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Wir unterstützen Sie kompetent und persönlich!



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Dell Technologies Solutions for VDI

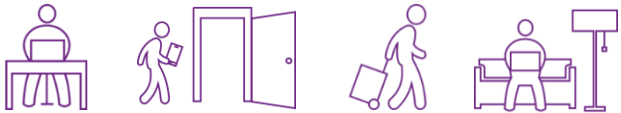
13. July 2020

IN RAM MICRO

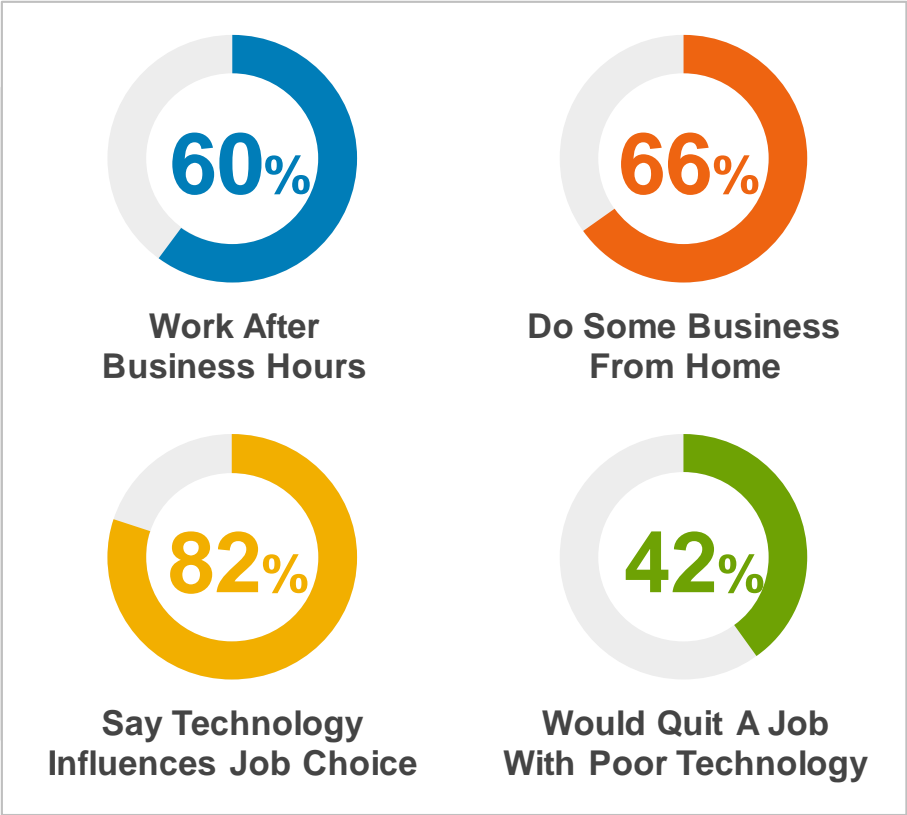
DELLEMC

The Way We Work Has Changed

The **workforce** is evolving



The **work** happens anytime, anywhere



The Real Challenges that IT Faces Today



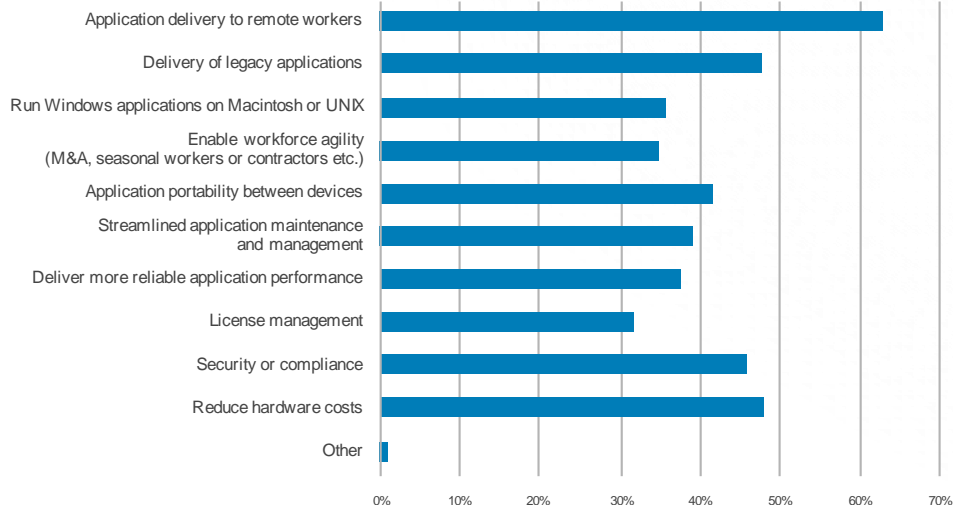
Virtualizing Desktops and Applications Solves Many Business Challenges

Access and flexibility

Simplified Management

Security

Cost reduction



Ready Solutions for VDI

VDI simplified for every use case

Your choice of
**CLIENT
ENDPOINTS**



3000 series



5000 series



All-in-One



Mobile

Your choice of
**VIRTUALIZATION
SOFTWARE**

CITRIX®

Virtual Apps and Desktops

vmware®

Horizon 7

vmware®

Horizon 7

Your choice of
INFRASTRUCTURE



Dell EMC
VxBlock 1000



Dell EMC vSAN
Ready Nodes



Dell EMC VxRail



Dell EMC VxRail

Dell Technologies Cloud



VMware Cloud™ on AWS
And other VMware partner
clouds

On-premises Deployment

Cloud Partners

Industry-leading thin clients from Dell Wyse

Wyse 3040 Thin Client

Quad-core performance on a budget



- Dell's smallest and lightest thin client with flexible mounting options for space constrained environments
- Great multimedia capabilities, and essential protocol and peripheral support
- Easy to manage through Wyse Device Manager and Wyse Management Suite; administration easily scales from just a few to tens of thousands of thin clients

Wyse 5070 Thin Client

Most versatile, scalable and capable thin client



- Simplify standardization across the enterprise with a single platform with extraordinary scale on performance, configurability and deployment
- Great performance today and in the future across a variety of use cases
- True 4K graphics boldly takes thin clients' visual experience into the big time

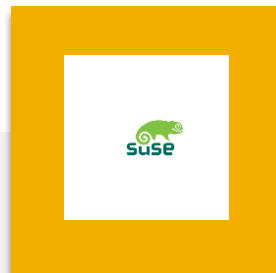
Dell offers the most extensive selection of secure, easy-to-manage thin clients to suit your budget, application, and performance needs

