Arvados - Feature #14819

Upgrade the arvados/jobs image to Debian Stretch

02/07/2019 09:06 PM - Ward Vandewege

<table>
<thead>
<tr>
<th>Status:</th>
<th>Resolved</th>
<th>Start date:</th>
<th>02/27/2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>Priority:</td>
<td>Normal</td>
<td>Due date:</td>
<td></td>
</tr>
<tr>
<td>Assigned To:</td>
<td>Ward Vandewege</td>
<td>% Done:</td>
<td>100%</td>
</tr>
<tr>
<td>Category:</td>
<td></td>
<td>Estimated time:</td>
<td>0.00 hour</td>
</tr>
<tr>
<td>Target version:</td>
<td>2019-03-13 Sprint</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Description

Subtasks:
Task # 14842: Review 14819-arvados-jobs-on-stretch

Resolved

Related issues:
Copied to Arvados - Feature #16476: Upgrade the arvados/jobs image to Debian ...

Resolved 02/27/2019

Associated revisions

Revision 494b80a7 - 03/01/2019 02:30 PM - Ward Vandewege
Merge branch '14819-arvados-jobs-on-stretch'
closes #14819

Arvados-DCO-1.1-Signed-off-by: Ward Vandewege <wvandewege@veritasgenetics.com>

Revision 89c5953f - 03/13/2019 03:55 PM - Ward Vandewege
Switch to stretch-slim as the base image for arvados/jobs, this results in a smaller image.

<table>
<thead>
<tr>
<th>arvados/jobs</th>
<th>1.3.1.20190308210512 2a6c5e4993e7</th>
<th>4 days ago</th>
<th>284MB</th>
</tr>
</thead>
<tbody>
<tr>
<td>arvados/jobs</td>
<td>latest</td>
<td>0cfff29120dd</td>
<td>20 minutes ago</td>
</tr>
</tbody>
</table>

refs #14819

Arvados-DCO-1.1-Signed-off-by: Ward Vandewege <wvandewege@veritasgenetics.com>

History

#1 - 02/07/2019 09:06 PM - Ward Vandewege
- Status changed from New to In Progress

#2 - 02/07/2019 09:06 PM - Ward Vandewege
- Release deleted (22)

#3 - 02/07/2019 09:08 PM - Ward Vandewege
I have e96d8ec54ca0661d42099a90bd2a0f7756dfe90 (branch: 14819-arvados-jobs-on-stretch) ready for review.

#4 - 02/13/2019 04:10 PM - Tom Morris
- Target version set to 2019-02-27 Sprint

#5 - 02/27/2019 04:07 PM - Peter Amstutz
#RUN cat gpg --no-tty --import /tmp/1078ECD7.key

This line should probably be deleted?

#6 - 02/27/2019 04:12 PM - Peter Amstutz
RUN apt-get install -yq --no-install-recommends gpg procps

Are these necessary?
I wonder if are these still needed now that we have the virtualenv packages? If they are needed, they should be pulled in as dependencies of python-arvados-cwl-runner not listed explicitly.

If we can slim down the image that seems like it would be a good thing.

---

#7 - 02/27/2019 04:22 PM - Tom Morris
- Target version changed from 2019-02-27 Sprint to 2019-03-13 Sprint

#8 - 02/28/2019 06:36 PM - Ward Vandewege
I've addressed your comments in [37c46ca294ce95242ac424c8375a130d783f6d1e](37c46ca294ce95242ac424c8375a130d783f6d1e)

The latest arvados/jobs image in head is 405MB.

After this commit merges, it will be down to 281MB.

