## **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

**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

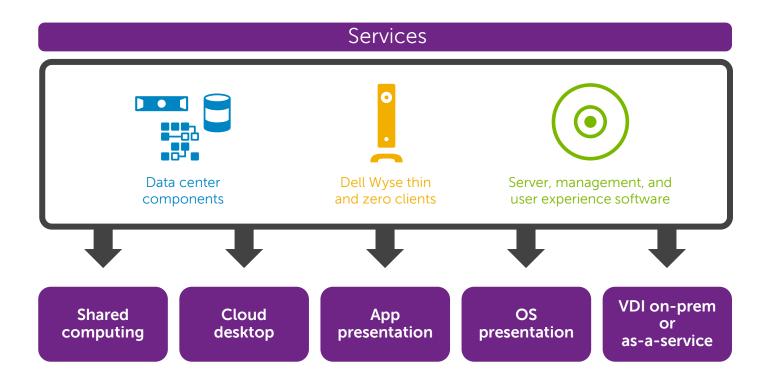
**Improve security** Control data, apply policies, comply with regulations and monitor risk

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

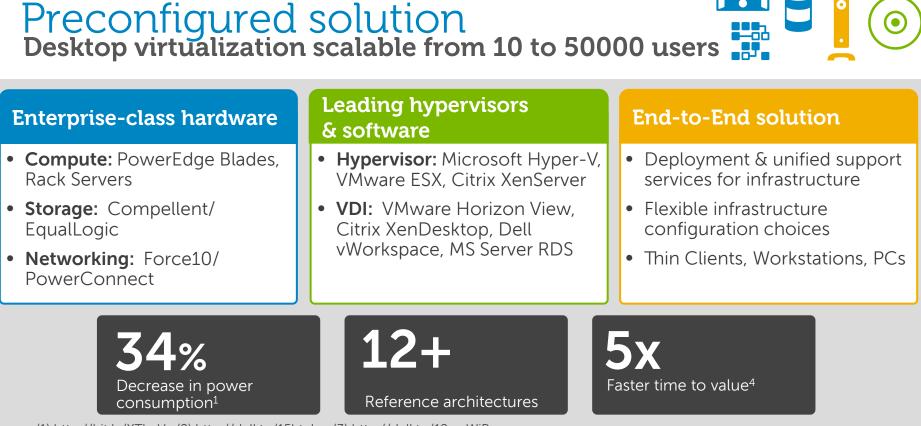


Inventor of thin clients

# Aligning to your software strategy

Delivering innovation and experience no matter your software choice

	Choice of software	Solution innovation	Customer experience
	vmware	<b>Agile</b> Open & heterogeneous architecture, built for now & in the future with optimized components	<b>#1</b> 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	<b>High Quality</b> Pre-packaged end-to-end solutions & services paired with unified support ensures high quality IT services	<b>400+</b> Dedicated CCC sales specialist professionals active globally building and sharing expertise

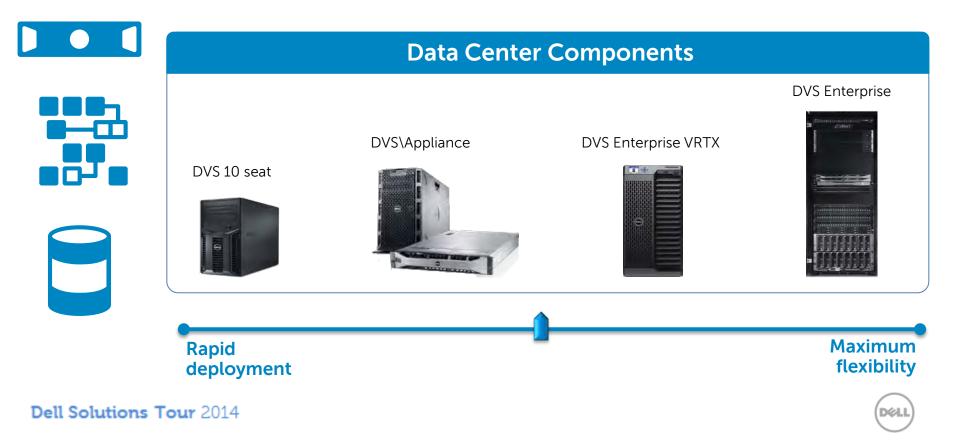


Source: (1) http://bit.ly/XTbeVc (2) http://dell.to/15hteha (3) http://dell.to/12wgWjR

## >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 desktop<sup>1</sup> performance<sup>1</sup> consumption<sup>1</sup> 20% Dell 42% **3X** Storage Lower cost<sup>2</sup> Power consumption Lower latency during boot storm<sup>2</sup> savings 100% 61% Dell **Networking** Tool to manage Average savings Line rate throughput servers, networking with low latency and storage



# Dell Wyse cloud clients

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

\*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

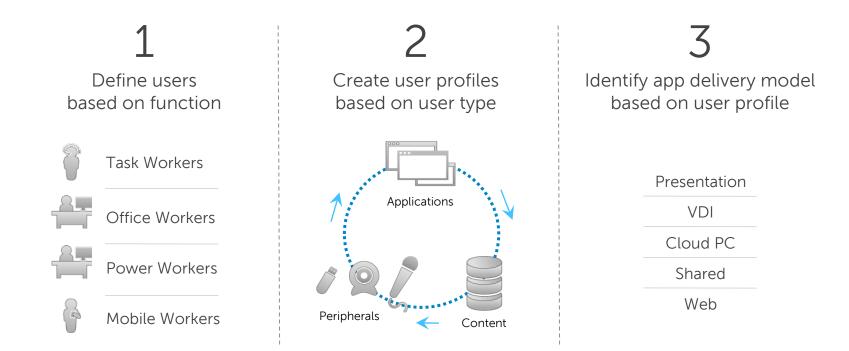
80 countries and 18 languages supported

## 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 Desktop Virtualiz	Dell Active Infrastructure, Dell Desktop Virtualization Solutions (DVS) Appliance/Enterprise	
Dell helps you do it	Only Dell offe options to accomplish	help you	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



# Cloud Client Computing awards 2013 Recognized for Innovation and customer service



THE COMPUTERWORLD

HONORS LAUREATE

2013



- Wyse T10 - WINNER!

#### Computerworld Honors Laureate WINNERS!:

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

Portrait Health 💮 Publishing



#### **vm**world **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





#### Best Of TechEd:

- DVS Enterprise for vWorkspace

#### Best Of Synergy: - Dell DVS Enterprise

- Dell DVS Enterprise Integrated Storage for Citrix XenDesktop 7



**Microsof** 

#### 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

