

RPM Support - Issue #8966

yum dependency resolution broken due to incomplete repodata/*-primary.xml.gz files for Pulp RPM publications

06/24/2021 03:06 PM - pnerincx

Status:	CLOSED - CURRENTRELEASE	Start date:	
Priority:	Normal	Due date:	
Assignee:		Estimated time:	0:00 hour
Category:			
Sprint/Milestone:			
Severity:	3. High	Groomed:	No
Version:	Master	Sprint Candidate:	No
Platform Release:		Tags:	
OS:	CentOS 7	Sprint:	
Triaged:	No	Quarter:	

Description

On a pulp server with

versions:

```
- component: core
  version: 3.13.0
- component: rpm
  version: 3.13.0
- component: file
  version: 1.8.0
```

the generated repodata/*-primary.xml.gz files for Pulp RPM publications are incomplete: the tags are missing. Therefore several packages cannot be updated anymore on CentOS 7 Pulp clients, because yum fails to resolve dependencies. E.g.:

```
$> yum update coreutils
Loaded plugins: fastestmirror
Loading mirror speeds from cached hostfile
Resolving Dependencies
--> Running transaction check
---> Package coreutils.x86_64 0:8.22-24.el7 will be updated
---> Package coreutils.x86_64 0:8.22-24.el7_9.2 will be an update
--> Processing Dependency: /usr/bin/env for package: 1:dbus-1.10.24-15.el7.x86_64
--> Processing Dependency: /usr/bin/env for package: python-libs-2.7.5-89.el7.x86_64
--> Processing Dependency: /usr/bin/sha512sum for package: selinux-policy-3.13.1-268.el7_9.2.noarc
h
--> Finished Dependency Resolution
Error: Package: 1:dbus-1.10.24-15.el7.x86_64 (@centos7-base)
       Requires: /usr/bin/env
       Removing: coreutils-8.22-24.el7.x86_64 (@centos7-base)
                Not found
-----<<<<<<-----
       Updated By: coreutils-8.22-24.el7_9.2.x86_64 (centos7-updates)
                Not found
Error: Package: python-libs-2.7.5-89.el7.x86_64 (@centos7-base)
       Requires: /usr/bin/env
       Removing: coreutils-8.22-24.el7.x86_64 (@centos7-base)
                Not found
       Updated By: coreutils-8.22-24.el7_9.2.x86_64 (centos7-updates)
                Not found
Error: Package: selinux-policy-3.13.1-268.el7_9.2.noarch (@centos7-updates)
       Requires: /usr/bin/sha512sum
       Removing: coreutils-8.22-24.el7.x86_64 (@centos7-base)
                Not found
       Updated By: coreutils-8.22-24.el7_9.2.x86_64 (centos7-updates)
```

Not found

You could try using `--skip-broken` to work around the problem
You could try running: `rpm -Va --nofiles --nodigest`

Note that `centos7-base` and `centos7-updates` are repos served by Pulp. A `yum deplist` for the first problematic dependency confirms that something is missing:

```
$> yum deplist dbus
Loaded plugins: fastestmirror
Loading mirror speeds from cached hostfile
package: dbus.x86_64 1:1.10.24-15.el7
dependency: /bin/sh
  provider: bash.x86_64 4.2.46-34.el7
dependency: /usr/bin/env
  Unsatisfied dependency <<<<<-----
-----
dependency: /usr/sbin/useradd
  Unsatisfied dependency
dependency: dbus-libs(x86-64) = 1:1.10.24-15.el7
  provider: dbus-libs.x86_64 1:1.10.24-15.el7
dependency: libaudit.so.1() (64bit)
  provider: audit-libs.x86_64 2.8.5-4.el7
dependency: libc.so.6(GLIBC_2.14) (64bit)
  provider: glibc.x86_64 2.17-324.el7_9
dependency: libcap-ng.so.0() (64bit)
  provider: libcap-ng.x86_64 0.7.5-4.el7
dependency: libdbus-1.so.3() (64bit)
  provider: dbus-libs.x86_64 1:1.10.24-15.el7
dependency: libdbus-1.so.3(LIBDBUS_1_3) (64bit)
  provider: dbus-libs.x86_64 1:1.10.24-15.el7
dependency: libdbus-1.so.3(LIBDBUS_PRIVATE_1.10.24) (64bit)
  provider: dbus-libs.x86_64 1:1.10.24-15.el7
dependency: libexpat.so.1() (64bit)
  provider: expat.x86_64 2.1.0-12.el7
dependency: libpthread.so.0() (64bit)
  provider: glibc.x86_64 2.17-324.el7_9
dependency: libpthread.so.0(GLIBC_2.2.5) (64bit)
  provider: glibc.x86_64 2.17-324.el7_9
dependency: libselinux(x86-64) >= 1.15.2
  provider: libselinux.x86_64 2.5-15.el7
dependency: libselinux.so.1() (64bit)
  provider: libselinux.x86_64 2.5-15.el7
dependency: libsystemd.so.0() (64bit)
  provider: systemd-libs.x86_64 219-78.el7_9.3
dependency: libsystemd.so.0(LIBSYSTEMD_209) (64bit)
  provider: systemd-libs.x86_64 219-78.el7_9.3
dependency: rtld(GNU_HASH)
  provider: glibc.x86_64 2.17-324.el7_9
  provider: glibc.i686 2.17-324.el7_9
dependency: systemd
  provider: systemd.x86_64 219-78.el7_9.3
```

