Cloud client computing infrastructure: The first virtual desktop infrastructure aligned to your software strategy





Solving real-world challenges



Increasing student access while limiting costs Optimizing flight information while reducing costs Remaining operational after a disaster

Complying with federal regulations

Real results with Dell Cloud Client Computing



75% IT resources redirected to more strategic tasks including expanding desktop coverage

\$100M savings by system standardization

NORMAN Y. MINETA

INTERNATIONAL

Reduction of energy and maintenance cost

200 hours if IT staff saved 100% readiness in case of disaster **\$1M** IT savings in a secure environment

Increased anytime access to patient data and enhanced records security







What can desktop virtualization do for **you**? Centralizing desktops in the data center

Empower the workforce

Enable BYOD, improve user experience and manage any device

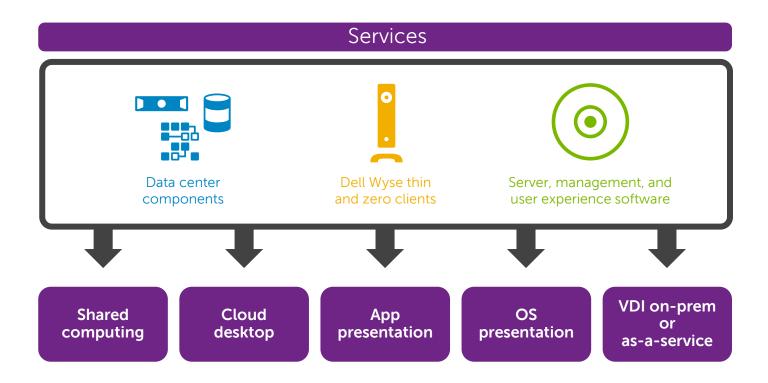
Optimize IT resources Reduce IT resources, scale and speed deployments

Improve security Control data, apply policies, comply with regulations and monitor risk

Manage costs Monitor and optimize total cost of ownership



What is Dell cloud client computing? A true solution: Data center, cloud clients, software and services



Dell Solutions Tour 2014

Dell

Focused Innovation

Enhancing value with creative innovation

- First Virtual Desktop **Appliance**
- Pre-configured End-to-End solution for enterprise (server, storage, networking, services, end points)
- First **DaaS** enterprise grade solution

- Introduced support for Unified Communications with Microsoft Lync
- Advisor tool to streamline VDI planning

- **Converged VRTX** for DVS remote office, branch offices
- Graphic intensive application with virtual and shared GPUs
- Optimized **NVIDIA driver** for virtual graphics
- Custom scripting for Citrix deployments

2011

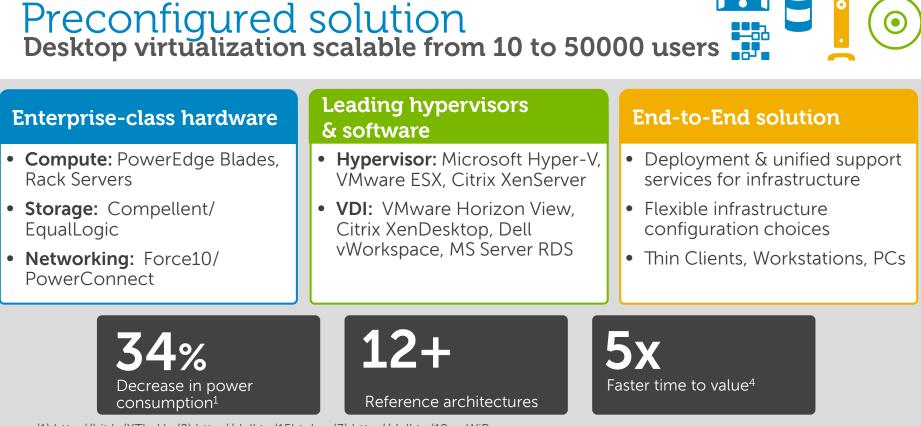


Inventor of thin clients

Aligning to your software strategy

Delivering innovation and experience no matter your software choice

	Choice of software	Solution innovation	Customer experience
	vm ware [,]	Agile Open & heterogeneous architecture, built for now & in the future with optimized components	#1 In customer satisfaction for IT Service & Support (TBR)
	CITRIX	Efficient	100K+
	Microsoft	Reference architectures & automated deployment templates maximize efficiency	Hours of engineering effort ensure optimal quality of solutions
De	Deell	High Quality Pre-packaged end-to-end solutions & services paired with unified support ensures high quality IT services	400+ Dedicated CCC sales specialist professionals active globally building and sharing expertise

