DataON Hybrid Cloud Solutions for Microsoft Azure Stack HCI
Quick Reference Guide

Highlights
- Validated Microsoft Azure Stack HCI solution — Designed to help customers expand from on-premises to the cloud for a hybrid cloud approach. Consolidate virtualized workloads, gain cloud efficiencies on-prem, without lengthy design & build times.
- Optimized for Windows Server 2016/2019 Storage Spaces Direct — Storage Spaces Direct delivers industry-leading performance for the most affordable price, providing software-defined, shared-nothing storage. It can be used for hyper-converged deployments, simplifying configuration and reducing hardware costs. Scalable to up to 16 servers and over 400 drives.
- High Performance — Utilizes all-flash Intel® Optane™ or NVMe SSDs to achieve over 3.2M IOPS in a 4-node cluster.

Technology
- Second generation Intel® Xeon® Scalable Processors — Delivers up to 28 cores per CPU and 6 DDR4 memory channels per socket. Also supports Intel’s breakthrough Intel® Optane™ DC persistent memory, delivering greater than 3TB per socket.
- Intel® Optane™ SSD Cache Tier (select models) — Provides breakthrough performance and dramatically reduced disk latency with 30% greater IOPS performance for write-intensive workloads.
- Storage and Networking with SMB3 over RDMA — Increases CPU efficiency while delivering the lowest latency and 2x throughput versus TCP/IP.

MUST Visibility & Management Tool
- Provides SAN-like storage monitoring features for Windows Server software-defined environments.
- Displays dashboard-level metrics of your cluster through a single pane of glass, with operational visibility of system analytics, infrastructure health management, storage system metrics, and event logging insights.
- Sends system alerts and automated e-mail notifications for hardware failures, configuration issues and resource saturation.
- Can be used through its standalone console or within Windows Admin Center, adding historical data reporting, disk mapping, system alerts, and call home support.

<table>
<thead>
<tr>
<th>Profile</th>
<th>HCI-108</th>
<th>HCI-208</th>
<th>HCI-212</th>
<th>HCI-224</th>
<th>HCI-668*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form Factor</td>
<td>All-NVMe High performance</td>
<td>All-NVMe High performance</td>
<td>Hybrid Performance &amp; cost optimized</td>
<td>All-NVMe IOPS &amp; performance optimized</td>
<td>Hybrid Capacity optimized</td>
</tr>
<tr>
<td>Drive Config</td>
<td>1U / 1-Node rack; 8x 2.5&quot; bays</td>
<td>2U / 1-Node rack; 8x 2.5&quot; bays</td>
<td>2U / 1-Node rack; 12x 3.5&quot; bays</td>
<td>2U / 1-Node rack; 24x 2.5&quot; bays</td>
<td>6U / 1-Node rack</td>
</tr>
<tr>
<td>Scalability</td>
<td>8x NVMe U.2</td>
<td>8x NVMe U.2</td>
<td>2x NVMe U.2 + 10x SAS/SATA</td>
<td>24x NVMe U.2</td>
<td>8x NVMe U.2 + 60x 3.5&quot; JBOD</td>
</tr>
<tr>
<td>Processor</td>
<td>2nd Generation Intel® Xeon® Scalable Processor</td>
<td></td>
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<tr>
<td>CPU Cores</td>
<td>Dual socket, 16 to 56 cores per node</td>
<td></td>
<td></td>
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<tr>
<td>Memory / Slots</td>
<td>128GB to 3TB DDR4 DIMMs / 24 slots / Supports Intel® Optane™ persistent memory</td>
<td></td>
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<tr>
<td>Boot Drive</td>
<td>SATA M.2 480GB</td>
<td></td>
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</tr>
<tr>
<td>Cache Tier</td>
<td>Intel® NVMe SSDs</td>
<td>Intel® NVMe SSDs</td>
<td>SATA SSDs &amp; SAS HDDs</td>
<td>NVMe or SATA SSDs</td>
<td>SAS HDDs (in external JBOD)</td>
</tr>
<tr>
<td>Capacity Tier</td>
<td>Intel® NVMe SSDs</td>
<td>Intel® NVMe SSDs</td>
<td>SATA SSDs &amp; SAS HDDs</td>
<td>NVMe or SATA SSDs</td>
<td>SAS HDDs (in external JBOD)</td>
</tr>
<tr>
<td>PCIe 3.0 Slots</td>
<td>2x PCIe 3.0 x16</td>
<td>7x PCIe 3.0 x8</td>
<td>7x PCIe 3.0 x8</td>
<td>7x PCIe 3.0 x8</td>
<td>7x PCIe 3.0 x8</td>
</tr>
<tr>
<td>Onboard Network Ports</td>
<td>2x 10GbE RJ45 &amp; 2x 10GbE SFP+ mezzanine</td>
<td>2x 10GbE RJ45 &amp; 2x 10GbE SFP+ mezzanine</td>
<td>2x 10GbE RJ45 &amp; 2x 10GbE SFP+ mezzanine</td>
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</tr>
<tr>
<td>Networking</td>
<td>1x 25GbE SFP28 or 40/100GbE QSFP28 2-port RDMA</td>
<td>2x 25GbE SFP28 or 2x 40/100GbE QSFP28 2-port RDMA</td>
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</tr>
<tr>
<td>Max.TDP/Power</td>
<td>165W / Dual 1100W</td>
<td>165W / Dual 1300W</td>
<td>140W / Dual 1300W</td>
<td>140W / Dual 1300W</td>
<td>165W / Dual 1300W* Dual 1600W JBOD</td>
</tr>
</tbody>
</table>

*Connects to JBOD for capacity tier. Requires 200/240V power.

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