

A woman with short brown hair, wearing a light blue top, is looking down at a computer monitor in a server room. The background shows server racks and blue cables. An orange text box is overlaid on the left side of the image.

## Dell cloud client-computing solutions for Microsoft VDI and Dell vWorkspace

Ideal for customers wanting to implement flexible, cost-effective, enterprise-grade virtual desktops.



Learn more here:

# The superior user experience

Meticulously pretested and validated in the real world, Dell Wyse Datacenter for Microsoft VDI and Dell vWorkspace is an end-to-end desktop virtualization solution running on Microsoft® Windows Server Hyper-V, Remote Desktop Services (RDS), RemoteFX and the optional Dell vWorkspace virtualization software. With Dell it's just one phone number you need to call for all your hardware and software support needs.

In addition to addressing usual challenges such as security, data control, optimization of IT resources, BYOD enablement, this solution is particularly ideal if you want to:

## **Implement flexible delivery mechanisms**

With a choice of application virtualization, remote desktop sessions or VDI all from a single management console

## **Deploy highly cost-effective virtual desktops**

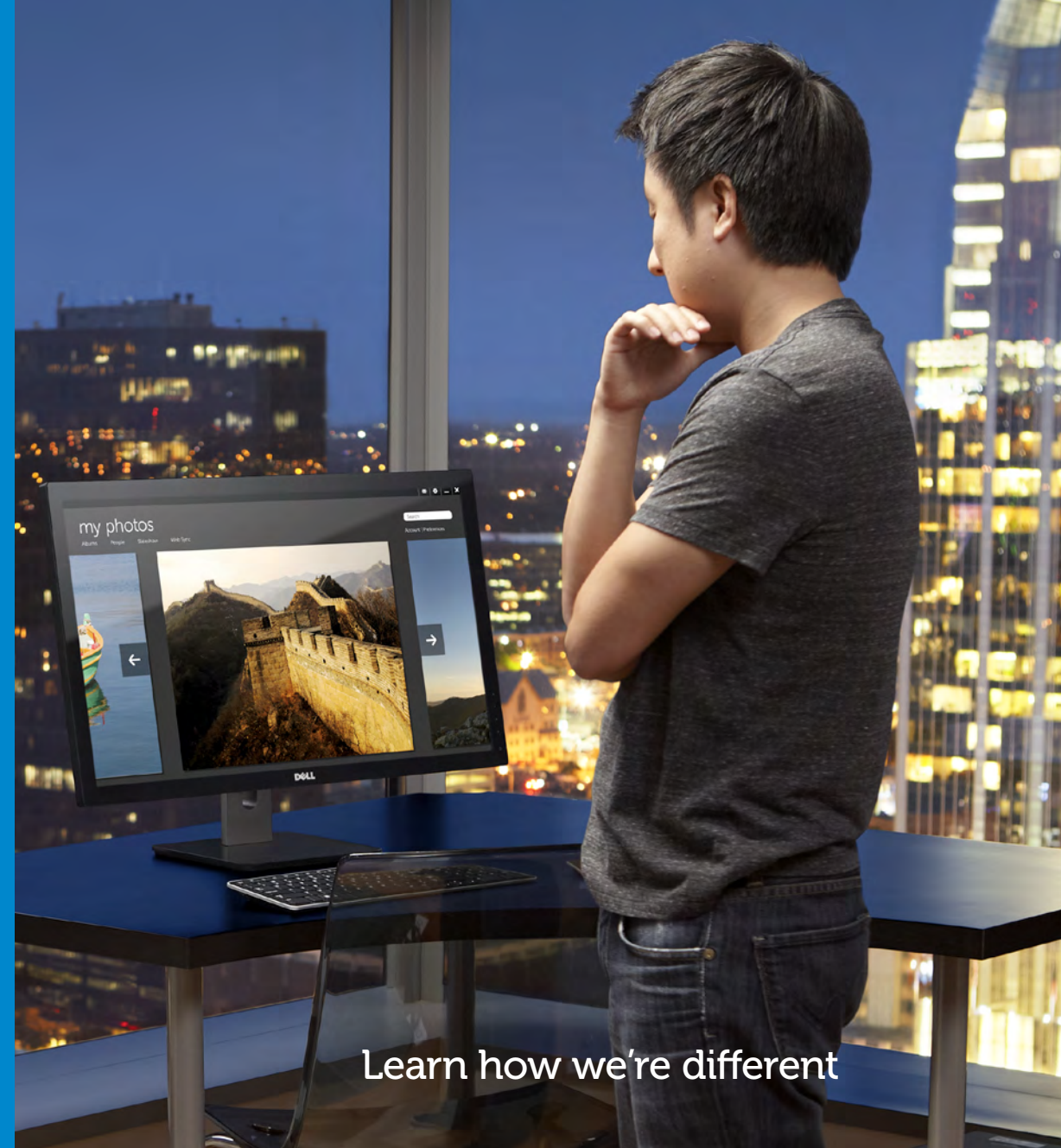
Starting under \$250 per seat for pooled VMs; persistent VMs are also affordable with up to 93% reduction in storage requirements using built-in deduplication

