x86_64

Transaction Summary

Install 10 Packages

Total size: 2.4 M

Total download size: 2.4 M

Installed size: 6.2 M

Is this ok [y/N]: y

Downloading Packages:

(1/9): python3-iniparse-0.4-31.el8.noarch.rpm	592 kB/s 49 kB	00:00
(2/9): python3-ethtool-0.14-3.el8.x86_64.rpm	394 kB/s 45 kB	00:00
(3/9): python3-inotify-0.9.6-13.el8.noarch.rpm	922 kB/s 57 kB	00:00
(4/9): python3-librepo-1.12.0-2.el8.x86_64.rpm	463 kB/s 52 kB	00:00
(5/9): dnf-plugin-subscription-manager-1.27.16-1.el8.x86_64.rpm	822 kB/s 288 kB	00:00
(6/9): python3-subscription-manager-rhsm-1.27.16-1.el8.x86_64.rpm	1.2 MB/s 360 kB	00:00
(7/9): usermode-1.113-1.el8.x86_64.rpm	784 kB/s 202 kB	00:00
(8/9): subscription-manager-rhsm-certificates-1.27.16-1.el8.x86_64.rpm	544 kB/s 256 kB	00:00
(9/9): subscription-manager-1.27.16-1.el8.x86_64.rpm	626 kB/s 1.1 MB	00:01

Total 997 kB/s | 2.4 MB 00:02

Running transaction check

Transaction check succeeded.

Running transaction test

Transaction test succeeded.

Running transaction

Preparing	:	1/1
Installing	: python3-iniparse-0.4-31.el8.noarch	1/10

```

Installing      : usermode-1.113-1.el8.x86_64                2/10
Installing      : subscription-manager-rhsm-certificates-1.27.16-1.el8.x86_64 3/10
Installing      : python3-subscription-manager-rhsm-1.27.16-1.el8.x86_64    4/10
Installing      : python3-librepo-1.12.0-2.el8.x86_64        5/10
Installing      : dnf-plugin-subscription-manager-1.27.16-1.el8.x86_64      6/10
Installing      : python3-inotify-0.9.6-13.el8.noarch        7/10
Installing      : python3-ethhtool-0.14-3.el8.x86_64         8/10
Installing      : subscription-manager-1.27.16-1.el8.x86_64  9/10
Running scriptlet: subscription-manager-1.27.16-1.el8.x86_64  9/10
Installing      : katello-ca-consumer-pipe-katello-server-nightly-centos8.wisse.example.com-1.0-1.noarch 10/10
Running scriptlet: katello-ca-consumer-pipe-katello-server-nightly-centos8.wisse.example.com-1.0-1.noarch 10/10

```

WARNING

The yum/dnf plugins: /etc/dnf/plugins/subscription-manager.conf were automatically enabled for the benefit of Red Hat Subscription Management. If not desired, use "subscription-manager config --rhsm.auto_enable_yum_plugins=0" to block this behavior.

```

Verifying      : dnf-plugin-subscription-manager-1.27.16-1.el8.x86_64        1/10
Verifying      : python3-ethhtool-0.14-3.el8.x86_64                        2/10
Verifying      : python3-iniparse-0.4-31.el8.noarch                       3/10
Verifying      : python3-inotify-0.9.6-13.el8.noarch                      4/10
Verifying      : python3-librepo-1.12.0-2.el8.x86_64                      5/10
Verifying      : python3-subscription-manager-rhsm-1.27.16-1.el8.x86_64    6/10
Verifying      : subscription-manager-1.27.16-1.el8.x86_64                7/10
Verifying      : subscription-manager-rhsm-certificates-1.27.16-1.el8.x86_64 8/10
Verifying      : usermode-1.113-1.el8.x86_64                              9/10
Verifying      : katello-ca-consumer-pipe-katello-server-nightly-centos8.wisse.example.com-1.0-1.noarch 10/10

```

Installed:

```

dnf-plugin-subscription-manager-1.27.16-1.el8.x86_64                katello-ca-consumer-pipe-katello-server-nightly-centos8.wisse.example.com-1.0-1.noarch
python3-ethhtool-0.14-3.el8.x86_64                                  python3-iniparse-0.4-31.el8.noarch
python3-inotify-0.9.6-13.el8.noarch                                python3-librepo-1.12.0-2.el8.x86_64
python3-subscription-manager-rhsm-1.27.16-1.el8.x86_64            subscription-manager-1.27.16-1.el8.x86_64
subscription-manager-rhsm-certificates-1.27.16-1.el8.x86_64      usermode-1.113-1.el8.x86_64

```

Complete!

```

[root@centos8 ~]# fips-mode-setup --check
FIPS mode is enabled.