Dell Wyse thin clients: choice of OS and firmware



ThinOS

- ThinOS is the most virus and malware resistant thin/zero client firmware
- Unified Communications – Skype for business
- Bio-metric fingerprint authentication
- Low to no management overhead
- Easy to deploy & works out of the box
- Instant ON with rich multimedia
- Improved authentication with EAP-FAST
- No local application support



ThinLinux & Linux

- Supports unified communications platform such as Skype for Business & VXME
- Supports local Linux applications
- Good peripheral support
- Flexible management options via Wyse WDM & INI file management
- Based on open source
- Supports x86



Windows Embedded

- Supports unified communications platform such as Lync
- Supports local Windows applications
- Robust peripheral support
- Robust security features. Enhanced protection with DDP | Threat Defense
- Flexible management options via Wyse WDM & WCM and support for SCCM
- Based on Microsoft Windows OS
- Supports x86 architecture only

easier to manage / more secure

more flexible / more peripherals

Dell Wyse thin clients: key benefits

SECURITY



- Significantly reduced attack surfaces at the client
- All data stored on server for security and redundancy
- Addresses logging and tracking requirements
- Meets Compliance and audit requirements
- Data center or cloud based

MANAGEABILITY



- Devices can be managed in cloud or data center
- Higher reliability and less complexity
- Fault tolerance for data and apps
- Less IT staff required to manage

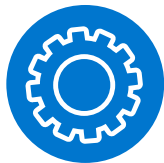
TOTAL COST



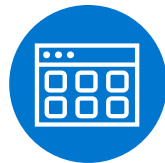
- Lower cost devices
- Significant power savings vs. PCs
- Significantly less IT staff required to manage vs. traditional PCs
- Longer lifespan vs. PCs (4 year → 7 Years)

Why partners choose Dell Technologies for VDI

Flexible solutions tailored to your organization's goals



Engineered Solutions



Customizable Nodes



Reference Architectures

Only end-to-end provider



Easiest to plan, deploy and run



Most secure, reliable and manageable



Global experience partner



Hyper-Converged Infrastructure



Converged Infrastructure



Dell Technologies Cloud

Why Dell EMC?

The combination of Dell and EMC brings together two industry-leading companies with strong reputations for **value and innovation**. Dell EMC holds leadership positions in:



- #1 converged infrastructure³
- #1 in traditional and all-flash storage⁴
- #1 virtualized data center infrastructure⁵
- #1 cloud IT infrastructure⁶
- #1 server virtualization and cloud systems management software (VMware)⁷
- #1 in data protection⁸
- #1 in software-defined storage⁹

3 IDC WW Quarterly Converged Systems Tracker, June 2016, Vendor Revenue — EMC FY 2015; 4 IDC WW Quarterly Enterprise Storage Systems Tracker, June 2016, Vendor Revenue — EMC CY 2015; 5 Dell EMC Annual Report, 2015; 6 IDC WW Quarterly Cloud IT Infrastructure Tracker, Q1 June 2016, Vendor Revenue — EMC FY 2015; 7 IDC WW Virtual Machine and Cloud System Market Shares 2015, July 2016; 8 Dell EMC Pulse, Gartner Recognizes EMC as a Leader in the 2016 Data Center Backup and Recovery Software Magic Quadrant, June 2016; 9 IDC white paper, "Software Defined Storage: A Pervasive Approach to IT Transformation Driven by the 3rd Platform," November 2015.

Dell EMC Ready Architectures for VDI - Positioning

HCI Designs	Converged Designs	Ready Node Designs
VxRail Appliance	VxBlock System 1000	vSAN Ready Nodes
vmware CITRIX	vmware CITRIX	vmware CITRIX
Turn-key VDI appliance	For customers requiring a solution for multiple high-value workloads and VDI at enterprise-scale	Tight integration of VMware software and choice of hardware, reconfigurable over lifecycle
ESXi on vSAN	ESXi	ESXi on vSAN
Horizon & Citrix Virtual Apps and Desktop	Horizon & Citrix Virtual Apps and Desktop	Horizon & Citrix Virtual Apps and Desktop
<ul style="list-style-type: none"> • VxRail V & E Series • V series based on R740xd 14th Gen PowerEdge • Hybrid, All Flash • GPU M10/M60/T4 • 3-64 nodes/cluster • ~400 seats with a 3 node minimum • Deduplication and data compression 	<ul style="list-style-type: none"> • Xtremio X2 all-flash storage (PowerMax and Unity also) • Isilon for file storage • Cisco compute and networking • GPU M10/P40 (T4 coming soon) • 3-64 nodes/cluster • Deduplication and data compression 	<ul style="list-style-type: none"> • R640, R740xd-3.5" • Hybrid, All Flash • GPU M10/M60 • 3-64 nodes/cluster • Deduplication and data compression
<ul style="list-style-type: none"> • Automated deployment • Integrated Lifecycle Management • Rapid deployment 	<ul style="list-style-type: none"> • Fully engineered system from the factory • Granular scalability of compute and storage • Management simplicity through AMP and VxBlock Central 2.0 	<ul style="list-style-type: none"> • Control over the system build • Reduce cost and complexity • Use existing management tools

Dell EMC Ready Architectures for VDI

Dell EMC Ready Architectures for VDI on vSAN-based appliances provide a quick and easy way to simplify and extend your VMware environment. Since Ready Architectures for VDI combine compute, storage, virtualization, and management, these solutions are ideal for VDI.