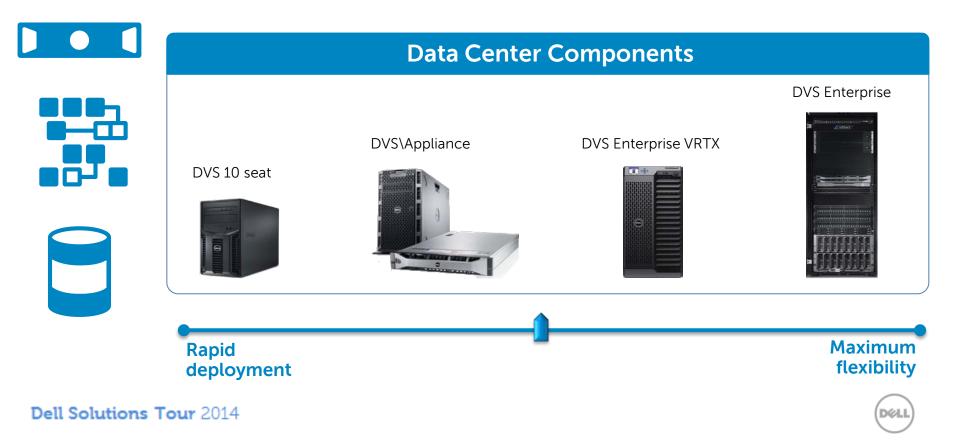


Source: (1) http://bit.ly/XTbeVc (2) http://dell.to/15hteha (3) http://dell.to/12wgWjR

>100K engineering hours invested in 3 stacks



Desktop virtualization portfolio Solutions that scale with your needs



Optimized components Should you choose to build your own Enhance Minimize CapEx **Minimize OpEx** performance Dell 19% 73% 63% Servers Lower cost per Better Less power desktop¹ performance¹ consumption¹ 20% Dell 42% **3X** Storage Lower cost² Power consumption Lower latency during boot storm² savings 100% 61% Dell Networking Tool to manage Average savings Line rate throughput servers, networking with low latency and storage



Dell Reference Architectures

Dell DVS Enterpris Reference Archite	e for Windows Server 2012 RDS — cture	
Microsoft		
Prisr2013 Predit () Templor 1.4		DOEL
	Dell DVS Enterprise:	
THE DOCUMENT IS FOR INFORM TECHNICAL INFOLMACIES THE	Reference Architecture for	
Corporate B. 2013. Data Inc. As man- sortical partners of their tax. Is all Oak. Her Data Ince. Water. Present In	Dell vWorkspace 8.0	
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	DVS Enterprise 6020 Solution Architecture Powertage Blade Server w Citrix Citrix XanDeaklop Reference	th EqualLogic Tier I Storage
		DVS Enterprise 6020 VTTVVATC Vrivare View 5.0 Reference Architecture Wy 6.90
	I	

- Comprehensive document of build criteria
- Various compute form factors
- Storage considerations
- Horizon Platform design
- Graphics support
- Lync 2013
- Workload sizing
- End Point recommendations
- Best Practices

Understand what is possible with a Dell Wyse zero or thin client?

Desktops & Applications	1080p video including Flash	Up to 6 monitors
High quality bi-directional audio	2D & 3D graphics	Fast wired or wireless networking
Secure authentication	Just about any peripheral	Desktop and mobile devices

Dell Wyse cloud clients

Most secure Virus-immune Dell Wyse ThinOS	 Zero attack surface Ultra-secure Windows Embedded Standard and Linux thin clients 	Reduce ris	sk 🥡
Easiest to manage Automatic and cloud-based endpoint management	 Self-managed clients Cloud Client Manager cloud- based fixed/mobile device management 	Empower embrace BYOD	IТ,
Price/performance Broadest portfolio of endpoints and software	 Endpoints designed for Citrix, Microsoft and VMware Dell award winning Monitor and print solutions 	Price per performar for any budget	nce

*220+ patents; global thin client leader, units and revenue, per IDC for calendar 2012