Below are fragments for the `dbus` and `coreutils` packages from the `repodata/*-primary.xml.gz` file of this Pulp distribution. Note that `dbus` specifies a dependency `<rpm:entry name="/usr/bin/env"/>`, but there is no `/usr/bin/env` in the entry for `coreutils`:

```
<package type="rpm">
  <name>dbus</name>
  <arch>x86_64</arch>
  <version epoch="1" ver="1.10.24" rel="15.el7"/>
  <checksum type="sha256" pkgid="YES">99a677acf9d35be3213a00fc2d97e562498398f3e387f3c4bc73c3d4a614
e4e2</checksum>
  <summary>D-BUS message bus</summary>
  <description>D-BUS is a system for sending messages between applications. It is
used both for the system-wide message bus service, and as a
per-user-login-session messaging facility.</description>
  <packager>CentOS BuildSystem &lt;http://bugs.centos.org&gt;</packager>
  <url>http://www.freedesktop.org/Software/dbus</url>
```

```

<time file="1602701262" build="1601481306"/>
<size package="251300" installed="594463" archive="602268"/>
<location href="Packages/d/dbus-1.10.24-15.el7.x86_64.rpm"/>
<format>
  <rpm:license>(GPLv2+ or AFL) and GPLv2+</rpm:license>
  <rpm:vendor>CentOS</rpm:vendor>
  <rpm:group>System Environment/Libraries</rpm:group>
  <rpm:buildhost>x86-01.bsys.centos.org</rpm:buildhost>
  <rpm:sourcerpm>dbus-1.10.24-15.el7.src.rpm</rpm:sourcerpm>
  <rpm:header-range start="1384" end="42656"/>
  <rpm:provides>
    <rpm:entry name="dbus(x86-64)" flags="EQ" epoch="1" ver="1.10.24" rel="15.el7"/>
    <rpm:entry name="dbus" flags="EQ" epoch="1" ver="1.10.24" rel="15.el7"/>
    <rpm:entry name="config(dbus)" flags="EQ" epoch="1" ver="1.10.24" rel="15.el7"/>
    <rpm:entry name="/bin/dbus-send"/>
  </rpm:provides>
  <rpm:requires>
    <rpm:entry name="systemd" pre="1"/>
    <rpm:entry name="systemd"/>
    <rpm:entry name="rtld(GNU_HASH)"/>
    <rpm:entry name="libsystemd.so.0(LIBSYSTEMD_209) (64bit)"/>
    <rpm:entry name="libsystemd.so.0() (64bit)"/>
    <rpm:entry name="libselinux.so.1() (64bit)"/>
    <rpm:entry name="libselinux(x86-64)" flags="GE" epoch="0" ver="1.15.2"/>
    <rpm:entry name="libpthread.so.0(GLIBC_2.2.5) (64bit)"/>
    <rpm:entry name="libpthread.so.0() (64bit)"/>
    <rpm:entry name="libexpat.so.1() (64bit)"/>
    <rpm:entry name="libdbus-1.so.3(LIBDBUS_PRIVATE_1.10.24) (64bit)"/>
    <rpm:entry name="libdbus-1.so.3(LIBDBUS_1_3) (64bit)"/>
    <rpm:entry name="libdbus-1.so.3() (64bit)"/>
    <rpm:entry name="libcap-ng.so.0() (64bit)"/>
    <rpm:entry name="libc.so.6(GLIBC_2.14) (64bit)"/>
    <rpm:entry name="libaudit.so.1() (64bit)"/>
    <rpm:entry name="dbus-libs(x86-64)" flags="EQ" epoch="1" ver="1.10.24" rel="15.el7"/>
    <rpm:entry name="/usr/sbin/useradd" pre="1"/>
    <rpm:entry name="/usr/bin/env"/>
    <<<<<<-----
-----
    <rpm:entry name="/bin/sh" pre="1"/>
    <rpm:entry name="/bin/sh"/>
  </rpm:requires>
</format>
</package>

<package type="rpm">
  <name>coreutils</name>
  <arch>x86_64</arch>
  <version epoch="0" ver="8.22" rel="24.el7"/>
  <checksum type="sha256" pkgid="YES">e320010b41826322b947d65f2893d20d395dc11f2a342085432b2014a810
82c7</checksum>
  <summary>A set of basic GNU tools commonly used in shell scripts</summary>
  <description>These are the GNU core utilities. This package is the combination of
the old GNU fileutils, sh-utils, and textutils packages.</description>
  <packager>CentOS BuildSystem &lt;http://bugs.centos.org&gt;</packager>
  <url>http://www.gnu.org/software/coreutils/</url>
  <time file="1566508890" build="1566282446"/>
  <size package="3415080" installed="14593469" archive="14644536"/>
  <location href="Packages/c/coreutils-8.22-24.el7.x86_64.rpm"/>
  <format>
    <rpm:license>GPLv3+</rpm:license>
    <rpm:vendor>CentOS</rpm:vendor>
    <rpm:group>System Environment/Base</rpm:group>
    <rpm:buildhost>x86-01.bsys.centos.org</rpm:buildhost>
    <rpm:sourcerpm>coreutils-8.22-24.el7.src.rpm</rpm:sourcerpm>
    <rpm:header-range start="1384" end="130864"/>
    <rpm:provides>
      <rpm:entry name="textutils" flags="EQ" epoch="0" ver="8.22" rel="24.el7"/>
      <rpm:entry name="stat" flags="EQ" epoch="0" ver="8.22" rel="24.el7"/>
    </rpm:provides>
  </format>
</package>