## **Fix problems before they occur and minimize downtime**

With unique vWorkspace Diagnostics and Monitoring feature

## **Reduce the time it takes to deploy virtual machines**

Provision 150 Windows 8.1 VMs in 26 minutes with vWorkspace



Learn how we're different

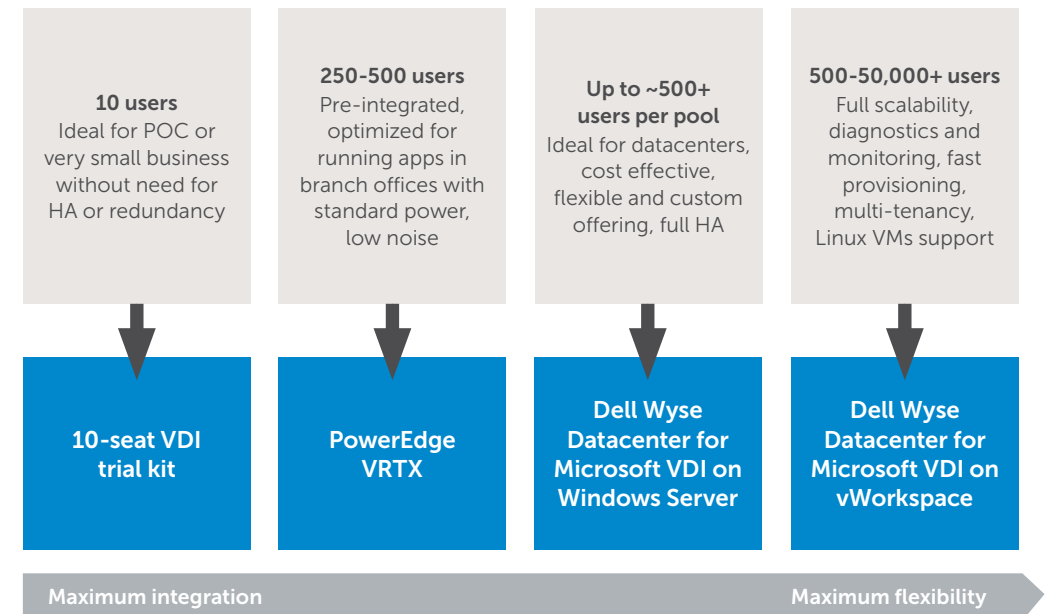
# Dell and Microsoft Solutions for Desktop Virtualization

