Native data protection in OpenStack
With TrilioVault for OpenStack, KVM and Red Hat Virtualization Whitepaper

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OpenStack Data Protection at a glance

- The only native OpenStack backup and recovery solution.
- Also versions available for backup and recovery of Red Hat Virtualization and KVM.
- Non-disruptive backups: Schedule application-aware snapshots to capture changed blocks of your workloads via an agentless Data Mover.
- One-click restore: Recover to a point-in-time from a synthetic full image of your environment, created from incremental scheduled backups.
- Self-service management: Tenants can restore individual items, virtual machines, full workloads or entire cloud environments on-demand via the Horizon GUI.
- Compatible with major OpenStack distributions like Canonical, Red Hat, Mirantis and Suse.

Product overview

TrilioVault is an OpenStack native backup and recovery solution that gives your tenants the ability to restore entire workloads on demand.

Foundationally architected for the cloud, Trilio is forever scalable with zero performance degradation.

It provides data protection through efficient point-in-time capture, storage, and application recovery. Your tenants can recover to any point-in-time with a single click using the Horizon dashboard or leveraging Trilio's rich set of APIs.

Plus Trilio is agentless and non-disruptive by design, both during deployment and operation. You can integrate it with your existing cloud lifecycle management tooling by automating deployment via Juju, Ansible, Puppet, Salt or Chef.

With Trilio you can:

- Schedule automated incremental backups on a pre-defined or on-demand basis.
- Easily test backups prior to recovery (stored in an open QCOW2 format).
- Quickly recover whole cloud environments in the event of a disaster.
- Selectively restore virtual machines to target networks, availability zones, regions and clouds.

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"As an avid user of OpenStack for a decade, Trilio has a unique ability to control restore and manage back-ups in the same self-service portal unlike any other product out there. We're always improving our offerings to make our customers more competitive and improve their processes. Trilio is an obvious choice for us as it does something that no other vendor offers.".

"An ideal backup solution should act like any other OpenStack service that a tenant consumes, applying the backup policies to its workloads. Furthermore the backup process must not disrupt running workloads, respecting required availability and performance. In addition to full backup abilities, the solution should support incremental backups so that only changes are transferred, alleviating burdens on the backup storage appliances. These were the main requirements for selecting the Trilio backup solution for us".

*"Fairbanks delivers managed services on our OpenStack cloud, so that we do not have to worry about the uptime and can focus on developing business value to our cust**o**mers".*

TrilioVault's unique architecture explained

While there are some open source options when it comes to backing up in OpenStack, these solutions fail to capture entire workloads incrementally forever, and typically don't offer a one-click restore option in the event of a disaster.

The following picture depicts a high-level network architecture of a Trilio backup environment working on an OpenStack infrastructure:
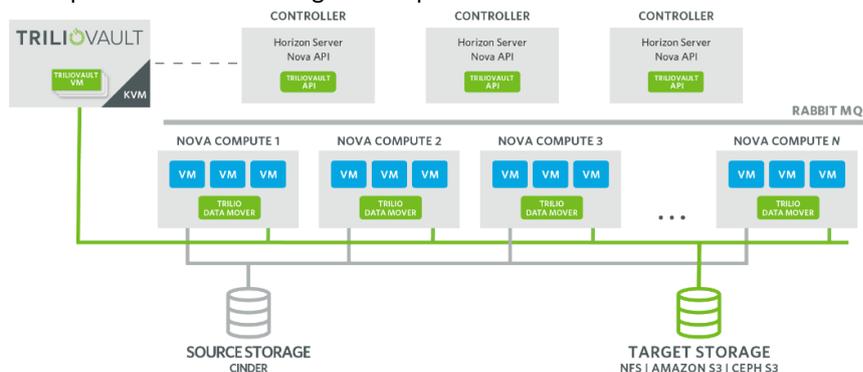
Want to know more?

Do you want to know how TrilioVault can add value to your private cloud, please contact our OpenStack Expert & Support Center via info@fairbanks.nl, http://www.fairbanks.nl/ or + 31 (0)33 - 450 85 85.

About Fairbanks

Fairbanks provides consulting, support, implementation, optimization, managed services, troubleshooting and training services for Open Infrastructure cloud solutions. Fairbanks is based in the Netherlands and as the ambassador of the OpenStack Foundation of the Benelux (Belgium, Netherlands and Luxembourg), also is a driving force of the OpenStack community, one of the most active communities in the world.

With managed services Fairbanks makes sure that companies can focus on their core business and don't have to worry about the cloud infrastructure.

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