

Continuous Data Protection

Near-Zero RPOs for Mission-Critical VMs



Key Benefits

- Near-Zero Data Loss powered by I/O journaling with recovery points at each event at every few seconds
- A single platform with a Unified Policy Engine for snapshots (for business-critical applications) as well as continuous protection (for mission-critical applications)
- Not all failures are the same—nor should be your recovery strategy. Choose from Crash-consistent, Application-consistent, and Snapshot-based restores to optimize your applications' return to operation

Continuous Data Protection from Cohesity delivers near-zero RPOs for your mission-critical VMware virtual machines. Near-zero RPOs mean almost every change and every I/O is protected, and in the case of disaster, minimizing your data loss and downtime.

Leveraging vSphere APIs for I/O filtering (VAIO), Cohesity intercepts I/Os between the protected VM and its underlying storage. This approach captures changes and helps reconstructing a copy of your VM directly on Cohesity. As a journal-based solution, Cohesity maintains a journal of all I/Os received from the VM. Built-in intelligence allows the periodic consolidation of log deltas and the foundational VMDK. The implication: fully-hydrated recovery points, at any point in time—ensuring near-zero RPOs and rapid RTOs.

Continuous Data Protection (CDP) ensures that you recover all of your data, not just most of it. CDP delivers real-time protection for VMware vSphere virtual machines, augmenting your existing snapshot-based data protection strategy. The solution delivers:

- Enterprise-class data resiliency
- Operational simplicity with high fault tolerance
- Efficient flexibility

Enterprise-Class data resiliency

Gain peace of mind and operational efficiency with Cohesity's journal-based approach to data protection of VMware environments. CDP is designed to intercept all real-time I/Os of VMware VMs and continuously replicate the I/Os to the Cohesity DataPlatform. The result: the ability to truly recover to any point in time.

CDP shifts the narrative from time-based backups to event-based backups—every change or I/O is backed up.

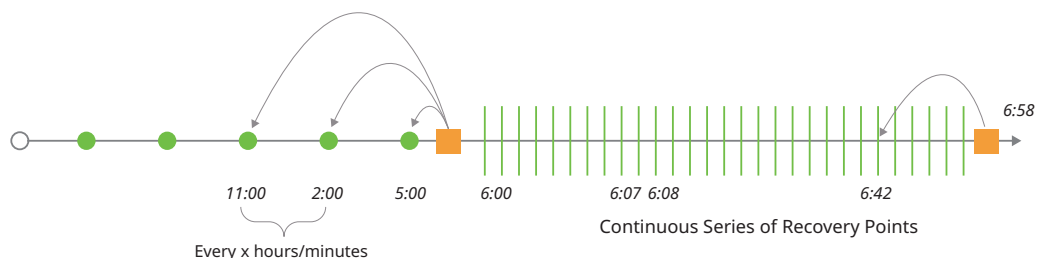


Figure 1: Single Policy For Snapshot-Based and Continuous Streaming Recover Points

Operational Simplicity with High Fault Tolerance

By using a journal-based approach, the solution provides a continuum of recovery points for high levels of data resiliency. Cohesity makes achieving this level of data resilience effortless. No additional infrastructure or policies are required. No additional hardware is required to leverage CDP.

And with Cohesity, you can define both snapshot-based workflows and continuous data protection actions with a single backup and recovery policy, simplifying management. As illustrated in Figure 1, based on their unique requirements, IT organizations can mix-and-match snapshot-based approach with continuous data protection in a single policy that ensure most critical data is always protected.

Efficient Flexibility

CDP augments your existing data protection strategy. In protecting VMware vSphere environments, Cohesity customers have options: Choose from point-in-time, crash-consistent restores that leverages VAIO, application-consistent point-in-time recovery, and full VADP-based snapshot backups.

Cohesity CDP supports archival, replication, and cloning operations as well, pushing the capabilities of your infrastructure.

Achieve higher data resilience with near-zero RPOs. Learn more at www.cohesity.com

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