Next Gen Architecture - NoSQL and OpenStack:

Object Storage for Backup, Archiving & Rapid Recovery

Challenge:

According to IDC, 90% of data created this decade will be unstructured (text, documents, images, music, log files, etc.). Both cutting edge and traditional companies are adopting next-gen solutions like NoSQL and OpenStack, allowing the ingestion of massive amounts of data while empowering the "Always On" end user to access and analyze more information than ever before.

Providing fast access to data, including backups and archives, across the world requires a cost-effective data storage system. Traditional filesystems and storage arrays are high-cost in scale-out scenarios and were not designed for the dynamic nature of these environments. To maintain active access to archives, Enterprises have over-provisioned to support multiple copies of the same data. The new paradigm of distributed, scalable, flexible and cost-effective architectures requires solutions that match its benefits and provide rapid data recovery.

Solution:

Trilio Data's platform for business assurance is built on a distributed architecture with multi-tenancy design principles to scale with Big Data or OpenStack environments. This enables customers to significantly extend backup abilities and restore critical data. Through the use of Trilio's VAST technology, the system has intimate knowledge of your workloads in order to take a consistent backup which then targets object storage using SwiftStack — lowering costs while improving recovery time objective (RTO) and recovery point objective (RPO) goals.

SwiftStack is a new breed of enterprise-grade object storage. The SwiftStack Controller makes it simple for IT administrators to deploy, integrate and manage object storage clusters built on open source with OpenStack. Administrators can perform point-in-time analysis on data and the environment in-use at the time of the backup. When, and if, it becomes necessary to restore, the administrator can test or analyze the data prior to restoration.

When combined with SwiftStack, Trilio Data users can supplement or replace existing script-based backups with traditional arrays with highly accessible object storage. SwiftStack automatically distributes data across data centers, allowing backup and archive data to be available for local site access and remotely for disaster recovery.

HIGHLIGHTS

- Active Archive
- Leverage Open Source
- Lower TCO

KEY FEATURES

- Massively Scalable
- Geographic Distribution
- Seamless Integration

SOLUTIONS

- Backup & Archiving
- Disaster Recovery
- Test & Development
- Migration

Powered by OpenStack Swift

SwiftStack is built-on OpenStack Swift, which is the engine that powers the world's largest storage clouds.

Swift is a multi-tenant, highly scalable, and durable object storage system designed to store large amounts of unstructured data at a low cost.

Hundreds of companies and thousands of developers contribute to the open source community and SwiftStack is a leading contributor to the project.

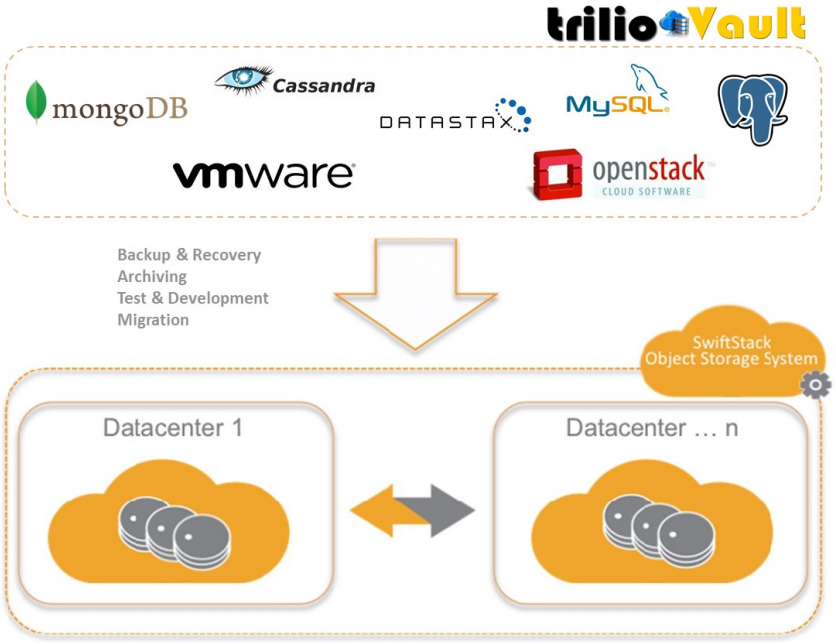
STORAGE POWERED BY openstack

Advantages:

Enterprises can take advantage of SwiftStack's ability to easily scale to petabytes, deploying capacity as needed to store backup and archive data to comply with data retention policies. With Trilio Data, users can restore and migrate entire workloads with a single-click and perform forensics, if necessary.

Both SwiftStack and Trilio Data's software are the only object storage and Big Data backup solutions that run on any industry standard hardware, lowering TCO. IT administrators can mix and match hardware and quickly add capacity as needed rather than over-provisioning in advance. Backup performance and capacity can be scaled independently with SwiftStack, enabling backup windows to be maintained as capacity grows.

By deploying SwiftStack as the storage target for Trilio Data's TrilioVault solution, IT administrators have a single platform for data protection - managing and monitoring backup & recovery, archiving, and migrating across multiple sites.



BENEFITS

Intelligence & Awareness: regardless of topology change always capture and have the ability to recover.

Scalability: scale capacity and performance to expand access and improve recovery goals.

Availability: geographically distributed data can be accessed anytime, from anywhere.

Durability: highly durable architecture with no single point of failure.

Seamless Integration: plug directly into existing backup workflows without disruption.

No Vendor Lock-in: plug directly into existing backup workflows without disruption.

With Trilio and SwiftStack, Enterprises have a single solution for managing backup & recovery, archiving, replication and e-discovery for Big Data or OpenStack.

Contact us to learn more!

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