

VMware View 3 Technical Deep Dive

VMware View Extends VDI

Components of VMware View

Client Virtualization

- Hypervisor
- Offline Desktop

VDI

- VMware Infrastructure
- View Manager

Application Virtualization: ThinApp

Storage
Optimization:
View Composer



View 3 Technical Deep Dive – Agenda

VMware View Overview
Introduction to VMware View Manager

View Manager Components

- VMware View Manager Agent
- VMware View Manager Client
- VMware View Manager Portal
- VMware View Connection Server
- Vmware View Manager Features

View Composer

ThinApp

VMware View Deployment Scenarios

Troubleshooting





Components of VMware View



VMware View 3



VMware Infrastructure Enterprise

Proven Virtualization Platform



View Manager

Enterprise Desktop Manager



View Composer

Storage Optimization



ThinApp

Application Virtualization



Anywhere Mobility

(Experimental)





View Manager

Introduction to VMware View Manager

VMware View Manager:

- > Brokers connections to user's virtual desktops
- > Manages authentication and entitlements
- > Integrates with the VI3 platform



VMware View Manager Agent

- > Enables communication between the virtual machine and View Connection Server using the message bus.
- > Agent is installed on the virtual machine
 - XP Pro SP2 32bit
 - XP Pro SP3 32bit
 - Vista Ultimate/Business 32bit
- > Installs the
 - View Composer components
 - Virtual machine USB redirect drivers
 - Virtual Printer drivers
 - View Secure components





VMware View Manager Agent – Architecture

User Session

COM Object

Outlook Extension

Session Agent

UIManager

USB

Node Manager System Service

File System

Session Management

JVM

Message Bus Access API (JMS)

USB Virtual Hub

Authentication Support (GINA/Credential Provider)



VMware View Client

- Windows application used to make connections with virtual desktops
- > Provides USB device redirection:
 - XP, XPe, Vista



- User Name
- Password
- Domain







VMware View Client Session Status:

- > Connected
- > Disconnected
- > No session
- Configure Always connect to Default Desktop

Desktop Options:

- > Default desktop
- > Screen size
 - Full Screen Single Monitor
 - Full Screen Dual Monitors
 - Windowed





VMware View Portal

- > Provides access to virtual desktops using a web browser
- User logged on to Virtual Desktop
- > Familiar look and feel:
 - Use the desktop like an 'ordinary' PC
- > Pinned Session Bar, top of screen:
 - Connect to additional desktops
 - Connect and disconnect USB devices
 - For Windows based portal access only
 - Logoff or disconnect the session



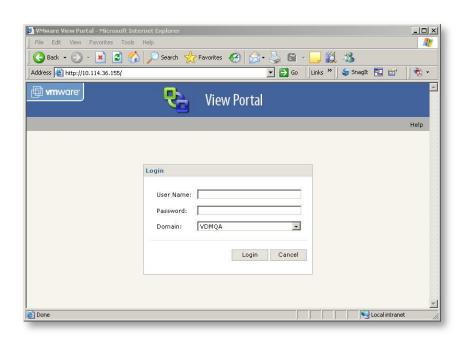


VMware View Portal Session Status:

- > Connected
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Desktop Options:

- > Default desktop
- > Screen size
 - Full Screen Single Monitor
 - Full Screen Dual Monitors
 - Window mode





View Client – Default RDP Settings

		ager Client ss Windows	View Manager Web Access Linux	View Manager Web Access MAC
RDP Settings	RDC 5.x	RDC 6.x	rdesktop	RDC for Mac OS X 1.0
Display				
Color Depth	24 bit	24 bit	16bit	16bit
Display Connection Bar	N/A	N/A	N/A	N/A
Local Resources				
Remote Sound	Disabled by default for View Manager USB	Disabled by default for View Manager USB	Yes	Yes
Apply Windows Keys	Yes	Yes	N/A	N/A
Printers	Yes	Yes	No	Yes
Clipboard	Yes	Yes	Yes	Yes
Smart Cards	Yes	Yes	No	No
Serial Ports	Yes	Yes	No	No
Local Drives	Yes	Yes	No	Yes
Supported Plug and Play Devices			No	No



View Client – Default RDP Settings

	View Manager Client Web Access Windows		View Manager Web Access Linux	View Manager Web Access MAC	
RDP Settings	RDC 5.x	RDC 6.x	rdesktop	RDC for Mac OS X 1.0	
Experience					
Desktop Background	Yes	Yes	N/A	Disabled	
Font Smoothing	N/A	Yes	N/A	N/A	
Desktop Composition	N/A	Yes	N/A	N/A	
Show Contents of Window While Dragging	Yes	Yes	N/A	Enabled	
Menu and Window Animation	Yes	Yes	N/A	Enabled	
Themes	Yes	Yes	N/A	Enabled	
Bitmap Caching	Yes	Yes	Yes	Enabled	
Reconnect if Connection is Dropped	No	No	N/A	No	



VMware View Connection Server

- > Directs incoming user requests to the appropriate virtual desktop
- > Provides virtual desktop management and user authentication
- > Runs as a Windows Service
 - VMware View Connection Server
 - VMware View Manager DS
- Supports integration with multiple VCenter instances for larger deployments
- > Non-Intrusive Active Directory integration





VMware View Security Server

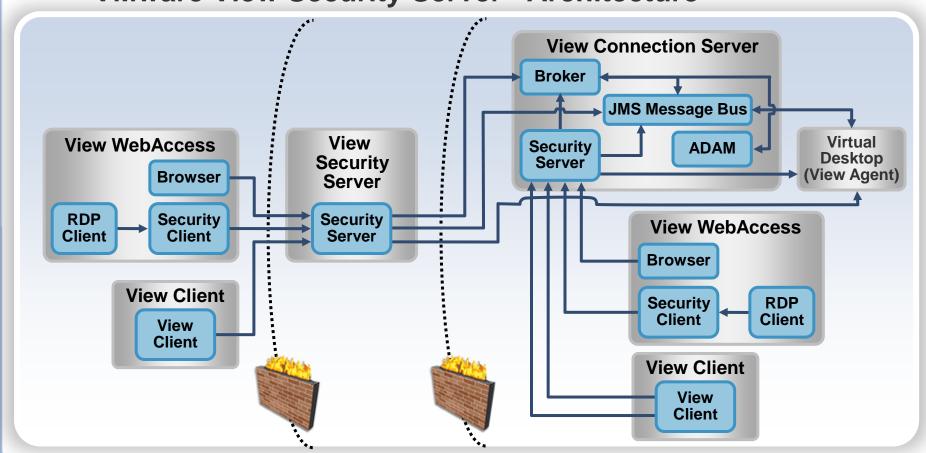
- Installed as part of the View Connection Server or individually, typically in a DMZ
- Provides SSL tunneling between the View Manager Client and the View Security Servers
- > Runs as a Windows Service
 - VMware View Security Server





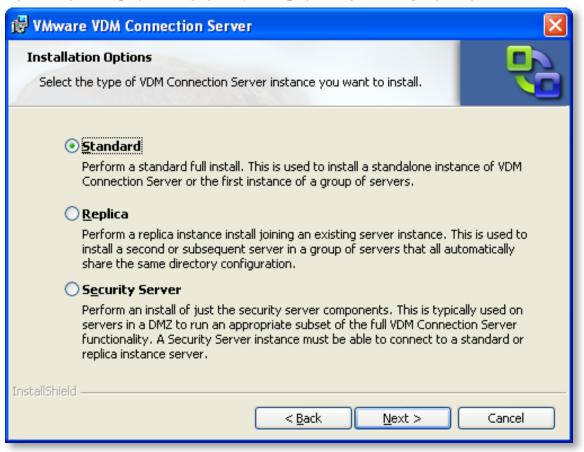


VMware View Security Server— Architecture





VMware View Connection Server Installer







View Administrator

VMware View Connection Server Installer

- > Single MSI installer Installs and configures
 - Standard View Connection Server
 - Replica View Connection Servers
 - Security Server
- > Standard / Replica Installations Include
 - SwiftMQ Used for JMS Bus
 - ADAM Used as a Data Store for broker communication and View Composer
 - Tomcat Used for Web Admin, WebAccess, Application Container
 - RSA SecurID Libraries Used to support RSA SecurID authentication
- > Security Server Installations Include
 - SwiftMQ Used for JMS Bus
 - Tomcat Used for Web Admin, WebAccess, Application Container
 - SecurID APIs Used to support RSA SecurID authentication



