

Arvados - Story #16264

Handle R SDK dependencies better

03/18/2020 09:20 PM - Peter Amstutz

Status:	Resolved	Start date:	
Priority:	Normal	Due date:	
Assigned To:	Ward Vandewege	% Done:	100%
Category:	SDKs	Estimated time:	0.00 hour
Target version:	2020-10-07 Sprint		

Description

Our build was broken for a while because Rcpp (a transitive dependency of a package we depend on) had a new release that is broken on R 3.3.

We were running our tests on Debian 9, which ships with R 3.3.

A fix was committed to upstream Rcpp, so the problem resolved itself, but we should have a more stable strategy for R dependencies.

Recompiling R dependencies every time is also very expensive.

Options

Use Debian packages

When we did the R SDK originally (about two years ago) most of the packages we needed were not in Debian. Since then, it appears they have been added to Debian 10, and are also available in a Debian 9 backport:

<https://packages.debian.org/search?keywords=r-cran-devtools&searchon=names&suite=all§ion=all>

Of course this requires targeting Debian for the test builds, but we do that already. To get the maximum benefit it also requires that all the R packages we need are in Debian.

Pinned install

R doesn't have anything like a Gemfile.lock or "pip freeze". However someone has created a tool that computes an install plan so each package is installed at exactly each version we want.

<https://www.ccdatalab.org/blog/2019/8/9/pinning-transitive-r-dependencies-for-fun-and-reproducible-builds>

This works on any R install. The drawback is that we still end up compiling the whole world every time.

Subtasks:

Task # 16879: Review

New

Related issues:

Related to Arvados - Bug #16267: arvbox build uses arvados-server install	Resolved	09/24/2020
Related to Arvados - Story #16053: [boot] subcommand to install/update dev an...	Resolved	03/31/2020
Related to Arvados - Bug #16586: ArvadosR: Dependency package(s) 'XML' not av...	Resolved	

Associated revisions

Revision 27992e62 - 09/24/2020 09:01 PM - Ward Vandewege

Merge branch '16264-add-r-dependencies' into master

closes #16264

Arvados-DCO-1.1-Signed-off-by: Ward Vandewege <ward@curii.com>

History

#1 - 03/18/2020 09:39 PM - Peter Amstutz

- Description updated

#2 - 03/20/2020 02:51 PM - Peter Amstutz

- Related to Bug #16267: arvbox build uses arvados-server install added

#3 - 03/20/2020 02:52 PM - Peter Amstutz

Currently I think the solution is for [#16053](#) to include installing the appropriate R packages from Debian 10.

#4 - 03/20/2020 02:52 PM - Peter Amstutz

- Related to Story #16053: [boot] subcommand to install/update dev and runtime dependencies added

#5 - 03/25/2020 02:00 PM - Peter Amstutz

- Category set to SDKs

#6 - 03/25/2020 03:57 PM - Peter Amstutz

- Target version changed from 2020-04-08 Sprint to 2020-04-22

#7 - 04/08/2020 04:12 PM - Peter Amstutz

- Target version changed from 2020-04-22 to 2020-05-06 Sprint

#8 - 04/22/2020 02:59 PM - Peter Amstutz

- Target version changed from 2020-05-06 Sprint to 2020-05-20 Sprint

#9 - 05/06/2020 02:25 PM - Peter Amstutz

- Target version changed from 2020-05-20 Sprint to 2020-06-03 Sprint

#10 - 05/18/2020 05:30 PM - Peter Amstutz

- Target version changed from 2020-06-03 Sprint to 2020-06-17 Sprint

#11 - 05/27/2020 02:11 PM - Peter Amstutz

- Target version changed from 2020-06-17 Sprint to 2020-07-01 Sprint

#12 - 06/17/2020 04:10 PM - Peter Amstutz

- Target version changed from 2020-07-01 Sprint to 2020-07-15

#13 - 07/01/2020 04:08 PM - Peter Amstutz

- Target version changed from 2020-07-15 to 2020-08-12 Sprint

#14 - 07/07/2020 02:22 PM - Peter Amstutz

- Related to Bug #16586: ArvadosR: Dependency package(s) 'XML' not available. added

