

Arvados - Bug #16374

[Documentation] Improve golang docs + OpenApi v3 comments

04/28/2020 03:27 PM - Nico César

Status:	Rejected	Start date:	08/26/2020
Priority:	Normal	Due date:	
Assigned To:	Nico César	% Done:	100%
Category:	Documentation	Estimated time:	0.00 hour
Target version:	2020-08-26 Sprint		
Description			
<p>https://doc.arvados.org/v1.4/sdk/go/example.html has the title "Arvados Python Examples"</p> <p>the example starts with a #<Liquid::Comment:0x0000561e37195428> that should not be there.</p> <p>and compilation fails:</p> <pre>go build . go: finding module for package git.curoverse.com/arvados.git/sdk/go/arvadosclient go: downloading git.curoverse.com/arvados.git v0.0.0-20200424144959-9e9775694f6b go: found git.curoverse.com/arvados.git/sdk/go/arvadosclient in git.curoverse.com/arvados.git v0.0.0-20200424144959-9e9775694f6b go: github.com/nicoesar/arvados-forecaster imports git.curoverse.com/arvados.git/sdk/go/arvadosclient: git.curoverse.com/arvados.git@v0.0.0-20200424144959-9e9775694f6b: parsing go.mod: module declares its path as: git.arvados.org/arvados.git but was required as: git.curoverse.com/arvados.git</pre> <p>s/git.curoverse.com/git.arvados.org/g did make it work BTW</p> <p>also golint output:</p> <pre>golint main.go main.go:37:17: struct field Uuid should be UUID main.go:75:9: don't use underscores in Go names; var collection_fields_wanted should be collectionFieldsWanted main.go:102:25: don't use underscores in Go names; var item_map should be itemMap</pre>			
Subtasks:			
Task # 16543: Review			Closed
Related issues:			
Related to Arvados - Feature #16866: Support OpenAPI			New

Associated revisions

Revision 22c4e045 - 08/05/2020 11:08 PM - Nico Cesar

WIP added minimum boilerplate to test OpenAPI v3 support

refs #16374

Arvados-DCO-1.1-Signed-off-by: Nico Cesar <nico@curii.com>

Revision b3eed876 - 08/06/2020 03:29 PM - Nico Cesar

WIP added minimum boilerplate to test OpenAPI v3 support

refs #16374

Arvados-DCO-1.1-Signed-off-by: Nico Cesar <nico@curii.com>

History

#1 - 04/28/2020 03:44 PM - Nico César

- Description updated

#2 - 05/12/2020 03:10 PM - Nico César

- Project changed from *Lightning private* to *Arvados*

#3 - 05/20/2020 04:01 PM - Nico César

- Target version set to *2020-06-03 Sprint*

- Category set to *Documentation*

#4 - 06/03/2020 03:46 PM - Peter Amstutz

- Status changed from *New* to *In Progress*

#5 - 06/03/2020 03:46 PM - Peter Amstutz

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

#6 - 06/17/2020 03:32 PM - Nico César

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

new branch 16374-improve-go-doc (wip)

#7 - 06/17/2020 03:33 PM - Nico César

- Subject changed from *Improve golang documentation* to *[Documentation] Improve golang sdk docs*

#8 - 06/29/2020 07:28 PM - Nico César

started branch 16374-godoc-improvements to add comments that will reflect in godoc

#9 - 07/01/2020 03:32 PM - Peter Amstutz

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

#10 - 07/15/2020 03:53 PM - Nico César

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

Maybe we should close this one for now, there is a branch but doesn't have much, and is mostly about comments in the code

#11 - 08/05/2020 08:23 PM - Nico César

- Subject changed from *[Documentation] Improve golang sdk docs* to *[Documentation] Improve golang docs + OpenApi v3 comments*

Today during the engineering meeting we talk about starting OpenAPI v3 comments in some of the controller methods so they can be used as documentation and maybe in the future to implement clients in different language

Following <https://github.com/mikunalpha/goas> I started with a prototype in the 16534-example-api-pkg branch

#12 - 08/05/2020 11:14 PM - Nico César

commit 22c4e0450 is just a test

(I had to change go.mod because of <https://github.com/mikunalpha/goas/issues/10> hoping that they fix that soon)

to install <https://github.com/mikunalpha/goas>:

```
go get github.com/mikunalpha/goas
```

```
cd ~/arvados
```

```
~/go/bin/goas --debug --module-path . --main-file-path cmd/arvados-server/cmd.go
```

that will generate oas.json

to generate a client for example:

```
docker run -e GO_POST_PROCESS_FILE="/usr/local/bin/gofmt -w" --rm -v ${PWD}:/local openapitools/openapi-generator-cli generate -i /local/oas.json -g go -o /local/out/go
```

#13 - 08/06/2020 09:16 PM - Nico César

after a long session of debugging I concluded that <https://github.com/mikunalpha/goas/issues/10> was a bigger problem than I thought so I migrated to go standard library and submitted a PR <https://github.com/mikunalpha/goas/issues/11>

I **don't** think the author is actively developing this, So I created my own fork. We'll see if this ends up being a good idea or not, I'm also gathering information on the rationale of the rest of the forks

#14 - 08/07/2020 06:48 PM - Nico César

After today's meeting we have this document.

