Arvados - Bug #9242

[Deployment] python-six backport breaks other users

05/19/2016 05:04 PM - Brett Smith

Status: Resolved
Priority: Normal
Assigned To: Brett Smith
Category: Deployment
Target version: 2016-06-08 sprint

Description
The arvados supplied python-six deb (1.10.0-1) is a newer version than the stock ubuntu 14.04 version (1.5.2-1ubuntu1), so replaces it. The version supplied by ubuntu installs to /usr/lib/python2.7/dist-packages/ as expected, but the arvados version installs to /usr/local/lib/python2.7/dist-packages.

The stock ubuntu python-scipy package contains a symbolic link as follows:
/usr/lib/python2.7/dist-packages/scipy/lib/six.py -> ../../six.py

With the stock python-six installed this is fine, but of course with the arvados version this symlink is broken.

Current thinking is that the best way to fix this is to have our backport install its files to /usr/lib instead of /usr/local/lib. If we want it to act as a drop-in replacement package, it should maintain as much compatibility as possible, including having files in the original locations.

Subtasks:
Task # 9247: Review 9242-python-backport-prefix-wip Resolved

Associated revisions
Revision ae72b172 - 05/31/2016 08:09 PM - Brett Smith
Merge branch '9242-python-backport-prefix-wip'
Closes #9242, #9247.

Revision 3aae316c - 05/31/2016 08:54 PM - Brett Smith
9242: Update Python module paths for CentOS 6.
I am more sure that this is correct, based on multiple data points from Python 2 and 3 packages across CentOS 6 and 7. This might be a change that's fallout from 44ceaa474a330f12dd9e00115af107d7258044f2. Refs #9242.

Revision 76549a60 - 05/31/2016 09:36 PM - Brett Smith
9242: Restore newer backported versions of Python packages.
I accidentally reverted this in 758d39f. Refs #9242.

History
#1 - 05/19/2016 07:46 PM - Brett Smith
- Status changed from New to In Progress
- Assigned To set to Brett Smith
- Target version set to 2016-05-25 sprint

#2 - 05/20/2016 07:53 PM - Brett Smith
- File pkgtest.log.xz added

Brett Smith wrote:
Current thinking is that the best way to fix this is to have our backport install its files to /usr/lib instead of /usr/local/lib. If we want it to act as a
drop-in replacement package, it should maintain as much compatibility as possible, including having files in the original locations.

9242-python-backport-prefix-wip is up for review to implement this. I have built and tested the packages on all targets. See the attached test log.

#3 - 05/25/2016 04:59 PM - Brett Smith
- Target version changed from 2016-05-25 sprint to 2016-06-08 sprint

#4 - 05/31/2016 02:41 PM - Ward Vandewege
reviewing 9242-python-backport-prefix-wip: LGTM. Thanks for the various cleanups.

#5 - 05/31/2016 03:28 PM - Brett Smith
Ward Vandewege wrote:

reviewing 9242-python-backport-prefix-wip: LGTM. Thanks for the various cleanups.

Dealing with a merge conflict, I realized I had a bug: I took the --iteration switch out of a few lines, not realizing that they were calling fpm directly instead of fpm_build.

I have rebased the branch on master, and updated those lines to use fpm_build, so they'll continue to benefit from smarts that we add there. Now at 970fab5. The only lines that are changed relative to the previous review is the hunk referring to schema_salad et al.

#6 - 05/31/2016 06:01 PM - Ward Vandewege
Brett Smith wrote:

Ward Vandewege wrote:

reviewing 9242-python-backport-prefix-wip: LGTM. Thanks for the various cleanups.

Dealing with a merge conflict, I realized I had a bug: I took the --iteration switch out of a few lines, not realizing that they were calling fpm directly instead of fpm_build.

Oh! I thought that was on purpose, since they were superfluous (--iteration 1).

I have rebased the branch on master, and updated those lines to use fpm_build, so they'll continue to benefit from smarts that we add there. Now at 970fab5. The only lines that are changed relative to the previous review is the hunk referring to schema_salad et al.

Very nice. Great improvement. You can drop the --verbose --log info from the rdflib-jsonld build line, there's no reason for that. Of course this now bumps the iteration to 2 for the schema_salad, ruamel.yaml, cwltool and rdflib-jsonld builds, for no real reason. Maybe add --iteration 1 to those lines?

Otherwise, LGTM!

#7 - 05/31/2016 08:05 PM - Brett Smith
Ward Vandewege wrote:

Brett Smith wrote:

Dealing with a merge conflict, I realized I had a bug: I took the --iteration switch out of a few lines, not realizing that they were calling fpm directly instead of fpm_build.

Oh! I thought that was on purpose, since they were superfluous (--iteration 1).

That's not superfluous: if you run fpm without any --iteration, you get a package with no iteration, which is different than a package with iteration 1. But the reason I took them out is because my intent was to let fpm_build set the iteration. Like I said, I thought they were fpm_build lines, and now they are.

I have rebased the branch on master, and updated those lines to use fpm_build, so they'll continue to benefit from smarts that we add there. Now at 970fab5. The only lines that are changed relative to the previous review is the hunk referring to schema_salad et al.

Very nice. Great improvement. You can drop the --verbose --log info from the rdflib-jsonld build line, there's no reason for that.

Done in 5520e6c.
Of course this now bumps the iteration to 2 for the schema_salad, ruamel.yaml, cwltool and rdflib-jsonld builds, for no real reason.

There is a real reason: all the files have moved around inside the package. (This is the functional reason to switch to fpm_build: so the packages use distro-like paths instead of /usr/local.) Since there's a non-functional package change, bumping the iteration is the right thing to do.

Thanks.

#8 - 05/31/2016 08:08 PM - Ward Vandewege
Brett Smith wrote:

Ward Vandewege wrote:

Brett Smith wrote:

Dealing with a merge conflict, I realized I had a bug: I took the --iteration switch out of a few lines, not realizing that they were calling fpm directly instead of fpm_build.

Oh! I thought that was on purpose, since they were superfluous (--iteration 1).

That's not superfluous: if you run fpm without any --iteration, you get a package with no iteration, which is different than a package with iteration 1. But the reason I took them out is because my intent was to let fpm_build set the iteration. Like I said, I thought they were fpm_build lines, and now they are.

I have rebased the branch on master, and updated those lines to use fpm_build, so they'll continue to benefit from smarts that we add there. Now at 970fab5. The only lines that are changed relative to the previous review is the hunk referring to schema_salad et al.

Very nice. Great improvement. You can drop the --verbose --log info from the rdflib-jsonld build line, there's no reason for that.

Done in 5520e6c.

Of course this now bumps the iteration to 2 for the schema_salad, ruamel.yaml, cwltool and rdflib-jsonld builds, for no real reason.

There is a real reason: all the files have moved around inside the package. (This is the functional reason to switch to fpm_build: so the packages use distro-like paths instead of /usr/local.) Since there's a non-functional package change, bumping the iteration is the right thing to do.

Thanks.

OK makes sense. LGTM.

#9 - 05/31/2016 08:15 PM - Brett Smith
- Status changed from In Progress to Resolved
- % Done changed from 0 to 100

Applied in changeset arvados|commit:ae72b172c8bf8a52358a89f8a8d744ec5bf2d993.

Files

| pkgtest.log.xz | 34.4 KB | 05/20/2016 | Brett Smith |