#15 - 07/07/2020 02:24 PM - Peter Amstutz

- Description updated

#16 - 07/13/2020 06:04 PM - Peter Amstutz

- Target version changed from 2020-08-12 Sprint to 2020-08-26 Sprint

#17 - 08/04/2020 08:56 PM - Peter Amstutz

- Target version changed from 2020-08-26 Sprint to 2020-09-09 Sprint

#18 - 08/26/2020 04:29 PM - Peter Amstutz

- Target version changed from 2020-09-09 Sprint to 2020-09-23 Sprint

#19 - 09/09/2020 04:23 PM - Peter Amstutz

- Target version changed from 2020-09-23 Sprint to 2020-10-07 Sprint

#20 - 09/23/2020 01:55 PM - Peter Amstutz

Now that all the test infrastructure (including arvbox) is on Debian 10, we can install the following packages for development and everything works great:

r-cran-devtools r-cran-knitr r-cran-markdown r-cran-roxygen2 r-cran-xml

#21 - 09/23/2020 04:21 PM - Peter Amstutz

- Assigned To set to Ward Vandewege

#22 - 09/24/2020 07:50 PM - Ward Vandewege

- Status changed from New to In Progress

#23 - 09/24/2020 07:53 PM - Ward Vandewege

Peter Amstutz wrote:

Now that all the test infrastructure (including arvbox) is on Debian 10, we can install the following packages for development and everything works great:

r-cran-devtools r-cran-knitr r-cran-markdown r-cran-roxygen2 r-cran-xml

I've added those packages to the dependencies that are installed by `arvados-server install -type test`.

A quick test in arvbox showed a large reduction in the time needed to build the R documentation, I recorded 6.41s for the old way (from flock release to done), and 1:23s with this patch.

Ready for review at [4adf06fe21ff6aa9c08afee2268871c85394b217](https://github.com/Arvados/arvados/pull/4621) on branch 16264-add-r-dependencies.