VMware View Manager Administration

VMware View Manager Administrator – Configuration

- > Web Based Administration
- > Configuration Settings
 - USB Redirection Global Policy
 - Tunneling Direct Connect to Virtual Desktop Global Setting
 - View Manager Servers Disable, Enable
 - View Manager Administrators
 - License Keys
 - VirtualCenter Servers
 - View Composer settings
 - Provisioning thresholds
 - Session Timeout
- Any configuration changes are replicated to each server

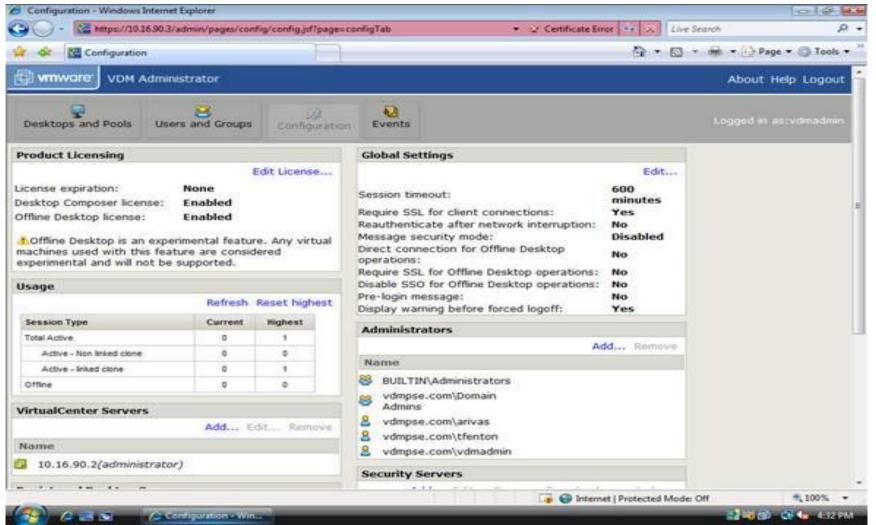


View Connection Server – Configuration

- > Manage Inventory
 - Create, Disable and Delete Individual Desktops
 - Create, Disable and Delete Desktop Pools
 - Manage Desktop Entitlements
 - Manage Control Policies
 - View, Disconnect, Reboot Active sessions
- > Event Viewer for viewing logs
- > Any configuration changes are replicated to each server

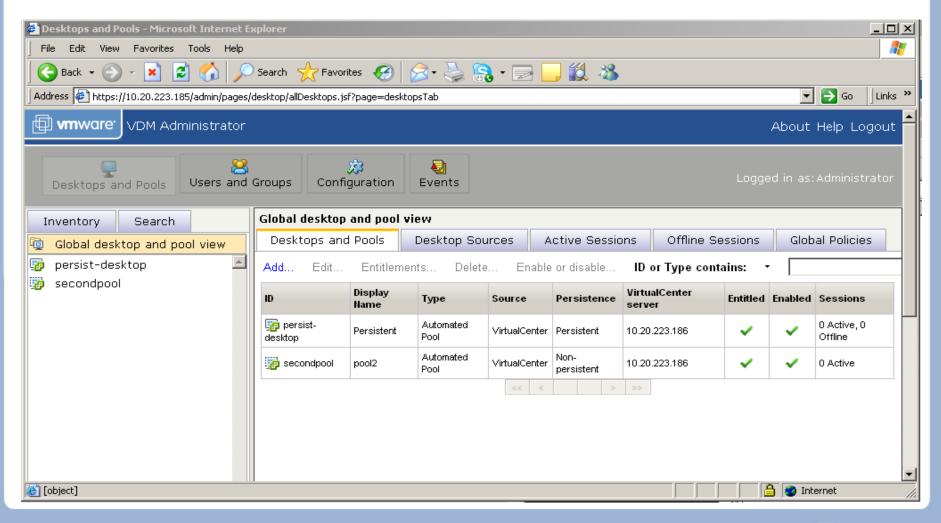


VMware View Manager- Configuration





VMware View Manager- Inventory





View Manager 3 Pool Types

Desktop Type	Persistence	Machine Configuration	Power Management	Template Deployment	Offline VDI
Automated Desktop Pool	Persistent	vCenter VM			
		Linked Clone			
	Non- persistent	vCenter VM			
		Linked Clone			
Manual Desktop Pool	Persistent	vCenter VM			
		Unmanaged			
	Non- persistent	vCenter VM			
	poroiocom	Unmanaged			
Individual Desktop	N/A	vCenter VM			
		Unmanaged			
Terminal Services Pool	N/A	N/A			



View Manager 3 Pool Types

Desktop Type	Persistence	Machine Configuration	Use Case		
Automated Desktop Pool	Persistent	vCenter VM	Users need similar capabilities but may customize their desktops over time.		
		Linked Clone	dustomize their desktops over time.		
	Non- persistent	vCenter VM	Users are provided with a standard desktop every time they access their system.		
		Linked Clone	every time they access their system.		
Manual Desktop Pool	Persistent	vCenter VM	Thirdparty deployment tool or a group of physical machines for the desktop sources.		
		Unmanaged	physical machines for the desktop sources		
	Non- persistent	vCenter VM			
		Unmanaged			
Individual Desktop	N/A	vCenter VM	Minimise licenses for an expensive application, user may need to heavily		
		Unmanaged	customize their desktop.		
Terminal Services Pool	N/A	N/A	Existing terminal services infrastructure.		



Advanced Pool Configuration Settings

- > Overrides Standard Settings
- Maximum Number of Virtual Machines:
 - Maximum number of VMs that can be created in the pool
- > Minimum:
 - Minimum number of VMs initially created in the pool
- > Available VMs:
 - Number of virtual machines that should always be available, powered-on



Pool Configuration and Policies – Cont.

- > vCenter Server: VC server that will manage the virtual machines
- > Template: Template from VC used to create the virtual desktops in a pool
- Folder Location: Location in VC where the virtual machines are organized
- Host or Cluster: ESX host or Cluster that will run the virtual machine
- Resource Pool: Resource pool from which the virtual machine will get compute resources
- Datastore: Location where the virtual machine files will be stored
- Suest Customization: Instance customization file used to customize the virtual machine during creation. – Optional

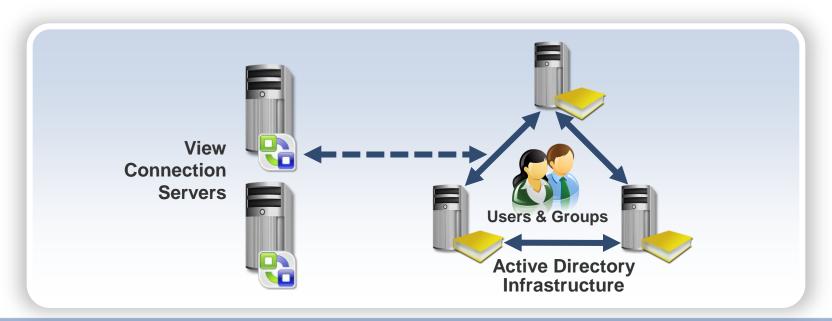


Datastore Spanning

- > Pools can span multiple datastores for increase capacity and better management
- > Pools use a "most storage available" algorithm
- If datastores have equal amounts of available storage roundrobin is used

