DELL EMC NETWORKER AND DEDUPLICATION

Accelerating next-generation backup

INTEGRATED DEDUPLICATION FOR ACCELERATED BACKUP AND RECOVERY

Exponential data growth, regulations, aggressive service level agreements, and shrinking backup windows—all of these factors are driving IT managers to consider new approaches to data protection. Data deduplication is the enabling technology for next-generation data protection solutions. By reducing the size of backup datasets by up to 30x, backups can be retained on site longer for fast operational restores, and replicated offsite efficiently over existing network links for disaster recovery and multi-site tape consolidation.

With the addition of deduplication technology, Dell EMC NetWorker® enables you to leverage both traditional and deduplicated backup in the same environment. NetWorker simplifies deployment and lets users choose the right solution for the right backup workload. It also reduces the complexity and risk of introducing new capabilities as your data protection requirements evolve.

DELL EMC NETWORKER AND DATA DOMAIN

Deduplication can be easily introduced in a NetWorker environment with Dell EMC Data Domain® deduplication storage systems. Data Domain systems deduplicate data inline—during the backup process—so backup data lands on disk already deduplicated, requiring a fraction of the disk space of the original dataset. Backup data can be retained on site longer for fast, reliable restores from disk. Backup data can then be replicated offsite faster with minimal bandwidth for safe, tape-free disaster recovery.

NetWorker is tightly integrated with Dell EMC Data Domain Boost—a software option that extends the capabilities of Data Domain solutions—to significantly increase performance and simplify management. With DD Boost the deduplication process is distributed to the NetWorker client, storage node or application host, enabling each to send only unique data segments to a Data Domain system. This reduces the amount of data transferred over the network by 99% and decreases CPU utilization on the hosts in the NetWorker-supported environment. NetWorker Client Direct, which allows the storage node to be by-passed in the backup process, further amplifies the benefit of DD Boost from the client file system or application host directly to the backup target. The improved efficiency enables more backups driven from a single backup server.

With DD Boost, NetWorker can control the replication of data between multiple Data Domain systems and provide backup administrators with a single point of management for tracking all backups and duplicate copies. Similarly, administrators can use the NetWorker UI to centralize orchestration of Data Domain Cloud Tier. With NetWorker, administrators can natively control data movement policies from within NetWorker, thereby managing which clients are backed up on-premises, and which are tiered off-premises for long-term retention in public, private or hybrid cloud. WAN-efficient Data Domain replication eliminates the need for tape-based backup and recovery for disaster recovery.

ESSENTIALS

Centralized Management
- Provides common administration and recovery interface for deduplicated and traditional backups
- Enables unified management and long-term retention of deduplicated backups to private, hybrid or public clouds with Data Domain Cloud Tier
- Provides single catalog for all backups
- Streamlines protection of database, email, and ERP applications

Traditional and deduplication backup and recovery
- Reduces backup times, required network bandwidth, and total backup storage required
- Client Direct with DD Boost speeds backup while reducing required infrastructure, management, and cost
- Enables tape-free disaster recovery
- Supports LAN, WAN, and SAN implementations

Simple and easy to use
- Simplifies management with central, web-based graphical user interface
- Supports tiered protection and flexible recovery options
Management of Data Domain systems, from configuration to day-to-day operations, is greatly simplified with NetWorker:

- Wizard-based discovery and configuration streamlines the setup of Data Domain systems
- Natively control data movement policies for Data Domain Cloud Tier for long-term retention of backups, with streamlined recovery
- Customizable SNMP monitoring captures Data Domain alerts and messages
- Replication monitoring displays Data Domain replication status and statistics
- Reporting reflects Data Domain capacity, utilization, and deduplication efficiency

DELL EMC NETWORKER CLOUD EXPERIENCE

Organizations are moving toward cloud-based environments for greater flexibility and cost reduction. With cloud capabilities, NetWorker offers a solution for cloud data protection with optimizations to secure your data everywhere.

This capability within NetWorker employs client direct, fine-grained, source-side deduplication, client-side encryption, compression and a host of WAN optimizations to speed performance – and, in the process, reduces the consumption and cost of resources such as network bandwidth and cloud storage capacity itself.

NetWorker enables users to leverage resilient, simple and scalable cloud storage -- specifically "object storage" – for client direct backup in the cloud and to the cloud.

**Backup in the cloud** for scenarios where you have applications running in public cloud VM instances and wish to use public cloud object storage for all backup workloads, including short term backups for operational recovery and long term backups for compliance.

**Backup to the cloud** for scenarios where your applications are running on-premises and you wish to use public or private object storage for all your backup workloads, including both short term backups for operational recovery and long term backups for compliance.

UNIFIED CONTROL AND MANAGEMENT

By providing a common management interface and unified backup and recovery workflows, NetWorker and Data Domain deduplication helps customers achieve new levels of efficiency without adding administrative complexity. Existing NetWorker customers can enjoy the benefits of deduplication without the complexity of adding another backup user interface and workflow.

Integrated software and hardware deduplication solutions from Dell EMC deliver unmatched reliability and efficiency. With NetWorker, users can easily and safely evolve from traditional to next-generation data protection.

Copyright © 2016 Dell Inc. or its subsidiaries. All Rights Reserved. Dell, EMC, and other trademarks are trademarks of Dell Inc. or its subsidiaries. Other trademarks may be trademarks of their respective owners. Published in the USA. 08/17 Data Sheet H3979.6