Dell APEX Cloud Platform for Microsoft Azure empowers organizations to unlock innovation with a consistent Azure experience across their IT environments. Through extensive integrations and numerous automations, the APEX Cloud Platform allows IT organizations to simplify app modernization and accelerate DevOps.

It is the first offer for Premier Solutions for Microsoft Azure Stack HCI, a new category in the Azure Stack HCI catalog reserved for key partners with the greatest levels of engagement with Microsoft and deepest integrations into familiar Microsoft management tools.

The platform enhances Azure operations by providing consistent management and operations with centralized Azure tools, while mitigating security and compliance risks with an intrinsic approach to security that extends Azure governance across all deployment environments.

Collaboratively engineered by Dell and Microsoft to optimize Azure hybrid cloud

Key Features of Dell APEX Cloud Platform for Microsoft Azure

- Intelligently designed MC nodes from Dell offer:
  - Initial deployment automation, full-stack lifecycle management, and ongoing infrastructure operations through Dell APEX Cloud Platform Foundation Software
  - Flexible configurations for varying application performance, capacity, or location needs
  - Cluster scalability from 1 to 16 nodes
  - Single-node clusters for remote, edge or branch projects, very sensitive to costs and that may tolerate the resiliency of a single server

- Dell APEX Cloud Platform Foundation Software integrates with Microsoft Windows Admin Center and the Azure Portal, leveraging familiar tools that provide a simple, consistent, centralized mechanism for operating on-premises, edge and public Azure deployments.

- Integration with the Azure portal enables easy extension of security and governance policies to the Dell APEX Cloud Platform for Microsoft Azure.

- Azure Arc-enabled services empower IT to simplify application modernization and innovate faster.

- The Secure Connect Gateway (SCG) creates a trustable platform to handle infrastructure and call home events, create service requests and deliver remote support for troubleshooting.

- Dell ProDeploy and Dell ProSupport services deliver professional onsite deployment and one contact technical support.

“Microsoft and Dell are simplifying hybrid cloud management with an integrated solution that gives customers consistent operations across the Azure public cloud and their on-premises and edge environments. Dell APEX Cloud Platform for Microsoft Azure provides native integration of Dell’s differentiated infrastructure platforms and management software with Azure Arc and Arc-enabled services like Azure Stack HCI and AKS for a unified experience from cloud to edge.”

Bernardo Caldas
Microsoft - Corporate Vice President, Azure Edge PM
## MC-760

<table>
<thead>
<tr>
<th>Storage Configuration</th>
<th>All Flash (All-SSD)</th>
<th>All Flash (All-NVMe)</th>
<th>Hybrid (SSD + HDD)</th>
<th>Hybrid (NVMe + HDD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chassis Configurations</td>
<td>24 drives: 24 x 2.5&quot; front or 28 drives: 24 x 2.5&quot; front bay drives + 4 x 2.5&quot; rear</td>
<td>24 x 2.5&quot; front bay drives (switched)</td>
<td>16 drives: 12 x 3.5&quot; HDDs + 4 x 2.5&quot; SAS (rear)</td>
<td>16 drives: 12 x 3.5&quot; HDDs + 4 x 2.5&quot; NVMe (rear)</td>
</tr>
</tbody>
</table>

### Processors
Up to two dual socket Intel Sapphire Rapids 4th Generation EP Processors (Silver/Gold/Platinum options)

### Memory
128 GB to 4 TB DDR4 (Up to 32 x DDR5 RDIMMs 4800 MT/s) (16 or 32 DIMM optimal Population)

### Storage controller
| Internal HBA 355i 12Gbps SAS HBA Controller (NON-RAID) | None | Internal HBA 355i (FH) 12Gbps SAS HBA Controller (NON-RAID) | Internal HBA 355i (LP) 12Gbps SAS HBA Controller (NON-RAID) |