Desktop Entitlement

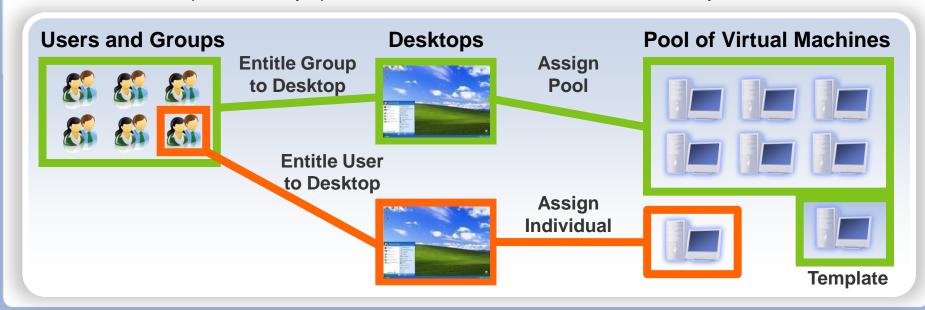
- Individual Desktops and Pools must be entitled by User or Group before they are accessible
- > Users and Groups are still managed using Active Directory
- > View Connection Server searches AD for Users and Groups
- > Supports cross-domain, forest searches





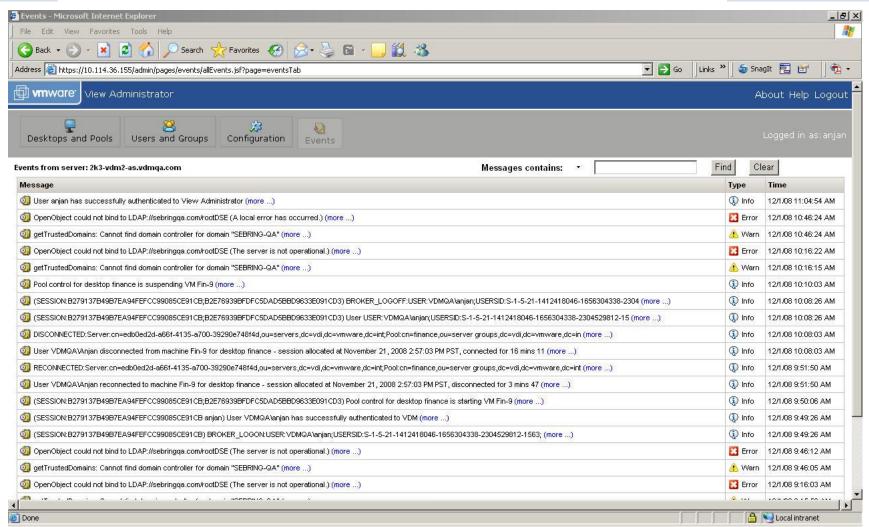
Desktop Entitlement – Cont.

- Entitlement configurations are stored in the View Connection Server datastore (ADAM)
- Configuration is replicated to all View Connection Servers in a group
- > Users (and Groups) can be entitled to Individual Desktops and Pools





VMware View Administrator - Events





Tunneled Connections to the Desktop

- > View Manager Client connection request is made
- Tunnel is established between View Manager Client and Connection Server
- > View Connection Server responds with a desktop allocation
- View Manager Client connects with the virtual desktop using RDP
- > Sessions are encrypted using SSL
- > If a View Connection Server fails users are connected with their existing virtual desktop session after reconnecting





Direct Connect to Desktop

- > View Manager Client connection request is established
- > View Connection Server responds with a desktop allocation
- View Manager Client connects directly with the virtual desktop using RDP
- If a View Connection Server fails, sessions are not interrupted





View Manager: Integration with Existing Infrastructure

Active Directory (AD):

- User credentials authenticated against Active Directory
- View Connection Server maintains authenticated session for each user
- > 'Single sign-on' (SSO) to virtual desktops

Benefits of AD Integration:

- Integrated with multiple domain environments and trust relationships (out the box)
- > No user data-replication required

RSA SecurID:

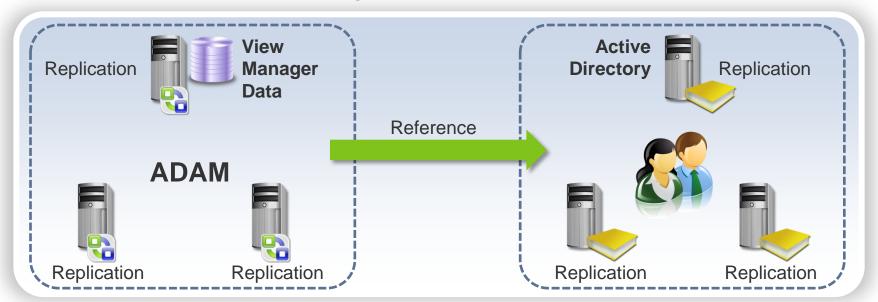
Optional integration with SecurID for two-factor authentication





ADAM – Active Directory Application Mode

- > View Manager 3 Connection Servers Store configuration data in (ADAM):
- > Free and re-distributable from Microsoft (bundled with VMware View Manager);
- > Flexible LDAP directory, based on Active Directory (AD) technologies;
- > ADAM instances are configured in multi-master mode

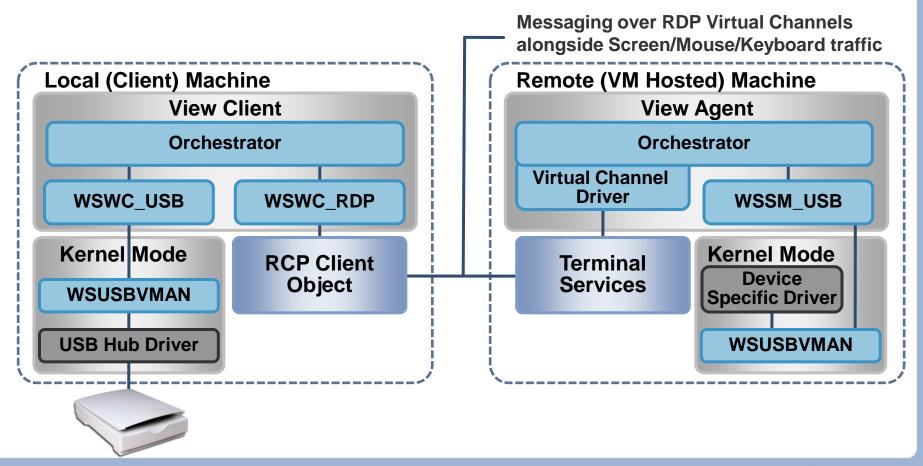






USB and Multimedia Redirection

USB Device Redirection – Architecture





VMware View Manager Features

USB Device Redirection – Requirements

- > VMware View Manager Agent
 - Installs USB redirection driver in the VM
- > VMware View Manager Client
 - Used to establish connection with virtual desktop
 - Installs the USB redirection driver on the client
- > Requires user have admin privileges to install
- > User does not need admin privileges to run
- > Supports standard USB devices
 - Mass Storage
 - Printers
 - Scanners
 - Smart Card Readers (Gemalco, ActiveIdentity only)
 - Most PDA devices e.g. Blackberry, Palm, Windows Embedded



Multimedia Redirection (MMR)

- > Multimedia Redirection:
 - Multimedia stream decoded at client
 - Better user experience
 - Min impact on servers, bandwidth consumed
 - Win XP, Win XPe clients supported
- > Windows XP Client support only
- Recommend Windows Media Player 10 or Higher on both Client and Virtual Machine
- > Supported Media Formats MPEG-1, MPEG-2, MPEG-4-part2,
- > WMV 7/8/9, WMA, AC3, MP3





