



# DELL EMC XC SERIES OF HYPER-CONVERGED INFRASTRUCTURE APPLIANCES

The Dell EMC™ XC Series of hyper-converged appliances integrates our proven x86 server platform and Nutanix software to provide enterprise-class, infrastructure solutions for virtualized environments. Backed by Dell EMC's Global Service and Support organization, these 1U and 2U appliances consolidate compute and storage into a single platform enabling application and virtualization teams to quickly and simply deploy new workloads. This solution enables data center capacity and performance to be easily expanded — one node at a time — delivering linear and predictable scale-out expansion with pay-as-you-grow flexibility.

XC Series appliances incorporate many of the advanced software technologies that power leading cloud infrastructures such as Google®, Facebook® and Amazon™ — but are engineered for all enterprises, regardless of size. Key features include:

- Hyper-converged – Seamlessly integrates server and storage resources in a self-healing system
- Hypervisor choice - your choice of factory-installed hypervisor
- Distributed – All data, meta data and operations are distributed across the entire cluster
- Scale-out – Increases performance linearly by adding capacity one node at a time
- Automation and analytics – Extensive automation and rich system-wide monitoring

## Designed to simplify IT

XC Series appliances simplify the deployment of virtual machines in any environment. The Nutanix Acropolis Operating System runs in a Controller VM (CVM) on each node, aggregating storage resources (hard disk drives and flash storage) across all nodes. This pooled storage is made available to all hosts through a fault-tolerant architecture. With an unrivaled ability to run VMs out of the box, XC Series appliances deliver an easy, modular approach to building modern data centers.

## Ideal for virtualized workloads

XC Series appliances are excellent solutions for many workloads running in virtual environments. Preconfigured appliance options with flexible ratios of compute and storage including all flash configurations, coupled with support for Microsoft® Hyper-V®, VMware® ESXi™ and Nutanix AHV, make them ideal for running different workloads on the same platform in your data center. They

can be easily integrated into any data center in less than 30 minutes and can support multiple virtualized, business-critical workloads including VDI, private cloud, database, OLTP and data warehouse as well as virtualized big data deployments. IT and storage administrators no longer have to manage LUNs, volumes or RAID groups. Instead, they can manage their virtual environments at a VM level using policies based on the needs of each workload.

## Intuitive and powerful management interface

The Nutanix Prism Central management framework provides a highly intuitive, easy-to-use graphical user interface (GUI). All information is organized and presented through elegant touch points to facilitate easy consumption of operational data. Prism provides the ability to define and manage a complete hyper-converged infrastructure from nearly any device and includes REST APIs for integration with third-party cloud management systems.

Prism Central gives administrators a bird's eye view of resources across multiple clusters running different hypervisors and enables them to manage individual clusters using the GUI or a Windows PowerShell command-line interface. Prism simplifies configuration and management of replication, DR and compression policies, which can be applied to individual VMs. Compute and storage scaling and maintenance are automated through a simple, one-click add-node feature and auto-discovery protocols. Lifecycle Manager, a unique feature in Prism, enables non-disruptive updates of the Nutanix CVM, host hypervisor, firmware and drivers.

Cluster Health provides comprehensive monitoring of VMs, nodes and disks in the cluster. It proactively flags potential issues in the hyper-converged infrastructure stack and provides the ability to visually navigate issues by grouping and filtering resources at VM, host and disk levels.