This is the log for the R doc generation with the patch applied:

```
2020-09-24_19:36:24.30744 + [[ ! -f /usr/src/arvados/doc/no-sdk ]]
2020-09-24_19:36:24.30746 + cd /usr/src/arvados/sdk/R
2020-09-24_19:36:24.30748 + R --quiet --vanilla --file=install_deps.R
2020-09-24_19:36:24.47131 > # Copyright (C) The Arvados Authors. All rights reserved.
2020-09-24_19:36:24.47134 > #
2020-09-24_19:36:24.47134 > # SPDX-License-Identifier: Apache-2.0
2020-09-24_19:36:24.47134 >
2020-09-24_19:36:24.47134 > options(repos=structure(c(CRAN="http://cran.wustl.edu/")))
2020-09-24_19:36:24.47136 > if (!requireNamespace("devtools")) {
2020-09-24_19:36:24.47138 +   install.packages("devtools")
2020-09-24_19:36:24.47139 + }
2020-09-24_19:36:24.47272 Loading required namespace: devtools
2020-09-24_19:36:25.04066 > if (!requireNamespace("roxygen2")) {
2020-09-24_19:36:25.04069 +   install.packages("roxygen2")
2020-09-24_19:36:25.04069 + }
2020-09-24_19:36:25.04086 Loading required namespace: roxygen2
2020-09-24_19:36:25.21787 > if (!requireNamespace("knitr")) {
2020-09-24_19:36:25.21789 +   install.packages("knitr")
2020-09-24_19:36:25.21790 + }
2020-09-24_19:36:25.21790 > if (!requireNamespace("markdown")) {
2020-09-24_19:36:25.21790 +   install.packages("markdown")
2020-09-24_19:36:25.21791 + }
2020-09-24_19:36:25.21806 Loading required namespace: markdown
2020-09-24_19:36:25.22394 > if (!requireNamespace("XML")) {
2020-09-24_19:36:25.22396 +   # XML 3.99-0.4 depends on R >= 4.0.0, but we run tests on debian
2020-09-24_19:36:25.22397 +   # stable (10) with R 3.5.2 so we install an older version from
2020-09-24_19:36:25.22397 +   # source.
2020-09-24_19:36:25.22397 +   install.packages("https://cran.r-project.org/src/contrib/Archive/XML/XML_3.99-0.3.tar.gz", repos=NULL, type="source")
2020-09-24_19:36:25.22399 + }
2020-09-24_19:36:25.22412 Loading required namespace: XML
2020-09-24_19:36:25.39980 >
2020-09-24_19:36:25.39982 > devtools::install_dev_deps()
2020-09-24_19:36:27.53800
2020-09-24_19:36:29.26694
2020-09-24_19:36:29.26708 >
2020-09-24_19:36:29.29854 + test ' ' = --only-deps
2020-09-24_19:36:29.29856 + cd /usr/src/arvados/doc
2020-09-24_19:36:29.29864 + bundle exec rake generate baseurl=http://172.17.0.2:8001 arvados_api_host=172.17.0.2:8000 arvados_workbench_host=http://172.17.0.2
2020-09-24_19:36:29.78374 zenweb-fix-body.rb:4: warning: already initialized constant ZenwebTextile::VERSION
2020-09-24_19:36:29.78379 zenweb-textile.rb:8: warning: previous definition of VERSION was here
2020-09-24_19:36:29.78400 rm -rf sdk/python/arvados
2020-09-24_19:36:29.78410 rm -rf sdk/R
2020-09-24_19:36:29.78947 rm -rf sdk/java-v2/javadoc
2020-09-24_19:36:29.79626 rm -rf
```

```

2020-09-24_19:36:29.79634 rm -rf .site
2020-09-24_19:36:29.82145 ^[[0;91;49mWarning: pdoc3 not found, Python documentation will not be generated^[[0m
2020-09-24_19:36:29.83433 cp css/R.css sdk/R/arvados
2020-09-24_19:36:29.83434 tgt
2020-09-24_19:36:29.83434 /usr/src/arvados/doc
2020-09-24_19:36:30.59352 Loading required package: knitr
2020-09-24_19:36:30.59354 Loading required package: markdown
2020-09-24_19:36:30.59354
2020-09-24_19:36:30.59354 processing file: README.Rmd
2020-09-24_19:36:30.59355 ^M | ^M
| | 0%^M |
| | 1%
| | 2%
2020-09-24_19:36:30.59355 ordinary text without R code
2020-09-24_19:36:30.59355
2020-09-24_19:36:30.59356 ^M | ^M
|.. | 2%
2020-09-24_19:36:30.59356 label: unnamed-chunk-1 (with options)
2020-09-24_19:36:30.59356 List of 1
2020-09-24_19:36:30.59356 $ include: logi FALSE
2020-09-24_19:36:30.59357 ^M | ^M
|.. | 3%
2020-09-24_19:36:30.59357 ordinary text without R code
2020-09-24_19:36:30.59357
2020-09-24_19:36:30.59358 ^M | ^M
|... | 4%
2020-09-24_19:36:30.59358 label: unnamed-chunk-2
2020-09-24_19:36:30.59359 ^M | ^M
|.... | 6%
2020-09-24_19:36:30.59359 ordinary text without R code
2020-09-24_19:36:30.59359
2020-09-24_19:36:30.59359 ^M | ^M
|..... | 7%
2020-09-24_19:36:30.59360 label: unnamed-chunk-3 (with options)
2020-09-24_19:36:30.59360 List of 1
2020-09-24_19:36:30.59360 $ engine: chr "bash"
2020-09-24_19:36:30.59360
2020-09-24_19:36:30.59361 ^M | ^M
|..... | 8%
2020-09-24_19:36:30.59361 ordinary text without R code
2020-09-24_19:36:30.59361
2020-09-24_19:36:30.59362 ^M | ^M
|..... | 9%
2020-09-24_19:36:30.59362 label: unnamed-chunk-4 (with options)
2020-09-24_19:36:30.59362 List of 1
2020-09-24_19:36:30.59362 $ engine: chr "bash"
2020-09-24_19:36:30.59363 ^M | ^M
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2020-09-24_19:36:30.59364 ordinary text without R code
2020-09-24_19:36:30.59364
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|..... | 11%
2020-09-24_19:36:30.59365 label: unnamed-chunk-5
2020-09-24_19:36:30.59365 ^M | ^M
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2020-09-24_19:36:30.59366 ordinary text without R code
2020-09-24_19:36:30.59366
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2020-09-24_19:36:30.59366 label: unnamed-chunk-6
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|..... | 16%
2020-09-24_19:36:30.59368 label: unnamed-chunk-7
2020-09-24_19:36:30.59368 ^M | ^M
|..... | 17%
2020-09-24_19:36:30.59369 ordinary text without R code
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2020-09-24_19:36:30.59369	label: unnamed-chunk-8		
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2020-09-24_19:36:30.59371	label: unnamed-chunk-9		
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2020-09-24_19:36:30.59371	ordinary text without R code		
2020-09-24_19:36:30.59372			
2020-09-24_19:36:30.59372	^M		^M
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2020-09-24_19:36:30.59372	label: unnamed-chunk-10		
2020-09-24_19:36:30.59373	^M		^M
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2020-09-24_19:36:30.59373	ordinary text without R code		
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2020-09-24_19:36:30.59374	label: unnamed-chunk-11		
2020-09-24_19:36:30.59374	^M		^M
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2020-09-24_19:36:30.59374	ordinary text without R code		
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2020-09-24_19:36:30.59379	label: unnamed-chunk-14		