```

```

<rpm:entry name="sh-utils" flags="EQ" epoch="0" ver="8.22" rel="24.el7"/>
<rpm:entry name="mktemp" flags="EQ" epoch="4" ver="8.22" rel="24.el7"/>
<rpm:entry name="libstdbuf.so() (64bit)"/>
<rpm:entry name="fileutils" flags="EQ" epoch="0" ver="8.22" rel="24.el7"/>
<rpm:entry name="coreutils(x86-64)" flags="EQ" epoch="0" ver="8.22" rel="24.el7"/>
<rpm:entry name="coreutils" flags="EQ" epoch="0" ver="8.22" rel="24.el7"/>
<rpm:entry name="config(coreutils)" flags="EQ" epoch="0" ver="8.22" rel="24.el7"/>
<rpm:entry name="bundled(gnulib)"/>
<rpm:entry name="/bin/uname"/>
<rpm:entry name="/bin/true"/>
<rpm:entry name="/bin/touch"/>
<rpm:entry name="/bin/sync"/>
<rpm:entry name="/bin/stty"/>
<rpm:entry name="/bin/sort"/>
<rpm:entry name="/bin/sleep"/>
<rpm:entry name="/bin/rmdir"/>
<rpm:entry name="/bin/rm"/>
<rpm:entry name="/bin/readlink"/>
<rpm:entry name="/bin/pwd"/>
<rpm:entry name="/bin/nice"/>
<rpm:entry name="/bin/mv"/>
<rpm:entry name="/bin/mktemp"/>
<rpm:entry name="/bin/mknod"/>
<rpm:entry name="/bin/mkdir"/>
<rpm:entry name="/bin/ls"/>
<rpm:entry name="/bin/ln"/>
<rpm:entry name="/bin/false"/>
<rpm:entry name="/bin/env"/>
<rpm:entry name="/bin/echo"/>
<rpm:entry name="/bin/df"/>
<rpm:entry name="/bin/dd"/>
<rpm:entry name="/bin/date"/>
<rpm:entry name="/bin/cut"/>
<rpm:entry name="/bin/cp"/>
<rpm:entry name="/bin/chown"/>
<rpm:entry name="/bin/chmod"/>
<rpm:entry name="/bin/chgrp"/>
<rpm:entry name="/bin/cat"/>
<rpm:entry name="/bin/basename"/>
</rpm:provides>
<rpm:requires>
  <rpm:entry name="rtld(GNU_HASH)"/>
  <rpm:entry name="ncurses"/>
  <rpm:entry name="libselinux.so.1() (64bit)"/>
  <rpm:entry name="librt.so.1(GLIBC_2.3.3) (64bit)"/>
  <rpm:entry name="librt.so.1() (64bit)"/>
  <rpm:entry name="libpthread.so.0(GLIBC_2.3.2) (64bit)"/>
  <rpm:entry name="libpthread.so.0(GLIBC_2.2.5) (64bit)"/>
  <rpm:entry name="libpthread.so.0() (64bit)"/>
  <rpm:entry name="libgmp.so.10() (64bit)"/>
  <rpm:entry name="libcrypto.so.10(libcrypto.so.10) (64bit)"/>
  <rpm:entry name="libcrypto.so.10() (64bit)"/>
  <rpm:entry name="libcap.so.2() (64bit)"/>
  <rpm:entry name="libc.so.6(GLIBC_2.17) (64bit)"/>
  <rpm:entry name="libattr.so.1(ATTR_1.1) (64bit)"/>
  <rpm:entry name="libattr.so.1() (64bit)"/>
  <rpm:entry name="libacl.so.1(ACL_1.0) (64bit)"/>
  <rpm:entry name="libacl.so.1() (64bit)"/>
  <rpm:entry name="grep" pre="1"/>
  <rpm:entry name="gmp"/>
  <rpm:entry name="/sbin/install-info" pre="1"/>
  <rpm:entry name="/sbin/install-info"/>
  <rpm:entry name="/bin/sh" pre="1"/>
  <rpm:entry name="/bin/sh"/>
</rpm:requires>
<rpm:conflicts>
  <rpm:entry name="filesystem" flags="LT" epoch="0" ver="3"/>

