

Converged IT tailored today for a future fit.

More than unifying servers, storage and networking, a converged solution should be designed with your business challenges in mind. Tailored for your workloads, Dell has one of the most complete converged portfolios—from integrated infrastructure and reference architectures to purpose-built appliances and hyper-converged solutions—ready to tackle your toughest challenges.



Choose your challenge:

Simplifying complex architectures >

2 Accelerating applications affordably >

5 Delivering IT services faster >



5 Setting a softwaredefined strategy >

The challenge: Simplifying complex architectures

The solution PowerEdge FX: Workload-defined infrastructure, converged

Precisely tailor, quickly deploy and easily manage your infrastructure with the most processing power per rack of any other platform.





XC Series VRTX

Typical workloads









Define a path to software-defined Move storage closer to compute to accelerate applications and redefine density.



Precisely tailor workload performance A modular approach lets you tailor resources to meet specific requirements.

More workloads, less space Get an entire data center in a single 2U chassis, efficiently integrating shared power, cooling and management.

Up to **50%** more available server side storage¹



more processing power per rack²



Complex architectures

App acceleration

Deliver faster

ROBO

Software-defined



The challenge:

Accelerating applications affordably

The solution PowerEdge m1000e: Converged Blade Data Center

Cutting-edge app performance and efficiency

"We continue to rapidly scale our platform ... I see the Dell Converged Blade Data Center as a great way to support that expansion."

Phil Dalbeck

Infrastructure Architect, Skyscanner

Typical workloads





Streamline managemen

Manage multiple enclosures and blades from a single console.

Reduce power and cooling

Energy Smart thermal design efficiently cools the chassis and enables better performance in a lower power envelope.

Accelerate applications

Fully modular 10U blade enclosure features up to 8 full-height, 16 half-height or 32 quarter height PowerEdge blade servers, storage, networking and management.

Learn about more application acceleration solutions:FXXC SeriesEVO:RAILVRTX

220% increase in servers per U vs. previous generation

Complex architectures

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The challenge: Delivering IT services faster

The solution Dell Engineered Solutions for EVO:RAIL From virtual to value in minutes

Deploy virtual machines and desktops in minutes.

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"The Dell Engineered Solutions for VMware EVO:RAIL offer ease-of-use, simplicity of deployment, and payas-you-go scalability that is ideal for our virtual desktop infrastructure (VDI) initiatives."

John Krul

Information Technology Officer, Oakland Unified School District

Typical workloads



- Deliver IT services faster

Plug and play solution includes a Dell 2U/4 node server platform and VMware virtualization software.



Optimize virtualized workloads

Pre-validated configuration integrates into existing environments without disruption, while maximizing performance and flexibility.

Scale rapidly

Add additional appliances in minutes, investing only when you need.

Deploy VMs in just

from power on with Dell Engineered Solutions for VMware EVO:RAIL.

Support up to **250**

Horizon View desktops per appliance.¹



Links to other rapid time to value solutions:

XC Series VRTX

Complex architectures A

App acceleration

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Software-defined



The challenge: Bringing big office IT to the small office

The solution

PowerEdge VRTX: Data center performance at your desk side

Simplicity, efficiency and versatility for ROBO and small office IT with PowerEdge VRTX

"We can effectively control hardware growth and cut TCO by 20 percent with the Dell PowerEdge VRTX."

Fang Rui

Professor, Chengdu University of Information Technology

Links to other application anywhere solutions:



Typical workloads







CRM

Right-size for your office

Up to four blade server nodes, 48TB of internal storage and a built-in network connection

Manage acros

the enterprise Consistent management features between VRTX and your data center



Redefine office IT

Office power profile and deskside acoustics help VRTX fit in anywhere.

Realize faster time to value

An integrated, pre-tested and certified solution while reducing CapEx and OpEx

InfoWorld 2014 Technology of the Year Award winner PC Pro 2013

Server of the Year

CRN 2013 Product of the Year award winner

Complex architectures

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ROBO

Software-defined



The challenge: Setting a software-defined strategy

The solution Dell XC Series: Designed for the softwaredefined data center

Hyper-converged, highly scalable compute and storage solutions for software-defined workloads

(DELL) II XC Series of Web-scale

per-converged Appliances

XC Series appliances incorporate many of the advanced software technologies that power leading web-scale and choud infrastructures such as Googlet, Facebookt, and Amazon TM – but are engineered for all enterprises, regardless of size. Its key athlicutes include:	be easily integrated into any data conter in less than 30 minutes, and can support multiple initialized basiness - critical services minutegroup VC production could estaback CVCP and data service-uses and as initialized big data have to manage their what environments at a VM sent using policies based on the media of each workback Initialize and powerful management interfaces
 Hyper-converged – Seamlessly integrates server and storage resources in a self-healing system 	
 Software-defined – Delivers all services through software using proven Deli hardware 	
 Distributed – All data, meta data and operations are distributed across the entire cluster 	The Nutario Prism management framework provides a highly infullive, easy to use graphical user interface (SUR. All information is organized and presented through eagant touch points to facilitate easy consumption of generational date. Thirm provides the ability to define and manage a correlate hyper-converged infrastructure from meanly any device and includes REST ARIs for integration.
 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	with third-party cloud management systems.
XC Series appliances simplify the deployment of witual machines in any environment. The Nutanix Distributed File System (NDFS) runs in a Controller VM (CVM) on each	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.

"The Dell XC Series will enable us to support 5,000 full-time students plus staff with an easily scalable infrastructure for virtual desktops."

Director of IT infrastructure and operations, Northern Alberta Institute of Technology

Typical workloads



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Dell



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Big data

PowerEdge compute, enterprise-class storage, integrated networking and Nutanix web-scale software in a 1 or 2U appliance



Modular expansion lets you scale capacity and performance as needed-without overprovisioning.

Preconfigured solution reduces rollout time while a single interface for storage and server management streamlines operations.

Start your software-defined data center in less than

30 mins.

Links to other softwaredefined solutions:

View XC spec sheet >

PowerEdge FX EVO:RAIL

Complex architectures App acceleration

Deliver faster

ROBO



More than unified, IT converged.



Dell offers one of the few converged solutions that deliver a single, virtualized layer of compute and storage. This compute-optimized approach fast tracks your softwaredefined data center.

Get IT together at Dell.com/convergedsolutions

With Dell Converged Solutions, you can:

Lower costs as you run more workloads in less space with the modular, flexible PowerEdge FX Architecture.

Roll out IT services faster with application-specific reference architectures and purpose-built appliances.

Streamline operations as you manage traditional and new IT as one with a highly intuitive user interface and template-driven orchestration.

Complex architectures

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Sources

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¹Based on October 2014 Dell internal analysis of Dell's FX2 and Dell's C6220-II comparing the maximum capacity of 1.8" and 2.5" form factor server side storage supported by each platform.

²Based on October 2014 Dell analysis comparing the aggregate SPECint processing capability of Dell's FX2 with Dell's M1000e with Intel E5-2600v3 processors supported in a standard EIA server rack.

³Based on October 2014 Dell internal analysis of Dell's FX2 and Dell's PowerEdge Rack servers comparing the number of networking cables required per server.

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¹Horizon View virtual desktop profile: 2vCPU, 2GB vMEM, 32GB VDisk lined clones. Actual capacity will vary with desktop size and workload.

²General purpose server VM profile: 2vCPU, 4GB vMEM, 60GB vDisk, with redundancy. Actual capacity will vary with

VM size and workload.

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¹"Based on internal Nutanix testing, September 2014.