

Arvados - Bug #8931

[SDK] websocket event thread crash

04/11/2016 08:11 PM - Peter Amstutz

Status:	Resolved	Start date:	04/25/2016
Priority:	Normal	Due date:	
Assigned To:	Peter Amstutz	% Done:	100%
Category:	SDKs	Estimated time:	0.00 hour
Target version:	2016-04-27 sprint		
Description			
EventClient and PollClient in the Python SDK should be catching exceptions in a couple of places that it currently does not, which results in the event thread crashing and thing that depend on it getting wedged:			
<ul style="list-style-type: none">• The callback to user code, to avoid crashing the event handler thread<ul style="list-style-type: none">◦ When this happens, call <code>thread.interrupt_main()</code> to raise an exception in the main thread, and force it to deal with the error.• When PollClient makes calls to the API server<ul style="list-style-type: none">◦ Use the same style of RetryLoop that <code>one_task_per_input_file</code> uses. It can retry infinitely, but take care that the backoff numbers make sense.• Test that PollClient retries API failures.			
Subtasks:			
Task # 8977: Review 8931-event-thread-catch-exceptions			Resolved
Related issues:			
Related to Arvados - Bug #8928: [SDKs] EventClient crashes after API server r...		Feedback	
Related to Arvados - Bug #9051: [SDKs] EventClient fails to reconnect after H...		Resolved	

Associated revisions

Revision 47a79960 - 04/26/2016 05:00 PM - Peter Amstutz

Merge branch '8931-event-thread-catch-exceptions' closes #8931

History

#1 - 04/11/2016 08:15 PM - Peter Amstutz

- Description updated

- Estimated time set to 0.50 h

#2 - 04/12/2016 06:02 PM - Brett Smith

- Target version set to Arvados Future Sprints

#3 - 04/12/2016 06:35 PM - Brett Smith

- Description updated

- Category set to SDKs

- Story points set to 0.5

#4 - 04/13/2016 04:38 PM - Peter Amstutz

- Subject changed from [SDK] event thread crash to [SDK] websocket event thread crash

#5 - 04/13/2016 07:16 PM - Brett Smith

- Assigned To set to Peter Amstutz

- Target version changed from Arvados Future Sprints to 2016-04-27 sprint

#6 - 04/13/2016 07:19 PM - Peter Amstutz

- Status changed from New to In Progress

#7 - 04/21/2016 07:40 PM - Peter Amstutz

8931-event-thread-catch-exceptions is ready for review

#8 - 04/25/2016 07:10 PM - Radhika Chippada

Reviewing [89e091b3](#)

- Should we also add an else statement in the tries_left for loop at line 175, similar to line 150? What happens if an exception other than ApiError is caught?
- max_wait: Maximum time to wait between retries — should we say “Maximum number of seconds to wait ...” instead?

#9 - 04/26/2016 04:03 PM - Peter Amstutz

8931-event-thread-catch-exceptions back to you @ [75c049d](#)

Includes possible fix for [#9051](#) by having it create a new _EventClient on each reconnect retry.

#10 - 04/26/2016 05:05 PM - Peter Amstutz

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

- % Done changed from 0 to 100

Applied in changeset arados|commit:47a79960c81ea689445f2040b24cb76729afab06.