#9 - 02/28/2019 07:02 PM - Peter Amstutz
I'm running into version issues, I don't know if this is something that will happen on jenkins as well or I should be working around it somehow:

```
Step 15/18 : RUN apt-get install -yq --no-install-recommends nodejs python-arvados-python-client=$python_sdk_version python-arvados-cwl-runner=$cwl_runner_version
```

```
--- Running in 488310a7c95a
Reading package lists...
Reading state information...
```

E: Version '1.3.1.20190205182514-1' for 'python-arvados-python-client' was not found
E: Version '1.3.1.20190206223817-1' for 'python-arvados-cwl-runner' was not found
The command '/bin/sh -c apt-get install -yq --no-install-recommends nodejs python-arvados-python-client=$python_sdk_version python-arvados-cwl-runner=$cwl_runner_version' returned a non-zero code: 100

#10 - 02/28/2019 07:47 PM - Peter Amstutz

1.3.0.20190205182514 exists but 1.3.1.20190205182514 does not.

So the problem is here:

```
ARVADOS_BUILDING_VERSION="$(git tag -l |sort -V -r |head -n1).$(date -ud "@$git_ts" +%Y%m%d%H%M%S)"
```

The latest tag is "1.3.1" but this branch is 3 weeks old, when the branch was created, the latest tag was 1.3.0.

This is an old problem with our versioning scheme that isn't really specific to this branch but does affect reproducibility of builds. Better logic would be get the most recent tag looking on at commits earlier than this one.

But if we don't want to fix that, in the short term if we rebase onto master then I can probably build and test successfully.

#11 - 02/28/2019 07:48 PM - Peter Amstutz

2nd question, are we are officially dropping support for crunch v1 in the next version? I need to know if I should test if this image is capable of running crunch v1 jobs.

#12 - 02/28/2019 08:00 PM - Ward Vandewege

Peter Amstutz wrote:

```
I'm running into version issues, I don't know if this is something that will happen on jenkins as well or I should be working around it somehow:

[...]
```

This is expected, for testing you need to set ARVADOS_BUILDING_VERSION. After merge, this will work correctly (it picks up the git revision from the tree, and when we run this script, the packages will exist).

#13 - 02/28/2019 08:00 PM - Ward Vandewege

Peter Amstutz wrote:

```
1.3.0.20190205182514 exists but 1.3.1.20190205182514 does not.
```

So the problem is here:
The latest tag is "1.3.1" but this branch is 3 weeks old, when the branch was created, the latest tag was 1.3.0.

This is an old problem with our versioning scheme that isn't really specific to this branch but does affect reproducibility of builds. Better logic would be get the most recent tag looking on at commits earlier than this one.

But if we don't want to fix that, in the short term if we rebase onto master then I can probably build and test successfully.

This is expected, for testing you need to set ARVADOS_BUILDING_VERSION. After merge, this will work correctly (it picks up the git revision from the tree, and when we run this script, the packages will exist).

### #14 - 02/28/2019 10:07 PM - Peter Amstutz
In order to avoid breaking crunchv1

```bash
RUN rm -rf /usr/bin/python && ln -s /usr/share/python2.7/dist/python-arvados-python-client/bin/python /usr/bin/python
```

needs to be

```bash
RUN rm -rf /usr/bin/python && ln -s /usr/share/python2.7/dist/python-arvados-cwl-runner/bin/python /usr/bin/python
```

### #15 - 03/01/2019 01:42 PM - Ward Vandewege

Peter Amstutz wrote:

```
[...]
```

needs to be

```
[...]
```

Good catch, pushed at dd969e81dfbe0ff1b60c85841aa01e51b45c574

### #16 - 03/01/2019 02:22 PM - Peter Amstutz

Ward Vandewege wrote:

```
Peter Amstutz wrote:

[...]
```

needs to be

```
[...]
```

Good catch, pushed at dd969e81dfbe0ff1b60c85841aa01e51b45c574

LGTM

### #17 - 03/01/2019 02:55 PM - Ward Vandewege

- Status changed from In Progress to Resolved

Applied in changeset arvados|494b80a7e5f324bbd09a6b879149a1c57bd637b.

### #18 - 03/01/2019 07:33 PM - Tom Morris

- Release set to 15

### #20 - 06/01/2020 06:53 PM - Ward Vandewege

- Copied to Feature #16476: Upgrade the arvados/jobs image to Debian Buster added