```

```

</rpm:conflicts>
<rpm:obsoletes>
  <rpm:entry name="textutils" flags="LE" epoch="0" ver="2.0.21"/>
  <rpm:entry name="stat" flags="LE" epoch="0" ver="3.3"/>
  <rpm:entry name="sh-utils" flags="LE" epoch="0" ver="2.0.12"/>
  <rpm:entry name="mktemp" flags="LT" epoch="4" ver="8.22" rel="24.e17"/>
  <rpm:entry name="fileutils" flags="LE" epoch="0" ver="4.1.9"/>
  <rpm:entry name="coreutils-libs" flags="LT" epoch="0" ver="8.13"/>
</rpm:obsoletes>
</format>
</package>

```

We've also updated the rpm plugin to 3.13.2 on this Pulp server and recreated remotes + repositories + publications + distributions, but that did not solve the problem.

Below are the same commands and fragments from the **repdata/*-primary.xml.gz** file from another, older Pulp server that does work:

versions:

```

- component: core
  version: 3.12.2
- component: rpm
  version: 3.10.0
- component: file
  version: 1.7.0

```

```

<package type="rpm">
  <name>dbus</name>
  <arch>x86_64</arch>
  <version epoch="1" ver="1.10.24" rel="15.e17"/>
  <checksum type="sha256" pkgid="YES">99a677acf9d35be3213a00fc2d97e562498398f3e387f3c4bc73c3d4a614e4e2</checksum>
  <summary>D-BUS message bus</summary>
  <description>D-BUS is a system for sending messages between applications. It is used both for the system-wide message bus service, and as a per-user-login-session messaging facility.</description>
  <packager>CentOS BuildSystem &lt;http://bugs.centos.org&gt;</packager>
  <url>http://www.freedesktop.org/Software/dbus/</url>
  <time file="1602701262" build="1601481306"/>
  <size package="251300" installed="594463" archive="602268"/>
  <location href="Packages/d/dbus-1.10.24-15.e17.x86_64.rpm"/>
  <format>
    <rpm:license>(GPLv2+ or AFL) and GPLv2+</rpm:license>
    <rpm:vendor>CentOS</rpm:vendor>
    <rpm:group>System Environment/Libraries</rpm:group>
    <rpm:buildhost>x86-01.bsys.centos.org</rpm:buildhost>
    <rpm:sourcerpm>dbus-1.10.24-15.e17.src.rpm</rpm:sourcerpm>
    <rpm:header-range start="1384" end="42656"/>
    <rpm:provides>
      <rpm:entry name="dbus(x86-64)" flags="EQ" epoch="1" ver="1.10.24" rel="15.e17"/>
      <rpm:entry name="dbus" flags="EQ" epoch="1" ver="1.10.24" rel="15.e17"/>
      <rpm:entry name="config(dbus)" flags="EQ" epoch="1" ver="1.10.24" rel="15.e17"/>
      <rpm:entry name="/bin/dbus-send"/>
    </rpm:provides>
    <rpm:requires>
      <rpm:entry name="systemd" pre="1"/>
      <rpm:entry name="systemd"/>
      <rpm:entry name="rtld(GNU_HASH)"/>
      <rpm:entry name="libsystemd.so.0(LIBSYSTEMD_209)(64bit)"/>
      <rpm:entry name="libsystemd.so.0()(64bit)"/>
      <rpm:entry name="libselinux.so.1()(64bit)"/>
      <rpm:entry name="libselinux(x86-64)" flags="GE" epoch="0" ver="1.15.2"/>
      <rpm:entry name="libpthread.so.0(GLIBC_2.2.5)(64bit)"/>
      <rpm:entry name="libpthread.so.0()(64bit)"/>
      <rpm:entry name="libexpat.so.1()(64bit)"/>
      <rpm:entry name="libdbus-1.so.3(LIBDBUS_PRIVATE_1.10.24)(64bit)"/>
      <rpm:entry name="libdbus-1.so.3(LIBDBUS_1_3)(64bit)"/>
    </rpm:requires>
  </format>
</package>

