



DELL VIRTUAL LABS WITH VMWARE VIEW™

Dell Desktop Virtualization Solutions (DDVS) leverages purpose-built hardware, software and services ingredients to enable multiple capable architectures that can maximize IT control while enhancing the end-user experience. Dell utilizes industry standard ingredients so that customers have a clear path to expedient upgrades and full support throughout the life of an open solution without sacrificing choice and flexibility.

The DDVS Integrated Solution Stack is pre-packaged, pre-tested and pre-configured to run on VMware View. VMware View delivers desktop services from the cloud to enable end user freedom and IT management and control.

VMware View simplifies IT management, increases security and control of end-users while decreasing costs by centrally delivering desktop services from the cloud. VMware View enables highly available, scalable, secure and reliable desktop services unmatched by physical PCs. Delivering the highest fidelity performance and user experience across locations, VMware View with PCoIP provides users with a rich, personalized desktop for access to data, applications, unified communications and 3D graphics.

What's Included in VMware View?

- **VMware vSphere Desktop**

Designed specifically for desktops, this edition of VMware vSphere provides a highly scalable, reliable and robust platform for running virtual desktops and applications, with built-in business continuity and disaster recovery capabilities to protect desktop data and availability without the cost and complexity of traditional solutions.

- **VMware vCenter Server for Desktops**

This edition of VMware vCenter™ Server is the central management hub for VMware vSphere and gives you complete control and visibility over clusters, hosts, virtual machines, storage, networking and other critical elements of your virtual infrastructure.

- **VMware View Manager**

View Manager enables IT administrators to centrally manage thousands of virtual desktops from a single console to streamline the management, provisioning and deployment of virtual desktops. In addition, end-users connect through View Manager to securely and easily access VMware View virtual desktops.

- **VMware ThinApp**

VMware ThinApp™ is an agentless application virtualization solution that streamlines application delivery while

eliminating conflicts. As part of VMware View, ThinApp simplifies repetitive administrative tasks and reduces storage needs for virtual desktops by maintaining applications independently from the underlying OS.

• **VMware View Persona Management**

Persona Management dynamically associates the user persona to stateless floating desktops. Administrators can easily deploy pools of lower cost stateless, floating desktops and allow users to maintain their designated settings between sessions.

• **VMware Composer**

VMware View Composer lets customers easily manage pools of “like” desktops by creating gold master images that share a common virtual disk. All cloned desktops linked to a master image can be patched or updated through VMware View Manager by simply updating the single master image, without affecting users’ settings, data or applications.

• **VMware View Client**

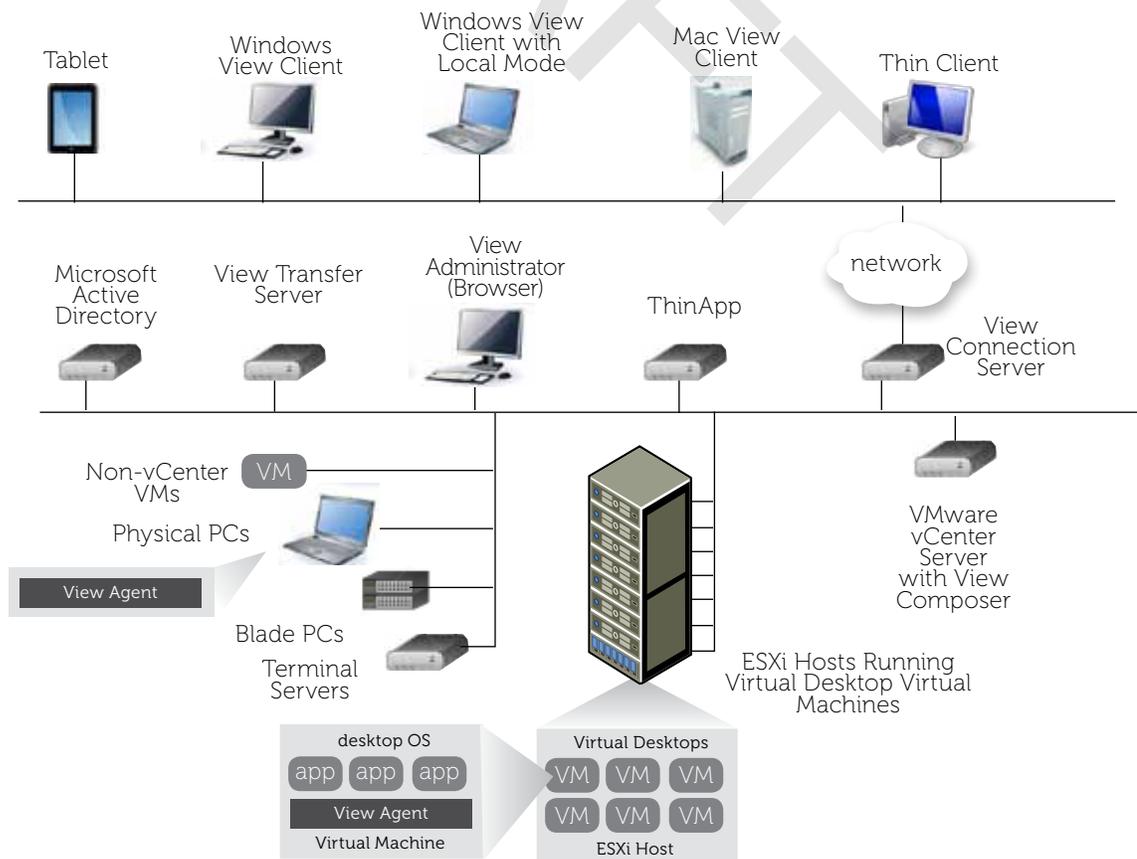
Enables access to centrally hosted virtual desktops from Windows PCs, Macs, thin clients, zero clients, iPads, and Android-based clients. View Client with Local Mode allows access to virtual desktops running on a local Windows based endpoint regardless of network availability.

