Dell XC Web-scale Converged Appliance

The Dell™ XC Web-scale Converged Appliance integrates Dell's proven x86 server platform and Nutanix web-scale software to provide an enterprise-class converged appliance for virtualized environments. Backed by Dell's Global Service and Support organization, the XC appliance consolidates 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 to be easily expanded — one node at a time — delivering linear and predictable scale-out with pay-as-you-grow flexibility.

The XC Series Appliance incorporates many of the advanced software technologies that power leading web-scale and cloud infrastructures, such as Google®, Facebook®, and Amazon™ — but is engineered for all enterprises, regardless of size. Its key attributes include:

- Converged – Seamlessly integrates server and storage resources

- Software defined – Delivers all services through software using proven Dell hardware

- Server-attached flash – Merges flash-based storage with compute for fast performance

- Scale-out – Increases performance linearly by adding capacity one node at a time

- Hybrid – Delivers a unified data fabric supporting industry-standard hypervisors and clouds

Designed to simplify IT

The XC Web-scale Converged Appliance radically simplifies the deployment of virtual machines in any environment. The Nutanix Distributed File System (NDFS) runs on each appliance, aggregating direct-attached storage resources (hard disk drives and flash) 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, the XC appliance delivers an easy, modular approach to building modern data centers.

Ideal for virtualized workloads

The XC Appliance is an ideal solution for many virtualization projects. Pre-configured appliance options with flexible ratios of compute and storage capacity coupled with support for ESX and Hyper-V, make it perfect for running different workloads in a unified Dell XC cluster. It can be easily integrated into any data center in less than 30 minutes, and can support multiple virtualized, business-critical workloads including Microsoft® Exchange, SQL Server, Oracle and SAP database applications, desktop virtualization, big data, and private cloud 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 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 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. The GUI 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, auto-discovery protocols, and a non-disruptive, one-click upgrade of the Nutanix OS and host hypervisor.

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

XC720xd configurations and features	XC720xd-A5	XC720xd-B5	XC720xd-B7	XC720xd-C5	XC720xd-C7
Workload	ROBO, VDI, Test/Dev, Web, Middleware	VDI, Test/Dev, Web, Middleware		Lite DB: SQL Server, SharePoint, Exchange, Oracle	DB with larger working set
Dell PowerEdge server	R720xd with 12 x 3.5"+ 2 x 2.5"				
Hypervisor boot	PERC H310 with 2 x 160GB Read Intensive SATA SSDs in rear drive bays				
Hypervisor options	VMware® ESXi™ 5.5; Microsoft® Windows Server® 2012 R2 Standard OEM or Data Center OEM Edition				
License options	Starter, Pro, and Ultimate License for each specific configuration				
Software maintenance	Nutanix 3- or 5-year software Maintenance/Assurance				
Support	3- or 5-year ProSupport (4 hour and NBD) comprehensive XC Series support with Nutanix assist				
Dual Intel® Xeon® CPUs	E52620v2	E52650v2	E52680v2	E52690v2	E52690v2
Data Storage Controller	LSI9207 SAS Controller Attached to 12x3.5" Front Drive Bays				
Data SSDs: 3.5" Value SATA	2 x 200GB	2 x 400GB	2 x 400GB	2 x 800GB	4 x 800GB
Data HDDs: 3.5" 7.2K	4 x 1TB			10 x 2TB	8 x 2TB
DIMMs	16GB RDIMM, 1866MT/s		16GB RDIMM, 1866MT/s 32GB LRDIMM, 1866 MT/s, Low Volt		
Memory configuration	64GB, 128GB, 256GB		128GB, 256GB, 384GB, 512GB, 768GB (UI)		
Network Daughter Card options	Intel X540T2 (Dual Port 10GbaseT + I350 1GbaseT) NDC Intel X520 Dual Port 10Gb DA/SFP+ NDC				

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 for end-to-end solutions to maximize your performance and uptime. A proven leader in Servers, Storage and Networking, Dell Enterprise 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 Sales Representative for more information.

Simplify Your Storage at Dell.com/XCconverged.