```

```

<rpm:entry name="libdbus-1.so.3()(64bit)"/>
<rpm:entry name="libcap-ng.so.0()(64bit)"/>
<rpm:entry name="libc.so.6(GLIBC_2.14)(64bit)"/>
<rpm:entry name="libaudit.so.1()(64bit)"/>
<rpm:entry name="dbus-libs(x86-64)" flags="EQ" epoch="1" ver="1.10.24" rel="15.el7"/>
<rpm:entry name="/usr/sbin/useradd" pre="1"/>
<rpm:entry name="/usr/bin/env"/> <<<<<<-----
-----
<rpm:entry name="/bin/sh" pre="1"/>
<rpm:entry name="/bin/sh"/>
</rpm:requires>
<file type="dir">/etc/dbus-1/system.d</file>
<file type="dir">/etc/dbus-1/session.d</file>
<file type="dir">/etc/dbus-1</file>
<file>/usr/bin/dbus-uuidgen</file>
<file>/usr/bin/dbus-update-activation-environment</file>
<file>/usr/bin/dbus-test-tool</file>
<file>/usr/bin/dbus-send</file>
<file>/usr/bin/dbus-run-session</file>
<file>/usr/bin/dbus-monitor</file>
<file>/usr/bin/dbus-daemon</file>
<file>/usr/bin/dbus-cleanup-sockets</file>
<file>/etc/dbus-1/system.conf</file>
<file>/etc/dbus-1/session.conf</file>
</format>
</package>

<package type="rpm">
<name>coreutils</name>
<arch>x86_64</arch>
<version epoch="0" ver="8.22" rel="24.el7"/>
<checksum type="sha256" pkgid="YES">e320010b41826322b947d65f2893d20d395dc11f2a342085432b2014a810
82c7</checksum>
<summary>A set of basic GNU tools commonly used in shell scripts</summary>
<description>These are the GNU core utilities. This package is the combination of
the old GNU fileutils, sh-utils, and textutils packages.</description>
<packager>CentOS BuildSystem &lt;http://bugs.centos.org&gt;</packager>
<url>http://www.gnu.org/software/coreutils/</url>
<time file="1566508890" build="1566282446"/>
<size package="3415080" installed="14593469" archive="14644536"/>
<location href="Packages/c/coreutils-8.22-24.el7.x86_64.rpm"/>
<format>
<rpm:license>GPLv3+</rpm:license>
<rpm:vendor>CentOS</rpm:vendor>
<rpm:group>System Environment/Base</rpm:group>
<rpm:buildhost>x86-01.bsys.centos.org</rpm:buildhost>
<rpm:sourcerpm>coreutils-8.22-24.el7.src.rpm</rpm:sourcerpm>
<rpm:header-range start="1384" end="130864"/>
<rpm:provides>
<rpm:entry name="textutils" flags="EQ" epoch="0" ver="8.22" rel="24.el7"/>
<rpm:entry name="stat" flags="EQ" epoch="0" ver="8.22" rel="24.el7"/>
<rpm:entry name="sh-utils" flags="EQ" epoch="0" ver="8.22" rel="24.el7"/>
<rpm:entry name="mktemp" flags="EQ" epoch="4" ver="8.22" rel="24.el7"/>
<rpm:entry name="libstdbuf.so()(64bit)"/>
<rpm:entry name="fileutils" flags="EQ" epoch="0" ver="8.22" rel="24.el7"/>
<rpm:entry name="coreutils(x86-64)" flags="EQ" epoch="0" ver="8.22" rel="24.el7"/>
<rpm:entry name="coreutils" flags="EQ" epoch="0" ver="8.22" rel="24.el7"/>
<rpm:entry name="config(coreutils)" flags="EQ" epoch="0" ver="8.22" rel="24.el7"/>
<rpm:entry name="bundled(gnplib)"/>
<rpm:entry name="/bin/uname"/>
<rpm:entry name="/bin/true"/>
<rpm:entry name="/bin/touch"/>
<rpm:entry name="/bin/sync"/>
<rpm:entry name="/bin/stty"/>
<rpm:entry name="/bin/sort"/>
<rpm:entry name="/bin/sleep"/>
<rpm:entry name="/bin/rmdir"/>

