

## RPM Support - Issue #1138

### Install applicable errata consumer task does not report kernel packages were updated

07/14/2015 10:22 PM - bmbouter

<b>Status:</b>	CLOSED - CURRENTRELEASE	<b>Start date:</b>	
<b>Priority:</b>	High	<b>Due date:</b>	
<b>Assignee:</b>	semyers	<b>Estimated time:</b>	0:00 hour
<b>Category:</b>		<b>Groomed:</b>	No
<b>Sprint/Milestone:</b>		<b>Sprint Candidate:</b>	No
<b>Severity:</b>	3. High	<b>Tags:</b>	Pulp 2
<b>Version:</b>		<b>Sprint:</b>	
<b>Platform Release:</b>	2.8.1	<b>Quarter:</b>	
<b>OS:</b>			
<b>Triaged:</b>	Yes		

**Description**

When the API is used to have Pulp notify a consumer is updated, the task report that shows the errata details after it completed does not include kernel packages. Since kernel packages are available in errata for the specified consumer, it is expected they will be included in the report. It's not known if the errata actually did install or not, but I suspect they did.

This is likely due to the nature of yum which always installs kernel errata and never "updates" them. This is a special case for errata behavior that we should handle differently.

#### Associated revisions

##### Revision 3c9f71c1 - 03/10/2016 04:19 PM - semyers

Include "TS\_TRUEINSTALL" as a valid package state

When installing or updating packages in a consumer, pulp inspects the yum transaction report to decide how to report its actions in the task result. pulp was excluding the "TS\_TRUEINSTALL" state, which yum uses as the state of a transaction that updated or installed one of the special packages that can be installed multiple times, such as the kernel.

Including (or rather, not excluding) that state in pulp's transaction reporting lets those packages be included in pulp's task results.

<https://pulp.plan.io/issues/1138> fixes #1138

#### History

##### #1 - 07/14/2015 10:23 PM - bmbouter

Possibly tangentially related to this 2.4.1 fixed bug? [https://bugzilla.redhat.com/show\\_bug.cgi?id=1118501](https://bugzilla.redhat.com/show_bug.cgi?id=1118501)

##### #2 - 07/17/2015 04:55 PM - jortel@redhat.com

- Priority changed from Normal to High

- Triaged changed from No to Yes

##### #3 - 03/01/2016 12:05 AM - semyers

- Status changed from NEW to ASSIGNED

- Assignee set to semyers

##### #4 - 03/07/2016 10:46 PM - semyers

I played some logic-branching code plinko for a little while with this one, but a PR is up now:

[https://github.com/pulp/pulp\\_rpm/pull/820](https://github.com/pulp/pulp_rpm/pull/820)

What I found is that yum keeps a list[0] of "Install-only packages". As the description would imply, these are the packages that yum does not update. Rather, it only ever installs them, installing multiple versions simultaneously if needed. When yum installs or updates these packages, instead of using the "normal" TS\_INSTALL or TS\_UPDATE transaction state, it reports TS\_TRUEINSTALL to differentiate the transaction result from that of a normal package.

Install[1] and update[2] were the only places where I see this short-circuiting to the "addTrueInstall" method happen, and indeed the only place that I would assume that this would happen now that I know it **does** happen, so those are the only bits of code that needed to be updating. Updating the

yum mock that we use to test this code was another matter entirely, but is also included in the linked PR.

