

Actifio OnVault

Cloud Vaulting for Multi-Year Data Retention with Instant Access for Analytics and Business-Enabling Use Cases

Enterprise IT organizations are constantly challenged to reduce costs and risks, and to better serve the needs of their business. From a risk perspective, data protection and long-term data retention are critical, and often mandatory for regulatory compliance, but they are also costly. The reason: Traditional approaches require purchasing multiple data protection software tools, expensive dedup hardware appliances, tape libraries, and off-site tape management services, all of which eat up a lot of IT budget and staff time.

Long-term data retention (LTDR) efforts are specifically challenged by:

- 1. High Costs** of enterprise deduplication storage appliances. Every few years, such deduplication appliances require forklift upgrade replacement or expansion. The result: Large capital expenditures and complex operational changes, i.e. a very high total cost of ownership (TCO).
- 2. Tape Pain.** While storing backups on tape media may be cheaper than on disk systems, operational and services soft costs can spiral out of control. High failure rates and slow restores from tapes introduce risk and slowdowns.
- 3. Proprietary Data Format Lock-in.** Traditional backup products continue to store data in proprietary formats, regardless of the media. In addition to slowing access to data, this effectively locks enterprise data into a vendor's siloed tool.

Even if risk and cost challenges can be balanced, Enterprise IT teams must still help the business be more agile. For example, data scientists want to access business data for on-demand analytics on flexible cloud platforms to help accelerate business growth.

The resulting requirements for architecting a long-term data retention or vault solution are to:

- 1.** Reduce costs by replacing expensive disk dedup appliances, tape systems and services with inexpensive cloud object storage;
- 2.** Retain data according to a business-driven SLA for years or decades in open, non-proprietary formats that allow for rapid access to any point-in-time copy, and
- 3.** Allow use of retained data for high-value business operations such as data warehousing, analytics, media streaming, etc.

FIGURE 1: Actifio Solution with OnVault

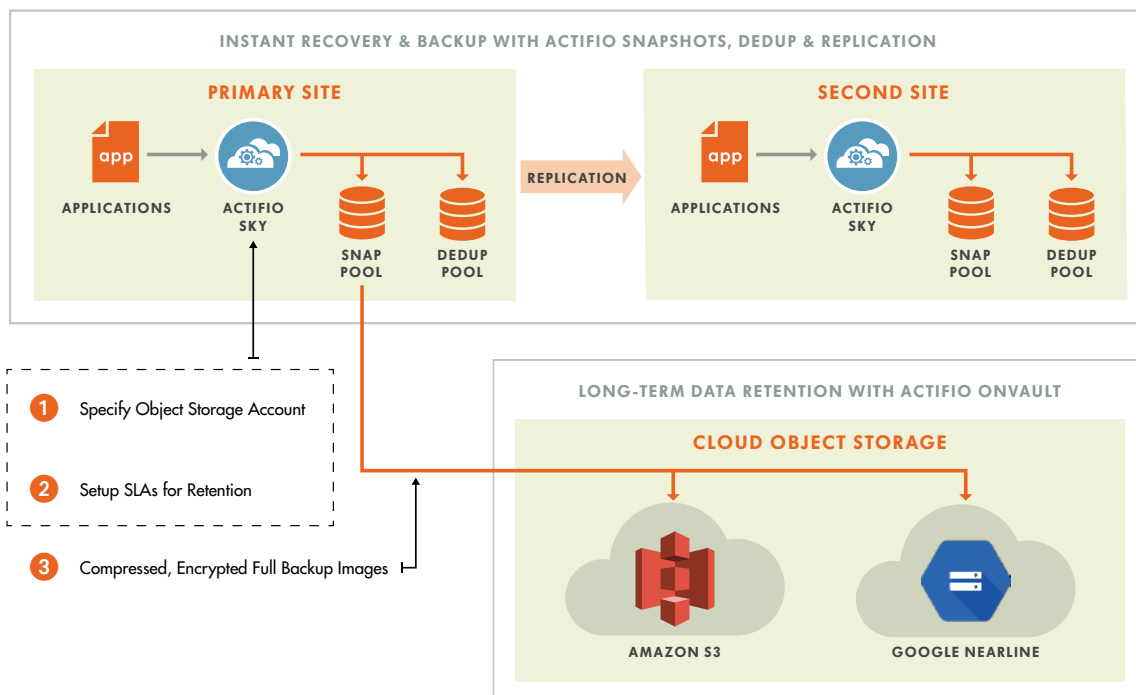
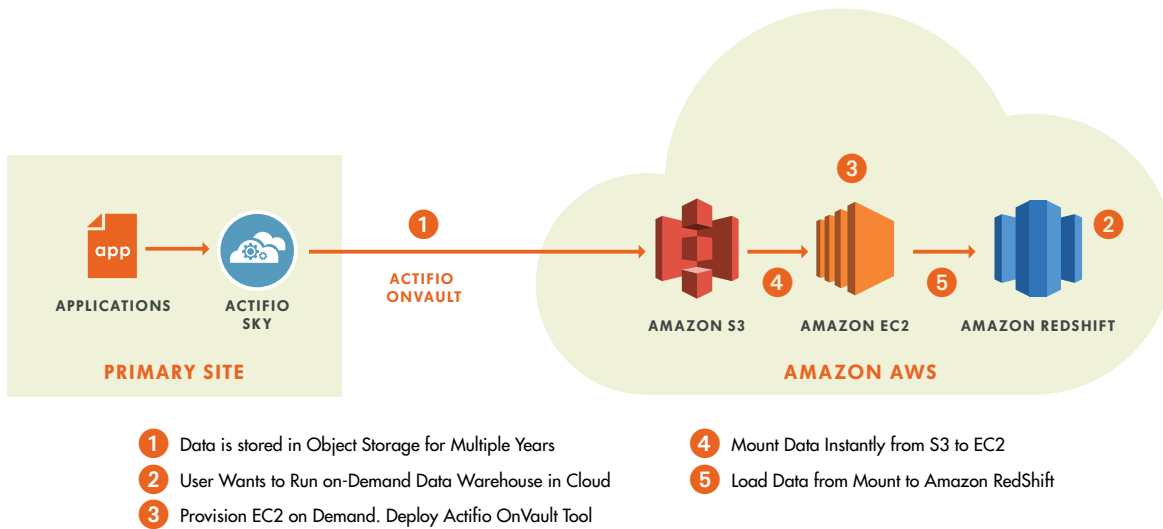


