

Specification Sheet



Dell APEX Cloud Platform for Red Hat OpenShift

Dell APEX Cloud Platform for Red Hat OpenShift empowers organizations to unlock innovation with a consistent Kubernetes experience across their IT environments, utilizing Red Hat OpenShift. Through extensive integrations and numerous automations, the APEX Cloud Platform allows IT organizations to simplify application modernization and accelerate DevOps.

It is the first solution to offer seamless integration of the infrastructure presented directly into the OpenShift Web Console. Cluster administrators can manage the entire system from the same console they would use to manage the applications and services running in OpenShift.

The platform streamlines OpenShift operations by providing consistent management and operations, while reducing the cost, complexity, and eliminating the overhead of a hypervisor by running OpenShift directly on bare metal. This solution decreases the time it takes to deploy the cluster by up to 90% while minimizing your attack surface and simplifying the process of keeping the cluster up to date.

Collaboratively engineered by Dell and Red Hat to optimize the OpenShift experience

Key Features of Dell APEX Cloud Platform for Red Hat OpenShift

- Intelligently designed Dell MC nodes offer:
 - Initial deployment automation, full-stack lifecycle management, and ongoing infrastructure operations through the Dell APEX Cloud Platform Foundation Software
 - Flexible configurations for varying cloud-native application performance, capacity, or location requirements
 - Cluster scalability from a minimum of four to thousands of nodes
- Dell APEX Cloud Platform Foundation Software integrates with OpenShift Web Console, leveraging familiar interface that provides a simple, consistent, and centralized mechanism for operating all aspects of your OpenShift cluster.
- The Dell Software Defined Storage (SDS) is a common data storage solution that provides the availability of traditional infrastructure. This storage can be used with Dell APEX Navigator to enable data replication between on-premises and APEX Block Storage for Public Cloud.
- The Dell Container Storage Integration (CSI) allows for seamless access to the Dell Software Defined Storage to support stateful containers.
- The Dell APEX Cloud Platform creates a trustable way 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 single point-ofcontact technical support.

