

Arvados - Bug #17530

[arvados-client] when ARVADOS_API_HOST/TOKEN are not set, error out quickly

04/13/2021 05:11 PM - Ward Vandewege

Status:	Resolved	Start date:	04/15/2021
Priority:	Normal	Due date:	
Assigned To:	Nico César	% Done:	100%
Category:		Estimated time:	0.00 hour
Target version:	2021-04-28 bughunt sprint		
Description			
arvados-client then tries to connect to an empty ARVADOS_API_HOST and times out after 30s. What it should do is error out immediately with an appropriate message.			
Subtasks:			
Task # 17538: Review 17530-arvados-client-fastfail-take2			Resolved

Associated revisions

Revision b7c424bb - 04/16/2021 09:00 PM - Nico Cesar

Merge branch '17530-arvados-client-fastfail-take2'

closes #17530

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

History

#1 - 04/13/2021 05:12 PM - Ward Vandewege

- Description updated

#2 - 04/14/2021 04:06 PM - Lucas Di Pentima

- Assigned To set to Lucas Di Pentima

#3 - 04/14/2021 04:16 PM - Lucas Di Pentima

- Assigned To changed from Lucas Di Pentima to Nico César

#4 - 04/14/2021 06:50 PM - Nico César

- Status changed from New to In Progress

Is this a current ticket? I compiled arvados-client from [e46caaf835e32106e2da5aa7f895435bd4718da6](https://github.com/Arvados/arvados-client/commit/e46caaf835e32106e2da5aa7f895435bd4718da6)

I tried with

```
unset ARVADOS_API_HOST
unset ARVADOS_API_TOKEN
./arvados-client get zzzzz-somej-12345678901234
ARVADOS_API_HOST and/or ARVADOS_API_TOKEN environment variables are not set
```

and

```
export ARVADOS_API_TOKEN=""
export ARVADOS_API_HOST=""
./arvados-client get zzzzz-somej-12345678901234
ARVADOS_API_HOST and/or ARVADOS_API_TOKEN environment variables are not set
```

both of them failed fast

#5 - 04/14/2021 07:46 PM - Nico César

- Assigned To changed from Nico César to Ward Vandewege

- Status changed from In Progress to Feedback

@Ward, Can you describe how to reproduce this error?

#6 - 04/14/2021 07:58 PM - Ward Vandewege

Nico César wrote:

@Ward, Can you describe how to reproduce this error?

Maybe it's specific to certain subcommands, e.g. (from current head):

```
$ ./arvados-client costanalyzer ce8i5-xvhdp-83ie178618dkxv4
2021/04/14 15:57:14 error reading "/etc/arvados/ca-certificates.crt": open /etc/arvados/ca-certificates.crt: permission denied
2021/04/14 15:57:26 WARNING: Error retrieving services list: Get "https:///arvados/v1/keep_services/accessible": http: no Host in request URL (retrying in 3s)
2021/04/14 15:57:35 WARNING: Error retrieving services list: Get "https:///arvados/v1/keep_services/accessible": http: no Host in request URL (retrying in 3s)
2021/04/14 15:57:44 WARNING: Error retrieving services list: Get "https:///arvados/v1/keep_services/accessible": http: no Host in request URL (retrying in 3s)
2021/04/14 15:57:53 WARNING: Error retrieving services list: Get "https:///arvados/v1/keep_services/accessible": http: no Host in request URL (retrying in 3s)
2021/04/14 15:58:02 WARNING: Error retrieving services list: Get "https:///arvados/v1/keep_services/accessible": http: no Host in request URL (retrying in 3s)
2021/04/14 15:58:11 WARNING: Error retrieving services list: Get "https:///arvados/v1/keep_services/accessible": http: no Host in request URL (retrying in 3s)
error creating Keep object: timed out while getting initial list of keep services
```

Maybe it only happens when the keep Go sdk is used?

#7 - 04/15/2021 03:37 PM - Nico César

Commit:841a23635 17530-arvados-client-fastfail

[developer-run-tests: #2415 icon?job=developer-run-tests&build=2415](#)

#8 - 04/15/2021 04:28 PM - Nico César

[d6c8a79b073cb000c7914e3ef07bf4d95350ae4f](#) 17530-arvados-client-fastfail-take2

#9 - 04/15/2021 09:26 PM - Ward Vandewege

Additional fix in [e758989ebd80f3365baa56be2079d72e286c9cf5](#) on branch 17530-arvados-client-fastfail-take2, ready for a look.

#10 - 04/15/2021 09:26 PM - Ward Vandewege

- Assigned To changed from Ward Vandewege to Nico César

#11 - 04/16/2021 02:17 PM - Tom Clegg

I think it would be better to make (*arvadosclient.ArvidosClient)Call() fail fast on an empty host. That will cover a lot more cases, and then the extra fail-fast in keepclient.New() will be superfluous.

Also, keep in mind it's not an error to get the discovery doc or keep_services with an empty token. We should only be checking for blank host here. Let the server decide whether "no token" is an error.

Another bit of feedback: "API server is not configured" seems like a misdirection, since it's the client we're talking about, not the server... how about "Arvados client is not configured (target API host is not set). Maybe env var [...]" or something like that?

#12 - 04/16/2021 03:26 PM - Tom Clegg

Sorry, I think I was unclear. When I said "better to make ... Call()" I meant "...better than the extra fail-fast in keepclient.New()" (see note 9).

We still need the fail-fast in discoverServices().

So in summary, I think we need a total of two changes:

1. discoverServices() should return an error before adding an entry to svcListCache, starting a poll loop, etc. if host is empty
2. CallRaw in arvadosclient should return an error instead of trying http calls if host is empty

#13 - 04/16/2021 04:22 PM - Nico César

Squashed at 1f1c71924 17530-arvados-client-fastfail-take2

[developer-run-tests: #2426 icon?job=developer-run-tests&build=2426](#)

#14 - 04/16/2021 06:04 PM - Tom Clegg

Other than the commit message being a little confusing (it seems to use future tense to describe the old behavior of CallRaw() which is no longer true)... LGTM, thanks!

#15 - 04/16/2021 10:11 PM - Anonymous

- % Done changed from 0 to 100

- Status changed from Feedback to Resolved

Applied in changeset [arvados|b7c424bbeb586619f1fc65c42f7caa79a19d9ae2](#).

#16 - 05/13/2021 03:18 PM - Peter Amstutz

- Release set to 38