Configurations and features	XC630-10	XC730xd-12	XC730xd-24	XC730xd-12C	XC730-16G	XC430-4	XC6320-6
<b>Form factor</b>	1U, 1 node	2U, 1 node			2U, 1 node with 1 or 2 NVIDIA GPU <sup>1</sup>	1U, 1 node	2U, up to 4 nodes
<b>Workload</b>	Compute and performance-intensive VDI, test and development, private cloud, server virtualization	Storage-heavy Microsoft Exchange, SharePoint, data warehouse, big data	Performance-intensive SQL and Oracle OLTP	Storage capacity node for cluster with any supported hypervisor; does not run workload VMs or virtual desktops	VDI for graphics intensive workloads and knowledge workers with image-based applications	Balanced compute and storage for smaller scale virtualized environments	High-density compute and storage environments, service providers, private cloud
<b>Dell EMC PowerEdge server platform</b>	R630	R730xd			R730	R430	C6320
<b>Hypervisor boot</b>	64GB SATADOM						
<b>Hypervisor options</b>	Nutanix AHV, VMware® ESXi™ 5.5 U3 and 6.0 (U1 and U2) Microsoft® Windows Server® 2012 R2 with Hyper-V® Dell EMC OEM Standard or Datacenter Edition Factory Installed			AHV only	Nutanix AHV (except XC730-16G), VMware ESXi 5.5 U3 and 6.0 (U1 and U2) Microsoft Windows Server 2012 R2 with Hyper-V Dell EMC OEM Standard or Datacenter Edition Factory Installed		
<b>License options</b>	Nutanix Starter, Pro and Ultimate License						
<b>Software maintenance</b>	Nutanix 1 -5-year Software Maintenance/Assurance						
<b>Support</b>	1 -5-year coterminus ProSupport (4 hr and NBD) or ProSupport Plus comprehensive XC Series support with Nutanix assist						
<b>Intel® Xeon® processors</b>	Dual processor E5-2620 v4 E5-2630 v4 E5-2643 v4 E5-2650 v4 E5-2660 v4 E5-2667 v4 E5-2680 v4 E5-2690 v4 E5-2695 v4 E5-2697 v4 E5-2698 v4 E5-2699 v4	Dual processor E5-2620 v4 E5-2630 v4 E5-2650 v4 E5-2660 v4 E5-2680 v4 E5-2695 v4	Dual processor E5-2620 v4 E5-2630 v4 E5-2643 v4 E5-2650 v4 E5-2660 v4 E5-2667 v4 E5-2680 v4 E5-2690 v4 E5-2695 v4 E5-2697 v4 E5-2698 v4 E5-2699 v4	Single or dual processor E5-2620 v4	Dual processor E5-2643 v4 ES-2650 v4 E5-2660 v4 E5-2667 v4 E5-2680 v4 E5-2690 v4 E5-2695 v4 E5-2698 v4	Single or dual processor E5-2609 v4 E5-2620 v4 E5-2630 v4 E5-2650 v4 E5-2660 v4 E5-2680 v4 E5-2690 v4 E5-2695 v4	Dual processor <sup>2</sup> E5-2620 v4 E5-2630 v4 E5-2650 v4 E5-2660 v4 E5-2680 v4 E5-2695 v4
<b>Data storage controller</b>	Dell EMC SAS HBA330						LSI 2008
<b>Drive type</b>	10 x 2.5" drives	12 x 3.5" drives	24 x 2.5" drives	12 x 3.5" drives	16 x 2.5" drives	4 x 3.5" drives	6 x 2.5" drives <sup>2</sup>
<b>SSD capacities</b>	min 2X, max 4X 400GB, 480GB, 800GB, 960GB, 1.9 TB, 3.8TB - all flash configuration only ; all-flash version available with 10 x SSDs of the same capacity	min 2X, max 4X 400GB, 480GB, 800GB, 960GB, 1.9TB, 3.8TB - all flash configuration only ; all flash version available with 12 SSDs of the same capacity	min 2X, max 4X 400GB, 480GB, 800GB, 960GB, 1.9TB, 3.8TB - all flash configuration only ; all flash version available with 24 SSDs of the same capacity	2X 400GB, 480GB, 800GB, 960GB, 1.9TB, 3.8TB - all flash configuration only ; all flash version available with 12 SSDs of the same capacity	min 2X, max 4X 400GB, 480GB, 800GB, 960GB, 1.9TB, 3.8TB - all flash configuration only ; all flash version available with 16 SSDs of the same capacity	2X 400GB, 480GB, 800GB, 960GB, 1.9TB, 3.8TB - all flash configuration only ; all flash version available with 4 SSDs of the same capacity	2X 400GB, 480GB, 800GB, 960GB, 1.9TB, 3.8TB - all flash configuration only ; all flash version available with 6X 400GB, 800GB, 1.6TB or 3.8TB SSDs of the same capacity