## Combining the best of Dell and Microsoft

- Cost-effective desktop and application virtualization based on Microsoft Windows Server OS and Hyper-V hypervisor
- Ideal for customers familiar with Microsoft tools or who have a strong relationship with Microsoft (such as an Enterprise Agreement or Software Assurance)
- Enables you to deploy from 10 to tens of thousands virtual desktops
- Flexibility:
  - Choice of RDSH (Terminal Services), pooled or personal/persistent VMs (VDI, RDVH), and application virtualization
  - Use your existing storage or networking hardware
  - Choose the deployment option that suits you: 10-seat Proof of Concept (POC), converged infrastructures or a custom architecture
  - Supports affordable persistent VMs using built-in online deduplication
- Superior end user experience:
  - RemoteFX & RDP
  - Shared GPU for high end graphics applications
  - Optimized datacenter hardware and end points
  - Support for unified communication with Lync 2013
  - USB redirection and advanced printing capabilities
  - Ideal for true BYOD support, also for multi-touch devices
- Simplified management: wizard driven, single console, unified administration
- End-to-end offering from Dell
- Just one phone number to call for hardware and software support

## How to select the right platform for your needs

How best to use the power of VDI, Remote Desktop Session Host (RDSH), and application virtualization in your workplace? Take a look below...



[Continue to Solutions](#)

# 10-seat VDI trial kit

## Get started with VDI

The Dell 10-seat VDI trial kit enables you to experience desktop virtualization with an affordable Proof of Concept (POC) for 10 users, built on Dell Hardware and Microsoft virtualization software. It's an end-to-end and easy way to get started with VDI, leveraging Microsoft licensing you might already own.

The trial kit includes **one Dell PowerEdge T110 server** with Dell ProSupport, **Microsoft Windows Server 2012 R2** and optional licenses. You can also attach a choice of **Dell Wyse thin clients** or other touch-enabled end points optimized for RemoteFX.

You can deploy this yourself using our setup guide, engage Dell Services or ask your local partner to do it for you.

Dell Wyse  
T10D, D10D,  
D90D8,  
Z90D8



## Benefits

- Fully tested and pre-configured server for 10 pooled Windows virtual desktops
- Inexpensive way to get started with VDI
- Reduces the time required for your IT department to evaluate the effectiveness of VDI
- Easy to install, deploy and manage
- Rich end-user experience with RemoteFX and RDP
- Leverage your own Microsoft contracts to save on licenses costs

## Components

- One Dell PowerEdge T110 tower server configured for 10 pooled Windows virtual desktops
- 32GB RAM
- 4x 500GB SATA HDD
- RAID10 with PERC H200 controller
- Windows Server 2012 R2 standard Edition pre-loaded in Dell factory (optional)
- 10 RDS CALs (optional)
- 3 years Dell ProSupport

## Ideal for:

- Organizations who wish to evaluate Hyper-V VDI
- Companies with plans for larger scale implementation of a Microsoft-based, VDI solution, interested in experiencing it first
- Partners or very small businesses (<30 employees) wanting to immediately implement the technology: doctor's offices, retail shops, accountancies, law firms, etc.



[Learn more here.](#)

[Continue](#)

# Dell Wyse Datacenter on PowerEdge™ VRTX

## Desktop virtualization using PowerEdge™ VRTX

The PowerEdge VRTX is a datacenter in a box that supports multiple workloads and that is well suited to both server and desktop virtualization. It enables 250 to 500 basic RDSH or RDVH users for VDI on Windows Servers 2012 Hyper-V.

The PowerEdge VRTX is ideal for use in remote or branch offices or for a small business without a datacenter.