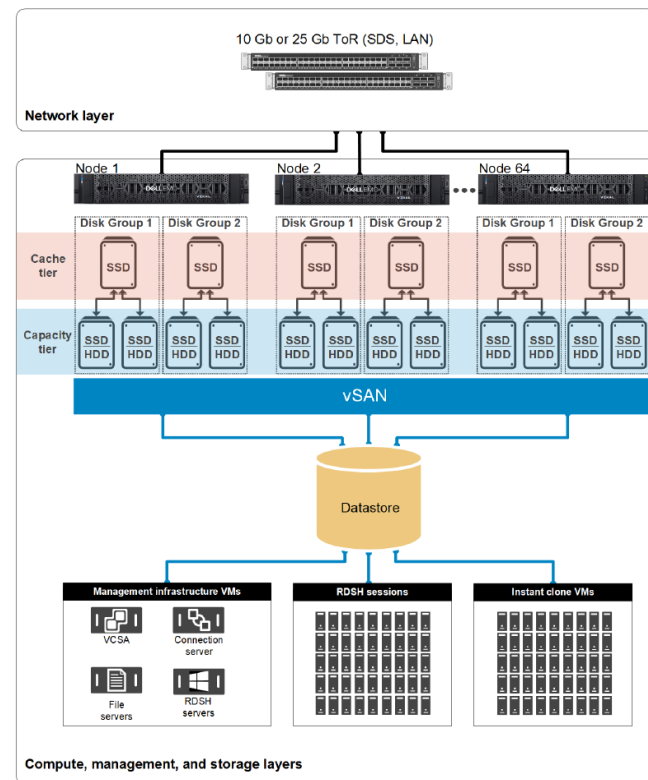
The Ready Architectures for VDI are built on industry-leading Dell EMC VxRail appliances or vSAN Ready Nodes appliances. These true hyper-converged infrastructure (HCI) platforms provide performance, flexibility, and scale for VDI environments.

- Dell EMC recommends VxRail appliances for an enhanced VDI solution that leverages a wide range of software, tools, and resources co-developed by Dell EMC and VMware. The VMware hyper-converged software is vSphere-ready and based on vSAN Software-Defined Storage (SDS). The Dell EMC deployment and support tools integrate the software management within VxRail Manager. Data protection and replication are included and can support either hybrid or all-flash storage configurations.
- Dell EMC vSAN Ready Nodes do not include the full automation suite that is available in VxRail appliances, but they provide more flexibility in platform choices. vSAN Ready Nodes offer the confidence that your pre-validated configuration will work with vSAN technology as well as the VMware Horizon 7 suite.

Installing VMware Horizon 7 with its VDI components on VxRail appliances or vSAN Ready Nodes enables organizations to quickly deliver Microsoft Windows virtual desktops or server-based hosted shared sessions on a wide variety of endpoint devices.

[Dell EMC Ready Architectures for VDI](#)

[Designs for VMware Horizon on VxRail and vSAN ReadyNodes](#)



Dell EMC VxRail delivers efficient business expansion



ACCELERATES
TRANSFORMATION



SEAMLESS
INTEGRATION

ONE

SINGLE END-TO-END
LIFECYCLE SUPPORT






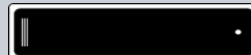


FULLY LOADED
SERVICES



HIGHLY
CONFIGURABLE

VxRail on latest generation Dell EMC servers

E665/F/N & E560/F/N	P570/F & P580N	V570/F	D560/F	S570	G560/F
					
Our everything platform	Performance focused	Optimized for VDI	Durable & rugged	Storage dense	Compute dense
Single socket 2 nd Gen AMD EYPC™ 8 to 64 cores Or Single or dual Intel® Xeon® Scalable Gen 1 and Gen 2 4 to 56 cores * Up to 3TB of Optane Persistent Memory	Single, dual, and quad Intel® Xeon® Scalable Gen 1 and Gen 2 processors, with up to 112 cores Up to 6TB of Optane Persistent Memory	Dual Intel® Xeon® Scalable Gen 1 & 2 only Up to six GPUs with five different NVIDIA Tesla and Quadro GPU options	MIL-STD 810G certified to withstand extreme heat, sand, dust and vibration Short depth only 20" Certified cold start down to -15C & to run at up to 45C	Only series with 3.5" HDD Hybrid only	Eight Intel® Xeon® Scalable Gen 1 or Gen 2 processors in 2U
R6515 10 x 2.5" all NVMe or 8 x 2.5" all flash / hybrid R640 10 x 2.5" drives	R740XD / R840 24 x 2.5" drives	R740XD 24 x 2.5" drives	XR2 8 x 2.5" drives	R740XD 12 x 3.5" plus 2 x 2.5" drives	C6400 with C6420 node 24 x 2.5" drives
10GbE or 25GbE Optane/NVMe/SAS cache All NVMe capacity FC HBA * NVIDIA T4 GPU * 48V DC PSU option	10GbE or 25GbE Optane/NVMe/SAS cache All NVMe capacity FC HBA 48V DC PSU option	10GbE or 25GbE SAS cache only FC HBA 220V – 240V AC only	10GbE or 25GbE Optane/NVMe/SAS cache	10GbE or 25GbE SAS cache only FC HBA 48V DC PSU option	10GbE Optane/NVMe/SAS cache 220V – 240V AC only

* E560 only, not available on E665

Dell EMC Ready Architectures on VxRail

VDI on HCI for customers wanting fully integrated solutions on native VMware

Solution benefits

- Predictable per-seat cost & performance, and linear scale to support a growing workforce
- Ideal for rapid deployments
- Scale rapidly with workload specific configurations per platform
- 16x Lower install and upgrade costs
- 30% TCO advantage over DIY HCI
- 42% Lower total cost of serviceability

Differentiation

- Single point of contact for deployment and support
- Integrated Lifecycle Management with a full suite of management software
- Deduplication and data compression
- Optimized Dell EMC hardware powered by VMware software

Available exclusively with VMware ESXi hypervisor

VMware Horizon or Citrix Virtual Apps and Desktop



VxRail V570: 2U, based on PowerEdge 740xd with optional

NVIDIA GRID M10 or T4 GPUs

Up to 3 double slot M10 or 6 single slot T4 GPU

VxRail E560: 1U, no GPU, for small or remote office

Choice of Hybrid or All Flash storage configurations

Available from 3 to 64 nodes per cluster

Services: Deployment, Integration, Support

VxRail V570/570F VDI Optimized Systems

Based on Dell EMC PowerEdge R740xd

GPU

Minimum 1 and up to 3 PCIe GPUs
NVIDIA only (M10, P40, V100)

For VDI or AI up to 6 single slot NVIDIA T4

Note: Customers obtain and configure GPU SW
and drivers vGPU requires vSphere Enterprise