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2020-09-24_19:36:30.59379	ordinary text without R code		
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2020-09-24_19:36:30.59380	label: unnamed-chunk-15		
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2020-09-24_19:36:30.59382	ordinary text without R code		
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2020-09-24_19:36:30.59383	label: unnamed-chunk-17		
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2020-09-24_19:36:30.59385	label: unnamed-chunk-18		
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2020-09-24_19:36:30.59385	ordinary text without R code		

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2020-09-24_19:36:30.59386
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2020-09-24_19:36:30.59386 label: unnamed-chunk-19
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2020-09-24_19:36:30.59387 ordinary text without R code
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2020-09-24_19:36:30.59387 label: unnamed-chunk-20
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2020-09-24_19:36:30.59388 ordinary text without R code
2020-09-24_19:36:30.59389
2020-09-24_19:36:30.59389 ^M |
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2020-09-24_19:36:30.59389 label: unnamed-chunk-21
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2020-09-24_19:36:30.59390 ordinary text without R code
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2020-09-24_19:36:30.59391 label: unnamed-chunk-22
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|.....| 51%
2020-09-24_19:36:30.59391 ordinary text without R code
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2020-09-24_19:36:30.59392 ^M |
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2020-09-24_19:36:30.59392 label: unnamed-chunk-23
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2020-09-24_19:36:30.59393 ordinary text without R code
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2020-09-24_19:36:30.59393 label: unnamed-chunk-24
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2020-09-24_19:36:30.59395 label: unnamed-chunk-25
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2020-09-24_19:36:30.59395 ordinary text without R code
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2020-09-24_19:36:30.59396 label: unnamed-chunk-26
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|.....| 61%
2020-09-24_19:36:30.59397 label: unnamed-chunk-27
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|.....| 62%
2020-09-24_19:36:30.59398 ordinary text without R code
2020-09-24_19:36:30.59398
2020-09-24_19:36:30.59398 ^M |
|.....| 63%
2020-09-24_19:36:30.59399 label: unnamed-chunk-28
2020-09-24_19:36:30.59399 ^M |
|.....| 64%
2020-09-24_19:36:30.59400 ordinary text without R code
2020-09-24_19:36:30.59400
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|.....| 65%
2020-09-24_19:36:30.59401 label: unnamed-chunk-29
2020-09-24_19:36:30.59401 ^M |

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.....		66%	
2020-09-24_19:36:30.59401	ordinary text without R code		
2020-09-24_19:36:30.59401			
2020-09-24_19:36:30.59402	^M		^M
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2020-09-24_19:36:30.59402	label: unnamed-chunk-30		
2020-09-24_19:36:30.59402	^M		^M
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2020-09-24_19:36:30.59402	ordinary text without R code		
2020-09-24_19:36:30.59403			
2020-09-24_19:36:30.59403	^M		^M
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2020-09-24_19:36:30.59403	label: unnamed-chunk-31		
2020-09-24_19:36:30.59403	^M		^M
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2020-09-24_19:36:30.59404	ordinary text without R code		
2020-09-24_19:36:30.59404			
2020-09-24_19:36:30.59405	^M		^M
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2020-09-24_19:36:30.59405	label: unnamed-chunk-32		
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2020-09-24_19:36:30.59405	ordinary text without R code		
2020-09-24_19:36:30.59406			
2020-09-24_19:36:30.59406	^M		^M
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2020-09-24_19:36:30.59406	label: unnamed-chunk-33		
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2020-09-24_19:36:30.59407	ordinary text without R code		
2020-09-24_19:36:30.59407			
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2020-09-24_19:36:30.59407	label: unnamed-chunk-34		
2020-09-24_19:36:30.59408	^M		^M
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2020-09-24_19:36:30.59408	ordinary text without R code		
2020-09-24_19:36:30.59409			
2020-09-24_19:36:30.59409	^M		^M
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2020-09-24_19:36:30.59409	label: unnamed-chunk-35		
2020-09-24_19:36:30.59409	^M		^M
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2020-09-24_19:36:30.59410	ordinary text without R code		
2020-09-24_19:36:30.59410			
2020-09-24_19:36:30.59410	^M		^M
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2020-09-24_19:36:30.59410	label: unnamed-chunk-36		
2020-09-24_19:36:30.59411	^M		^M
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2020-09-24_19:36:30.59411	ordinary text without R code		
2020-09-24_19:36:30.59411			
2020-09-24_19:36:30.59412	^M		^M
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2020-09-24_19:36:30.59412	label: unnamed-chunk-37		
2020-09-24_19:36:30.59413	^M		^M
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2020-09-24_19:36:30.59413	ordinary text without R code		
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2020-09-24_19:36:30.59413	^M		^M
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2020-09-24_19:36:30.59414	label: unnamed-chunk-38		
2020-09-24_19:36:30.59414	^M		^M
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2020-09-24_19:36:30.59414	ordinary text without R code		
2020-09-24_19:36:30.59414			
2020-09-24_19:36:30.59414	^M		^M
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2020-09-24_19:36:30.59415	label: unnamed-chunk-39		
2020-09-24_19:36:30.59415	^M		^M
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2020-09-24_19:36:30.59415	ordinary text without R code		
2020-09-24_19:36:30.59415			
2020-09-24_19:36:30.59416	^M		^M
.....		90%	