FIGURE 2: Actifio OnVault with AWS RedShift Data Warehousing



The Actifio OnVault capabilities help Enterprise IT teams architect such a solution. Actifio OnVault:

- Enables users to configure vault SLAs to store monthly and yearly images in S3 compatible object storage, including Amazon Web Services (AWS) S3 and Google Cloud Storage – Nearline for any duration of time (Figure 1).
- Keeps data in the native application format, instead of a proprietary backup format, so operations teams and business users can access data from object storage, from any point in time, whether months, years, or decades old.
- Compresses data before replication.
- Encrypts data in transit and leverages native capabilities of the object storage platform to encrypt data at rest.
- Gives users with instant access to data from any point in time, enabling enterprises to satisfy compliance needs, serve legal inquiries, and expedite operational restores.
- Lets DBAs run data integrity checks, such as DBCC checksums, or even real transactions on virtual copies of databases mounted from object storage vaults. This gives DBAs peace of mind and assurance that their data, from any point in time, is accessible and not corrupted.

- Gives IT groups the ability to feed vaulted data to data scientists or BI teams for analytics or data warehouse applications, such as Amazon Redshift. Thus enterprises can move faster, more flexibly, by leveraging the data in cloud object storage to improve their business as well (Figure 2).
- Is part of an enterprise Copy Data Virtualization platform that improves business resiliency with comprehensive data protection and DR capabilities, including snapshots, deduplication, disk backup, low-RTO replication, WAN-efficient deduped replication, application integrations, and DR orchestration. The Actifio platform also helps businesses build higher quality applications faster with Test Data Management capabilities.

The Actifio platform with OnVault helps enterprises execute on Bimodal IT strategies, by reducing costs and risks for Mode 1 use cases such as backup, DR, long term data retention. At the same time they can also accelerate their Mode 2 use cases such as data warehousing and analytics, using flexible cloud-based compute resources.

About Actifio

Actifio virtualizes the data that's the lifeblood of businesses in more than 30 countries around the world. Its Virtual Data Pipeline™ technology enables businesses to manage, access, and protect their data faster, more efficiently, and more simply by decoupling data from physical storage, much the same way a hypervisor decouples compute from physical servers. For enterprise-class backup modernization, self-serve instant data access, or service provider business transformation, Actifio is the first and only enterprise class copy data virtualization platform.

For additional information, visit Actifio at www.actifio.com or contact Actifio at info@actifio.com or **855.886.8997**.

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