Zend_Service_Amazon_S3 - Justin Plock

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Zend Framework: Zend_Service_Amazon_S3 Component Proposal

Proposed Component Name	Zend_Service_Amazon_S3
Developer Notes	http://framework.zend.com/wiki/display/ZFDEV/Zend_Service_Amazon_S3
Proposers	Justin Plock Alexander Veremyev (Zend liaison) Stanislav Malyshev
Revision	1.0 - 10 March 2008: Initial revision. 1.1 - 31 December 2008: Revised code committed into laboratory SVN 2.0 - 25 February 2009: Revised the API and finalized the laboratory implementation (wiki revision: 15)

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1. Overview

Zend_Service_Amazon_S3 is an implementation of the service API and PHP user-stream wrapper for Amazon's Simple Storage Service (S3)

2. References

- Amazon S3 Developer's Guide

3. Component Requirements, Constraints, and Acceptance Criteria

- This component **will** implement the Amazon S3 API
- This component **will** use Zend_Http_Client to communicate with S3
- This component **will** provide the API to use Amazon S3 directly
- This component **will** implement a user-based stream wrapper for S3 (s3://)
- This component **will** allow using multiple S3 accounts

4. Dependencies on Other Framework Components

- Zend_Http_Client

5. Theory of Operation

This component will provide Amazon S3 API allowing to store and retrieve data from the Amazon S3 service.

Also, this component will be utilized using the stream_wrapper_register() PHP method to register a new user-based stream interface to S3. This allows the user to utilize existing fread(), fwrite(), fclose(), mkdir(), rmdir(), and stat() methods to directly interface with S3 buckets and objects.

6. Milestones / Tasks

- Milestone 1: [DONE] Design notes will be published here
- Milestone 2: [DONE] Working prototype checked into the laboratory supporting use cases
- Milestone 3: [DONE] Unit tests exist, work, and are checked into SVN.
- Milestone 4: [DONE] Initial documentation exists.
- Milestone 5: Proposal accepted and moved to incubator
- Milestone 6: The component is accepted as part of ZF core

7. Class Index

- Zend_Service_Amazon_S3
- Zend_Service_Amazon_S3_Stream

8. Use Cases

9. Class Skeletons

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