

Nutanix and Mellanox Simplify IT Infrastructure

A turnkey solution for compute, storage, virtualization and networking

Nutanix delivers invisible infrastructure for next-generation enterprise computing, elevating IT to focus on the applications and services that power their business. By natively converging server and storage resources into the turnkey Xtreme Computing Platform that is easy to deploy and manage, Nutanix has helped large and small IT organizations simplify their datacenter and gain predictable performance, linear scalability, and cloud-like infrastructure consumption.

Mellanox Ethernet switch solutions simplify the deployment and management of high-speed networking in the datacenter. Optimized for hyperconverged solutions, such as Nutanix Xtreme Computing Platform, Mellanox Ethernet switches stand apart from other suppliers with unique port count/form factors, ultra-low latency and exceptional power efficiency. Validated as Nutanix Ready for Networking, Mellanox Ethernet switches make the network transparent for Nutanix invisible infrastructure.

Solution Overview

Based on a distributed scale-out architecture, Nutanix solutions natively converge compute, storage and virtualization into a single appliance for all enterprise workloads at any scale. Mellanox Ethernet switch solutions greatly reduce the networking complexity, especially when the IT infrastructure scales and enterprise-class reliability is required. Together, Nutanix and Mellanox deliver end-to-end solutions for converged IT infrastructures.

Here are the top features of the joint solution:

- Easy to design and deploy: leverage sizing tools and reference designs to go from concept to production as much as 30X faster than traditional approaches
- One platform for all: Consolidation on to a single solution with predictable scalability delivered by Nutanix's web-scale architecture
- Simple and scalable networking: It simply works when servers are connected to the Mellanox Ethernet switch. With ports configurable from 10G to 40G in the smallest and most convenient form factor, the Mellanox switch solution is the most flexible and scalable product for a broad range of topologies of various IT infrastructures
- Easy-to-manage networking: With REST-based management APIs, Mellanox Ethernet switch solutions provide network provisioning and monitoring capabilities that can be easily integrated into existing management software



"Nutanix customers can get the 10GbE switch they always needed, with 12 x 10GbE ports, 40GbE ready, 50% of the space, 25% of the power, extremely low latency - all of which comes at a lower cost".

- Amit Katz, Sr. Director of WW Ethernet Sales at Mellanox

Technical Resources

- For additional product information and use cases on Mellanox Ethernet switches, see http://www.mellanox.com/page/ethernet_switch_overview
- More information about Nutanix solutions can be found at the Nutanix resources library (www.nutanix.com/re_sources)

Key Benefits For Business and IT

- Up to 30X faster time to value from concept to production
- Eliminate under-utilized infrastructure silos, using up to 80% less space and 50% lower CapEx
- Get fast VM-related compute and storage performance
- Unique port count - Two Mellanox switches fit in a 1RU space in a 19" rack
- Cost-effective 10GbE switch with 40GbE capable ports - future proof for data center expansion and 40GbE Nutanix nodes
- Improved performance: Class leading forwarding rate at all packet sizes and extremely low latency

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 Nutanix

Nutanix delivers invisible infrastructure for next-generation enterprise computing, elevating IT to focus on the applications and services that power their business. Using Nutanix, customers benefit from predictable performance, linear scalability and cloud-like infrastructure consumption. Learn more at www.nutanix.com or follow up on Twitter @nutanix.

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