[Learn more here.](#)

## Benefits

- Easy to order, setup and configure
- Fast to implement
- Eliminates hardware sprawl
- No need for SAN
- Low noise
- Office-level dimensions and standard power (110V-240V)
- No need for special cooling
- Fits under a desk or is rackable
- Simplified and unified management

Scalable:  
up to 48TB

Flexible:  
2.5" or 3.5"  
drives

Fast:  
low latency &  
full access

## Components

- Tower or 5U rackable form factor
- 2 or 4 PowerEdge M620 blade servers (256GB RAM, 2x 15k HD) to support 250 or 500 pooled Windows VMs
- Shared 2.5 inch storage:
  - For VDI: 10x or 20x 300GB 15K SAS
  - For management: 5x 1TB 10K SAS
- 1GbE internal switch module with 16 internal GbE ports and 8 external ports
- 8 PCIe I/O slots
- Shared PERC8 RAID controller
- Limited High Availability
- Redundant hot plug power supplies
- Microsoft Windows Server 2012 Hyper-V
- OpenManage, Chassis Management Controller (CMC)
- 3 years Dell ProSupport

[Learn more here.](#)

[Continue](#)

# Dell Wyse Datacenter for Microsoft VDI on Windows Server 2012 R2

This onsite, end-to-end desktop virtualization solution is ideal to deploy VDI in pools of about 500+ users, or higher using PowerShell scripting. It runs on Windows Server 2012 R2 and is enabled for application virtualization and for a choice of virtual machines (pooled or personal). It also supports Remote Desktop Session Hosts (formerly Windows Terminal Services) that are all managed, deployed and configured from the same console.

Built-in data deduplication and storage spaces allow you to support persistent virtual desktops at almost the same price as pooled VMs.

You can also add server graphics cards so that 3D multimedia users can take advantage of using virtual desktops. This is made possible using shared GPU technology and RemoteFX.

## Benefits

- Easy deployment using wizards
- Pre-tested for a mix of RDSH sessions, pooled or personal Windows VMs
- Support for diverse user workloads
- Support for software or hardware GPUs
- Unified communications with Lync 2013
- Scalability and full High Availability (HA)
- The best value approach to meet the needs of both IT and your end user
- Use your existing storage or networking hardware (even non-Dell)
- Support for Windows, iOS, Mac OS and Android end points
- A complete end-to-end solution

## Components

- Networking switch: Dell S55 (optional)
- Servers: Dell PowerEdge R720
- Storage: Dell EqualLogic PS4100E / PS6100E PS6100XS (optional)
- 3 years Dell ProSupport

	Desktop Sessions	Pooled VMs	Personal VMs
	● Good ●● Better ●●● Best		
Personalization	●●	●●	●●●
Application compatibility	●●	●●●	●●●
Image management	●●●	●●	●
Cost effectiveness	●●●	●●	●



**"Deduplication reduces storage space requirements up to 93% on persistent virtual desktops!"**

[Learn more here.](#)

[Continue](#)

# Dell Wyse Datacenter for Microsoft VDI on Dell vWorkspace

Customers can deploy the solution on Windows Server 2012 R2 only. However, adding the optional Dell vWorkspace virtualization software brings dramatic benefits. This extension is based on the same hardware and scalable to tens of thousands of seats. It also comes with advanced diagnostics, monitoring and fast provisioning capabilities.

## Benefits

### Cost effective:

- In-memory VM caching brings significant storage savings
- Support for legacy applications
- Multi-tenancy support across different domains

### Rich End User Experience:

- Integrated Diagnostics and Monitoring.
- Support for Linux VMs and a wide variety of OS endpoints for BYOD initiatives
- Experienced Optimized Protocol enhances RDP, supports multimedia, print and USB on WAN
- Optimized for high latency and low bandwidth networks
- End-to-end universal printing and profile management
- Multimedia redirection, even to non-Windows end points

### Efficient Management

- Very fast VM provisioning and deployment: allows to easily scale to thousands of sessions or VMs
- Automated, instantaneous VM replication
- Advanced targeting for high security and maximum flexibility

## Components

- Networking switch: Dell S55 (optional)
- Servers: Dell PowerEdge R720
- Storage: Dell EqualLogic PS4100E / PS6100E / PS6100XS (optional)
- 3 years Dell ProSupport

