

Arvados - Bug #8541

[NodeManager] Use sys.exc_clear() to release exception tracebacks

02/24/2016 06:06 PM - Peter Amstutz

Status:	New	Start date:	
Priority:	Normal	Due date:	
Assigned To:		% Done:	0%
Category:		Estimated time:	0.00 hour
Target version:	Arvados Future Sprints		
Description			
According to the discussion at http://cosmicpercolator.com/2016/01/13/exception-leaks-in-python-2-and-3/ exceptions can keep stack frames live far past when they are no longer needed, which may be the cause of our memory leaks.			
Audit exception handling in node manager and use sys.exc_clear() discard exception tracebacks where possible.			
Related issues:			
Related to Arvados - Story #8543: [NodeManager] Don't use Futures when not ex...		Resolved	03/04/2016

History

#1 - 02/24/2016 06:16 PM - Peter Amstutz

- Description updated

#2 - 02/29/2016 06:25 PM - Brett Smith

- Target version set to Arvados Future Sprints

#3 - 02/29/2016 06:32 PM - Peter Amstutz

[#8543](#) is another line of inquiry related to exceptions possibly sticking around for much longer than they should.

#4 - 04/05/2016 04:59 PM - Brett Smith

Our current thinking is that [#8543](#) has improved the situation enough (based on RSS) that this should no longer be necessary, right?

#5 - 04/05/2016 05:04 PM - Peter Amstutz

Yes. While it's still possible it's holding onto some exceptions unnecessarily, it looks like [#8543](#) solved the primary memory leak, so this ticket is low priority.