```

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<rpm:entry name="/bin/rm"/>
<rpm:entry name="/bin/readlink"/>
<rpm:entry name="/bin/pwd"/>
<rpm:entry name="/bin/nice"/>
<rpm:entry name="/bin/mv"/>
<rpm:entry name="/bin/mktemp"/>
<rpm:entry name="/bin/mknod"/>
<rpm:entry name="/bin/mkdir"/>
<rpm:entry name="/bin/ls"/>
<rpm:entry name="/bin/ln"/>
<rpm:entry name="/bin/false"/>
<rpm:entry name="/bin/env"/>
<rpm:entry name="/bin/echo"/>
<rpm:entry name="/bin/df"/>
<rpm:entry name="/bin/dd"/>
<rpm:entry name="/bin/date"/>
<rpm:entry name="/bin/cut"/>
<rpm:entry name="/bin/cp"/>
<rpm:entry name="/bin/chown"/>
<rpm:entry name="/bin/chmod"/>
<rpm:entry name="/bin/chgrp"/>
<rpm:entry name="/bin/cat"/>
<rpm:entry name="/bin/basename"/>
</rpm:provides>
<rpm:requires>
  <rpm:entry name="rtld(GNU_HASH)"/>
  <rpm:entry name="ncurses"/>
  <rpm:entry name="libselinux.so.1() (64bit)"/>
  <rpm:entry name="librt.so.1(GLIBC_2.3.3) (64bit)"/>
  <rpm:entry name="librt.so.1() (64bit)"/>
  <rpm:entry name="libpthread.so.0(GLIBC_2.3.2) (64bit)"/>
  <rpm:entry name="libpthread.so.0(GLIBC_2.2.5) (64bit)"/>
  <rpm:entry name="libpthread.so.0() (64bit)"/>
  <rpm:entry name="libgmp.so.10() (64bit)"/>
  <rpm:entry name="libcrypto.so.10(libcrypto.so.10) (64bit)"/>
  <rpm:entry name="libcrypto.so.10() (64bit)"/>
  <rpm:entry name="libcap.so.2() (64bit)"/>
  <rpm:entry name="libc.so.6(GLIBC_2.17) (64bit)"/>
  <rpm:entry name="libattr.so.1(ATTR_1.1) (64bit)"/>
  <rpm:entry name="libattr.so.1() (64bit)"/>
  <rpm:entry name="libacl.so.1(ACL_1.0) (64bit)"/>
  <rpm:entry name="libacl.so.1() (64bit)"/>
  <rpm:entry name="grep" pre="1"/>
  <rpm:entry name="gmp"/>
  <rpm:entry name="/sbin/install-info" pre="1"/>
  <rpm:entry name="/sbin/install-info"/>
  <rpm:entry name="/bin/sh" pre="1"/>
  <rpm:entry name="/bin/sh"/>
</rpm:requires>
<rpm:conflicts>
  <rpm:entry name="filesystem" flags="LT" epoch="0" ver="3"/>
</rpm:conflicts>
<rpm:obsoletes>
  <rpm:entry name="textutils" flags="LE" epoch="0" ver="2.0.21"/>
  <rpm:entry name="stat" flags="LE" epoch="0" ver="3.3"/>
  <rpm:entry name="sh-utils" flags="LE" epoch="0" ver="2.0.12"/>
  <rpm:entry name="mktemp" flags="LT" epoch="4" ver="8.22" rel="24.e17"/>
  <rpm:entry name="fileutils" flags="LE" epoch="0" ver="4.1.9"/>
  <rpm:entry name="coreutils-libs" flags="LT" epoch="0" ver="8.13"/>
</rpm:obsoletes>
<file>/usr/sbin/chroot</file>
<file>/usr/bin/yes</file>
<file>/usr/bin/whoami</file>
<file>/usr/bin/who</file>
<file>/usr/bin/wc</file>
<file>/usr/bin/vdir</file>
<file>/usr/bin/users</file>

```

<file>/usr/bin/unlink</file>
<file>/usr/bin/uniq</file>
<file>/usr/bin/unexpand</file>
<file>/usr/bin/uname</file>
<file>/usr/bin/tty</file>
<file>/usr/bin/tsort</file>
<file>/usr/bin/truncate</file>
<file>/usr/bin/true</file>