```

Going to spin up a CentOS 7 server to check.

#3 - 03/11/2021 11:52 AM - Ewoud Kohl van Wijngaarden

Confirmed with an EL7 version built on Katello 3.18:

```

[root@centos8 ~]# dnf install http://centos7-katello-3-18.wisse.example.com/pub/katello-ca-consumer-latest.noarch.rpm

```

Last metadata expiration check: 0:31:35 ago on Thu 11 Mar 2021 11:20:13 UTC.

katello-ca-consumer-latest.noarch.rpm

295 kB/s | 8.4 kB 00:00

Dependencies resolved.

Package	Repository	Size	Architecture	Version
Installing:				
katello-ca-consumer-centos7-katello-3-18.wisse.example.com-1	@commandline	8.4 k	noarch	1.0
Installing dependencies:				
dnf-plugin-subscription-manager-7.16-1.el8	baseos	288 k	x86_64	1.2
python3-ethhtool-4-3.el8	baseos	45 k	x86_64	0.1
python3-iniparse-0.4-31.el8	baseos	49 k	noarch	0.4
python3-inotify-0.9.6-13.el8	baseos	57 k	noarch	0.9
python3-librepo-1.12.0-2.el8	baseos	52 k	x86_64	1.1
python3-subscription-manager-rhsm-1.27.16-1.el8	baseos	360 k	x86_64	1.2
subscription-manager-1.27.16-1.el8	baseos	1.1 M	x86_64	1.2
subscription-manager-rhsm-certificates-1.27.16-1.el8	baseos	256 k	x86_64	1.2
usermode-1.113-1.el8	baseos	202 k	x86_64	1.1

Transaction Summary

Install 10 Packages

Total size: 2.4 M

Total download size: 2.4 M

Installed size: 6.2 M

Is this ok [y/N]: y

Downloading Packages:

- (1/9): python3-iniparse-0.4-31.el8.noarch.rpm
461 kB/s | 49 kB 00:00
- (2/9): python3-ethhtool-0.14-3.el8.x86_64.rpm
418 kB/s | 45 kB 00:00
- (3/9): python3-librepo-1.12.0-2.el8.x86_64.rpm
1.9 MB/s | 52 kB 00:00
- (4/9): python3-inotify-0.9.6-13.el8.noarch.rpm
1.4 MB/s | 57 kB 00:00
- (5/9): dnf-plugin-subscription-manager-1.27.16-1.el8.x86_64.rpm
1.9 MB/s | 288 kB 00:00
- (6/9): subscription-manager-rhsm-certificates-1.27.16-1.el8.x86_64.rpm
5.3 MB/s | 256 kB 00:00
- (7/9): python3-subscription-manager-rhsm-1.27.16-1.el8.x86_64.rpm
6.2 MB/s | 360 kB 00:00
- (8/9): usermode-1.113-1.el8.x86_64.rpm
5.3 MB/s | 202 kB 00:00
- (9/9): subscription-manager-1.27.16-1.el8.x86_64.rpm
5.8 MB/s | 1.1 MB 00:00

Total 5.5 MB/s | 2.4 MB 00:00

Running transaction check

Transaction check succeeded.

Running transaction test

The downloaded packages were saved in cache until the next successful transaction.

You can remove cached packages by executing 'dnf clean packages'.

Error: Transaction test error:

package katello-ca-consumer-centos7-katello-3-18.wisse.example.com-1.0-1.noarch does not verify: no digest

#4 - 03/11/2021 03:28 PM - Ewoud Kohl van Wijngaarden

- Status changed from New to Rejected

<https://access.redhat.com/solutions/4460971> describes it but since it's behind a paywall. I'll summarize here.

Essentially RPM on EL8 can generate SHA256 digests but RPM on EL7 can't. With FIPS you're not allowed to use MD5 nor SHA1. The workaround is to not verify digests. Effectively it means enabling FIPS leads to a less secure installation, but at least it's compliant.

There's nothing we can do here since it would mean we have to ship a newer RPM on EL7 which is not something we want to do.