

Arvados - Feature #18574

Helper methods for working with vocabularies

12/09/2021 06:44 PM - Peter Amstutz

Status: Resolved	Start date: 03/01/2022
Priority: Normal	Due date:
Assigned To: Lucas Di Pentima	% Done: 100%
Category: SDKs	Estimated time: 0.00 hour
Target version: 2022-03-16 sprint	
Description Add features to Python SDK to make it easier to work with the vocabularies introduced in 2.3.1. Should include fetching the vocabulary, and methods that make it simple to perform lookups using both standardized ids and aliases. Use design from ticket #18651	
Subtasks: Task # 18776: Review 18574-pysdk-vocabulary-support Resolved Task # 18821: Add documentation to cookbook Resolved	
Related issues: Related to Arvados Epics - Story #17454: Vocabulary checking of properties by... Resolved 10/01/2021 03/31/2022 Related to Arvados - Feature #18576: arv-put converts properties aliases to v... New Related to Arvados - Feature #18810: PySDK API Client wrapper methods that au... New Blocked by Arvados - Feature #18645: Design for search in dialogue window to ... Resolved 02/09/2022	

Associated revisions

Revision a154e1e4 - 03/04/2022 08:33 PM - Lucas Di Pentima

Merge branch '18574-pysdk-vocabulary-support'. Closes #18574

Arvados-DCO-1.1-Signed-off-by: Lucas Di Pentima <lucas.dipentima@curii.com>

History

#1 - 12/09/2021 06:44 PM - Peter Amstutz

- Status changed from New to In Progress

#2 - 12/09/2021 06:47 PM - Peter Amstutz

- Description updated

#3 - 12/10/2021 02:24 PM - Peter Amstutz

- Related to Story #17454: Vocabulary checking of properties by API server/controller added

#4 - 12/10/2021 02:52 PM - Peter Amstutz

- Related to Feature #18576: arv-put converts properties aliases to vocabulary ids added

#5 - 12/10/2021 02:56 PM - Peter Amstutz

- Description updated

#6 - 12/10/2021 02:56 PM - Peter Amstutz

- Target version set to 2022-02-02 sprint

#7 - 12/10/2021 02:56 PM - Peter Amstutz

- Status changed from In Progress to New

#8 - 01/19/2022 04:53 PM - Peter Amstutz

- Blocked by Feature #18645: Design for search in dialogue window to select Project added

#9 - 01/19/2022 04:53 PM - Peter Amstutz

- Target version changed from 2022-02-02 sprint to 2022-02-16 sprint

#11 - 02/02/2022 03:53 PM - Peter Amstutz

- Description updated

#12 - 02/02/2022 04:16 PM - Peter Amstutz

- Target version changed from 2022-02-16 sprint to 2022-03-02 sprint

#13 - 02/16/2022 04:30 PM - Lucas Di Pentima

- Assigned To set to Lucas Di Pentima

#14 - 02/21/2022 02:51 PM - Lucas Di Pentima

- Status changed from New to In Progress

#15 - 02/28/2022 09:47 PM - Lucas Di Pentima

Updates at [062d4e0](#) - branch 18574-pysdk-vocabulary-support

Test run: [developer-run-tests: #2935](#) [icon?job=developer-run-tests&build=2935](#)

- Updates arvados.api to be able to fetch the vocabulary definition exported by the controller.
- Adds vocabulary.Vocabulary, vocabulary.VocabularyKey and vocabulary.VocabularyValue classes adding the following features:
 - Case-insensitive key/value indexing.
 - Conversion to/from identifiers/labels.
 - Preferred label retrieval for every key or value.
- Adds vocabulary.load_vocabulary() function that accepts an API client object so that it loads the corresponding vocabulary definition.
- Adds tests.

Pending

- Wrapper methods that translates properties on get, list, update, create, etc as requested by Tom.

#16 - 02/28/2022 10:11 PM - Lucas Di Pentima

Updates at [13c8401a8](#)

Test run: [developer-run-tests: #2936](#) [icon?job=developer-run-tests&build=2936](#)

- Fixes doc test failures.

#17 - 03/01/2022 02:56 PM - Lucas Di Pentima

Re-running failed test run: [developer-run-tests-remainder: #3071](#) [icon?job=developer-run-tests-remainder&build=3071](#)

#18 - 03/01/2022 03:31 PM - Lucas Di Pentima

From chat with Tom: We'll make a separate ticket for the wrapping functions on the api client object and look for feedback from developers on how this would be useful.

<https://dev.arvados.org/issues/18810>

#19 - 03/01/2022 04:19 PM - Lucas Di Pentima

- Related to Feature #18810: PySDK API Client wrapper methods that automatically translate properties using a vocabulary added

#20 - 03/01/2022 10:16 PM - Peter Amstutz

18574-pysdk-vocabulary-support @ [13c8401a89d34cc412e76ade8f112a31b9988e4f](#)

- It looks like convert_to_identifiers() / convert_to_labels() doesn't handle lists in the "value" position.

#21 - 03/01/2022 11:12 PM - Lucas Di Pentima

Updates at [a480283b6](#) - [developer-run-tests: #2939](#) [icon?job=developer-run-tests&build=2939](#)

- Adds support for value list conversion.
- Adds tests.
- Generalize conversion code to avoid duplication.

#22 - 03/02/2022 03:54 PM - Lucas Di Pentima

- Target version changed from 2022-03-02 sprint to 2022-03-16 sprint

#23 - 03/02/2022 07:10 PM - Lucas Di Pentima

Updates at [b6ffac07e - developer-run-tests: #2940 icon?job=developer-run-tests&build=2940](#)

- Fixes a bug for cases when a key doesn't have any values defined.
- Adds a couple of cookbook examples to the docs.

#24 - 03/02/2022 08:11 PM - Peter Amstutz

What happens for when calling `_convert_to_what` with non-string property values:

- null
- a number
- an object
- a list containing these

#25 - 03/02/2022 08:13 PM - Peter Amstutz

Also, the cookbook entries using the REPL are inconsistent with the other cookbook entries which are small standalone programs, I think a standalone code snippet showing "Translating between vocabulary identifiers and labels" would be most useful.

#26 - 03/03/2022 02:21 PM - Lucas Di Pentima

Updates at [1d7078e64 - developer-run-tests: #2942 icon?job=developer-run-tests&build=2942](#)

- Fixes cookbook recipes formatting.
- Improves type checking on keys & values.
- Improves code's layout to minimize nesting try: except: blocks.
- Adds tests.

#27 - 03/04/2022 08:28 PM - Peter Amstutz

Lucas Di Pentima wrote:

Updates at [1d7078e64 - developer-run-tests: #2942 icon?job=developer-run-tests&build=2942](#)

- Fixes cookbook recipes formatting.
- Improves type checking on keys & values.
- Improves code's layout to minimize nesting try: except: blocks.
- Adds tests.

LGTM

#28 - 03/04/2022 08:37 PM - Lucas Di Pentima

- % Done changed from 0 to 100

- Status changed from In Progress to Resolved

Applied in changeset `arvados-private:commit:arvados|a154e1e469ea09fd7a54b79367a811dac673d058`.

#29 - 03/24/2022 07:28 PM - Peter Amstutz

- Release set to 46