View Manager Group Policy Objects

View Manager Group Policy Objects

View Manager Group Policy objects allow an administrator to centrally control common View Manager Agent, Client, Server and User settings using Microsoft Active Directory

Agent Settings

- Log Configuration
- Allow Direct RDP
- Allow single sign-on
- View Manager Connection Ticket Timeout
- Connect Using DNS Name
- Enable Extended Logging
- > Disk threshold

Client Settings

- Log Configuration
- View Manager Server URL
- View Manager logon User Name
- View Manager Logon Domain Name
- View Manager Logon Password
- Desktop Layout
- Desktop Name to select
- > Suppress Error messages
- Security Settings
- Enable Extended Logging
- Disk Threshold for log events



View Manager Group Policy Objects

View Manager Group Policy objects allow an administrator to centrally control common View Manager Agent, Client, Server and User settings using Microsoft Active Directory

User Settings

- View Manager Server URL
- View Manager logon User Name
- View Manager Logon Domain Name
- View Manager Logon Password
- Desktop Name to Select
- Desktop Layout
- Suppress Error Messages

User RDP Settings

All of the common and advanced RDP client settings can be configured using the View Manager Group Policy Objects



View Manager Group Policy Objects

View Manager Group Policy objects allow an administrator to centrally control common View Manager Agent, Client, Server and User settings using Microsoft Active Directory

Server Settings

- Log Configuration
- > Enable Extended Logging
- Disk threshold

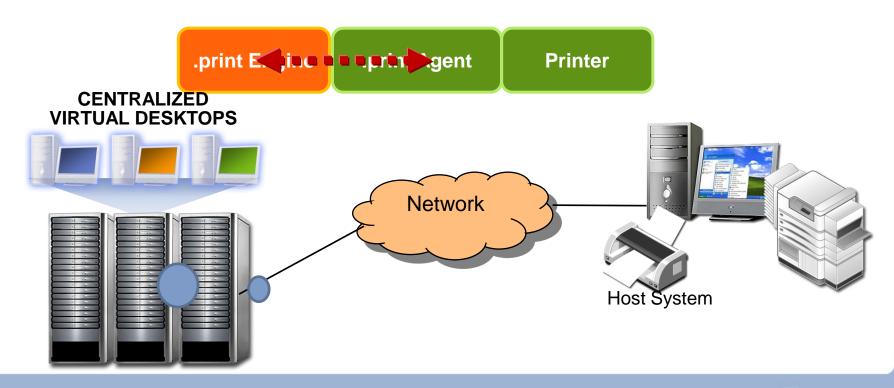




Virtual Printing

Virtual Printing

Provides driver-free printing





What is Virtual Printing

- > Installed on client (host) via VMware view client
- > On the client (host), .print is responsible for:
 - Receiving print data
 - Decompressing and decrypting it
 - Converts the common data format into printer-specific formats
 - Sending it to the print device



Virtual Printing



Virtual Printing Engine

- > Server Component is installed on desktop VM
 - VMware Tools
 - VMware Agent
- > The .print Engine on the client performs the following main functions:
 - Converts the print data to a "common" data format print data
 - Compression and Encryption for print data

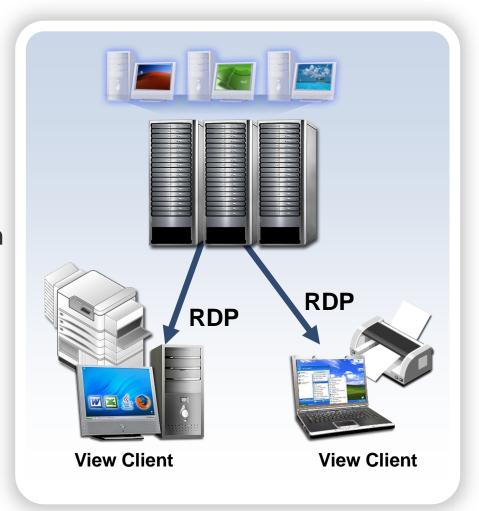


Virtual Printing



Virtual Printing—Summary

- Driver Free Printing: No Installation and Maintenance of printer drivers on Virtual Desktops
- All necessary printers automatically available
- Minimize network utilization up to 98% with advanced print stream compression
 - High quality printing even over WAN connections







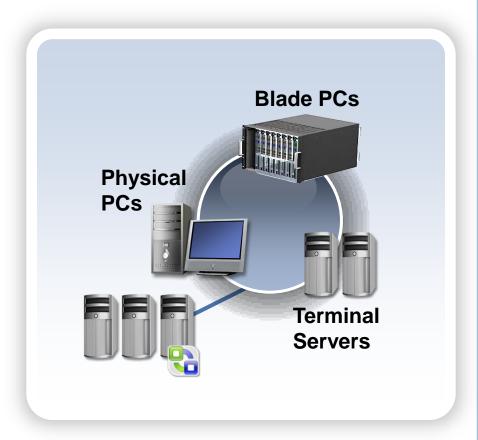
Challenge: Unified Access

- Customers want to leverage existing Terminal Services and physical desktops
- > End user access mechanisms differ based on the backend platform leading to end user training issues
- > Blade PC deployments are a niche use case of high end graphics applications and security requirements





- Leverage View Manager's secure connection brokering capability for other platforms accessible by RDP
 - Terminal Servers
 - Blade PCs
 - Physical PCs
- Load Balancing of multiple Terminal Servers
- Monitoring and auditing within View Manager





Prerequisites

Backend System must ...

- > Be reachable by View Manager and agent installed
 - Agent prompts the user for its View Manager connection server
- > Have RDP enabled on the server and user settings
- > OS supported by View Manager 3.0
- > Be in same or a trusted domain as View Manager to enable single sign-on

Note:

- USB redirection is supported on physical PCs but not on TS
- > MMR redirection is not supported although it may work fine



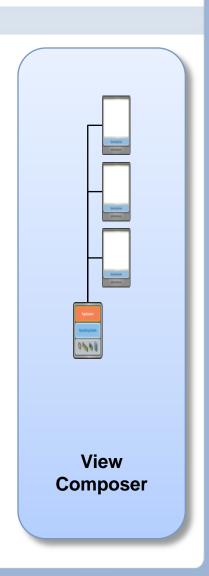




View Composer

What is View Composer

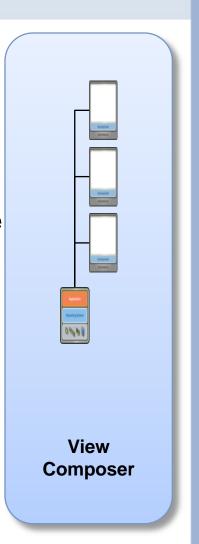
- > New software product that:
 - Provides desktop image management
 - Enables significant storage savings using linked clone technology





View Composer- Benefits

- > Provides a storage-efficient alternative to full clone VMs
 - Efficiency can vary from 50% to 90% depending on various factors
- Provides the admin ability to redirect folders to a separate user disk
 - OS disk could be C: while all "user data: could be available on D: Also known as the "User Data Disk"
- > Allows rapid provisioning/deployment of desktops
 - Cloning a VM could take anywhere between 5–10 min compared to a few seconds with View Composer





View Composer: Linked Clone Technology

- > A linked clone is a thin copy of the original virtual machine that shares the virtual disk with the base virtual machine in an ongoing manner
 - Base virtual disk is called replica
- Linked clones are given separate identity created with QuickPrep
 - Clones can be powered on, suspended, snapshot, reconfigured independent of the parent
- Optionally, clones can have additional private disks called user data disk





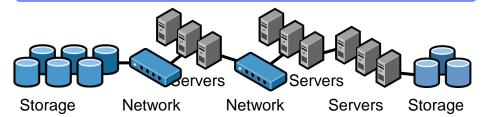
View Composer will create a replica of your source VM to use as a master per LUN