<p>FORM FACTOR Single system 2U</p>	<p>DISK CONFIGURATION 24x 12G SAS drive slots (2.5") Up to 4 disk groups with up to 5 capacity drives each</p>
<p>PROCESSORS Dual socket, Up to 28 cores/CPU</p>	<p>MAX CAPACITY 76.8TB SSD or 48TB HDD</p>
<p>MEMORY Up to 3,072 GB RAM (1,536 GB per processor)</p>	<p>POWER SUPPLIES 2000W 200-240V AC</p>
<p>ADDITIONAL NETWORK OPTIONS Up to 4 (reduces GPU card slots) 2x10GbE SFP+, 2x10GbE RJ45, 4x10GbE RJ45, 4x10GbE SFP+, 2x25GbE SFP28</p>	<p>BOOT BOSS with 2 x 240GB SATA M.2</p>

Dell EMC Ready Architectures on VMware vSAN Ready Node for VDI

Enable simplified client virtualization on VMware Horizon or Citrix Virtual Apps and Desktop

Highlights and benefits

- Predictable performance from the first to the last user
- Control over the system build and components
- Reduce cost and complexity
- Improved performance and user experience
- Use existing management tools and hardware platforms
- High-end virtualized graphics with 3x NVIDIA GRID GPU with M10 and M60

Differentiation & Use cases

- Setup in less than 15 minutes
- For customers who value easiness and predictable scalability
- VDI deployments on VMware vSAN SDS technology and vSphere
- VMware Horizon and Citrix XenDesktop customers wanting simplified virtualized storage
- IT resources that do not necessarily include storage specialists

VMware vSphere, vCenter, ESXi, and vSAN

VMware Horizon or Citrix Virtual Apps and Desktop



PowerEdge R640, R740 and R740xd

NVIDIA GRID M10 or T4 GPUs

Choice of Hybrid or All Flash storage configurations

End-to-end reference architectures including end points

Dell EMC Ready Architectures on VxBlock System 1000

A single platform for your mission critical workloads

Highlights and benefits

- Engineered system with low time-to-value
- Advanced **XtremelIO** storage features (including rich data compression and deduplication capabilities)
- Integrated file storage capabilities through optional inclusion of Isilon
- High-end virtualized graphics with NVIDIA M10 and P40 support (T4 coming soon)
- Ease of management through AMP hardware environment and VxBlock Central management software solution

Differentiation & Use cases

- Single, consolidated platform for multiple workloads where customer does not want HCI
- High user-count use cases with granular scalability of compute/storage
- Single, consolidated platform for multiple workloads which cannot be virtualized (bare metal requirements)
- Supports larger configuration maxima than HCI (more hosts per cluster)

ESXi

VMware Horizon or Citrix Virtual Apps and Desktop



Cisco USC rack and blade mounted server

NVIDIA GRID M10 and P40 (T4 coming soon)

Choice of Rich Data Services (XtremelIO, PowerMax, Unity, Isilon)

End-to-end reference architectures including end points

NVIDIA GRID GPU's

Solutions for growing demand for graphics resources



Growing demand for graphics resources



2x

Number of applications that require graphics doubled since 2012*

>60%

Over 60% of enterprise users access at least one graphics accelerated app*

32%

Windows 10 requires a 32% increase in CPU consumption, compared to Windows 7**

Source:

* Data from Lakeside Software's SysTrack Community, 2017

** Lakeside Software, Inc. "Elevating User Experience Through GPU Acceleration: A Windows 10 versus Windows 7 Analysis." Lakeside Software White Paper, 2017



Windows 10 and Modern Apps

Highest graphics requirement from any operating system to date



32% Increase in CPU Consumption, Windows 10 vs Windows 7*



Increase in graphics usage Windows 7 vs Windows 10

NVIDIA Virtual GPU solutions deliver rich immersive user experiences



GRID vPC and GRID vApps

Powered by the
NVIDIA Tesla M10 and T4

- Deliver native user experiences across multiple devices
- Support rising graphics requirements of productivity apps and Windows 10
- Enhance user experience quality by 34%**



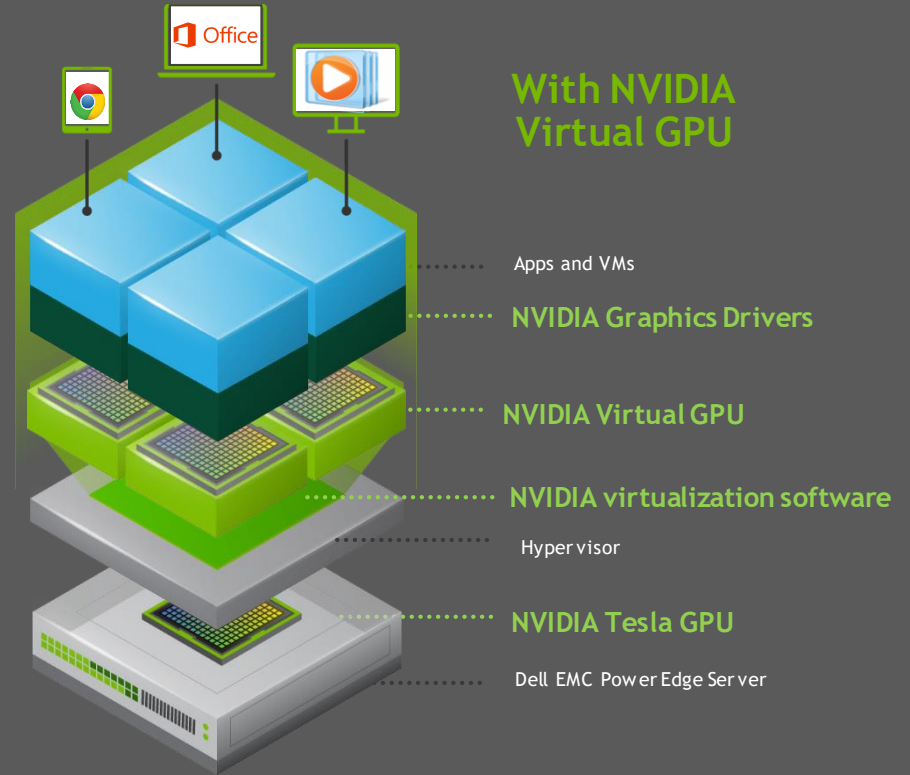
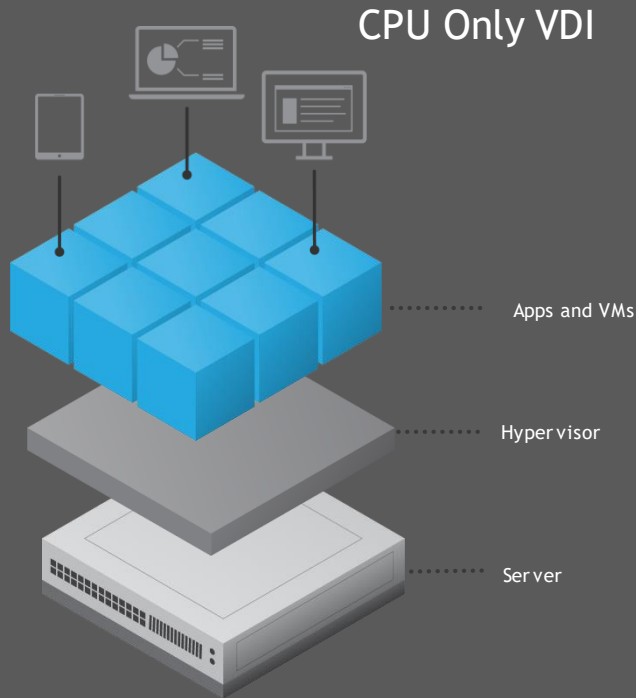
Quadro Virtual Data Center Workstation (vDWS)

