



SUCCESS STORY
High Tech



MELLANOX | PROBLEM SOLVED

With factories worldwide, Mellanox wanted to unify its global data into one shareable, scalable, and cost-effective platform with solid reliability and unmatched support. The multinational supplier of computer networking products found the answer in NetApp Cloud Volumes ONTAP.

Moving to the Cloud for Data-Driven Solutions

With multiple manufacturing sites around the world, Mellanox Technologies wanted a testing, research, and design infrastructure that is engineered for integration, easy data sharing, scalability, and unified support.

69%

reduction in the production data footprint by using data deduplication

90%

of the disaster recovery cold data tiered to lower-cost object storage

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 **NetApp®**

“We looked for a cloud storage solution that could integrate with on-premises deployment. That is the main reason we came to NetApp. We examined a few vendor products and checked their offerings. NetApp was the most mature. It had capabilities on the cloud that competitors couldn’t offer.”

Nir Boyarsky
Mellanox storage team leader

The multinational supplier of computer technology networking products that use InfiniBand and Ethernet technology needed to have the performance and reliability to accelerate product innovation. Mellanox also needed to reduce the time to market for the adapters, switches, software, cables, and silicon products it produces for markets including high-performance computing.

INNOVATING ON THE CLOUD

The Mellanox storage team wanted a unified solution that was reliable, scalable, and cost effective. To address these requirements and to more quickly deliver innovative products for customers, Mellanox made a strategic decision to implement NetApp® Cloud Volumes ONTAP® technology.

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That is the main reason we came to NetApp,” says Nir Boyarsky, Mellanox storage team leader. “We examined a few vendor products and checked their offerings. NetApp was the most mature. It had capabilities on the cloud that competitors couldn’t offer.”

Mellanox ran a proof of concept for 3 months before putting the new solution, which features a cloud-based MongoDB database of production logs and other data, into production.

A BETTER VIEW FROM THE CLOUD

Mellanox uses Cloud Volumes ONTAP data management software for its production workloads and file shares as well as for disaster recovery and backup copies.

Manufacturing data logs are collected and saved in MongoDB through NFS and managed in Cloud Volumes ONTAP on Azure.

Cloud Volumes ONTAP provides the company with a cost-effective solution for production workloads. Infrequently used, or “cold”, production data is offloaded to Microsoft Azure Blob storage, using the Cloud Volumes ONTAP tiering capability. Only frequently used data is kept on solid-state drives (SSDs) for quick access.

Cloud Volumes ONTAP also provides the backup and disaster recovery solution: All data is tiered to the lower-cost Azure Blob object storage, and only metadata is kept on SSDs. The scheduling capabilities and policies of NetApp OnCommand® Cloud Manager provide unmatched data protection. With these capabilities, Mellanox can save compute and license costs by turning on the disaster recovery instance for the replication updates only and turning it off again once completed.

A UNIFIED DATA FUELS INNOVATION

All of this reinforces Mellanox's corporate view that data is a catalyst for innovation. "Our customers want to leverage software-as-a-service solutions. This gives the freedom for the system owner to focus on our domain expertise rather than dealing with enhancing and maintaining the infrastructure," says Yoni Myloslavski, senior manager for IT CloudX, Mellanox.

With a single data platform, all of the company's data is unified into one shareable, scalable, reliable, and cost-effective solution.

"We pay only for what we're using, as we can scale up and down," says Myloslavski. "Plus, by using Cloud Volumes ONTAP in Azure, we can share with multiple customers. That helps us reduce the cost of NetApp subscriptions. In that sense, it gives us the ability to leverage multisharing and saves costs by using only one NetApp solution."

Because the data stored in Cloud Volumes ONTAP is shared and accessible, production engineers can now take logs from all Mellanox factories and analyze them for insights. The company can also share and scale environments—up and down—to

accommodate temporary innovation products and new initiatives, gaining the scalability and agility Mellanox needs.

"This solution will give us insights—and now, with our data in the cloud, we don't have any limitations," Myloslavski adds.

SOLUTION COMPONENTS

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ONTAP data management software

NetApp products for Microsoft Azure

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