RDMA Interconnect Solution Increases Data Center Productivity with Microsoft Windows Server 2012 R2

Mellanox Technologies

SUNNYVALE, CA. & YOKNEAM, Israel -- Mellanox Technologies a supplier of high-performance, end-to-end interconnect solutions for data center servers and storage systems, has announced that running Windows Server 2012 R2 SMB Direct over Mellanox's end-to-end FDR 56Gb/s InfiniBand solution accelerates virtual machine (VM) live migration by 10X vs. Windows Server 2012. Windows Server 2012 R2 SMB Direct also doubles the I/O Operations per Second (IOPS) and reduces the CPU cycles required to transfer data by 17 percent. Those impressive performance results have been achieved in conjunction with Mellanox Remote Direct Memory Access (RDMA) technology with Windows Server 2012 R2, and they demonstrate the productivity gain that InfiniBand enables in virtualized data centers when running over Microsoft Hyper-V.

"We are happy to see the new performance records of SMB Direct in Windows Server 2012 R2 and the proliferation of the technology to other areas like VM live migration," said Kevin Deierling, vice president of marketing at Mellanox Technologies. "Utilizing Mellanox's RDMA-based interconnect solutions and Microsoft Windows Server 2012 R2, end-users can increase their application performance, improve their data center system efficiency, as well as consolidate their server and storage network infrastructure over a single-wire network for optimal CAPEX and OPEX savings."

"Windows Server 2012 R2 furthers the groundbreaking innovations begun in Windows Server 2012," said Jose Barreto, Principal Program Manager, Cloud and Enterprise, at Microsoft. "We are pleased to continue our relationship with Mellanox to deliver impressive networking performance improvements."

Mellanox's leading FDR 56Gb/s InfiniBand interconnect solution includes the SwitchX-based SX6036 and SX6012 switches, and ConnectX-3/ConnectX-3 Pro 56Gb/s adapters provide greater performance when running enterprise data center applications.

About Mellanox

Mellanox Technologies is a supplier of end-to-end InfiniBand and Ethernet interconnect solutions and services for servers and storage. Mellanox interconnect solutions are designed to increase data center efficiency by providing the highest throughput and lowest latency, delivering data faster to applications and unlocking system performance capability. Mellanox offers a choice of fast interconnect products: adapters, switches, software and silicon that accelerate application runtime for a wide range of markets including high performance computing,

enterprise data centers, Web 2.0, cloud, storage and financial services.

Source URL (retrieved on *09/16/2014 - 9:34am*):
http://www.scientificcomputing.com/news/2013/10/rdma-interconnect-solution-increases-data-center-productivity-microsoft-windows-server-2012-r2