

DataON Solution for Azure Stack HCI with Remote Desktop Services

Microsoft Remote Desktop Services (RDS) is the platform of choice for building on-premises virtualization solutions for every end customer need, including delivering individual virtualized applications, providing secure mobile and remote desktop access, and providing end users the ability to run their applications and desktops from the cloud.

RDS offers deployment flexibility, cost efficiency, and extensibility—all delivered through a variety of deployment options, including Windows Server 2016 for on-premises deployments, Microsoft Azure for cloud deployments, and a robust array of partner solutions.

Hardware Configuration

3x DataON S2D-5216i Azure Stack HCI Ready Nodes

- Form factor: 2U rack
- Supports Dual Intel® Xeon® Scalable™ Processor series
- 24x DDR4 DIMMs
- 16x NVMe U.2 hot-swappable 2.5" drive bays
- **PCIe slot:** 7x PCIe 3.0 x8
- **Ethernet port:** 2x built-in 10GbE RJ45 ports; 1x management port
- **I/O controller:** Intel® PCIe NVMe switches included
 - TPM 2.0 Kit included
 - 1300W (1+1) Dual hot-swappable redundant power supplies
 - Intel® Remote Management Module 4 Lite
 - Intel® 2U premium rail kit & cable management arm

Node Configuration

- 6x Intel® Xeon® Scalable Processors, Gen2 Gold 6240Y 3.1 GHz, 8-core, 24.75MB cache; two CPUs per node
- 36x Samsung® 64GB DDR4 2933MHz ECC-Register LRDIMM; 768GB per node

- 3x NVIDIA VCX 900-2G183-0000-001 Tesla T4 16GB GDDR6 PCIe 3.0 passive cooling; one GPU per node
- 6x Mellanox® ConnectX-4 Lx EN Dual Port SFP+ 10/25GbE RDMA card; two per node
- 6x Mellanox® LinkX™ passive copper cable, ETH, up to 25Gb/s, SFP28, 28 AWG, 3M
- 6x Intel® S4510 480GB SATA M.2 2280 boot SSD; mirrored, two per node
- DataON MUST™ (Management Utility Software Tool) for Windows Admin Center Included

24x All-Flash Storage Configuration with Flat-NVMe SSDs

- 24x Intel® DC P4510 NVMe 1TB 2.5" SSDs for the storage tier
- Part number SSDPE2KX010T801; 8x per node; 1x per node reserved for fast rebuilds
- Three-way mirror; 30% efficiency; total usable capacity ~6.3TB (after formatting)
- 24x Slots (8x per node); available for expansion

SMB 3.0 RDMA/RoCE v2 Network Fabric

- 2x Mellanox® Spectrum™ 25/100GbE, 1U open Ethernet switch with Onyx™; 18x SFP-28, 4x QSFP-28 ports, 2x power supplies (AC), short depth, x86 quad core, P2C airflow; part number MSN2010-CB2F
- 2x Mellanox® 3-year Silver support & warranty for switch included; part number SUP-SN2010-3S
- 1x Rack installation kit for SN2100 series short depth 1U switches; part number MTEF-KIT-D
- 2x Mellanox® LinkX™ passive copper cable, ETH 100GbE, 100GB/s, QSFP, 1M; part number CB-MCP1600-C001

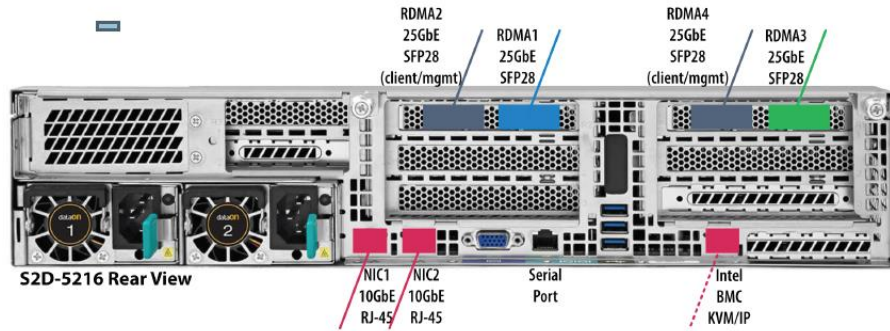
DataON Deployment Services

- 1x DataON RDS remote hands-on configuration, post-deployment support and training (16 hours)

Server Node Diagram

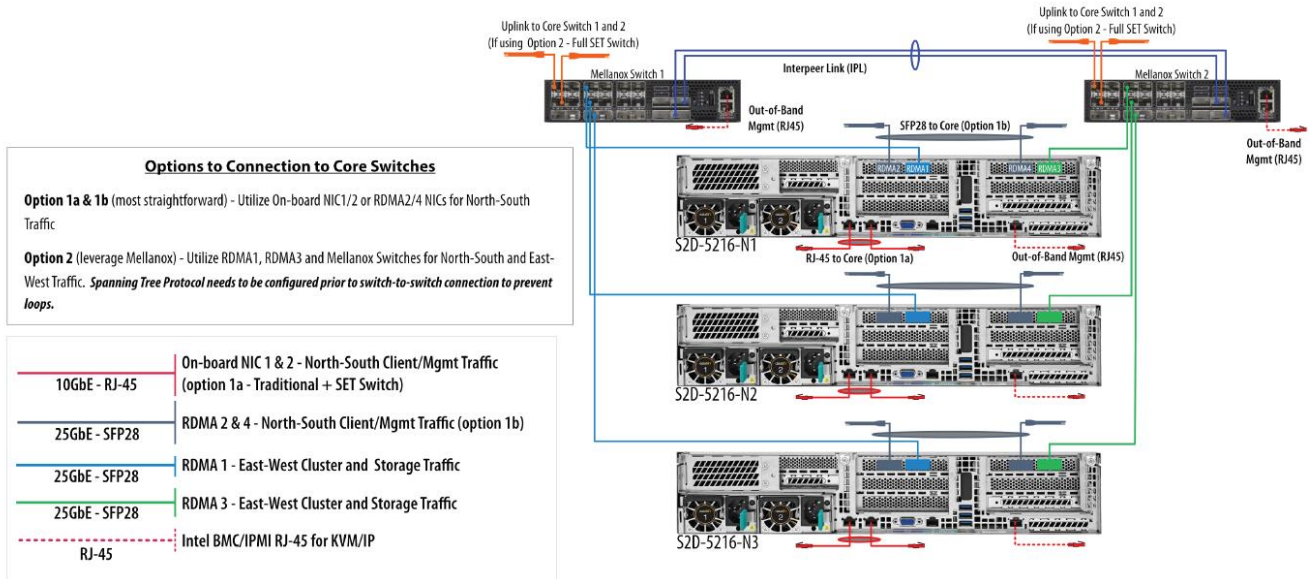


S2D-5216 Front View



10GbE - RJ-45	On-board NIC 1 & 2 - North-South Client/Management Traffic (option 1)	<p>Note on SFP+ and SFP28</p> <p>Our dual-port 25GbE RDMA adapters have ports in the form factor of SFP+. To achieve the following speeds, please select the appropriate cables:</p> <ul style="list-style-type: none"> - For 25Gb/s, select SFP28 cables - For 10Gb/s, select SFP+ cables
25GbE - SFP28	RDMA 2 & 4 - North-South Client/Management Traffic (option 2)	
25GbE - SFP28	RDMA 1 - East-West Cluster and Storage Traffic	
25GbE - SFP28	RDMA 3 - East-West Cluster and Storage Traffic	
Intel BMC/IPMI RJ-45	Intel BMC/IPMI RJ-45 for KVM/IP	

Network Connections



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