Storage controller Internal HBA 355i 12Gbps SAS HBA Controller (NON-RAID) Rone BOSS N1 with dual hot-plug M.2 NVMe 960GB in RAID1 Storage ror Cache Min/Max RI = Read Intensive MU = Mixed Use WI = Write Intensive MU = Mixed Use WI = Write Intensive MIn/Max Raw Storage Add-in-Card (required): 1-2 Broadcom: 57414 dual port 10/25GbE SFP28 NVIDIA: ConnectX-6 LX dual port 10/25GbE SFP28 NVIDIA: ConnectX-6 LX dual port 10/25GbE SFP28 NVIDIA: ConnectX-6 LX dual port 10/25GbE SFP28 Network cards CCP NIC 3.0 Card (optional) Broadcom: 57414 dual port 10/25GbE SFP28 NVIDIA: ConnectX-6 LX dual port 10/25GbE SFP28 Network cards OCP NIC 3.0 Card (optional) Broadcom: 57414 dual port 10/25GbE SFP28 NVIDIA: ConnectX-6 LX dual port 10/25GbE SFP28 NVIDIA: ConnectX-6 LX dual port 10/25GbE SFP28 Integrated LOM: 2 X 1 GbE Base-T Broadcom 5720 (used for factory imaging only, not supported for customer use cases) GPU capable: up to 4 x SW GPU or 2 x DW GPU GPU DW = Double Wide SW = Single Wide NVIDIA Ampere A3 DW, 165W, 24GB Passive NVIDIA Ampere A40 DW, 300W, 48GB Passive Dell APEX Cloud Platform Extension in Microsoft Windows Admin Center ProDeploy, ProDeploy Pius, ProSupport, ProSupport Pius, optional Dell Infrastructure and Consulting services Call-routing, phone home, remote support, and automated case creation supported with Secure Connect Gatew.	MC-760 Compւ	ite Nodes	
Processors Up to two dual socket Intel Sapphire Rapids 4th Generation EP Processors (Silver/Gold/Platinum options Memory		Single Socket	Dual Socket
Memony 64 GB to 2 TB DDR5 (Up to 16 x DDR5 RDIMMs 4800 MT/s) (8 or 16 DIMM optimal Population) MT/s) (8 or 16 DIMM optimal Population) Internal HBA 355i 12Gbps SAS HBA Controller (NON-RAID) None Storage C SB Boot Storage FO SB BOOT BOSS N1 with dual hot-plug M.2 NVMe 960GB in RAID1 Storage for Cache Min/Max RI = Read Intensive MU = Write Intensive MI = Read Intensive MIn/Max Raw Storage - Add-in-Card (required): 1-2 - Broadcom: 57414 dual port 10/25GbE SFP28 - NVIDIA: ConnectX-6 LX dual port 10/025GbE SFP28 - Mellanox: ConnectX-6 DX dual port 10/025GbE SFP28 - Mellanox: ConnectX-6 LX dual port 10/025Gb			
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Storage - OS Boot BOSS N1 with dual hot-plug M.2 NVMe 960GB in RAID1 Storage for Cache Min/Max R1 = Read Intensive MU = Mixel Use W1 = Write Intensive Min/max R1 = Read Intensive Min/Max Raw Storage - Add-in-Card (required): 1-2 - Broadcom: 57414 dual port 10/25GbE SFP28 - NVIDIA: ConnectX-6 LX dual port 10/25GbE SFP28 - NVIDIA: ConnectX-6 LX dual port 10/25GbE SFP28 - Mellanox: ConnectX-6 LX dual port 10/25GbE SFP28 - Integrated LOM: - 2 x 1 GbE Base-T Broadcom 5720 (used for factory imaging only, not supported for customer use cases) GPU capable: up to 4 x SW GPU or 2 x DW GPU - NVIDIA Ampere A2 SW, 60W, 16GB Passive - NVIDIA Ampere A3 DW, 165W, 24GB Passive - NVIDIA Ampere A40 DW, 350W, 44GB Passive - NVIDIA Ampere A40 DW, 300W, 48GB Passive - NVIDIA Ampere	Memory		128 GB to 4 TB DDR5 (Up to 32 x DDR5 RDIMMs 480 MT/s) (16 or 32 DIMM optimal Population)
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Min/Max RI = Read Intensive MI = Mixed Use WI = Write Intensive Storage for Capacity Min/max RI = Read Intensive MI = Mixed Use Win = Write Intensive MI = Mixed Use WI = Write Intensive MI = Mixed Use WI = Write Intensive Min/Max Raw Storage - Add-in-Card (required): 1-2 - Broadcom: 57414 dual port 10/25GbE SFP28 - NVIDIA: ConnectX-6 LX dual port 10/25GbE SFP28 - NVIDIA: ConnectX-6 LX dual port 10/25GbE SFP28 - Mellanox: ConnectX-6 DX dual port 10/25GbE SFP28 - Mellanox: ConnectX-6 LX dual port 10/25GbE SFP28 - Integrated LOM: - 2 x 1 GbE Base-T Broadcom 5720 (used for factory imaging only, not supported for customer use cases) GPU capable: up to 4 x SW GPU or 2 x DW GPU - NVIDIA Ampere A2 SW, 60W, 16GB Passive - NVIDIA Ampere A30 DW, 16GB Passive - NVIDIA Ampere A40 DW, 300W, 48GB Passive - NVIDIA Openations Dell APEX Cloud Platform Foundation Software Dell APEX Cloud Platform extension in Microsoft Windows Admin Center ProDeploy, ProDeploy Plus, ProSupport Plus, optional Dell Infrastructure and Consulting services Call-routing, phone home, remote support, and automated case creation supported with Secure Connect Gatew.	Storage - OS Boot	BOSS N1 with dual hot-plu	g M.2 NVMe 960GB in RAID1
MU = Write Intensive Min/Max Raw Storage - Add-in-Card (required): 1-2 - Broadcom: 57414 dual port 10/25GbE SFP28 - NVIDIA: ConnectX-6 LX dual port 10/25GbE SFP28 - Mellanox: ConnectX-6 DX dual port 100GbE QSFP56 Network cards - OCP NIC 3.0 Card (optional) - Broadcom: 57414 dual port 10/25GbE SFP28 - Mellanox: ConnectX-6 DX dual port 100GbE QSFP56 OCP NIC 3.0 Card (optional) - Broadcom: 57414 dual port 10/25GbE SFP28 - Mellanox: ConnectX-6 LX dual port 10/25 GbE SFP28 - Mellanox: ConnectX-6 LX dual port 10/25 GbE SFP28 - Integrated LOM: - 2 x 1 GbE Base-T Broadcom 5720 (used for factory imaging only, not supported for customer use cases) GPU capable: up to 4 x SW GPU or 2 x DW GPU - NVIDIA Ampere A25 W, 60W, 16GB Passive - NVIDIA Ampere A30 DW, 250W, 64GB Passive - NVIDIA Ampere A30 DW, 165W, 24GB Passive - NVIDIA Ampere A40 DW, 300W, 48GB Passive - NVIDIA Ampere A40 DW, 300W, 48GB Passive Out of Band Management Integrated Dell Remote Access Controller (iDRAC) 9 Enterprise or Datacenter IPMI 2.0 compliant Dell APEX Cloud Platform Foundation Software Dell APEX Cloud Platform extension in Microsoft Windows Admin Center 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 Gateware - Red Hat Core CS - Add-in-Card (required): 1-2 - Broadcom: 57414 dual port 10/25GbE SFP28 - NVIDIA Ampere A40 DW, 300W, 48GB Passive - NVIDIA Ampere A30 DW, 165W, 24GB Passive - NVIDIA Ampere A30 DW, 165W, 24	MU = Mixed Use	<u>-</u>	
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GPU DW = Double Wide SW = Single Wide 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 Operating System Red Hat CoreOS Out of Band Management Integrated Dell Remote Access Controller (iDRAC) 9 Enterprise or Datacenter IPMI 2.0 compliant Dell APEX Cloud Platform Foundation Software Dell APEX Cloud Platform extension in Microsoft Windows Admin Center 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 Gateward ONUTION OF THE PROPERTY OF	Network cards	 Broadcom: 57414 dual port 10/25GbE SFP28 NVIDIA: ConnectX-6 LX dual port 10/25GbE SFP28 Mellanox: ConnectX-6 DX dual port 100GbE QSFP56 OCP NIC 3.0 Card (optional) Broadcom: 57414 dual port 10/25GbE SFP28 Mellanox: ConnectX-6 LX dual port 10/25 GbE SFP28 Integrated LOM: 	g only, not supported for customer use cases)
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Call-routing, phone home, remote support, and automated case creation supported with Secure Connect Gateway	Integrations		admin Center
	Services		
	Security		•
Power Supplies Dual, Hot-plug, Redundant Power Supply (1+1), 1100/1400/1800 W	Power Supplies	Dual, Hot-plug, Redundant Power Supply (1+1), 1100/1400/	1800 W
Form Factor 1U Rack	Form Factor	1U Rack	