• **VMware vShield Endpoint**

Offloads and centralizes antivirus and anti-malware (AV) solutions, eliminating agent sprawl and AV storm issues while minimizing the risk of malware infection and simplifying AV administration in virtualized environments.

The Dell Solutions Laboratory – along with Citrix and VMware – has spent over 50,000 man hours testing configurations to identify the right scenarios and develop stable and scalable solutions. Dell knows it’s critical for higher education

High-Level Example of a VMware View Environment



	Platform	Application	Software Installation	Create New File	Insert Object	Save File	Save File as	Open File	Export File
BASE OS	WinXP SP3 32 bit	Notepad	•	•	•	•	•	•	•
		MSPaint	•	•	•	•	•	•	•
	WIN 7-32 bit	Notepad	•	•	•	•	•	•	•
		MSPaint	•	•	•	•	•	•	•
	IOS 4.3.2	Notepad	•	•	•	•	•	•	•
		MSPaint	•	•	•	•	•	•	•
Android 3.0.1	Notepad	•	•	•	•	•	•	•	
	MSPaint	•	•	•	•	•	•	•	
MS OFFICE 2010 SUITE	WinXP SP3 32 bit	Word	•	•	•	•	•	•	•
		Excel	•	•	•	•	•	•	•
		Power Point	•	•	•	•	•	•	•
		OneNote	•	•	•	•	•	•	•
	WIN 7-32 bit	Project	•	•	•	•	•	•	•
		Word	•	•	•	•	•	•	•
		Excel	•	•	•	•	•	•	•
		Power Point	•	•	•	•	•	•	•
	IOS 4.3.2	OneNote	•	•	•	•	•	•	•
		Project	•	•	•	•	•	•	•
		Word	•	•	•	•	•	•	•
		Excel	•	•	•	•	•	•	•
	Android 3.0.1	Power Point	•	•	•	•	•	•	•
		OneNote	•	•	•	•	•	•	•
		Project	•	•	•	•	•	•	•
		Word	•	•	•	•	•	•	•
ADOBE CS 5	WinXP SP3 32 bit	Photoshop	•	•	•	•	•	•	•
		Illustrator	•	•	•	•	•	•	•
		Premier	•	•	•	•	•	•	•
	WIN 7-32 bit	Photoshop	•	•	•	•	•	•	•
		Illustrator	•	•	•	•	•	•	•
		Premier	•	•	•	•	•	•	•
	IOS 4.3.2	Photoshop	•	•	•	•	•	•	•
		Illustrator	•	•	•	•	•	•	•
		Premier	•	•	•	•	•	•	•
Android 3.0.1	Photoshop	•	•	•	•	•	•	•	
	Illustrator	•	•	•	•	•	•	•	
	Premier	•	•	•	•	•	•	•	
AutoCAD	WinXP SP3 32 bit Win7 32 bit IOS 4.3.2 Android 3.0.1	AutoCAD	•	•	•	•	•	•	
MATLAB	WinXP SP3 32 bit Win7 32 bit IOS 4.3.2 Android 3.0.1	MATLAB	•	•	•	•	•	•	
MATHEMATICA	WinXP SP3 32 bit Win7 32 bit IOS 4.3.2 Android 3.0.1	MATHEMATICA	•	•	•	•	•	•	
SPSS	WinXP SP3 32 bit Win7 32 bit IOS 4.3.2 Android 3.0.1	SPSS	•	•	•	•	•	•	
SAS	WinXP SP3 32 bit Win7 32 bit IOS 4.3.2 Android 3.0.1	SAS	•	•	•	•	•	•	

institutions to have software that works correctly and meets the needs of students and staff. Eight of the most frequently used software programs have undergone extensive testing and have been validated:

- Adobe Photoshop
- Adobe Illustrator
- Adobe Premiere Pro CS3
- AutoDesk – AutoCAD 2DLT
- Wolfram – Mathematica 7
- MathWorks – MATLAB
- SAS
- IBM – SPSS

Test Findings

While most applications worked seamlessly during testing, the Dell Solutions Laboratory observed the following:

- If running SAS and SPSS, Dell suggests running with no less than 3GB of RAM to support performance.
- When testing Adobe Photoshop, Dell found that the color gametes were displayed significantly better on traditional workstations or with a mobile computing platform than on thin clients.

- When testing with iOS, no issues were noted and the applications worked as normal. However, working within this environment is not ideal as the applications have not been designed for touch screen interfaces and the experience can be imprecise. Dell recommends using these devices for content consumption – not for content creation. In addition, most applications tested are formatted for 12"+ screens and may be difficult to observe on smaller devices. These precision issues can be mitigated by connecting a Bluetooth-enabled smartphone via the Citrix Receiver directly to the touch screen device so that you can use the phone as a tablet to control mouse movement.

- Dell Solutions Laboratory found that certificates of authority and active directory need to be configured in a unique way in order to load the applications on Citrix XenDT.

For more information, contact (insert information).



Dell is a premier provider of computer products and services on which colleges and universities build their information technology and Internet infrastructures. Dell listens to customers and delivers what they value: comprehensive solutions to achieve educational and research goals. Dell designs, manufactures, and tailors products and services to customer requirements and offers an extensive selection of software and peripherals. For more information, visit www.dell.com/hied and www.dell.com/RSS.