<file>/usr/bin/tr</file>
<file>/usr/bin/touch</file>
<file>/usr/bin/timeout</file>
<file>/usr/bin/test</file>
<file>/usr/bin/tee</file>
<file>/usr/bin/tail</file>
<file>/usr/bin/tac</file>
<file>/usr/bin/sync</file>
<file>/usr/bin/sum</file>
<file>/usr/bin/stty</file>
<file>/usr/bin/stdbuf</file>
<file>/usr/bin/stat</file>
<file>/usr/bin/split</file>
<file>/usr/bin/sort</file>
<file>/usr/bin/sleep</file>
<file>/usr/bin/shuf</file>
<file>/usr/bin/shred</file>
<file>/usr/bin/sha512sum</file>
<file>/usr/bin/sha384sum</file>
<file>/usr/bin/sha256sum</file>
<file>/usr/bin/sha224sum</file>
<file>/usr/bin/shasum</file>
<file>/usr/bin/seq</file>
<file>/usr/bin/runcon</file>
<file>/usr/bin/rmdir</file>
<file>/usr/bin/rm</file>
<file>/usr/bin/realpath</file>
<file>/usr/bin/readlink</file>
<file>/usr/bin/pwd</file>
<file>/usr/bin/ptx</file>
<file>/usr/bin/printf</file>
<file>/usr/bin/printenv</file>
<file>/usr/bin/pr</file>
<file>/usr/bin/pinky</file>
<file>/usr/bin/pathchk</file>
<file>/usr/bin/paste</file>
<file>/usr/bin/od</file>
<file>/usr/bin/numfmt</file>
<file>/usr/bin/nproc</file>
<file>/usr/bin/nohup</file>
<file>/usr/bin/nl</file>
<file>/usr/bin/nice</file>
<file>/usr/bin/mv</file>
<file>/usr/bin/mktemp</file>
<file>/usr/bin/mknod</file>
<file>/usr/bin/mkfifo</file>
<file>/usr/bin/mkdir</file>
<file>/usr/bin/md5sum</file>
<file>/usr/bin/ls</file>
<file>/usr/bin/logname</file>
<file>/usr/bin/ln</file>
<file>/usr/bin/link</file>
<file>/usr/bin/join</file>
<file>/usr/bin/install</file>
<file>/usr/bin/id</file>
<file>/usr/bin/hostid</file>
<file>/usr/bin/head</file>
<file>/usr/bin/groups</file>
<file>/usr/bin/fold</file>


```

<file>/usr/bin/fmt</file>
<file>/usr/bin/false</file>
<file>/usr/bin/factor</file>
<file>/usr/bin/expr</file>
<file>/usr/bin/expand</file>
<file>/usr/bin/env</file> <<<<<<-----
-----
<file>/usr/bin/echo</file>
<file>/usr/bin/du</file>
<file>/usr/bin/dirname</file>
<file>/usr/bin/dircolors</file>
<file>/usr/bin/dir</file>
<file>/usr/bin/df</file>
<file>/usr/bin/dd</file>
<file>/usr/bin/date</file>
<file>/usr/bin/cut</file>
<file>/usr/bin/csplits</file>
<file>/usr/bin/cp</file>
<file>/usr/bin/comm</file>
<file>/usr/bin/cksum</file>
<file>/usr/bin/chown</file>
<file>/usr/bin/chmod</file>
<file>/usr/bin/chgrp</file>
<file>/usr/bin/chcon</file>
<file>/usr/bin/cat</file>
<file>/usr/bin/basename</file>
<file>/usr/bin/base64</file>
<file>/usr/bin/arch</file>
<file>/usr/bin/[</file>
<file>/etc/profile.d/colorls.sh</file>
<file>/etc/profile.d/colorls.csh</file>
<file>/etc/DIR_COLORS.lightbgcolor</file>
<file>/etc/DIR_COLORS.256color</file>
<file>/etc/DIR_COLORS</file>
</format>
</package>

```

With the tags present in the repo metadata **yum deplist** can resolve the dependencies (and yum update works too):