MC-760 Storag	je Nodes	
Storage Configuration	All Flash (All-SSD)	All Flash (All-NVMe)
Chassis Configurations	24 x 2.5" SAS Chassis Up to 24 SSD front drives (SAS)	24 x 2.5" NVMe Chassis Up to 24 NVMe front drives
Processors	Up to two dual socket Intel Sapphire Rapids 4th Gene	eration EP Processors (Silver/Gold/Platinum options)
Memory	128 GB to 4 TB DDR5 (Up to 32 x DDR5 RDIMM	Ms 4800 MT/s) (16 or 32 DIMM optimal Population)
Storage controller	Internal HBA 355i 12Gbps SAS HBA Controller (NON-RAID)	None
Storage - OS Boot	BOSS N1 with dual hot-plu	g M.2 NVMe 960GB in RAID1
Storage for Cache Min/Max RI = Read Intensive MU = Mixed Use WI = Write Intensive	-	-
Storage for Capacity Min/max RI = Read Intensive MU = Mixed Use WI = Write Intensive	Minimum: 5 x 1.6 TB = 6.4 TB Maximum: 20 x 7.68 TB = 153.6 TB Options for SAS devices RI devices at >1.92 TB MU => 1.6 TB	Minimum: 5 x 1.6 TB = 6.4 TB Maximum: 20 x 7.68 TB = 153.6 TB - RI devices at >1.92 TB - MU => 1.6 TB
Min/Max Raw Storage	6.4 to 160 TB	6.4 to 160 TB
Network cards	 Add-in-Card (required): 1-2 Broadcom: 57414 dual port 10/25GbE SFP28 NVIDIA: ConnectX-6 LX dual port 10/25GbE SFP28 Mellanox: ConnectX-6 DX dual port 100GbE QSFP56 OCP NIC 3.0 Card (optional) Broadcom: 57414 dual port 10/25GbE SFP28 Mellanox: ConnectX-6 LX dual port 10/25 GbE SFP28 Integrated LOM: 2 x 1 GbE Base-T Broadcom 5720 (used for factory imagin 	g only, not supported for customer use cases)
GPU DW = Double Wide SW = Single Wide	No GPU support in storage nodes	J. 7,,
Operating System	Red Hat Enterprise Linux 8.8	
Out of Band Management	Integrated Dell Remote Access Controller (iDRAC) 9 Enterpi IPMI 2.0 compliant	rise or Datacenter
Integrations	Dell APEX Cloud Platform Foundation Software Dell APEX Cloud Platform extension in OpenShift Web Cons	sole
Services	ProDeploy, ProDeploy Plus, ProSupport, ProSupport Plus, o Call-routing, phone home, remote support, and automated c	·
Security	Trusted Platform Module 2.0	
Power Supplies	Dual, Hot-plug, Redundant Power Supply (1+1), 1100/1400/	1800 W
Form Factor	1U Rack	