**Provision 150 Windows 8.1 VMs in 26 minutes!**

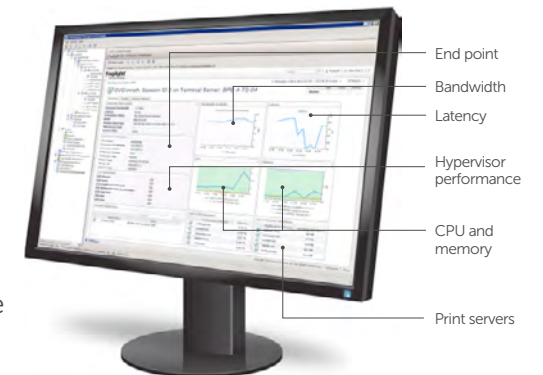
[Learn more here.](#)



## Unique Diagnostics and Monitoring

Monitors end user experience and provides IT with real-time and historical data, which is monitored and automatically correlated to events, such as a user, an application, a server or a service.

- Alerts IT to current issues and resolves them quickly
- Fix problems before they occur
- Improves end user experience
- Meet SLA and operate within tight maintenance windows









"The in-depth monitoring and diagnostic capabilities have helped me reduce my mean time-to-resolution by at least 75%, and ensure more than 99% uptime for my virtual desktops."

*Dan Bolton, Kingston University*

**End points**

# Dell Wyse cloud client solutions optimized for Microsoft

User profile	Workload	Recommended End Points <sup>1</sup>	Main specifications
<b>Basic</b> Task user/data entry	<ul style="list-style-type: none"> <li>Mid-performance device built on ARM dual core CPU</li> <li>Built-in media processor for smooth multimedia</li> </ul>	 <b>T10D</b> Most cost-effective	<ul style="list-style-type: none"> <li>CPU: dual core ARM 1.2GHz SoC</li> <li>Dell Wyse ThinOS (most secure)</li> <li>Dual monitoring and dual band Wifi</li> </ul>
<b>Standard</b> Knowledge/office user	<ul style="list-style-type: none"> <li>Up to 5 apps open simultaneously</li> <li>Medium, office-type productivity and multimedia</li> </ul>	 <b>D10D</b> Most secure and virus-immune with Dell Wyse ThinOS 8   <b>D90Dx, D90Qx</b> Can access apps locally; local browser	<ul style="list-style-type: none"> <li>ThinOS 8 (D10D), WES7 or WE8S (D90D7, D90D8, D90Q7, D90Q8)</li> <li>&lt; 9 Watts</li> <li>CPU: dual core (D) or quad core (Q) SOC AMD with integrated graphics</li> <li>Accelerated graphics and HD multimedia</li> </ul>
<b>Premium</b> Power user	<ul style="list-style-type: none"> <li>Up to 7 apps open simultaneously</li> <li>Ideal for creating content, accessing unified communications, 3D design and HD multimedia over multiple displays</li> <li>Client OS is ThinOS (D10D), or Windows Embedded Standard (WES7 or WE8S)</li> </ul>	 <b>D10D</b> Most secure and virus-immune with Dell Wyse ThinOS 8   <b>Z90Dx, Z90Qx</b> <15 Watts   <b>X90m7</b> 'Z-class to go' Only 3.8lb/1.7kg	<ul style="list-style-type: none"> <li>ThinOS 8 (D10D), WES7 or WE8S (Z90D7, Z90D8, Z90Q7, Z90Q8)</li> <li>CPU: dual core (D) or quad core (Q) SOC AMD with integrated graphics</li> <li>AMD Radeon HD6250/6320</li> <li>Up to 8 displays with Z90DE7</li> </ul> <ul style="list-style-type: none"> <li>WES 7</li> <li>AMD Radeon HD6310</li> </ul>

[Learn more here.](#)



<sup>1</sup> Also suitable for touch-enabled Windows-based end points such as Dell Latitude 10 tablet (runs Windows 8.1), Dell XPS 10 tablet (runs Windows RT) and Dell OptiPlex 9020 AIO desktop PC (runs Windows 8.1).

