Optimize cost, scale and efficiency for Kubernetes data protection

COHESITY

TRILIO

Key Benefits

- Intelligent Recovery of any Kubernetes application in the event of an outage.
- Singular platform for data consolidation and easy management.
- Seamless NFS & S3-based integration.
- Software defined hybrid cloud flexibility with seamless scale.
- Lower TCO through silo elimination and dramatic data reduction up to 96x or more.
- Robust cyber resiliency and ransomware protection to defend data and applications.
- Meet SLAs and comply with regulatory mandates for data privacy and retention.

With simplified container orchestration and management, Kubernetes optimizes DevOps processes, scale, flexibility and portability, and is therefore relied upon for critical business applications. As Kubernetes adoption rates and deployment sizes grow, reducing the cost and complexity of data management and infrastructure, along with mitigating the impact of security threats, quickly become top priorities. However, securing Kubernetes components and services can be difficult, especially when they span multiple nodes and clusters. Kubernetes also provides a high level of abstraction. This prevents strong visibility into the processes running in the underlying system and complicates the identification of potential security threats and vulnerabilities. Legacy solutions that leverage and integrate free tooling also lack the flexibility, scale and efficiency required by enterprises. Without a purpose-built solution to manage both point-in-time data and metadata, you are risking the ability to control costs, recover rapidly and maintain compliance.

Why Trilio and Cohesity for Modern, Scalable Kubernetes Data Protection?

Cohesity and Trilio provide a joint solution for reliable, cost-effective, protection and recovery of your Kubernetes environment. Easily and seamlessly scale and break down the walls of siloed environments by allowing applications and data to move between them.

The Trilio Intelligent Recovery platform is specifically designed to provide a consistent experience across private, public, and hybrid clouds. Trilio can protect and intelligently recover thousands of applications spanning multiple clouds, clusters and containers while capturing and restoring variations of network and storage configurations. IT managers, Cloud Architects and DevOps Engineers leverage Trilio for backup and recovery, migrations, disaster recovery, ransomware protection and application mobility.

When combined with Cohesity SmartFiles, Trilio is able to consolidate all data infrastructure onto one unified and efficient multicloud data platform that modernizes and simplifies data and application management, resiliency, privacy, and control by providing one interface for managing and securing data. SmartFiles is a software-defined, data-centric, unified file and object solution for the hybrid cloud with native S3, NFS, and SMB protocol support. It simplifies long-term unstructured data retention, and provides cost-effective, secure, and immutable storage for your Trilio datasets. Organizations are uniquely empowered to efficiently manage data at scale, with dramatic space efficiency for significant cost of ownership savings. The joint solution enables
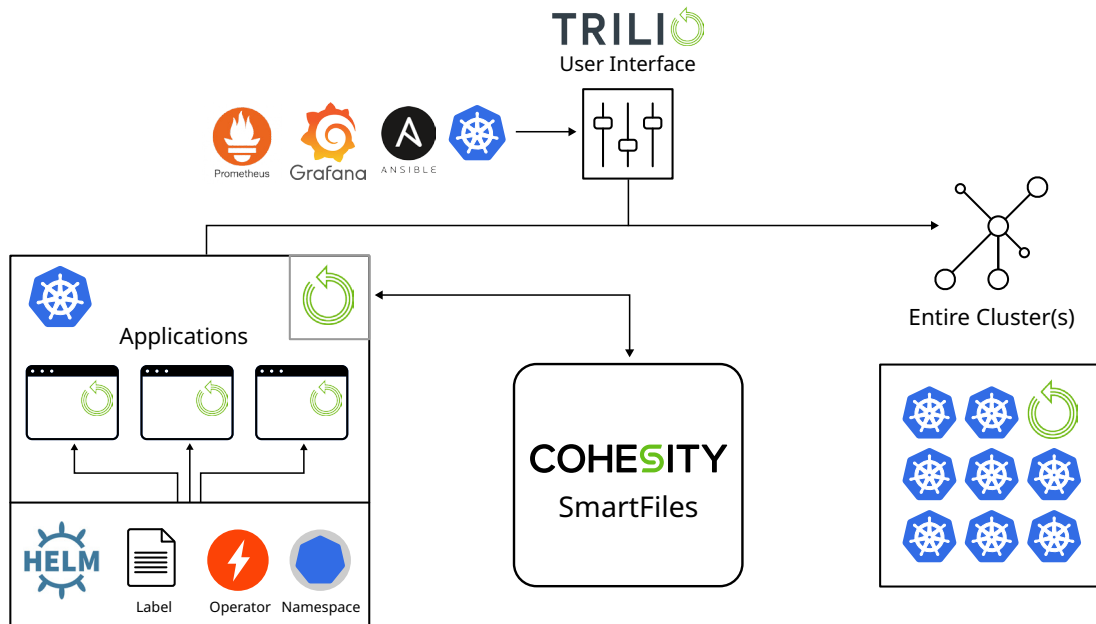
Figure 1: Modern, scalable Kubernetes data protection with Cohesity and Trilio