```

2020-09-24_19:36:30.59416 label: unnamed-chunk-40
2020-09-24_19:36:30.59417 ^M |
|.....| 91%
2020-09-24_19:36:30.59417 ordinary text without R code
2020-09-24_19:36:30.59417
2020-09-24_19:36:30.59417 ^M |
|.....| 92%
2020-09-24_19:36:30.59418 label: unnamed-chunk-41
2020-09-24_19:36:30.59418 ^M |
|.....| 93%
2020-09-24_19:36:30.59418 ordinary text without R code
2020-09-24_19:36:30.59418
2020-09-24_19:36:30.59419 ^M |
|.....| 94%
2020-09-24_19:36:30.59419 label: unnamed-chunk-42
2020-09-24_19:36:30.59419 ^M |
|.....| 96%
2020-09-24_19:36:30.59420 ordinary text without R code
2020-09-24_19:36:30.59420
2020-09-24_19:36:30.59420 ^M |
|.....| 97%
2020-09-24_19:36:30.59421 label: unnamed-chunk-43
2020-09-24_19:36:30.59421 ^M |
|.....| 98%
2020-09-24_19:36:30.59421 ordinary text without R code
2020-09-24_19:36:30.59421
2020-09-24_19:36:30.59422 ^M |
|.....| 99%
2020-09-24_19:36:30.59422 label: unnamed-chunk-44 (with options)
2020-09-24_19:36:30.59422 List of 1
2020-09-24_19:36:30.59422 $ engine: chr "bash"
2020-09-24_19:36:30.59423
2020-09-24_19:36:30.59423 ^M |
|.....| 100%
2020-09-24_19:36:30.59423 ordinary text without R code
2020-09-24_19:36:30.59424
2020-09-24_19:36:30.59424
2020-09-24_19:36:30.59424 output file: /usr/src/arvados/doc/sdk/R/README.md
2020-09-24_19:36:30.59424
2020-09-24_19:36:30.59425 [1] "/usr/src/arvados/doc/sdk/R/README.md"
2020-09-24_19:37:42.36398 Starting a Gradle Daemon, 1 incompatible and 2 stopped Daemons could not be reused,
use --status for details

```

#24 - 09/24/2020 08:57 PM - Peter Amstutz

LGTM.

#25 - 09/24/2020 08:58 PM - Peter Amstutz

Please update the jenkins test image as well

#26 - 09/24/2020 09:13 PM - Ward Vandewege

- % Done changed from 0 to 100

- Status changed from In Progress to Resolved

Applied in changeset [arvados|27992e62e71eb2ad4297c4eb3f4e787c4b000b90](https://arvados.org/commit/27992e62e71eb2ad4297c4eb3f4e787c4b000b90).

#27 - 09/25/2020 06:27 PM - Ward Vandewege

- File 20200925-doc-gen-timing.png added

After rebuilding the compute image on Jenkins:

20200925-doc-gen-timing.png

#28 - 10/07/2020 02:11 AM - Peter Amstutz

- Release set to 25

Files

20200925-doc-gen-timing.png	91.4 KB	09/25/2020	Ward Vandewege
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