MC-660 Compu	ute Nodes	
CPU Configuration	Single Socket	Dual Socket
Chassis Configurations		AS Chassis s Supported
Processors	Up to two dual socket Intel Sapphire Rapids 4th Gene	eration EP Processors (Silver/Gold/Platinum options)
Memory	64 GB to 2 TB DDR5 (Up to 16 x DDR5 RDIMMs 4800 MT/s) (8 or 16 DIMM optimal Population)	128 GB to 4 TB DDR5 (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
Storage - OS Boot	BOSS N1 with dual hot-plu	g M.2 NVMe 960GB in RAID1
Storage for Cache Min/Max RI = Read Intensive MU = Mixed Use WI = Write Intensive	-	-
Storage for Capacity Min/max RI = Read Intensive MU = Mixed Use WI = Write Intensive	-	-
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Network cards GPU DW = Double Wide SW = Single Wide	 Add-in-Card (required): 1-2 Broadcom: 57414 dual port 10/25GbE SFP28 NVIDIA: ConnectX-6 LX dual port 10/25GbE SFP28 Mellanox: ConnectX-6 DX dual port 100GbE QSFP56 OCP NIC 3.0 Card (optional) Broadcom: 57414 dual port 10/25GbE SFP28 Mellanox: ConnectX-6 LX dual port 10/25 GbE SFP28 Integrated LOM: 2 x 1 GbE Base-T Broadcom 5720 (used for factory imagin GPU capable: up to 2 x SW GPU NVIDIA Ampere A2 SW, PCIe, 60W, 16GB Passive (lim 	
Operating System	Red Hat CoreOS	
Out of Band Management	Integrated Dell Remote Access Controller (iDRAC) 9 Enterpil IPMI 2.0 compliant	rise or Datacenter
Integrations	Dell APEX Cloud Platform Foundation Software Dell APEX Cloud Platform extension in Microsoft Windows A	Admin Center
Services	ProDeploy, ProDeploy Plus, ProSupport, ProSupport Plus, c Call-routing, phone home, remote support, and automated c	
Security	Trusted Platform Module 2.0	
Power Supplies	Dual, Hot-plug, Redundant Power Supply (1+1), 1100/1400/	1800 W
Form Factor	1U Rack	

Configurations Up to 10 SSD front drives (SAS) Up to 10 NVMe front drives Processors Up to two dual socket Intel Sapphire Rapids 4th Generation EP Processors (Silver/Gold/Platinum options) Memory 128 GB to 4 TB DDR5 (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 Storage for Cache Min/Max RI = Read Intensive MU = Mixed Use WI = Write Intensive MU = Nixed Use WI = Write Intensive MU = Nixed Use MI = Read Intensive MU = Nixed Use MI = Read Intensive MU = Nixed Use MI =
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Storage for Cache Min/Max RI = Read Intensive MU = Mixed Use WI = Write Intensive Minimum: 5 x 1.6 TB = 6.4 TB Maximum: 10 x 7.68 TB = 76.8 TB Maximum: 10 x 15.36 TB = 153.6 TB
Min/Max RI = Read Intensive MU = Mixed Use WI = Write Intensive Storage for Capacity Min/max RI = Read Intensive Min/max RI = Read Intensive MU = Mixed Use WI = Write Intensive MI = Write Intensive MU = Mixed Use WI = Write Intensive MI = Write Intensive MI = Write Intensive Min/Max Raw Storage Min/Max Raw Storage MI = Read Intensive Add-in-Card (required): 1-2 - Broadcom: 57414 dual port 10/25GbE SFP28
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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

Additional Resources:

- Dell Partner Page on Red Hat https://www.redhat.com/dell
- Dell SDS Block Storage Specification Sheet https://www.delltechnologies.com/asset/en-us/products/storage/technical-support/powerflex-specification-sheet.pdf
- Dell APEX Navigator for Multicloud Storage Specification Sheet https://www.delltechnologies.com/asset/en-us/solutions/apex/briefs-summaries/apex-navigator-for-multicloud-storage-solution-overview.pdf





Contact a Dell Expert 1-866-438-622

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