Parent

Virtual Infrastructure



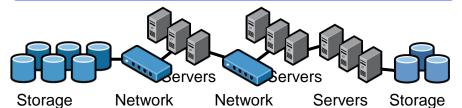


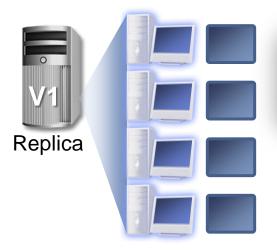
This replica creates linked clones and joins them to the domain using QuickPrep



Parent

Virtual Infrastructure



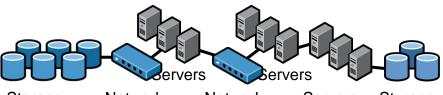


Profiles are stored as user personality disks, created on first logon if necessary



Parent

Virtual Infrastructure



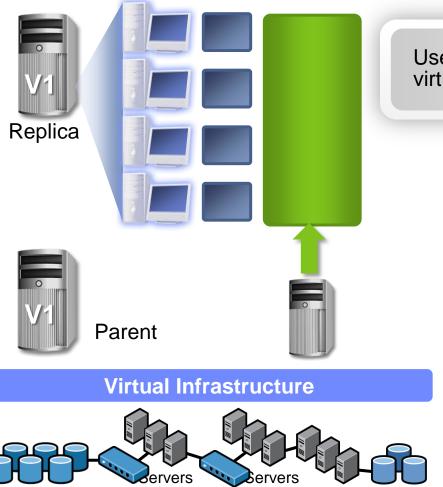
Storage

Network

Network

Servers

Storage



Network

Servers

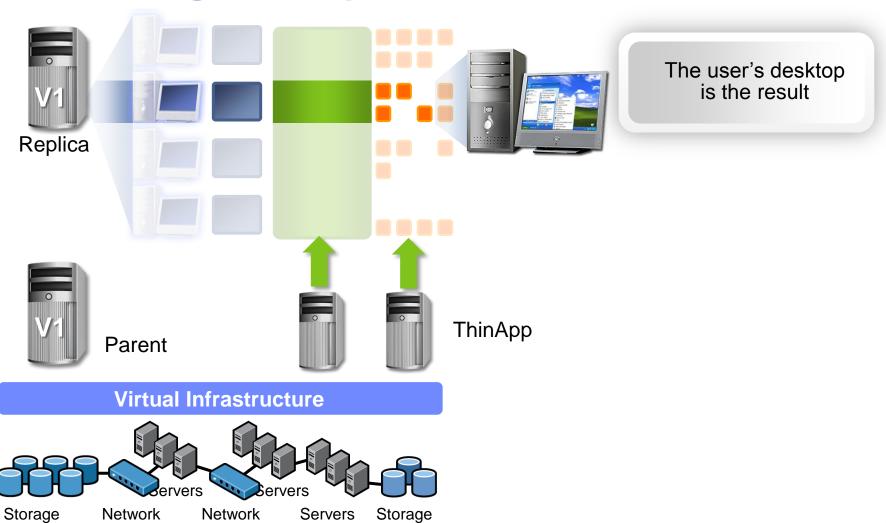
Storage

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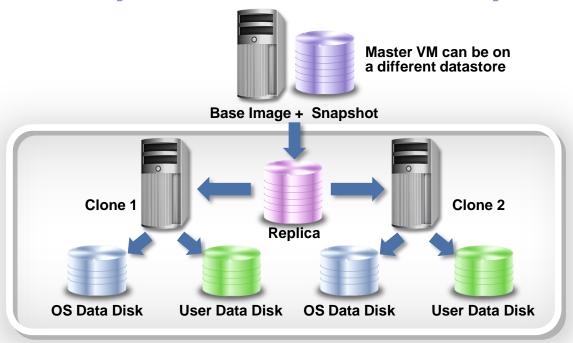
Network

User data is stored on virtualized file servers





View Composer: Parent and Replica



- Replica is a full clone created from the parent (Master VM) image
- The Master VM can be updated or replaced without affecting the replica
- The replica is a protected entity within VirtualCenter



View Composer: Image Management

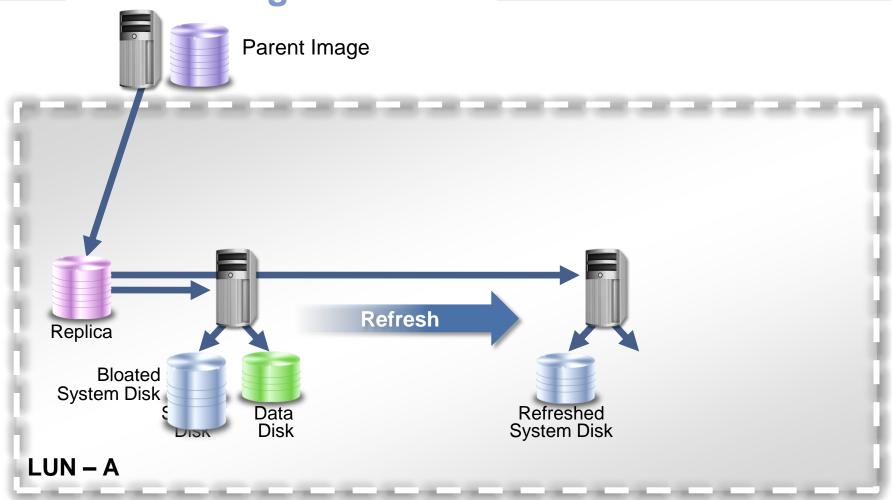
- > Provides three main techniques
 - Refresh Clean desktop back to default
 - Recompose Migrate existing desktops from one system version to the other
 - Re-Balance Re-locate desktops to enable efficient usage of the storage available

Examples:

- Add more storage as you run out of the existing space
- Retire existing storage array



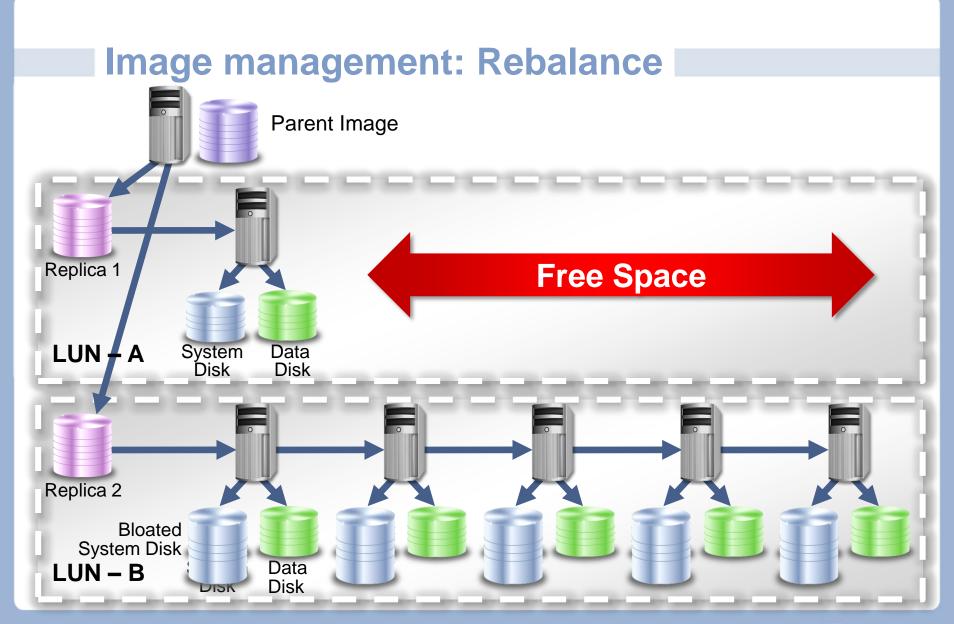
View Manager: Refresh





View Composer: Re-Compose Parent Image e.g. XP SP2 New Parent Image e.g. XP SP3 **Re-Compose** Replica 1 Replica 2 System Disk Data Disk New OS System Disk LUN - A