Dell World 2013

Dell Wyse cloud client portfolio

Broad selection to meet any worker type/application mix/performance/budget



Dell Services for Cloud Client Computing



Consulting

Implementation

Management

Support

Global Command Centers

96% Customer satisfaction for end-user deployment Dell Solutions Tour 2014

60 +

countries offering Same Business Day response

115 +million systems supported

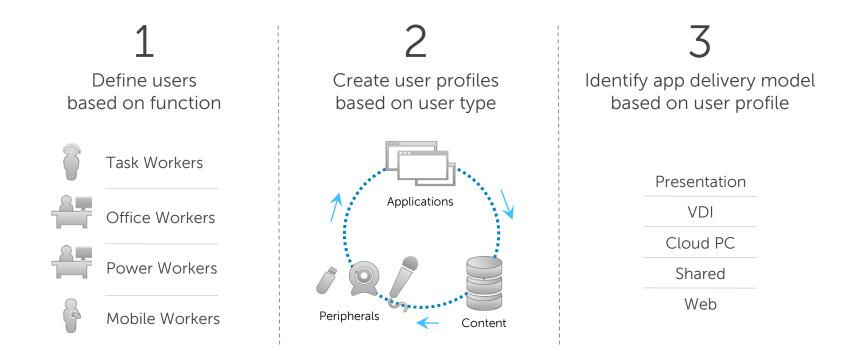
80 countries and 18 languages supported

Flexible implementation models Suits your unique needs and goals to improve TCO and ROI

Do it yourself (DIY)	Build and transfer	Build and operate	As a service
Reference architectures and components	Dell Active Infrastructure, Dell Desktop Virtualization Solutions (DVS) Appliance/Enterprise Only Dell offers a variety of options to help you accomplish your goals		Cloud platforms, Dell Desktop as a Service (DaaS)
Dell helps you do it			Dell does it for you



Lessons learned: Defining the right compute model for the right use case



Lessons learned: Defining the requirements

Understand policies & Is there a preferred Requirements for business requirements software partner? Proof of Concept HIPAA **vm**ware Trial/testing PCI **CÍTRIX**° Online demos **Dell Solutions Center** Data storage Microsoft Déli



Why Dell? A reliable approach to Desktop Virtualization

Pre-tested, preconfigured solution stack	Dell Desktop Virtualization Solutions provide a complete Integrated Solution Stack for rapid deployment and optimized operations
Flexible delivery models	Either do it yourself, or have Dell deliver a fully managed solution – pick the ownership model that best meets your needs
Open architecture	Dell Desktop Virtualization Solutions leverage mainstream desktop virtualization software and open standards based architecture
Vertical-specific platforms	Dell is delivering platforms that are customized to best meet the unique needs of certain use cases
- Schutiene Teur 2014	



Cloud Client Computing awards 2013 Recognized for Innovation and customer service



2013 Virtualization **Review Reader's Choice** Award:

- Wvse T10 - WINNER!

Computerworld Honors Laureate WINNERS!:

- Silicon Valley Education Foundation
- Ministry of Foreign and Internal Trade and Telecommunications of Serbia

Portrait Health Publishina



11TH ANNUAL AMERICAN **BUSINESS AWARDS** THE STEVIES™

THE COMPUTERWORLD

HONORS LAUREATE

2013



Best Mobile Apps 2013:

- PocketCloud - WINNER!

The Annual American **Business Awards-The Stevies:**

- PocketCloud

Virtualization Review's VMworld 2013 Best of Breed:

- Best Desktop/VDI: Dell Desktop Virtualization Solutions



CITRIX Best of Synergy WINNER

Best Of TechEd:

- DVS Enterprise for vWorkspace



Best Of Synergy:

- Dell DVS Enterprise Integrated Storage for Citrix XenDesktop 7



Dell Product of the Year Award:

- Cloud Client Manager -WINNER



- Office/SharePoint App Developer

- YouthSpark Citizenship
- Windows 8 App Developer



Challenge

- Reduce real estate & desktop mgmt. costs
- Develop off-shore capability
- Rapid response to business opportunities
- Increase endpoint security

Results

- 600 desktops today, adding 250 now
- 35% reduction in real estate costs
- 200% faster call desktop rollout
- Reduced deployment and testing effort

Dell approach

- Dell Poweredge servers
- Dell Compellent storage
- Dell Wyse zero clients





Next steps

Today - meet with Dell cloud client subject matter experts in the expo

Learn more by attending future events and workshops. Search www.dell.com/events for upcoming events in your area.

Schedule a post-event Whiteboard Session to address your specific requirements. Contact your account team for details.

Discover how Dell Solution Centers can help your business. Discover more: www.dell.com/solutioncenters.com

Visit: www.Dell.com/cloudclient