Powered by the NVIDIA Tesla T4

- Meet the demanding performance needs of professional visualization users
- Enable broad workflow collaboration while securing data in the data center
- Quadro driver optimizations and capability

How it works

NVIDIA Virtual GPU Products deliver a GPU Experience to every Virtual Desktop



NVIDIA Whitepaper

- ▶ **Entry Level Engineer / Design Reviewer**
(Small Objects / Assemblies / Approximately 10% of Users)
 - 4 GB RAM
 - 2 vCPUs (2.6 GHz)
 - 2-4 GB video RAM
 - Two 2560x1600 displays
- ▶ **Mid-Level Engineer**
(Avg to Large Objects / All App Features / Approximately 80% of Users)
 - 8 GB RAM
 - 4 vCPUs (2.6 GHz)
 - 4-8 GB video RAM
 - Four 2560x1600 displays and/or One 3840 x 2160
- ▶ **Advanced Engineer**
(Extremely Large objects / All App Features / Approximately 10% of Users)
 - 16 GB RAM
 - 8 vCPUs (3.2 GHz)
 - 8-16 GB video RAM
 - Four 2560x1600 displays and/or Two 3840 x 2160

- ▶ **NVIDIA Virtual GPU Technology**
<https://www.nvidia.com/en-us/design-visualization/technologies/virtual-gpu/>
- ▶ **Purchasing Guide for NVIDIA vGPU Solutions**
<https://www.nvidia.com/en-us/design-visualization/buy-grid/>
- ▶ **NVIDIA Tesla GPU Datasheets**
<http://www.nvidia.com/object/grid-enterprise-resources.html#datasheet>
- ▶ **Application Deployment Guides and Solution Overviews**
<http://www.nvidia.com/object/grid-enterprise-resources.html#guides>
- ▶ **Customer Success Stories**
<http://www.nvidia.com/object/grid-enterprise-resources.html#case>
- ▶ **White Papers**
<http://www.nvidia.com/object/grid-enterprise-resources.html#whitepapers>
- ▶ **Videos**
<http://www.nvidia.com/object/grid-enterprise-resources.html#videos>

[Deployment Guide for VMware Horizon](#)

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VMware Horizon streamlines desktop and app delivery

Horizon is the leading choice



“There is no doubt that client virtualization technology can **play a key role in the unified device management**, which can enable an IT organization to focus more of its energy into strategic DX [digital transformation] endeavors as opposed to being consumed by managing PCs, users, applications, and devices.”

– VCC Software 2016 Vendor Assessment



Cases

“**Desktop virtualization** (hosted virtual desktops, server-based computing or desktop as a service) can be used to **"containerize" Win32 applications.**”

– Manage PCs as Mobile Devices for the Right Use

March 2016

IDC MarketScape: Worldwide Virtual Client Computing Software



Source: IDC, 2016
IDC MarketScape: Worldwide Virtual Client Computing Software 2016 Vendor Assessment, Nov 2016

The VDI Stack

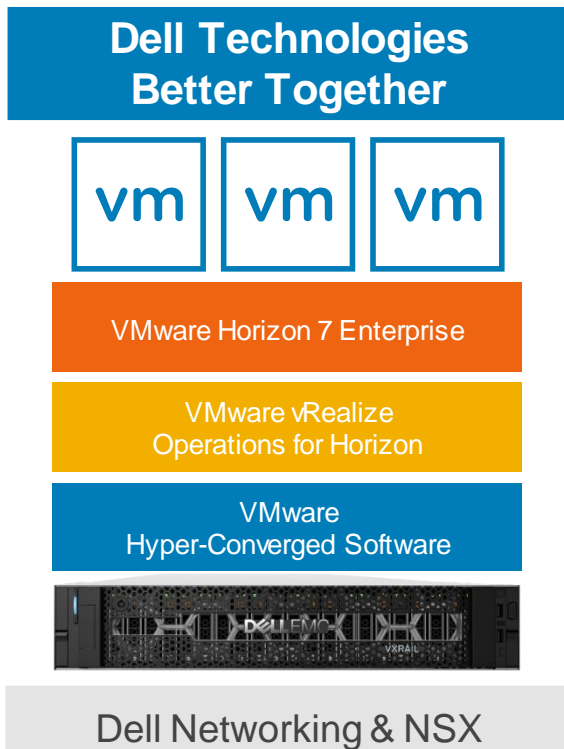


Many Choices

Traditional	Technology Component
HP / Dell EMC	Thin Client
AppSense / RES	User Personalization
Unidesk / App-V / SCCM	Application Delivery
Image Management Tools	OS Image Delivery
Citrix / Horizon	Broker
VMware	Hypervisor
Cisco / HP / Dell	Compute
Dell EMC / Pure / HP / Nimble	Storage
Cisco / Brocade / Juniper	Network

How Dell Technologies Simplifies VDI

Traditional	Technology Component
HP / Dell EMC	Thin Client
AppSense / RES	User Personalization
Unidesk / App-V / SCCM	Application Delivery
Image Management Tools	OS Image Delivery
Citrix / Horizon	Broker
VMware	Hypervisor
Cisco / HP / Dell	Compute
Dell EMC / Pure / HP / Nimble	Storage
Cisco / Brocade / Juniper	Network