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<b>HDD capacities (max 60TB total per node)</b>	1TB, 2TB; min 4, max 8	10X 2TB, 4TB, 6TB or 8TB with a maximum of 60TB total capacity per node	1TB, 2TB; minimum of 4 and max 20	10X 2TB, 4TB, 6TB or 8TB with a maximum of 60TB total capacity per node	1TB, 2TB; max 14	2X 2TB, 4TB, 6TB or 8TB	4X 1TB, 2TB
<b>Self-encrypting drives (SED)</b>	SSD: 400GB, 800GB, 1.6TB HDD: 2TB	SSD: 400GB, 800GB, 1.6TB HDD: 4TB, 8TB	SSD: 400GB, 800GB, 1.6TB HDD: 2TB	SSD: 400GB, 800GB, 1.6TB HDD: 4TB	SSD: 400GB, 800GB, 1.6TB HDD: 2TB	SSD: 400GB, 800GB, 1.6TB HDD: 4TB, 8TB	SSD: 400GB, 800GB, 1.6TB HDD: 2TB
<b>DIMMs</b>	8–24 x 16GB and 32GB RDIMMs or 32GB and 64GB LRDIMMs, DDR4, installed in pairs			4 -12 (single CPU) and 4 - 24 (dual CPU) 16GB and 32GB RDIMMs. x 16GB DIMMs, DDR4, installed in pairs	8–24 x 16GB and 32GB RDIMMs, DDR4, installed in pairs	4–8 (single processor) or 4–12 (dual processor) x 16GB and 32GB RDIMMs, DDR4, installed in pairs	8–16 per node x 16GB, 32GB RDIMMs, installed in pairs
<b>Memory configs</b>	128GB - 1.5TB			64GB - 768GB	128GB - 768GB	64GB–384GB	128GB - 512GB
<b>Integrated networking (maximum 2 per appliance)</b>	Intel X540-T2 Dual Port 10GBASE-T and I350 1GBASE-T daughter card, or Intel X520 Dual Port 10Gb DA/SFP+ and I350 1GBASE Dual Port daughter card					Quad Port 1GbE, option to add Dual Port 10Gb 10GBASE-T or 10Gb DA/SFP+ Server Adapter	Intel X520 (82599ES) Dual Port 10GbE SFP+ LOM <sup>2</sup> , 10GbE and 1GbE Dual Port NIC available
<b>Max total Ethernet ports</b>	10	18		10		8	4 per node

<sup>1</sup>1 or 2 NVIDIA Tesla M10, 2560 cores/32GB DDR5, 225W or 1 or 2 NVIDIA Tesla M60, 4096 cores/16GB DDR5, 300W

<sup>2</sup>Per node

Platforms and hypervisors or AOS	VMware ESXi 5.5 U3	VMware ESXi 6.0 (U1 and U2)	VMware ESXi 6.5.0a	Microsoft Windows Server 2012 R2 SE	Microsoft Windows Server 2012 R2 DE	Nutanix AHV	AOS 4.1.2 or later	AOS 4.1.3 or later
<a href="#">XC630-10</a>	X	X	X	X	X	X	X	
<a href="#">XC730xd-12</a>	X	X	X	X	X	X	X	
<a href="#">XC730xd-24</a>	X	X	X	X	X	X	X	
<a href="#">XC730xd-12C</a>						X	X	
<a href="#">XC430-4</a>	X	X	X	X	X	X		X
<a href="#">XC730-16G</a>	X	X	X	X	X			X
<a href="#">XC6320-6</a>	X	X	X	X	X	X		X

## Innovative Payment Solutions for Cloud-Like Consumption Offer Hyper-Converged Infrastructure with Minimal Financial Risk

Cloud Flex for HCI by Dell Financial Services (DFS) brings a cloud-like consumption model to the Dell EMC HCI portfolio by offering a flexible, financing alternative that eliminates up-front capital costs. Available through Dell EMC and channel partners, Cloud Flex enables customers to modernize their infrastructure with declining payments over time and no obligation after the first year.

## End-to-end technology solutions

Reduce IT complexity, lower costs and eliminate inefficiencies by making IT and business solutions work harder for you. You can count on Dell EMC for end-to-end solutions to maximize your performance and uptime. A proven leader in Servers, Storage and Networking, Dell EMC Solutions and Services deliver innovation at any scale. And if you're looking to preserve cash or increase operational efficiency, Dell Financial Services™ has a wide range of options to make technology acquisition easy and affordable. Contact your Dell EMC Sales Representative for more information.

Simplify Your Storage at [DellEMC.com/XCseries](http://DellEMC.com/XCseries)