### Storage - OS Boot
BOSS N1 with dual hot-plug M.2 NVMe 960GB in RAID1

### Storage for Cache

<table>
<thead>
<tr>
<th>Min/Max</th>
<th>RI = Read Intensive</th>
<th>WI = Write Intensive</th>
<th>Min: 4 x 800GB = 3.2 TB</th>
<th>Min: 4 x 1.6TB = 3.2 TB</th>
<th>Min: 4 x 2TB = 8 TB</th>
<th>Min: 4 x 2TB = 8 TB</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Min/Max</td>
<td>RI = Read Intensive</td>
<td>MU = Mixed Use</td>
<td>WI = Write Intensive</td>
<td>Min: 4 x 800GB = 3.2 TB</td>
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</table>

### Storage for Capacity

<table>
<thead>
<tr>
<th>Min/Max</th>
<th>RI = Read Intensive</th>
<th>MU = Mixed Use</th>
<th>WI = Write Intensive</th>
<th>Min: 28 x 7.68TB = 215 TB</th>
<th>Min: 24 x 15.36 = 368 TB</th>
<th>Min: 24 x 15.36 = 368 TB</th>
<th>Min: 12 x 20 = 240 TB</th>
<th>Min: 12 x 20 = 240 TB</th>
<th>Min: 12 x 20 = 240 TB</th>
</tr>
</thead>
</table>

### Min/Max Raw Storage

<table>
<thead>
<tr>
<th>Min/Max</th>
<th>3.2 to 215 TB</th>
<th>6.4 to 368 TB</th>
<th>8 to 240 TB</th>
<th>8 to 240 TB</th>
</tr>
</thead>
</table>

### Network cards
- Add-in-Card (required): 1-4
  - Intel: E810-XXVDA2 dual port 1/10/25GbE SFP28, E810-XXVDA4 quad port 1/10/25GbE SFP28, E810-CQDA2 dual port 100GbE QSFP56 (iWARP, RoCE)
  - Mellanox: ConnectX-6 LX dual port 10/25GbE SFP28, ConnectX-6 DX dual port 100GbE QSFP56 (RoCE)
  - OCP NIC 3.0 Card (optional)
  - Intel: E810-XXVDA2 dual port 1/10/25GbE SFP28, E810-XXVDA4 quad port 1/10/25GbE SFP28 (iWARP, RoCE)
  - Mellanox: ConnectX-6 LX dual port 10/25 GbE SFP28 (RoCE)
- Integrated LOM:
  - 2 x 1 GbE Base-T Broadcom 5720 (used for factory imaging only, not supported for customer use cases)

### GPU
- GPU capable: up to 4 x SW GPU or 2 x DW GPU (All flash 28 drive configuration not GPU capable)
  - NVIDIA Ampere A2 SW, 60W, 16GB Passive
  - NVIDIA Ampere A16 DW, 250W, 64GB Passive
  - NVIDIA Ampere A30 DW, 165W, 24GB Passive
  - NVIDIA Ampere A40 DW, 300W, 48GB Passive
  - NVIDIA Ada Lovelace, L4, SW, 72W, 24GB Passive
  - NVIDIA Ada Lovelace, L40, DW, 300W, 48GB Passive

### Operating System
Microsoft Azure Stack HCI, version 23H2 (factory preinstalled)

### Out of Band Management
Integrated Dell Remote Access Controller (iDRAC) 9 Enterprise or Datacenter IPMI 2.0 compliant

### Integrations
Dell APEX Cloud Platform Foundation Software
Dell APEX Cloud Platform extension in Microsoft Windows Admin Center

### Services
ProDeploy, ProDeploy Plus, ProSupport, ProSupport Plus, optional Dell Infrastructure and Consulting services
Call-routing, phone home, remote support, and automated case creation supported with Secure Connect Gateway