```

$> yum deplist dbus
Loaded plugins: fastestmirror
Loading mirror speeds from cached hostfile
package: dbus.x86_64 1:1.10.24-15.e17
  dependency: /bin/sh
    provider: bash.x86_64 4.2.46-34.e17
  dependency: /usr/bin/env
    provider: coreutils.x86_64 8.22-24.e17_9.2 <<<<<<-----
-----
  dependency: /usr/sbin/useradd
    provider: shadow-utils.x86_64 2:4.6-5.e17
  dependency: dbus-libs(x86-64) = 1:1.10.24-15.e17
    provider: dbus-libs.x86_64 1:1.10.24-15.e17
  dependency: libaudit.so.1() (64bit)
    provider: audit-libs.x86_64 2.8.5-4.e17
  dependency: libc.so.6(GLIBC_2.14) (64bit)
    provider: glibc.x86_64 2.17-323.e17_9
  dependency: libcap-ng.so.0() (64bit)
    provider: libcap-ng.x86_64 0.7.5-4.e17
  dependency: libdbus-1.so.3() (64bit)
    provider: dbus-libs.x86_64 1:1.10.24-15.e17
  dependency: libdbus-1.so.3(LIBDBUS_1_3) (64bit)
    provider: dbus-libs.x86_64 1:1.10.24-15.e17
  dependency: libdbus-1.so.3(LIBDBUS_PRIVATE_1.10.24) (64bit)
    provider: dbus-libs.x86_64 1:1.10.24-15.e17
  dependency: libexpat.so.1() (64bit)
    provider: expat.x86_64 2.1.0-12.e17
  dependency: libpthread.so.0() (64bit)

```

```
provider: glibc.x86_64 2.17-323.el7_9
dependency: libpthread.so.0 (GLIBC_2.2.5) (64bit)
provider: glibc.x86_64 2.17-323.el7_9
dependency: libselinux(x86-64) >= 1.15.2
provider: libselinux.x86_64 2.5-15.el7
dependency: libselinux.so.1() (64bit)
provider: libselinux.x86_64 2.5-15.el7
dependency: libsystemd.so.0() (64bit)
provider: systemd-libs.x86_64 219-78.el7_9.3
dependency: libsystemd.so.0 (LIBSYSTEMD_209) (64bit)
provider: systemd-libs.x86_64 219-78.el7_9.3
dependency: rtdl(GNU_HASH)
provider: glibc.x86_64 2.17-323.el7_9
provider: glibc.i686 2.17-323.el7_9
dependency: systemd
provider: systemd.x86_64 219-78.el7_9.3
```

History

#1 - 06/24/2021 06:27 PM - dalley

- Status changed from NEW to CLOSED - CURRENTRELEASE

pneerincx, thanks for the report.

This bug was introduced in pulp_rpm 3.13.0 and should be fixed in the 3.13.2 release shipped last night. Unfortunately some of the packages which were synced within that time period will have incorrect metadata.

What you should do is:

1. delete any repository versions created since upgrading to 3.13.0
2. cleanup orphan content, which should remove the corrupt packages
3. make sure pulp_rpm is updated to 3.13.2 and restart the pulp services
4. sync the repos again

Let me know if you have any questions, I can help with the steps

#2 - 06/25/2021 02:16 PM - pneerincx

Dear Daley,

We already tried al of the above except for 2. *cleanup orphan content, which should remove the corrupt packages*

Does Pulp modify packages when it downloads them from a remote? We are relatively new to Pulp and I expected only the repo meta data to be wrong, but not the packages themselves. If Pulp does modify the packages I'd be interested to know why. Any pointer to some documentation would be appreciated.

Cheers,

Pieter

#3 - 08/12/2021 02:11 AM - dalley

Hello, apologies for losing track of this issue.

The fix that was merged in 3.13.2 was incomplete and so we had to fix it, again, in 3.14.0. Because of the greater impact, we created a repair script which is available along with instructions on this issue.

<https://pulp.plan.io/issues/9107#note-19>