<https://docs.google.com/document/d/17OksCBxA471bJnSbpRdmDqnRCjANg7RDQUbvIhbbZM8/edit>

#15 - 08/07/2020 11:26 PM - Nico César

I tried to use the <https://github.com/LucyBot-lnc/api-spec-converter> unsuccessfully

```
wget -O test.json https://pirca.arvadosapi.com/discovery/v1/apis/arvados/v1/rest
grep -E '"type": "[^"]+"' test.json --color -o|sort -u
"type": "array"
"type": "Array"
"type": "boolean"
"type": "datetime"
"type": "float"
"type": "Hash"
"type": "integer"
"type": "object"
"type": "string"
"type": "text"
```

```
[nico:~] $ api-spec-converter -f google -t openapi_3 test.json
Fatal AssertionError: Error during conversion: Error during conversion: type specified not supported
    at processParameter (/usr/local/node-v6.11.2-linux-x64/lib/node_modules/api-spec-converter/node_modules/google-discovery-to-swagger/src/index.js:349:10)
    at /usr/local/node-v6.11.2-linux-x64/lib/node_modules/api-spec-converter/node_modules/google-discovery-to-swagger/src/index.js:333:19
    at /usr/local/node-v6.11.2-linux-x64/lib/node_modules/api-spec-converter/node_modules/lodash/lodash.js:492:5:15
    at baseForOwn (/usr/local/node-v6.11.2-linux-x64/lib/node_modules/api-spec-converter/node_modules/lodash/lodash.js:2990:24)
    at /usr/local/node-v6.11.2-linux-x64/lib/node_modules/api-spec-converter/node_modules/lodash/lodash.js:489:4:18
    at Function.forEach (/usr/local/node-v6.11.2-linux-x64/lib/node_modules/api-spec-converter/node_modules/lodash/lodash.js:9368:14)
    at LodashWrapper.Object..(anonymous function) [as each] (/usr/local/node-v6.11.2-linux-x64/lib/node_modules/api-spec-converter/node_modules/lodash/lodash.js:15758:25)
    at processParameterList (/usr/local/node-v6.11.2-linux-x64/lib/node_modules/api-spec-converter/node_modules/google-discovery-to-swagger/src/index.js:332:34)
    at processMethod (/usr/local/node-v6.11.2-linux-x64/lib/node_modules/api-spec-converter/node_modules/google-discovery-to-swagger/src/index.js:281:22)
    at processMethodList (/usr/local/node-v6.11.2-linux-x64/lib/node_modules/api-spec-converter/node_modules/google-discovery-to-swagger/src/index.js:229:33)
    at processSubResource (/usr/local/node-v6.11.2-linux-x64/lib/node_modules/api-spec-converter/node_modules/google-discovery-to-swagger/src/index.js:235:17)
    at /usr/local/node-v6.11.2-linux-x64/lib/node_modules/api-spec-converter/node_modules/google-discovery-to-swagger/src/index.js:182:24
    at /usr/local/node-v6.11.2-linux-x64/lib/node_modules/api-spec-converter/node_modules/lodash/lodash.js:492:5:15
    at baseForOwn (/usr/local/node-v6.11.2-linux-x64/lib/node_modules/api-spec-converter/node_modules/lodash/lodash.js:2990:24)
    at /usr/local/node-v6.11.2-linux-x64/lib/node_modules/api-spec-converter/node_modules/lodash/lodash.js:489:4:18
    at Function.forEach (/usr/local/node-v6.11.2-linux-x64/lib/node_modules/api-spec-converter/node_modules/lodash/lodash.js:9368:14)
```

As we can see in

`/usr/local/node-v6.11.2-linux-x64/lib/node_modules/api-spec-converter/node_modules/google-discovery-to-swagger/src/index.js` line 349

```
assert.ok(['string', 'number', 'integer', 'boolean'].indexOf(param.type) >= 0, 'type specified not supported');
```

... only this 4 types are accepted.

#16 - 08/12/2020 03:31 PM - Nico César

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

#17 - 08/12/2020 03:32 PM - Nico César

What should be the next task here?

<https://docs.google.com/document/d/17OksCBxA471bJnSbpRdmDqnRCjANg7RDQUbvlhbbZM8/edit?ts=5f315005> has open questions

#18 - 08/26/2020 03:50 PM - Nico César

- Status changed from In Progress to Rejected

#19 - 08/26/2020 03:53 PM - Nico César

We dont have the bandwidth to do all the OpenApi v3 specification right now, I'm closing the ticket for now

#20 - 10/16/2020 04:50 PM - Nico César

- Related to Feature #16866: Support OpenAPI added