

Nominee: Cohesity

Nomination title: Cohesity DataPlatform: Web-Scale efficiency for all secondary data, from edge to cloud

Secondary storage accounts for 80% of an organisation's data, and most of it is unstructured, present in silos and weighing down organisations' IT teams. Cohesity's primary goal is to eliminate secondary storage silos with its signature solution: Cohesity DataPlatform. It consolidates all secondary workflows on a unified, scalable platform with a single user interface, extending seamlessly from on-premises infrastructure to public cloud storage. This hyperconverged platform reduces costs and makes it easy to understand and manage data across the entire organisation.

It provides native integration with the public cloud for archival, tiering and replication. Users are able to replace tape with cloud for long-term archival, along with compression, deduplication, encryption, and simple recovery from the cloud. Additionally, cloud tiering enables users to burst capacity by storing colder chunks of data on cloud storage. Finally, the replication capability enables users to replicate data to a Cohesity CloudEdition cluster and re-use that data for recovery, test/dev, and analytics.

Cohesity DataPlatform was designed from the ground up on Google-like web-scale principles and offers multiple benefits including unlimited scale-out and unparalleled storage efficiency with global deduplication and compression across the cluster.

There isn't a storage solution that combines global data efficiency and guarantees data resiliency with strict consistency at scale. Cohesity truly delivers the data resiliency that organisations have come to expect from an enterprise-class solution.

Cohesity DataPlatform includes:

- A scale-out hyperconverged architecture - replaces individual storage appliances and combines compute and capacity for all secondary data use cases
- Global deduplication and compression - increase storage efficiency with variable-length, global deduplication that spans an entire cluster
- Support for both in-line and post-process deduplication
- SnapTree - fully hydrated unlimited snapshots and clones at the file or VM level
- Guaranteed data resiliency with strict consistency
- Remote replication for disaster recovery and migrations supporting multiple topologies (one-to-one, one-to-many, cloud).

- **CloudTier and CloudArchive - leverage compelling cloud economics for data tiering and long-term archival to Google Cloud Storage, Microsoft Azure, Amazon S3 and Glacier**
- **CloudReplicate - single UI to manage on-premise and cloud cluster on Microsoft Azure**
- **Real-time analytics - native reporting on storage utilisation trends, user metrics, and capacity forecasting**
- **Automated global indexing of all the data ingested into the system powers Google-like search for any VM, file, or object**
- **Quality of Service - Control QoS per backup job, test/dev datastore or file share**
- **Software-based encryption of data at rest and in-flight, isolation between datastores**
- **REST APIs for orchestration - allows to orchestrate data operations with a complete set of REST APIs and associated documentation**
- **Cohesity Virtual Edition - single platform for end-to-end deployment. Simple, cost-effective virtual platform for remote and branch offices**
- **Cohesity Cloud Edition - users can manage their data across private and public cloud.**

In the last decade, we've seen great advancements in storage technology and data centre efficiency, but unfortunately, secondary storage hasn't been a priority for organisations or storage vendors. Meanwhile, customers were and are still dealing with a plethora of fragmented storage appliances that are expensive, difficult to manage, with each serving a single-purpose function. Organisations have a burden to keep multiple copies of secondary data resulting in a data explosion - typically 80% of an organisation's data is secondary data.

Cohesity DataPlatform enables organisations to take back control of that secondary data. It simplifies storage with a converged end-to-end (from core, to the cloud and edge) solution. The scale-out architecture provides a pay-as-you-grow platform that eliminates over provisioning, and simple non-disruptive upgrades.

Benefits of Cohesity DataPlatform

- **Storage consolidation - Designed to consolidate multiple secondary storage appliances on one easy to use and manage unified platform, fundamentally simplifying storage infrastructure. Cohesity eliminates unnecessary data copies across secondary storage silos.**
- **Simple user and management interface - Role-based GUI offers most relevant information, including cluster's audit logs in one place.**
- **Scale-out platform - a single web-scale platform that provides multiple management advantages as compared to individual point appliances:**
 - **Manage a single platform instead of multiple isolated appliances**

- **Improve capacity planning and utilisation by providing a single pool of capacity**
- **Eliminate the need for forklift upgrades and expensive data migrations**
- **Quality of Service - Supports different QoS policies based upon data and workflow requirements.**
- **REST APIs - Fully documented REST APIs are available to enable DevOps style automation of secondary data workflows and operations.**
- **Real-time data analytics - Delivers native reporting on storage utilisation trends, user metrics, and capacity forecasting. Also provides real-time reports of ingest rates, data reduction rates, IOPS, and latencies for full visibility in the performance of the Cohesity cluster.**
- **Granular search and recovery - Google-like wild-card search allows to instantly locate and recover VMs. Support VMware tag and folders to assist in management and search throughout the cluster.**

Cohesity DataPlatform provides a completely new approach to secondary storage environments. It extends the benefits of hyperconvergence and policy-based management to secondary storage. It replaces individual point appliances with a scale-out platform that is a lot simpler to manage and more cost-effective. Cohesity consolidates all secondary data including backups, test/dev, and analytic copies, eliminating the need to maintain multiple copies of the data.

Cohesity puts data to productive use for disaster recovery, to integrate with major cloud providers, or to spin up test/dev environments on Cohesity.

Additional key differentiators between Cohesity and other primary competitors include:

- **As a software defined platform, Cohesity offers:**
 - **Web-scale globally distributed file system**
 - **Unlimited snapshots and clones**
 - **Global inline dedupe**
 - **Strict consistency**
 - **Non-disruptive upgrades**
 - **VLAN tagging**
- **Only globally distributed file system providing the ability to create file shares that can be accessed via NFS, SMB and S3 protocols**
- **Compatibility with third party backup software and allows non-disruptive integration**

- Spin up zero-cost clones for test/dev environment on Cohesity, to streamline operations and optimise capacity on primary storage
- Multi-cloud integration, allowing customers to archive, tier and replicate in the public cloud

Why nominee should win

Cohesity DataPlatform:

- " The industry's only hyperconverged platform designed to consolidate all secondary storage and data services at web-scale.
- " Ease of use - replaces individual storage appliances with a scale-out platform and ensures always-on availability, pay-as-you-grow by scaling performance and capacity linearly, and eliminates expensive upgrades.
- " Integration - integrates with all the leading public clouds and allows users to create a multicloud storage fabric for data protection and mobility
- " Global deduplication and compression - increases storage efficiency with variable-length, global deduplication that spans an entire cluster, and compression.
- " Built-in security - Software-based encryption of data at-rest and in-flight and ransomware protection