So, the problem as reported was that the kernel package wasn't being included in task results, like this one:

```
...
"result": {
  "num_changes": 4,
  "reboot": {
    "scheduled": false,
    "details": {}
  },
  "succeeded": true,
  "details": {
    "rpm": {
      "details": {
        "resolved": [
          {
            "name": "kernel-tools-libs",
            "qname": "kernel-tools-libs-3.10.0-327.10.1.el7.x86_64",
            "epoch": "0",
            "version": "3.10.0",
            "release": "327.10.1.el7",
            "arch": "x86_64",
            "repoid": "rhel7"
          },
          {
            "name": "python-perf",
            "qname": "python-perf-3.10.0-327.10.1.el7.x86_64",
            "epoch": "0",
            "version": "3.10.0",
            "release": "327.10.1.el7",
            "arch": "x86_64",
            "repoid": "rhel7"
          },
          {
            "name": "kernel-tools",
            "qname": "kernel-tools-3.10.0-327.10.1.el7.x86_64",
            "epoch": "0",
            "version": "3.10.0",
            "release": "327.10.1.el7",
            "arch": "x86_64",
            "repoid": "rhel7"
          }
        ],
        "failed": [],
        "deps": []
      },
      "succeeded": true
    }
  },
  ...
}
```

This is what you get now (this time with kernel!):

```
...
"result": {
  "num_changes": 4,
  "reboot": {
    "scheduled": false,
    "details": {}
  },
  "succeeded": true,
  "details": {
    "rpm": {
      "details": {
        "resolved": [
          {
            "name": "kernel-tools-libs",
            "qname": "kernel-tools-libs-3.10.0-327.10.1.el7.x86_64",
            "epoch": "0",
            "version": "3.10.0",
            "release": "327.10.1.el7",
            "arch": "x86_64",
            "repoid": "rhel7"
          }
        ]
      }
    }
  }
}
```

```

    },
    {
      "name": "python-perf",
      "qname": "python-perf-3.10.0-327.10.1.el7.x86_64",
      "epoch": "0",
      "version": "3.10.0",
      "release": "327.10.1.el7",
      "arch": "x86_64",
      "repopid": "rhel7"
    },
    {
      "name": "kernel",
      "qname": "kernel-3.10.0-327.10.1.el7.x86_64",
      "epoch": "0",
      "version": "3.10.0",
      "release": "327.10.1.el7",
      "arch": "x86_64",
      "repopid": "rhel7"
    },
    {
      "name": "kernel-tools",
      "qname": "kernel-tools-3.10.0-327.10.1.el7.x86_64",
      "epoch": "0",
      "version": "3.10.0",
      "release": "327.10.1.el7",
      "arch": "x86_64",
      "repopid": "rhel7"
    }
  ],
  "failed": [],
  "deps": []
},
"succeeded": true
}
}
...

```

[0]:

<http://yum.baseurl.org/gitweb?p=yum.git;a=blob:f=yum/config.py:h=6bd8d24f709f5b7f45e64ede5e66650ac2701466;hb=d15697ca2b6a74701e900e5f36396dc23a024651#1762>

[1]:

<http://yum.baseurl.org/gitweb?p=yum.git;a=blob:f=yum/transactioninfo.py:h=8d47caabbaac91cca1706efd1630fc5fb30aacda;hb=d15697ca2b6a74701e900e5f36396dc23a024651#1453>

[2]:

<http://yum.baseurl.org/gitweb?p=yum.git;a=blob:f=yum/transactioninfo.py:h=8d47caabbaac91cca1706efd1630fc5fb30aacda;hb=d15697ca2b6a74701e900e5f36396dc23a024651#1502>

#### #5 - 03/08/2016 03:26 PM - semyers

- Status changed from ASSIGNED to POST
- Platform Release set to 2.8.1

#### #6 - 03/15/2016 12:26 AM - semyers

- Status changed from POST to MODIFIED
- % Done changed from 0 to 100

Applied in changeset [3c9f71c17a6d2cd6896e80a6b738e00f9d61677e](https://bugzilla.redhat.com/show_bug.cgi?id=1414141).

#### #7 - 03/23/2016 07:55 PM - semyers

- Status changed from MODIFIED to 5

#### #8 - 04/05/2016 10:19 PM - semyers

- Status changed from 5 to CLOSED - CURRENTRELEASE

#### #10 - 04/15/2019 10:45 PM - bmbouter

- Tags Pulp 2 added