

## Pulp - Task #133

### Replace pulp.devel.test\_runner with tox

01/22/2015 10:46 PM - bmbouter

<b>Status:</b> CLOSED - WONTFIX	<b>Start date:</b>
<b>Priority:</b> Normal	<b>Due date:</b>
<b>Assignee:</b>	<b>% Done:</b> 0%
<b>Category:</b>	<b>Estimated time:</b> 0:00 hour
<b>Sprint/Milestone:</b>	<b>Tags:</b> Pulp 2
<b>Platform Release:</b>	<b>Sprint:</b>
<b>Groomed:</b> No	<b>Quarter:</b>
<b>Sprint Candidate:</b> No	

**Description**

**Motivation**  
This is a task to replace the ./run-tests.py modules in platform AND all plugins. Developers should be able to pass arguments to ./run-tests.py and have it pass them through to nose. We could fix that defect, or we could stop maintaining run-tests.py and use tox instead.

**Requirements**

1. Remove run-tests.py in platform and all plugins
2. Remove pulp.devel.test\_runner
3. List tox as a developer dependency somehow (I'm a little unclear on where to put this)
4. Add a tox configuration to platform and plugins which provides the same behaviors (flake8, test selection based on OS, etc).
5. Update the development docs accordingly.
6. Consider if any changes need to be done to the dev setup scripts to accommodate this

**Related issues:**  
Blocks Pulp - Task #919: Add Jenkins job to ensure all tests pass independantly **CLOSED - WONTFIX**

#### History

**#1 - 03/04/2015 07:53 PM - bmbouter**

- Tags Sprint Candidate added

**#2 - 03/04/2015 08:09 PM - cduryee**

Could we replace run-tests.py with tox? I think tox is more standard.

**#3 - 03/04/2015 10:34 PM - bcourt**

+1 to using tox or some other standard framework for testrunning.

**#4 - 03/04/2015 11:14 PM - bmbouter**

+1 also for using tox or something we don't maintain ourselves.

Do we need tox, or can we just use nosetests directly? The only reason I can think of to use tox is that on some platforms we only want certain unit tests to run. Does tox give us that or can we get nosetests to do it correctly without adding another thing like tox?

**#5 - 03/04/2015 11:48 PM - cduryee**

bmbouter wrote:

+1 also for using tox or something we don't maintain ourselves.

Do we need tox, or can we just use nosetests directly? The only reason I can think of to use tox is that on some platforms we only want certain unit tests to run. Does tox give us that or can we get nosetests to do it correctly without adding another thing like tox?

Tox also lets you run flake8 etc with the options you want. An example from subscription-manager:

```
[pep8]
ignore=E121,E122,E123,E124,E125,E126,E127,E128,E129,E131,E265,E402,E501,E713,E714,E731
max-line-length=300
[flake8]
ignore=E121,E122,E123,E124,E125,E126,E127,E128,E129,E131,E265,E402,E501,E713,E714,E731
exclude=*certdata*,*manifestdata*
jobs=auto
max-line-length=300
```

I believe we'd be able to get rid of run-tests.py entirely if we can run flake8 and pep8 from tox.

**#6 - 03/04/2015 11:52 PM - amacdona@redhat.com**

+1 for tox, it will also allow us to run the tests with different versions of python on our own machines.

**#7 - 03/05/2015 01:56 PM - bmbouter**

Upstream celery uses tox to test multiple Python versions. That is awesome. I went to set up the different Python versions on my computer also, but I found it really difficult. I gave up before I got it working.

**#8 - 03/05/2015 03:45 PM - bmbouter**

- *Description updated*

I rewrote the task based on the tox discussion.

One thing I'm not sure about is how to list it as a dependency. In setup.py? In the spec file as a build dep? Is tox available everywhere and what version? In the developer setup script?

**#9 - 03/05/2015 04:56 PM - rbarlow**

On 03/05/2015 09:45 AM, bmbouter wrote:> One thing I'm not sure about is how to list it as a dependency. In

setup.py? In the spec file as a build dep? Is tox available everywhere and what version? In the developer setup script?

It doesn't belong in setup.py or in the spec file IMO. We could still have a run-tests.py that is just a thin wrapper around it, and if it detects that it's missing it gives a helpful error message.

**#10 - 03/06/2015 03:37 PM - bmbouter**

- Subject changed from *Make ./run-tests.py pass through arguments to nosetests* to *Replace pulp.devel.test\_runner with tox*
- Tags deleted (*Sprint Candidate*)

**#11 - 04/27/2015 04:44 PM - bmbouter**

- Blocks deleted (*Refactor #132: Ensure all tests can be run independantly*)

**#12 - 04/27/2015 04:50 PM - bmbouter**

- Blocks Task #919: *Add Jenkins job to ensure all tests pass independantly* added

**#13 - 04/12/2019 07:39 PM - bmbouter**

- Status changed from *NEW* to *CLOSED - WONTFIX*

**#14 - 04/12/2019 07:43 PM - bmbouter**

Pulp 2 is approaching maintenance mode, and this Pulp 2 ticket is not being actively worked on. As such, it is being closed as WONTFIX. Pulp 2 is still accepting contributions though, so if you want to contribute a fix for this ticket, please reopen or comment on it. If you don't have permissions to reopen this ticket, or you want to discuss an issue, please reach out via the [developer mailing list](#).

**#15 - 04/15/2019 11:20 PM - bmbouter**

- Tags *Pulp 2* added