### Security
Trusted Platform Module 2.0

### Power Supplies
Dual, Hot-plug, Redundant Power Supply (1+1), 1100/1400/1800/2400/2800 W

### Form Factor
2U Rack, [Dell APEX Cloud Platform MC-760 Hardware Requirements and Specifications](https://www.dell.com/support/manuals)

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## MC-660

<table>
<thead>
<tr>
<th>Storage Configuration</th>
<th>All Flash (All-SSD)</th>
<th>All Flash (All-NVMe)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Chassis Configurations</strong></td>
<td>10 x 2.5” SAS Chassis Up to 10 SSD front drives (SAS/vSAS)</td>
<td>10 x 2.5” NVMe Chassis Up to 10 NVMe front drives</td>
</tr>
<tr>
<td><strong>Processors</strong></td>
<td>Up to two dual socket Intel Sapphire Rapids 4th Generation EP Processors (Silver/Gold/Platinum options)</td>
<td></td>
</tr>
<tr>
<td><strong>Memory</strong></td>
<td>128 GB to 4 TB DDR4 (Up to 32 x DDR5 RDIMMs 4800 MT/s) (16 or 32 DIMM optimal Population)</td>
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<tr>
<td><strong>Storage controller</strong></td>
<td>Internal HBA 355i 12Gbps SAS HBA Controller (NON-RAID)</td>
<td>None</td>
</tr>
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### Storage for Cache

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<th>RI = Read Intensive</th>
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<th>WI = Write Intensive</th>
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<tbody>
<tr>
<td>Minimum: 4 x 800GB = 3.2 TB</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Maximum: 10 x 7.68TB = 76.8 TB</td>
<td>- Options for SAS/vSAS devices</td>
<td>- RI devices at &gt;1.92 TB</td>
<td>- MU =&gt; 800 GB</td>
</tr>
</tbody>
</table>

### Storage for Capacity

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<tbody>
<tr>
<td>Minimum: 4 x 1.6TB = 6.4 TB</td>
<td>- RI devices at &gt;1.92 TB</td>
<td>- MU =&gt; 800 GB</td>
<td></td>
</tr>
</tbody>
</table>

### Min/Max Raw Storage

| 3.2 to 76.8 TB | 6.4 to 153.6 TB |

### Network cards

- Add-in-Card (required): 1-3
  - Intel: E810-XXVDA2 dual port 1/10/25GbE SFP28, E810-XXVDA4 quad port 1/10/25GbE SFP28, E810-CQDA2 dual port 100GbE QSFP56 (iWARP, RoCE)
  - Mellanox: ConnectX-6 LX dual port 10/25GbE SFP28, ConnectX-6 DX dual port 100GbE QSFP56 (RoCE)
- OCP NIC 3.0 Card (optional)
  - Intel: E810-XXVDA2 dual port 1/10/25GbE SFP28, E810-XXVDA4 quad port 1/10/25GbE SFP28 (iWARP, RoCE)
  - Mellanox: ConnectX-6 LX dual port 10/25 GbE SFP28 (RoCE)
  - Integrated LOM:
    - 2 x 1 GbE Base-T Broadcom 5720 (used for factory imaging only, not supported for customer use cases)

### GPU

<table>
<thead>
<tr>
<th>DW = Double Wide</th>
<th>SW = Single Wide</th>
</tr>
</thead>
<tbody>
<tr>
<td>GPU capable: up to 2 x SW GPU</td>
<td>NVIDIA Ampere A2 SW, PCIe, 60W, 16GB Passive</td>
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### Operating System

Microsoft Azure Stack HCI, version 23H2 (factory preinstalled)

### Out of Band Management

Integrated Dell Remote Access Controller (iDRAC) 9 Enterprise or Datacenter IPMI 2.0 compliant

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### Security

Trusted Platform Module 2.0

### Power Supplies

Dual, Hot-plug, Redundant Power Supply (1+1), 1100/1400/1800 W

### Form Factor

1U Rack, [Dell APEX Cloud Platform MC-660 Hardware Requirements and Specifications](#)