[Services](#)



# Dell Services Consult / Implementation / Support / Manage

## Consulting

- VDI Architecture
- Blueprint Assessment
- JumpStart Training
- Network Optimization
- Remote Consulting

[Learn more here.](#)

## Implementation

- Image Creation
- Application Packaging
- Procurement
- Deployment Services
- Configuration
- Integration (360)
- Pilot & Testing

[Learn more here.](#)

## Support

- Pro Support
- L1 EU support
- L2 VDI Support

[Learn more here.](#)

## Management

- Managed Services
- Availability Monitoring
- Network Management
- Data Management
- Managed Firewall

[Learn more here.](#)

## Dell services

Accelerating innovation with services focused on your future.



[Learn more here](#)

[Learn about typical use cases](#)

5

Global Command Centers

96%

customer satisfaction for end-user deployment

60+

countries offering Same Business Day response

115+

million systems supported

80

countries and 18 languages supported

# Case studies



"Dell vWorkspace's connection broker... allows us to simplify and automate the management of our virtual desktop infrastructure; one of the greatest benefits of the solution was the ability to implement a full VDI project with more than a thousand virtual desktops in less than three weeks."

**Rosa Llopis Penadés,**  
Deputy Director of Information Systems

## Hospital La Fe, Valencia, Spain

The University Hospital La Fe is one of the largest hospitals in Spain, one of the top fifty hospitals in Europe, and the Valencia region's flagship project.

It's a new hospital that was built to support technology and 120,000,000 Euros have been invested to ensure the facility is a leader in medical technology.

### Challenge

The starting point of the project was the hospital's relocation, which created the need to find a solution for mobile users. The administrators felt desktop virtualization would be the right approach, because they required simplified implementation, reduced maintenance and controllable policies.

### Solution

vWorkspace on Dell datacenter hardware.

### Benefits

- Very quick implementation
- Simplified VDI Infrastructure management
- Reduced support incident resolution times from hours to minutes
- Reduced time spent by IT staff managing client systems
- Improved security and increased user mobility
- Energy savings
- This brand new hospital immediately began operations with virtual desktops managed by vWorkspace on Dell servers

[Play video](#)

[Your next steps](#)

# Next steps in your journey

Speak to Dell or contact a Dell PartnerDirect associate. Both are able to help you with consultancy, planning and advice.

## 1. Learn

### Join a feasibility workshop

They're designed to help you explore and establish your specific needs.

[Learn more here.](#)



## 2. Discover

### Get hands on

Nothing beats seeing everything in action for yourself. Take advantage of a one-to-one demonstration at a Dell Solution Center.

[Dell Solution Center.](#)

## 3. Engage

### Plan for success

Meet with Dell or your Dell PartnerDirect partner who'll help you plan, execute and activate your strategy.

[Get in touch.](#)

[Find a partner.](#)





For detailed information on  
Dell Desktop Virtualization Solutions,  
please visit

**[www.dell.com/virtualdesktops](http://www.dell.com/virtualdesktops)**

For general information on Dell cloud client  
computing and the full end-to-end solution  
please visit

**[www.dell.com/cloudclientcomputing](http://www.dell.com/cloudclientcomputing)**

©2014 The Dell logo and references are trademarks of Dell Inc. Other product names mentioned herein are for identification purposes only and may be trademarks and/or registered trademarks of their respective companies. All specifications are subject to change without notice. While we make every effort to ensure the accuracy of the details, specifications, models, images and benefits featured in this datasheet, we cannot be held responsible for any errors and/or omissions. If you have any queries regarding Dell Wyse products please contact your authorized regional Dell Partner. Some features require support by server operating system and protocol. Approved final 060314.

**Dell.com**