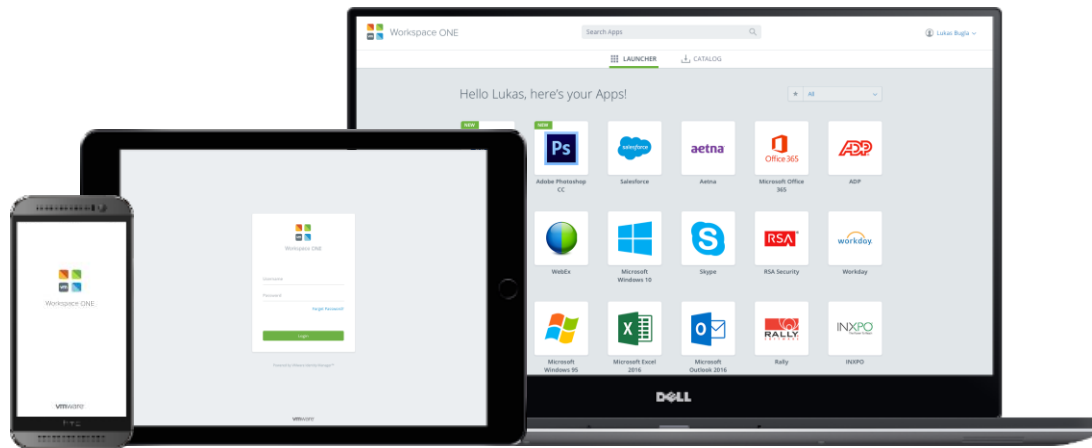


Horizon Powers the Modern Digital Workspace

Delivers Windows and Business Critical Apps to any device, anywhere


Applications


Desktops



Workspace ONE is available as an add-on to VDI Complete for an enhanced user experience

Horizon 7 – portfolio overview

Horizon Standard

**Simple powerful
VDI with great user
experience**

Horizon Advanced

**Low-cost, high
performance
desktops and
applications for
physical and virtual
machines**

Horizon Enterprise

**Highest level of
automation and
management
for private cloud
delivery**

Horizon Apps – portfolio overview

Horizon Apps Standard

**Simple powerful
app virtualization
with a great user
experience**

Horizon Apps Advanced

**Powerful app
virtualization with
Just-in-Time
management**

VMware Horizon 7 and Horizon Apps

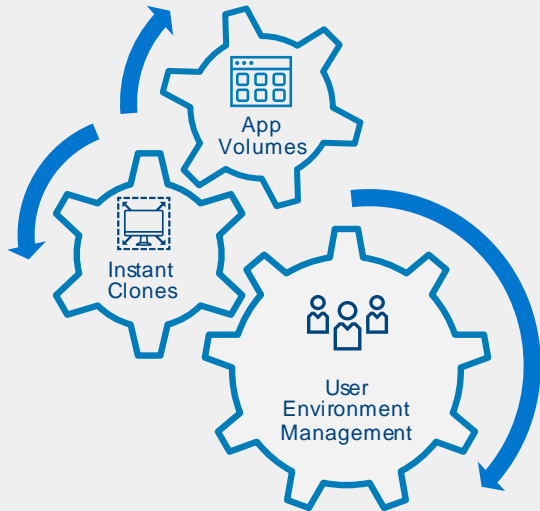
Comparison table

FEATURE	SUB-COMPONENT/ PRODUCT	HORIZON FOR LINUX	HORIZON STANDARD	HORIZON ADVANCED	HORIZON ENTERPRISE	HORIZON APPS STANDARD	HORIZON APPS ADVANCED
License Entitlement							
Concurrent User (CCU)		●	●	●	●	●	●
Named User				●	●	●	●
Desktop and Applications							
Windows virtual desktops	VMware Horizon		●	●	●		
Linux desktops	VMware Horizon for Linux	●			●		
Unified workspace – XA, RDSH, SaaS, VMware ThinApp®	VMware Workspace ONE® Access™			●	●	●	●
Published applications (RDSH) and session-based desktops	RDS published apps			●	●	●	●
Packaged applications	VMware ThinApp		●	●	●	●	●
Blast Extreme protocol	VMware Horizon	●	●	●	●	●	●
Session collaboration	VMware Horizon				●		
Virtualization Pack for Skype for Business	VMware Horizon			●	●		●
Application and desktop access with single sign-on	VMware Workspace ONE Access			●	●	●	●
WORKSPACE ENVIRONMENT MANAGEMENT							
Desktop and Application Management							
Real-time application delivery	VMware App Volumes™				●		●
Just-in-Time delivery with Instant Clone Technology	VMware Horizon				●		●
Linked Clone technology	VMware Horizon		●	●	●		
User Environment Management							
User, profile, and policy management	VMware Dynamic Environment Manager™				●	●	●

VMware JMP
Technology

Simplified management with JMP Technologies

Just-In-Time Management Platform - Eliminates Cost and Complexity



Step 1: Identify User



**CEO
Bob Smith**

- 5 GB RAM
- 3 CPU
- Windows 10
- Office 365
- Skype for Business



**VP of HR
Steve Higgins**

- 4 GB RAM
- 5 CPU
- Windows 7
- Skype for Business

Step 2: Define Desktop Workspace

JMP Management



Images



Apps



Policies
and Settings



Infrastructure

Step 3: JMP Dynamically Builds



Desktop
Workspace
Ready

Key Benefits of JMP Technologies



30x Faster
Imaging



Instant
App Delivery



Configure in
**Less Than
Half the Steps
and Time**
Required Compared to
Other Solutions



