# Arvados - Bug #16434

## python3-arvados-cwl-runner package broken on Debian 10 and Ubuntu 18.04

05/14/2020 01:32 AM - Ward Vandewege

| | | | | |
|---|---|---|---|---|
| **Status:** | Resolved | | **Start date:** | |
| **Priority:** | Normal | | **Due date:** | |
| **Assigned To:** | Ward Vandewege | | **% Done:** | 100% |
| **Category:** | | | **Estimated time:** | 0.00 hour |
| **Target version:** | 2020-05-20 Sprint | | | |

**Description**

This is version 2.0.2 on a clean buster install:

```
21:27:37 + cwl-runner hasher-workflow.cwl hasher-workflow-job.yml
21:27:38 Traceback (most recent call last):
21:27:38   File "/usr/bin/cwl-runner", line 8, in <module>
21:27:38     from arvados_cwl import main
21:27:38   File "/usr/share/python3/dist/python3-arvados-cwl-runner/lib/python3.7/site-packages/ar
vados_cwl/__init__.py", line 58, in <module>
21:27:38     import cwltool.main
21:27:38   File "/usr/share/python3/dist/python3-arvados-cwl-runner/lib/python3.7/site-packages/cw
ltool/main.py", line 35, in <module>
21:27:38     from . import command_line_tool, workflow
21:27:38   File "/usr/share/python3/dist/python3-arvados-cwl-runner/lib/python3.7/site-packages/cw
ltool/command_line_tool.py", line 38, in <module>
21:27:38     from .docker import DockerCommandLineJob
21:27:38   File "/usr/share/python3/dist/python3-arvados-cwl-runner/lib/python3.7/site-packages/cw
ltool/docker.py", line 4, in <module>
21:27:38     from distutils import spawn
21:27:38   File "/usr/share/python3/dist/python3-arvados-cwl-runner/lib/python3.7/distutils/__init
__.py", line 44, in <module>
21:27:38     from distutils import dist, sysconfig  # isort:skip
21:27:38 ImportError: cannot import name 'dist' from 'distutils' (/usr/share/python3/dist/python3-
arvados-cwl-runner/lib/python3.7/distutils/__init__.py)
21:27:38 Build step 'Execute shell' marked build as failure
```

The python2 version works. Our other distro packages may also be affected. We need to add a test for this in the packaging tests (just add a simple execution of cwl-runner with a fake API host and token).

**Related issues:**

| | | |
|---|---|---|
| Related to Arvados - Bug #16611: arvados-docker-cleaner package broken on De... | | **Resolved** |

## Associated revisions

**Revision 595e6ca9 - 05/15/2020 01:01 AM - Ward Vandewege**

Merge branch '16434-fix-python3-arvados-cwl-runner-packaging'

closes #16434

## History

**#1 - 05/14/2020 01:33 AM - Ward Vandewege**

- *Description updated*

**#2 - 05/14/2020 01:34 AM - Ward Vandewege**

- *Description updated*

**#3 - 05/14/2020 09:23 PM - Ward Vandewege**

- *Target version changed from To Be Groomed to 2020-05-20 Sprint*

- *Assigned To set to Ward Vandewege*

- *Status changed from New to In Progress*

More information:

- this affects master as well as the 2.0 branch
- this affects Debian 10 (python 3.7) and Ubuntu 18.04 (python 3.6)
- CentOS 7 (python 3.6), Debian 9 (python 3.5) and Ubuntu 16.04 (python 3.5) are not affected

What's happening is that /usr/share/python3/dist/python3-arvados-cwl-runner/lib/python3.7/distutils/__init__.py goes out of its way to load the **system** distutils to get to stdlib. On Debian 10, the (partial) system python3 distutils comes from the *libpython3.7-stdlib* package, which does not include *dist.py*. Boom.

It's worth noting that it works fine on Debian 9 and Ubuntu 1604, where the (partial) system python3 distutils comes from the *libpython3.5-stdlib* package, which includes *dist.py*.

The workaround is easy: install the *python3-distutils* systemwide to provide the necessary dist.py. I added it as a dependency on our python3-arvados-cwl-runner packages for Debian 10+ and Ubuntu 18.04+.

### #4 - 05/15/2020 01:02 AM - Anonymous

*- % Done changed from 0 to 100*

*- Status changed from In Progress to Resolved*

Applied in changeset [arvados|595e6ca982543526862211dc132b46f949129447](arvados|595e6ca982543526862211dc132b46f949129447).

### #5 - 05/15/2020 01:08 AM - Ward Vandewege

*- Subject changed from python3-arvados-cwl-runner package broken on buster to python3-arvados-cwl-runner package broken on Debian 10 and Ubuntu 18.04*

### #6 - 05/21/2020 12:49 AM - Ward Vandewege

*- Release set to 33*

### #7 - 07/16/2020 11:28 AM - Javier Bértoli

*- Related to Bug #16611: arvados-docker-cleaner package broken on Debian 10 and Ubuntu 18.04 added*

### #8 - 08/17/2020 07:20 PM - Ward Vandewege

The fix on the 2.0-dev branch (in release 2.0.3 and 2.0.4) was botched, but the fix in master is correct. I pushed a fix in [9b6a214f4feb90845640bce53efa34d544c701e9](9b6a214f4feb90845640bce53efa34d544c701e9) on the 2.0-dev branch, but we have no plans for a 2.0.5 at the moment. Release 2.1 will have the proper fix.