After Rebalance Parent Image Replica 1 System Disk LUN Data Disk Replica 2 **Bloated** System Disk Data Disk LUN - B



Deployment Considerations

- > Keep # of VMs per LUN under 64 for best performance
 - VI 3.5 U3 is a minimum requirement
- > Each desktop can only have one user data disk
 - No option to add another if the one assigned gets full
- > Keep the system disk from growing too big
 - Updates directly to linked clone system disk can potentially grow them to a large size, causing inefficiency
- > View Composer supports max of 8 hosts in a cluster
 - SAN is needed to supported View composer in a ESX cluster, it will not work on local disk



Deployment Considerations (2)

- Available storage needs to be managed regularly by storage administrator
 - 95% + storage can result in loss of performance and desktops
- > Can use either View Composer for storage reduction or use similar technologies such as EMC snap or Netapp Flexclones
 - Manual process to register them in View Manager
 - Cannot leverage automatic pool sizing





ThinApp

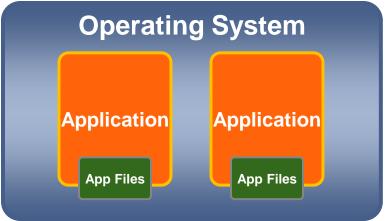
ThinApp: Application Management through Virtualization

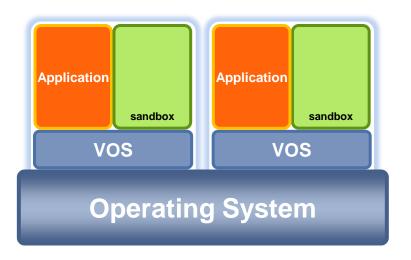
Features

- Decouples applications & data from OS
- > Agent-less architecture
- > Wide platform and application support
- Plugs into existing Application Management tools

Benefits

- > Reduces Storage Costs
- Minimizes desktop images to be managed
- > Streamlines application patch updates
- Allows multiple versions of applications to be used

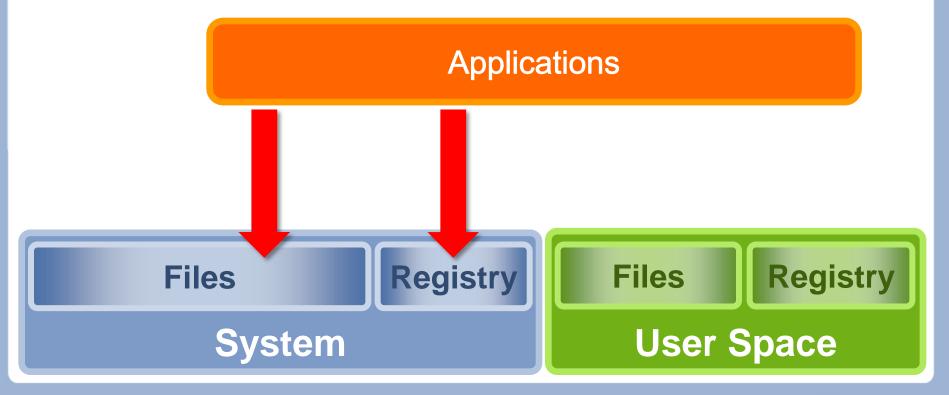






Many Applications Write to the "System"

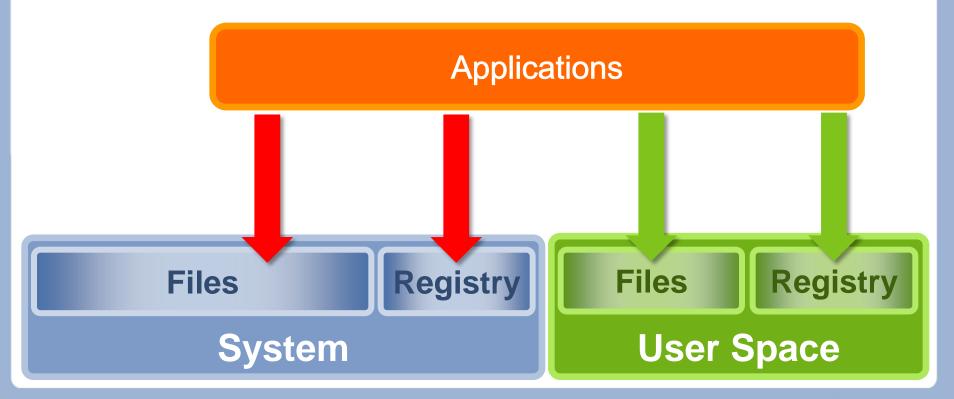
Applications get installed because they need to write to the "system".





User Space Content

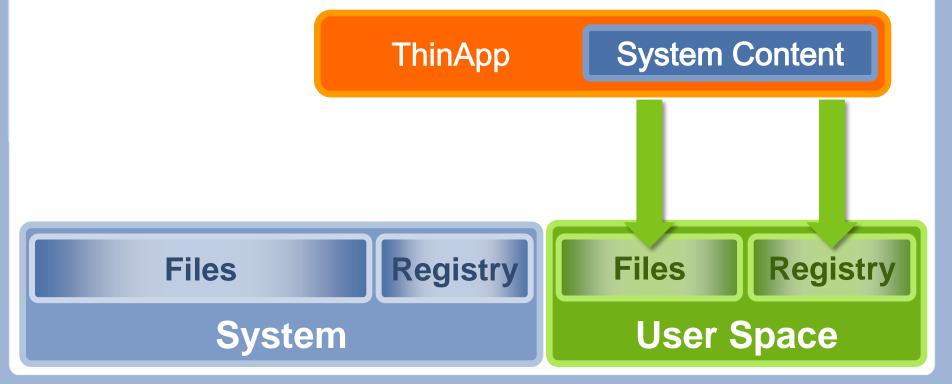
User Space changes can follow the user through profiles.





ThinApp Packages Include Dependencies

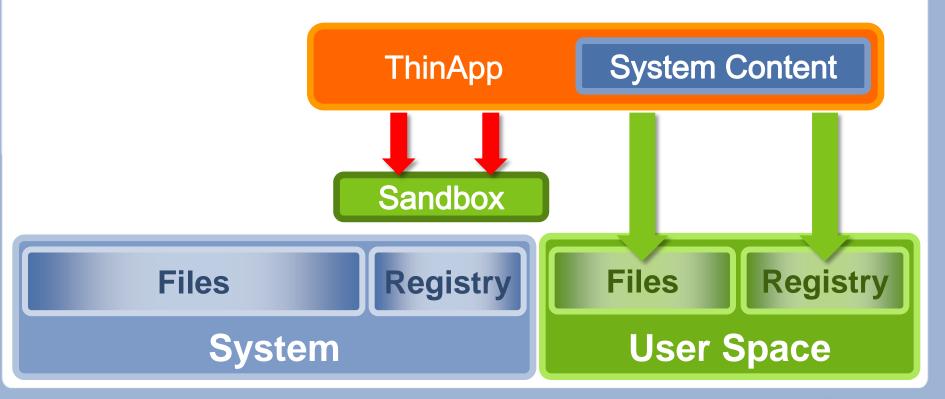
A ThinApp package contains all of the System content that it needs.