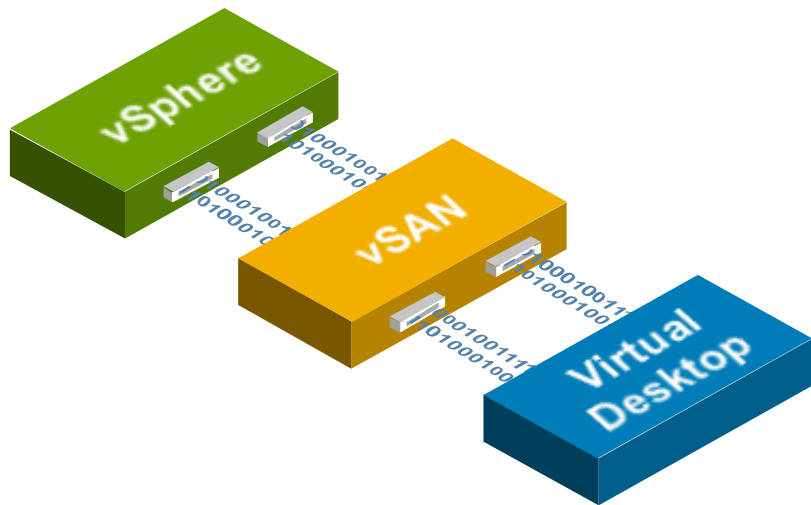
**Contextual
Policy**



Zero
Downtime Updates

Horizon on HCI: Industry Leading Performance

Best-in-class performance unmatched by any other hyper-converged solution



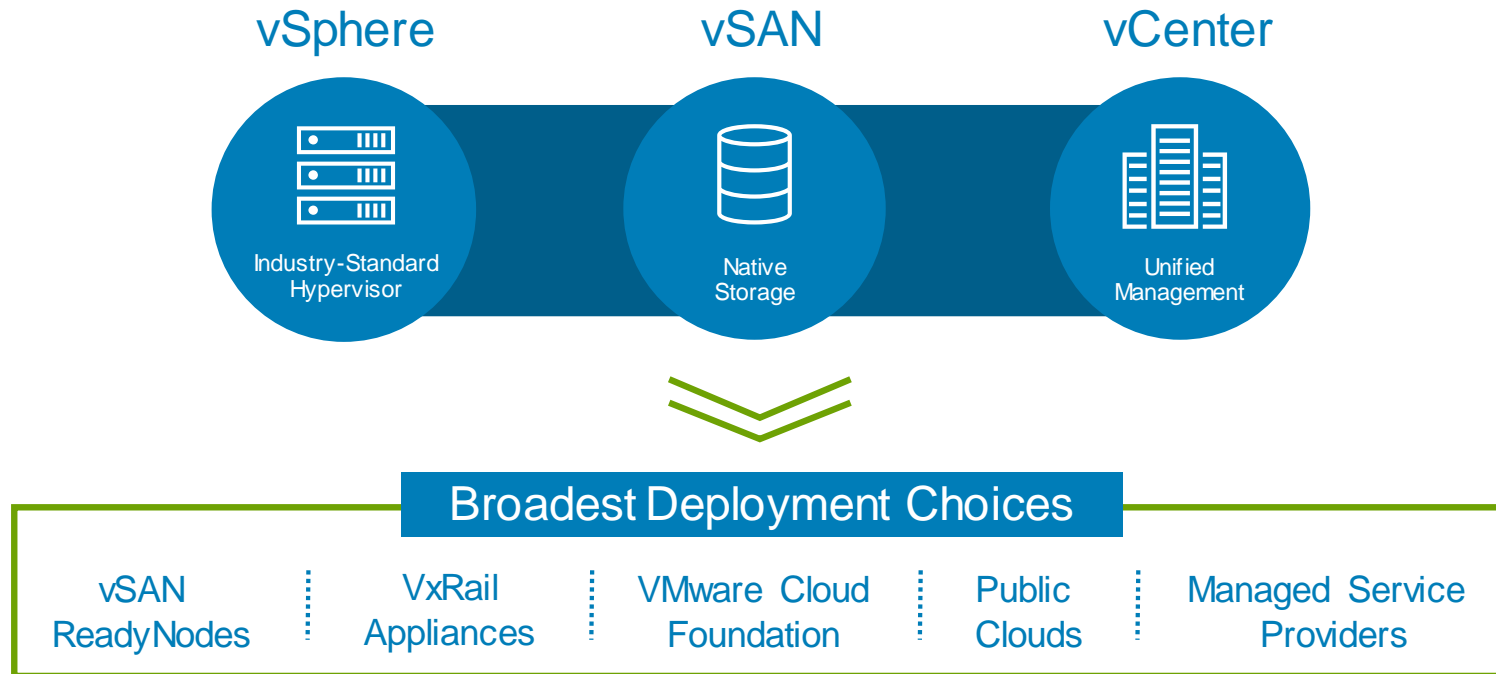
Kernel-level integration =
5X better performance

2X better CPU efficiency,
3X better memory efficiency

Unbeatable desktop and app
performance with all-flash and over
one hundred thousand IOPS per
node and sub-millisecond latency

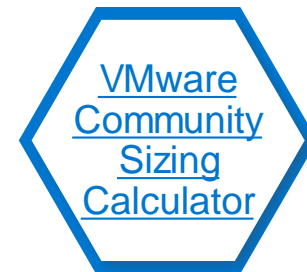
Best solution
for desktop and app workloads

HCI Powered by VMware vSAN



VxRail appliance V-Series VDI-optimized configurations

- The A3 configuration is perfect for small scale, POC or low density, cost-conscious environments.
- The B5 configuration is geared toward larger scale general purpose workloads, balancing performance and cost-effectiveness.
- The C7 is the premium configuration offering an abundance of high-performance features and tiered capacity that maximizes user density.



A3	B5	C7
<ul style="list-style-type: none"> • CPU: 2 x 10-Core (4114) • RAM: 192GB (12 x 16GB @ 2400MHz) • Disk: 4TB+ (Capacity*) • GPU (Optional**): Up to 3 x FLDW 	<ul style="list-style-type: none"> • CPU: 2 x 14-Core (5120) • RAM: 384GB (12 x 32GB @ 2400MHz) • Disk: 6TB+ (Capacity*) • GPU (Optional**): Up to 3 x FLDW 	<ul style="list-style-type: none"> • CPU: 2 x 20-Core (6138) • RAM: 768GB (24 x 32GB @ 2667MHz) • Disk: 8TB+ (Capacity*) • GPU (Optional**): Up to 3 x FLDW

User Profile	vCPUs	ESXi Memory Configured	ESXi Memory Reservation	Screen Resolution	Operating System
Task Worker	1	2GB	1GB	1280 X 720	Windows 10 Enterprise 64-bit
Knowledge Worker	2	3GB	1.5GB	1920 X 1080	Windows 10 Enterprise 64-bit
Power Worker	2	4GB	2GB	1920 X 1080	Windows 10 Enterprise 64-bit
Graphics LVSI Power + ProLibrary	2	4 GB	4GB	1920 X 1080	Windows 10 Enterprise 64-bit
Graphics LVSI Custom - Density	2	4 GB	4GB	1920 X 1080	Windows 10 Enterprise 64-bit
Graphics LVSI Custom - Performance	4	8GB	8GB	1920 X 1080	Windows 10 Enterprise 64-bit

VxRail Sizing for VDI Windows Desktops

<https://vxrailsizing.emc.com>

Configuration Option A

Lowest Price

Save

Export

Import

Hide Option

Configuration Option B

Lowest Price

Appliance Model: V570F Show Filters

VxRail V570F - 4 Nodes (4 x 2U1N)

	Per Socket/DG	Per Node
CPU:	1 Per Socket	2 (16 Cores - 28.8 GHz)
Memory:	6 Per Socket (96 GB)	12 (192 GB)
Cache:	1 Per DG	1
Storage:	1 Per DG (1.7 TB)	1 (1.7 TB)

CPU: 4108 (8C, 1.8 GHz)
Memory: 16 GB DIMMs
Cache: 400 GB WI SAS
Storage: 1.92 TB SSD SATA
19 free capacity slots

This configuration is 64.8% more expensive than Option B.