customers to use cloud hyperscalers, like Microsoft Azure, Amazon AWS and Google Cloud Platform, for long-term archival, dev/test, and disaster recovery—and to take advantage of the scalability and pay-as-you-go model of the cloud.

Joint Solution Features and Capabilities

- **Enterprise Class Data Protection with Broad Ecosystem Support**: Trilio's software-only solution protects application data, metadata and Kubernetes objects provisioned via Helm, Operators, Labels and Namespaces. It supports application consistent backups, restore transforms, policy-based management and efficient data management, and allows you to:

  - Migrate, replicate, and restore data and metadata to any cloud or distribution

  - Bring applications online in seconds, no matter where you run them or store their data

  - Continuously stage data in multiple, heterogeneous clouds for near-instantaneous recovery

  - Monitor your environment via integration with Prometheus and Grafana or any other major Observability solution

- **Seamless Integration**: Trilio integrates with SmartFiles using the S3 or NFS industry-standard APIs to provide persistent, simple, reliable data management without the need for caching devices. Data is written to SmartFiles in native format, so you can read, analyze, search and re-use it to maximize the potential of your data.

- **Lower Costs for Protection and Recovery**: When Trilio data is consolidated on SmartFiles, you can reduce hardware storage requirements by as much as 96x or more through data

deduplication, compression, small file optimization, and dedupe across data center volumes. Storage costs and performance can be further optimized by intelligently moving data to the most appropriate locations or clouds.

- **Hybrid Cloud Flexibility**: Achieve massive, seamless scale for your Trilio data with software-defined simplicity and broad flexibility to deploy SmartFiles on-premises, at the edge, or in your cloud of choice. Manage all your data with a singular management pane. Within the UI, you can also create policies to tier, archive or replicate data across one or more clouds.

- **Robust Cyber Threat and Ransomware Protection**: Trilio's comprehensive approach to ransomware protection and recoverability is in alignment with the National Institute of Standards and Technology (NIST) Cybersecurity Framework. Cohesity SmartFiles takes advantage of Zero-Trust principles to provide an easy to manage, multi-layered, enterprise security approach to prevent, detect, and analyze threats to your data. Limit unnecessary data access and prevent unauthorized data addition, modification, and deletion with role-based access control. Prevent threats and maintain compliance with an immutable file system, encryption on the fly or at rest, multi-factor (MFA) and quorum authentication, and DataLock (WORM). Integrated anti-virus allows detection of infected files and prevents files from being compromised. Built-in analytics features allow you to observe user and behavior analytics for security and compliance reasons. The Cohesity FortKnox integrated SaaS offering provides an additional layer of protection against ransomware and other cybersecurity threats by placing immutable copies of data in a Cohesity-managed cloud vault via a virtual air gap.

Optimize Return on Investment

Cohesity SmartFiles is the smartest way to optimize cost, scale and efficiency for protecting Kubernetes data with Trilio.

Easily manage, protect, secure, and do more with your data with a singular certified next-level solution. Realize the benefits of your cloud strategy with a production-ready private cloud that lets you be more resilient, reduce costs, simplify and accelerate application and service delivery, while empowering IT teams to support digital initiatives. Dramatic scale, flexibility and operational efficiencies also make managing and monitoring your data, protection policies, procedures, and recoverability easier than ever. And with a powerful, multilayered security approach, your data can be protected from sophisticated cyberthreats now and into the future.

Make your vision for modern unstructured data management a reality with Cohesity

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