ThinApp Blocks System Changes

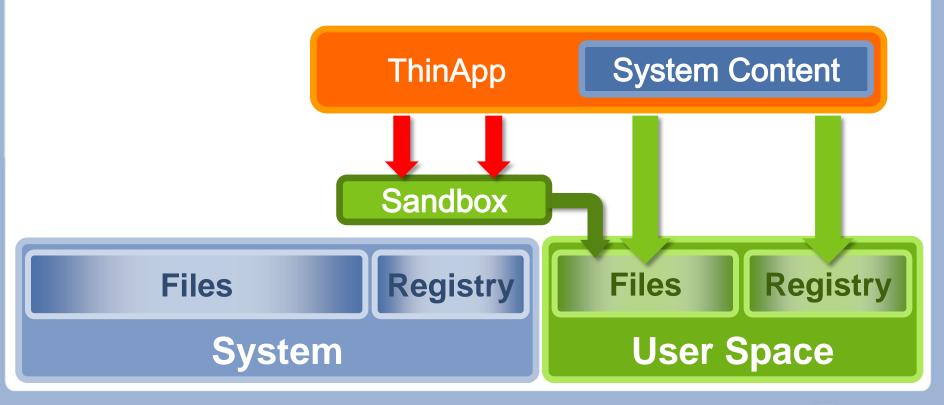
If it tries to make system changes, ThinApp captures them into the sandbox..





ThinApp Blocks System Changes

And we store the sandbox in the profile where it can follow the user.







Offline Desktop (Experimental)

Offline Desktop

A segment of VDI end-users require occasional offline access to virtual desktops

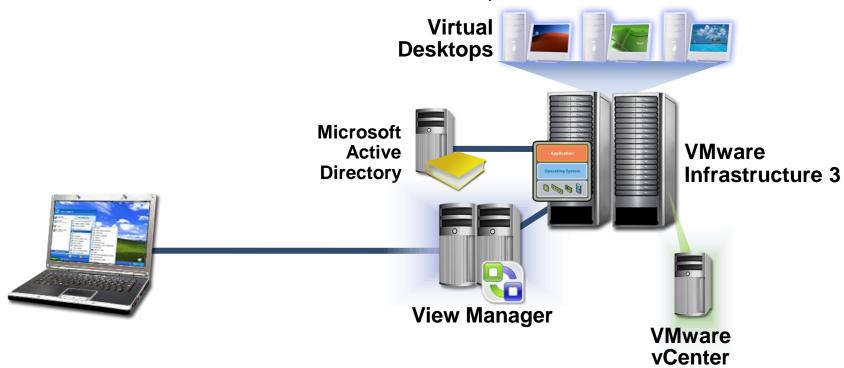
- > For some users, there is a significant conceptual and practical roadblock to solutions that mandate an "always on" high-speed internet connection to do work.
- > Any delivery of data to a physical device should extend the administrator-defined security levels and policies to the physical device.
- > For long segment, high latency environments, protocol may never be enough to provide a full user experience.





Offline Desktop

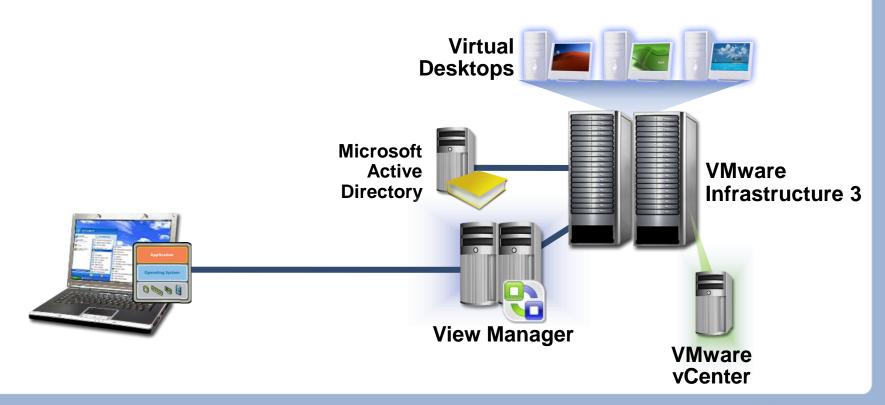
- > Offline Desktop enables designated end-users to relocate their View Virtual Machines to a local physical computer and back.
- > Enables administrators to extend the security and encryption policies of the data center to the end-users local computer.





Offline Desktop

- > When checked out the virtual machine has a "heartbeat" back to the datacenter allow administrators to deactivate when necessary.
- > When the user returns to the office, only the delta is checked in.





Offline Desktop: Check Out Overview

A check out operation is a client initiated operation that ends with a local copy of a online desktop on the enduser's machine

A user can check out:

- When they are connected and have authenticated to View Manager at least once
- > Desktop is allowed for offline access policy setting
- > When that desktop is not currently checked out



Offline Desktop: Check In Overview

A check in operation is a client initiated operation that pushes changes made to a previously checked out desktop up to the datacenter

A user can check in:

- When they are connected and have authenticated to View Manager
- > When they have an open offline session on their client device and the desktop remains entitled for offline usage



Offline Desktop: Supported Desktops

- > Online desktop must be managed by vCenter
- Currently View Composer based desktop not a option for checkout
- Must be in an Individual Desktop or be in a persistent desktop pool
- ThinApp applications stored on a shared network drive will not be checked out



View Client with Offline

- > The first time a user downloads an online desktop
 - User specifies location of VM on local disk
 - Location of VM can not be changed on local disk
 - Download progress is indicated by Universal Client
 - Download can be paused or canceled
- Once the Download has finished the online desktop the online desktop is locked
- > All user access is through the offline machine until the lock is released



Offline Desktop Policies

Policy	Values
Check out	Allow or Deny Pool- and user-level policies may also Inherit the default setting from their parent
User Rollback	Allow or Deny Pool- and user-level policies may also Inherit their default settings from their parent
Cache Lifetime	Inherit or Set. When Set is selected you can then enter the lifetime of the cache in Days, Hours, or Minutes in the field provided. The global cache lifetime policy can be modified in the same way and starts with a default of 7 days

Note: You can only override the upper level policy if lower level policy is more restrictive



Deployment Considerations

- > First check out will be substantially longer then sub-sequent check-outs
- > You can disable tunneling to speed up down/up loads
 - Configuration → Direct connection for Offline Desktop operations
- You can encrypt communication and data transfer between offline desktop and View Connection Server
 - Configuration → Require SSL for Offline Desktop operations
- > Data on offline desktop will **ALWAYS** be encrypted

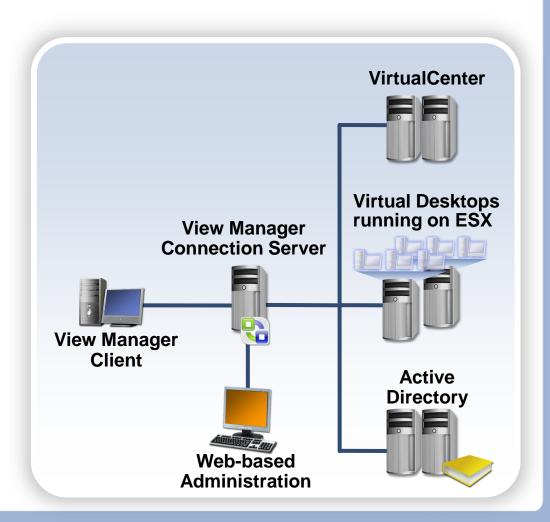




Deployment Scenarios

Single View Manager Connection Server Deployment

- Useful for smaller deployments, POCs or testing
- View Connection Server is installed as a Standard



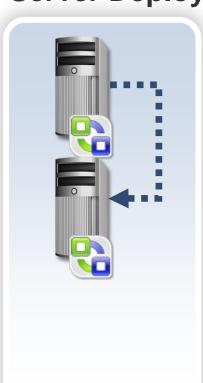


Multi-Server View Manager Connection Server Deployments

- > Avoids single points of failure
- Each View Manager Server can run as a standalone if others in a group fail.
- > Horizontally Scales to support large numbers of virtual desktops
- > Scaling and load balancing supported using third party solutions
- The group of View Connection Servers work together sharing the same replicated configuration through ADAM directory services
- > Changes to data on any server are replicated to all others