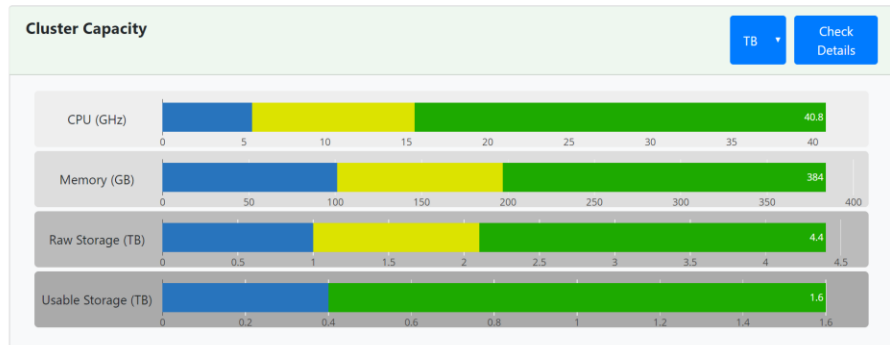
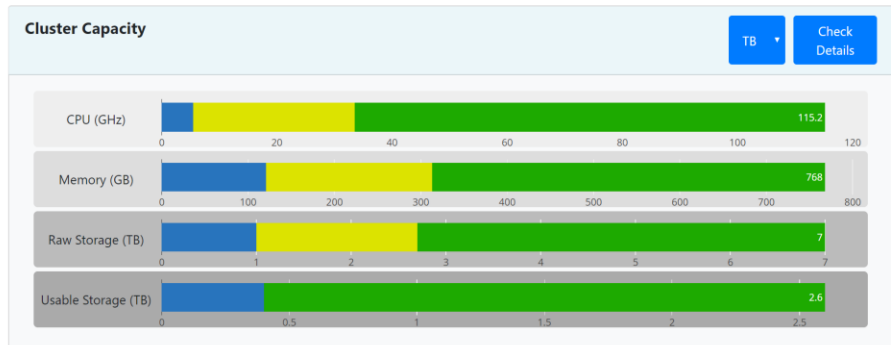
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VxRail G560 - 4 Nodes (1 x 2U4N)

	Per Socket/DG	Per Node
CPU:	1 Per Socket	1 (6 Cores - 10.2 GHz)
Memory:	6 Per Socket (96 GB)	6 (96 GB)
Cache:	1 Per DG	1
Storage:	1 Per DG (1.1 TB)	1 (1.1 TB)

CPU: 3104 (6C, 1.7 GHz)
Memory: 16 GB DIMMs
Cache: 400 GB WI SAS
(36% ratio)
Storage: 1.2 TB 10K HDD
4 free capacity slots

This configuration is 184.2% cheaper than Option A.



Client virtualization customer success stories

Financial Services	Energy	Manufacturing	Hospitality Food Svcs.	Pharma and Medical Svcs.	Transportation Shipping	ICT / XSP	Retail Business Svcs	Government Services	Government	Education



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Wir unterstützen Sie kompetent und persönlich!



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Dell Wyse thin clients: choice of OS and firmware



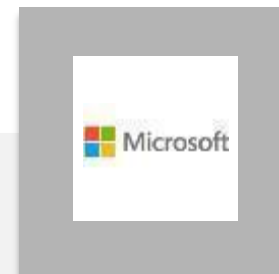
ThinOS

- ThinOS is the most virus and malw are resistant thin/zero client firmw are
- Unified Communications – Skype for business
- Bio-metric fingerprint authentication
- Low to no management overhead
- Easy to deploy & works out of the box
- Instant ON with rich multimedia
- Improved authentication with EAP-FAST
- No local application support



ThinLinux & Linux

- Supports unified communications platform such as Skype for Business & VXME
- Supports local Linux applications
- Good peripheral support
- Flexible management options via Wyse WDM & INI file management
- Based on open source
- Supports x86



Windows Embedded

- Supports unified communications platform such as Lync
- Supports local Windows applications
- Robust peripheral support
- Robust security features. Enhanced protection with DDP | Threat Defense
- Flexible management options via Wyse WDM & WCM and support for SCCM
- Based on Microsoft Windows OS
- Supports x86 architecture only

easier to manage / more secure

more flexible / more peripherals

Dell Wyse thin clients: key benefits

SECURITY



- Significantly reduced attack surfaces at the client
- All data stored on server for security and redundancy
- Addresses logging and tracking requirements
- Meets Compliance and audit requirements
- Data center or cloud based

MANAGEABILITY



- Devices can be managed in cloud or data center
- Higher reliability and less complexity
- Fault tolerance for data and apps
- Less IT staff required to manage

TOTAL COST



- Lower cost devices
- Significant power savings vs. PCs
- Significantly less IT staff required to manage vs. traditional PCs
- Longer lifespan vs. PCs (4 year → 7 Years)

AI-based anti-malware protection for virtual desktops and all end-points

With Dell Endpoint Security Suite Enterprise and Threat Defense



Prevents 99% of malware

- Dell uses advanced AI and machine learning techniques to prevent 99% of malicious attacks before they can execute, including zero-day



Light weight and easy to manage

- Low CPU overhead, does not require constant Internet connection to function
- Easy setup and cloud-based or on-premise management console



Protection from server to endpoint

- Prevent VDI threats at the server, in virtual desktops, before they can spread
- Protects data at rest and data in flight



Threat prevention for all endpoints

- Windows embedded thin clients, Windows PCs, Mac OS X systems
- Windows Servers