



Compuverde and Mellanox – Future Included

An All-in-One Massively Scalable Solution with Unified File, Block and Object Storage

Compuverde is a fully software-defined storage solution that gives you not only a SAN or an object storage, but also a fully featured file system for applications, clients and operating systems using SMB or NFS. So why choose up front when you can have it all in one solution? It can be deployed in a single appliance using bare-metal servers or virtualized servers with storage and compute on the same server nodes. It also simplifies your data center planning – you can start with as small as a four-node cluster and then expand, as needs emerge, to hundreds of nodes, exabytes of data, a Metro Cluster with two datastores 10 kilometers apart across a metropolitan area, or a Compuverde Hybrid Cloud. No need to make an expensive decision up front for your future usage, which is guess-work at best.

This is all made possible through the unique, patented and fully balanced architecture of the Compuverde software-defined storage solution, without the complexity and costly bottlenecks from central orchestration or special purpose devices. In the Compuverde solution, all nodes share the same tasks and responsibilities. The unified file system is kept strictly consistent at all times, across all the nodes. Content and metadata are automatically distributed across the storage cluster for protection as well as to avoid hotspots. As such, the network becomes an essential and important part of the scale-out Compuverde storage solution.

Mellanox enables Compuverde to unleash its true power. The Mellanox 10/25/40/50/100Gb/s Ethernet solution, consisting of non-blocking switches and network adapter cards with hardware storage acceleration, operate in unison with the Compuverde storage solution to provide true linear scalability and performance for up to hundreds of nodes, millions of IOPS and exabytes of data in one single cluster. The potential is all built-in from the start.

The result is a solution that can handle almost any use case and any workload equally well. When demands require, add more nodes and the cluster will utilize the performance and features of the new hardware – without having to replace the entire storage environment, and without adding storage “islands” that would add complexity, more hours for maintenance and make it difficult to fully utilize the capacity.

A Compuverde storage cluster creates multiple access points to the unified storage and each one can be secured with network bonding and kept separate with VLAN, subnets, authentication and encryption. Erasure coding secures data with the lowest footprint and Virtual IP makes all access points appear online at all times, even when nodes are taken down for upgrade or in the event of hardware failure.

KEY BENEFITS

- Unified software-defined platform supporting file, block and object storage
- Tested and trusted solutions from Compuverde and Mellanox
- Linearly scalable storage, up to hundreds of nodes and exabytes of data
- High-performance Mellanox networking eliminating any network bottlenecks
- User-friendly GUI, REST API and automatic distribution of configuration. Everything in one place.
- Affordable solution, lowered TCO, and massively powerful

“Not only does the solution scale extremely well, but there is no need for forklift upgrades.”

Mathis Nybo
CTO, [WWI](#), Denmark

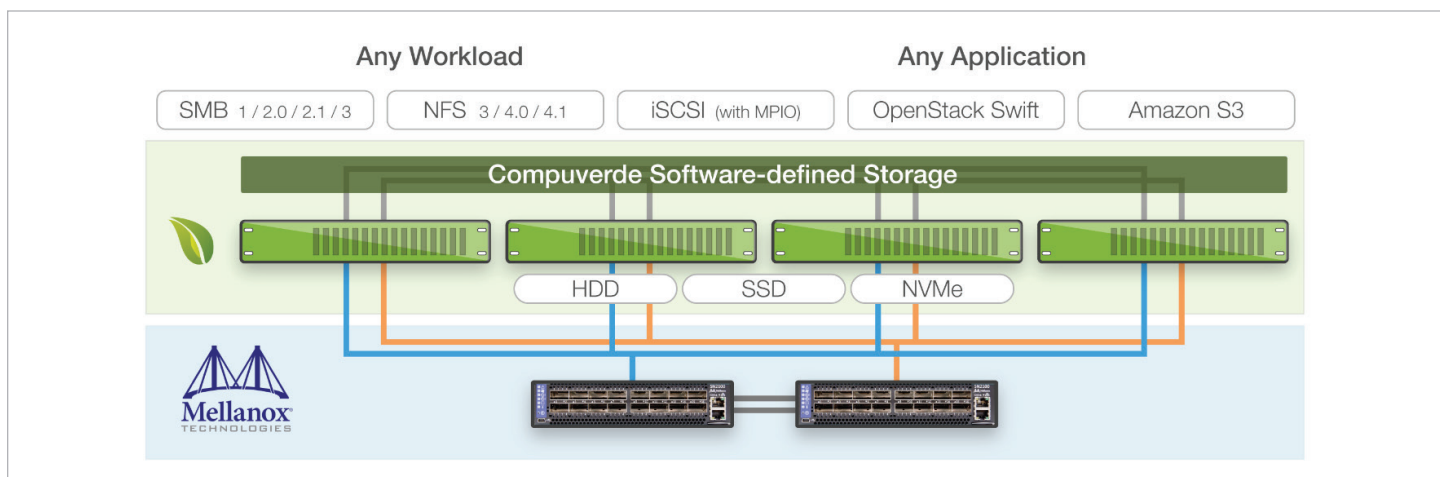
“Our experience with Compuverde is simply outstanding. No issue since we installed it. The Compuverde solution is working like clockwork.”

Jan Berka
Sr. Solution Designer, Siemens

TOP FEATURES OF THE JOINT SOLUTION

- **Easy to deploy:** Tested and trusted solutions from Compuverde and Mellanox eliminates trial and error.
- **Faster than traditional storage & faster than similar storage solutions:** All disks and all storage nodes work in parallel with no central orchestration and no costly bottlenecks.
- **High-performance networking:** The Mellanox Ethernet solution ensures virtually no latency or “clogging” when the system automatically balances and keeps itself synchronized. Workload becomes bound to the CPU and not I/O.
- **Linear-scale performance:** CPU and performance scale linearly together with capacity for each new node added to the system.
- **Easy to scale:** To scale out, just add nodes of any size and capacity to the existing cluster. Nodes can be taken out or added while in operation.
- **Future proof:** Compatible with all major protocols and with new protocols being added. What works today will work tomorrow.
- **Easy to manage:** Simplicity without compromising on features or performance. User-friendly GUI, REST API and automatic distribution of configuration. Everything in one place.
- **Pay-as-you-go:** Start small and scale out on demand to ensure efficient and optimized growth, without the need for migration or throwing out existing hardware.
- **Affordable solution, lowered TCO, still massively powerful.**

The Compuverde Software-defined Storage with Mellanox Networking



About Mellanox

Mellanox Technologies is a leading supplier of end-to-end Ethernet interconnect solutions and services for enterprise data centers, Web 2.0, cloud, storage and financial services. More information is available at www.mellanox.com.

About Compuverde

Compuverde is an established provider of software-defined storage solutions for enterprises, service providers and telecommunications companies. Compuverde offers solutions that combine telecom-grade reliability and highly-scalable cloud-based object storage, enabling the use of environmentally friendly hardware consuming less energy. Teamed with a top-ranked university and well-known partners within the telecom and IT industry, Compuverde is creating the future of storage solutions.

Compuverde Hyperscale – Global by demand, Swedish by design.

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