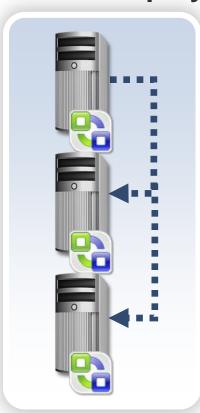


Multi-Server View Manager Connection Server Deployments



- First View Connection Server is installed as a standard
- Second View Manager Connection Server is installed as a replica. Datastore from the initial standard is replicated to the replica
- > Once operational, both are master servers
- Changes made on any server are automatically replicated to others

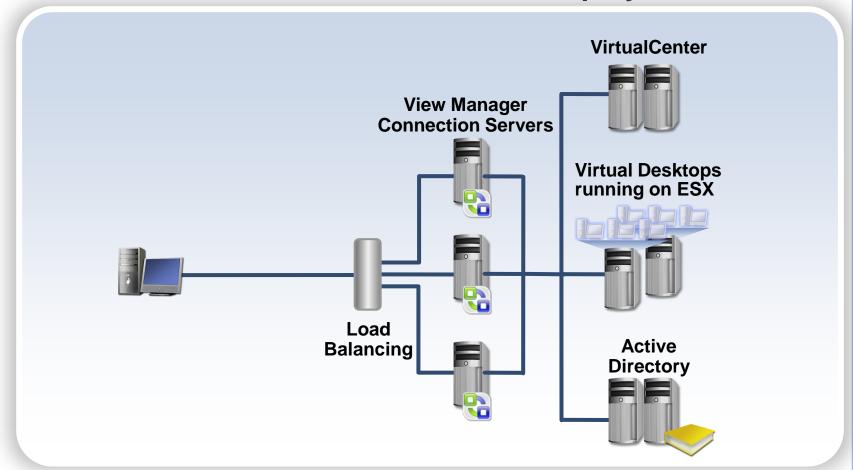
Multi-Server View Manager Connection Server Deployments



- First View Connection Server is installed as a standard
- Second View Connection Server is installed as a replica. Datastore from the initial standard is replicated to the replica
- > Once operational, both are master servers
- Changes made on any server are automatically replicated to others
- Subsequent replica servers can be installed for added scalability and redundancy. All servers in a group are masters



Multi-Server View Connection Server Deployment



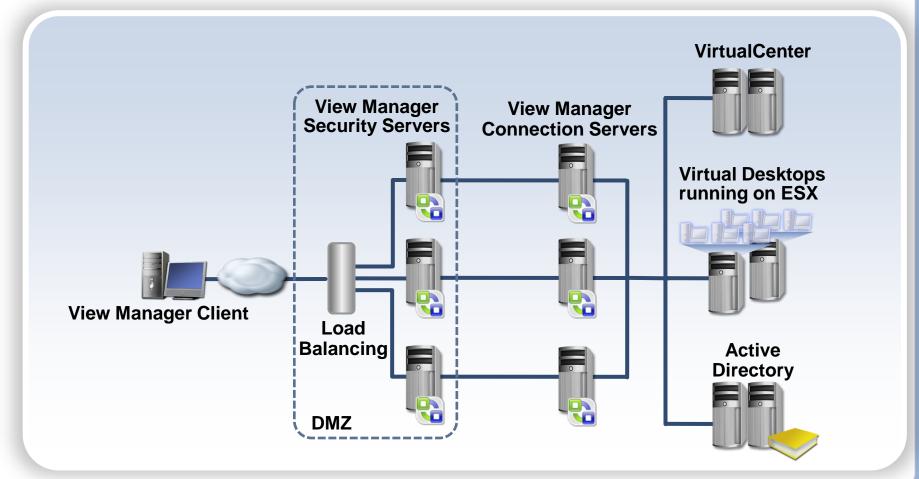


View Security Server- Remote Access

- Provides access to corporate VDI desktops from the Internet; View Security Server is deployed inside the DMZ
- Servers installed as a View Security Server. A subset of the full View Connection Server software is deployed inside the DMZ
- > Web server and secure (HTTPS) tunnel termination
- > Directory data is not installed inside the DMZ
- Security Server operates in a 1:1 relationship with a full View Connection Server instance located inside the trusted network
- In conjunction with DMZ firewall rules, a DMZ deployment ensures that only authenticated users can attempt connections with the desktops operating inside the trusted network
- View Security Servers should be load balanced inside the DMZ



View Connection Server – Remote Access





View Connection Server – Remote Access

Outer firewall – Rules – Example								
Source	Protocol	Port	Destination	Notes				
Security Servers	TCP	443 (or 80)	Security Servers	443 (HTTPS) by default, 80 (HTTP) if SSL is disabled				

Inner firewall – Rules – Example							
Source	Protocol	Port	Destination	Notes			
Security Servers	TCP	8009	Related Connection Server	Forwarded web traffic (AJP)			
Security Servers	TCP	4001	Related Connection Server	JMS connection			
Security Servers	TCP	3389	Desktop VMs	Forwarded RDP traffic from client to desktop VMs.			

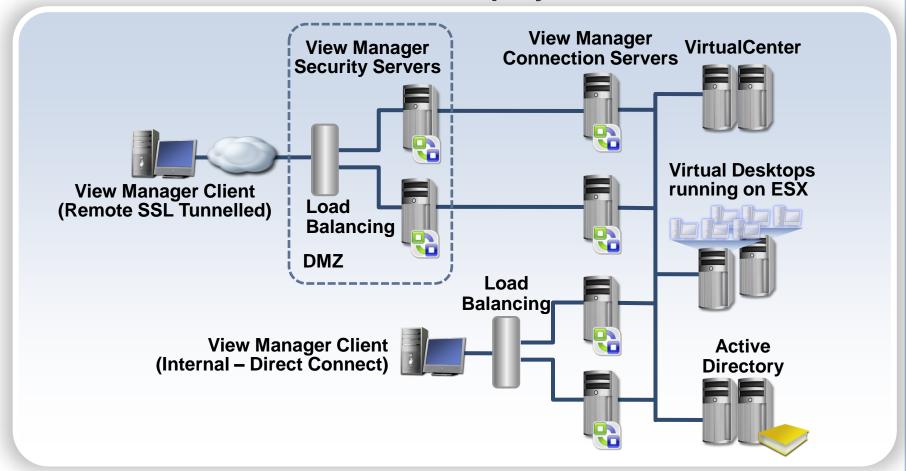


View Connection Server – Load Balancing

- > Provided by third party hardware and software load balancers
- Ensures load distribution of requests and sessions across View Connection Servers
- Ensures requests are properly routed to servers in the event of a failure
- View Connection Servers should be load balanced inside the LAN
- VMD Security Servers in the DMZ should be load balanced in the DMZ
- Solution Servers work together sharing the same replicated configuration through ADAM directory services
- > Changes to data on any server are replicated to all others



Multi-Server LAN and DMZ Deployment







Troubleshooting

Troubleshooting

Logs/Errors:

- View Connection Server Log Files C:\Documents and Settings\All Users\Application Data\VMware\View Manager\logs
- View Manager Client/Agent Logs C:\Documents and Settings\All Users\Application Data\VMware\View Manager\logs
- > Use the View Connection Server Events to monitor errors
- Check the Windows Event Viewer

Connectivity Issues:

- View Manager Administrator Make sure you using https: if SSL is enabled
- > Make Sure the View Connection Server service is running
- View Manager Client Make sure DNS and name resolution is working
 - Check the View Manager server to ensure desktops are available and registered
 - Try Connecting using the MSTSC client



Overview for VMware View

