rgw - Feature #8562

rgw: Conditional PUT on ETag

06/08/2014 09:13 PM - Xiangyu Lv

Status:	Resolved	**% Done:**	0%
Priority:	Normal	**Spent time:**	0.00 hour
Assignee:	Xiangyu Lv		
Category:			
Target version:			
Source:	Community (dev)	**Reviewed:**	
Tags:		**Affected Versions:**	
Backport:		**Pull request ID:**	

Description

The object versioning has not been implemented yet in RGW. But there are some use cases that different sources concurrently write to the same item. It introduces lost update issue without object versioning.

Anouther simpler approach for preventing lost updates is the Conditional PUT on ETag and retrying on client side. The behavior conforms to HTTP standard If-Match and If-None-Match

- If-Match: <ETag>, If the entity tag matches the entity tag of the entity that would have been returned in the response to a similar GET request (without the If-Match header) on that resource.
- If-Match: *, The PUT will succeed if the resource exists; otherwise, it will fail.
- If-None-Match: <ETag>, If the entity tag does not match the entity tag of the entity that would have been returned in the response to a similar GET request (without the If-None-Match header) on that resource.
- If-None-Match: *, The PUT will succeed if the resource does not exist; otherwise, it will fail.

Associated revisions

Revision 7925b82c - 12/12/2014 08:31 AM - Ray Lv

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Fixes: #8562

Signed-off-by: Ray Lv <raylv@yahoo-inc.com>

History

#1 - 09/05/2014 01:36 AM - Xiangyu Lv

- Assignee set to Xiangyu Lv

#2 - 10/20/2014 01:38 AM - Xiangyu Lv

Here is a PR for discussion purpose: https://github.com/ceph/ceph/pull/2755
We may need to elaborate a bit on it after the solution is clear.

#3 - 10/20/2014 04:02 AM - Xiangyu Lv

Closed the previous out-of-synced PR and submitted a new one: https://github.com/ceph/ceph/pull/2756

#4 - 10/23/2014 04:01 AM - Xiangyu Lv

- Status changed from New to Fix Under Review

#5 - 12/12/2014 10:43 AM - Yehuda Sadeh

- Status changed from Fix Under Review to Resolved

Merged, commit:7925b82c20c94043dd5e4ca69d3ef55ea43db1e0.
Tests commit:3e1e2ee43893264eb9ca2a3fbc581ebe46c06d0e

- Status changed from Fix Under Review to Resolved

Merged, commit:7925b82c20c94043dd5e4ca69d3ef55ea43db1e0.
Tests commit:3e1e2ee43893264eb9ca2a3fbc581ebe46c06d0e