



Golden Copy Archive Engine

Feature Datasheet

Automated S3 Archival Tiering and Retrieval for Isilon/PowerScale

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Simplified Archive and Recall to the Cloud

Overview

All files systems have cold data consuming unnecessary space. Data life cycle management requirements include identifying cold data, data migration to lower cost storage and recall of archive data.

Cloud object storage offers a low cost tier of storage to store cold data, examples include AWS S3 Glacier and Deep Archive storage tiers or Azure Archive tier.

User access to Archive data is another consideration to allow self-serve recall back to the file system on demand without administrators.

Golden Copy Archive Engine Solution

The Superna Golden Copy Archive Engine product offers an automated system that can identify cold data based on modified, last accessed timestamps or file size and move this data to Cloud storage tiers.

2 modes

- Policy Based archive
- User Driven archive

After the data is moved users may need access to the data in the future. There are many solutions available that use file stubs with the goal of user transparency. These solutions have a



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very high VM resource requirement to track files with a database. They must remain in sync between the Cloud storage and the file system stubs. These systems get out of sync and require a lot of administration to maintain a working system.

The Superna Golden Copy Archive Engine Advantage

The Superna Golden Copy Archive Engine simplified architecture maintains a very low overhead solution consisting of a single Virtual Machine and no database needed. This solves the key cost issue associated with archive solutions and eliminates the need to maintain synchronization with a database. This is possible even if there are 100's of millions of cold files that have been archived.

The user experience is a web portal

accessible from an html file left in any folder with archived data. The user must login with an Active Directory user account and will list SMB shares based on the users share permissions. The file system is mirrored in the S3 object store and users browse through the file system to select archived data for recall. Users enter email addresses to be notified when the data is recalled back into the file system with metadata restored in the file system.

Cloud Tier Transparency

Superna Golden Copy Archive Engine allows the use of low cost deep archive tiers and provides full recall transparency. This means the request to recall data into an online storage tier before it is recalled back to the file system can take hours or days to recall to an online tier. Superna Golden Copy Archive Engine handles this initial tier



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recall automatically.

Key Features

1. Supported Platforms:

- a. Dell EMC Isilon/PowerScale

2. Cloud Storage

- a. AWS S3 all tiers
- b. Azure all tiers
- c. Google Cloud tiers

3. Cloud provider deep archive auto recall supported with AWS and Azure

4. Data archive criteria: Last modified, Last accessed, File Size, Path

5. License Model: Cluster capacity subscription 1,3 or 5 year

6. Administrator

- a. Archived Data Total
- b. Recalled Data per user per Day , Week, Month

7. Data Life Cycle Policy

- a. Recalled data limits per day
- b. Recall approval interface to allow a review of requests with approve , Decline with reason that is emailed back to the user

8. Data Format

- a. Unmodified file to object format with direct access using S3 tools without needing Superna Golden Copy Archive Engine

9. Metadata Preservation

- a. Archived file metadata is encoded into the object properties
- b. Recall restores owner, group, mode bits and folder ACL's

10. Archive Rate Limiting to reduce bandwidth usage

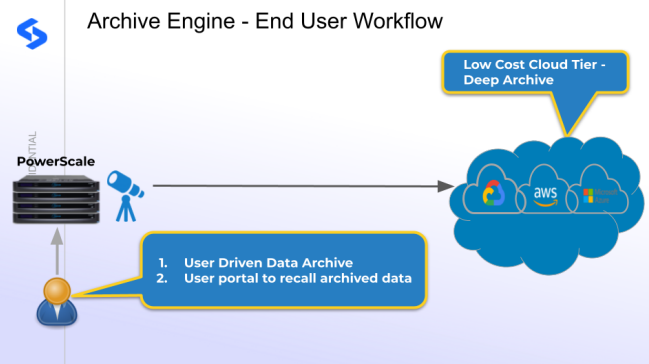
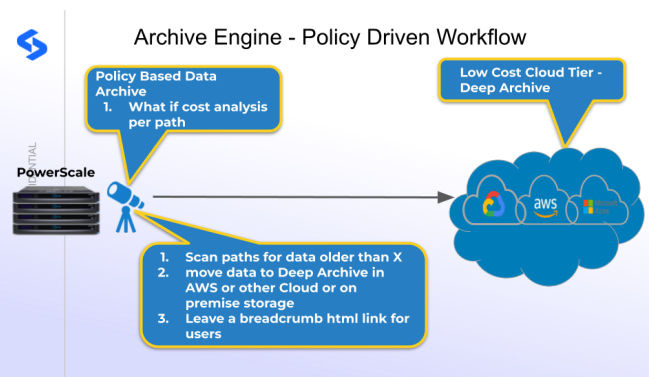
11. Daily Recall limits to reduce bandwidth usage

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from user recalls.



Visit the product page at

<https://www.supernaeyeglass.com/gc-archive-engine>

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