

Reviewer's Guide for View in Horizon 6

VMware Horizon 6

WHITE PAPER

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Introduction

Welcome to the Reviewer's Guide for View in Horizon 6, a self-guided, hands-on review of View. The purpose of this guide is to familiarize you with the new features and capabilities in the context of use case scenarios so that you can evaluate both new and core capabilities.

Audience

The Reviewer's Guide for View in Horizon 6 is for prospective IT administrators and media reviewers of View. Some familiarity with VMware® technologies is assumed, including a basic knowledge of VMware vSphere® ESXi™ and VMware vCenter™ and how to configure networking and storage in a virtual environment.

What You Will Learn

This document provides step-by-step exercises to guide you through installation and setup of core and deployment scenarios. This guide is not intended as a substitute for product documentation. You can find more detailed information about installation, configuration, administration, and use of View in the VMware Horizon[™] with View documentation. You can consult the VMware Knowledge Base if you have additional questions. For more in-depth technical white papers, see Horizon with View resources.

Navigating This Document for Key Use Cases

You can navigate directly to descriptions of key use cases and then to the hands-on exercises:

- Installation Prerequisites
- Installing View Components
- Remote Desktop Session Host Configuration
- Configuring View
- Preparing Desktop Images for Linked-Clone Desktop Pool Deployment
- Preparing a Desktop Image for Full-Clone Desktop Pool Deployment
- Deploying View Desktops and Applications
- Entitling Users to View Desktops and Applications
- Connecting to View Desktops and Applications

Note: In this guide, the term desktop is used to mean a Windows OS-based PC that has been virtualized.

What Is Horizon 6 with View?

Horizon 6 with View (formerly Horizon View or VMware View) is a desktop virtualization solution that delivers virtual desktop services. It is available as a standalone offering—Horizon 6 with View Standard Edition—or as part of the VMware Horizon family in the Advanced and Enterprise editions. Where security and availability are both high priorities, you can use Horizon 6 with View to simplify and automate the management of desktops and securely deliver desktops as a service to users from a central location. A single administration console provides granular levels of control, allowing you to customize the end-user experience, access, and personalization to support corporate policy. End users get a familiar, personalized environment that they can access from any number of devices anywhere throughout the enterprise or from remote locations. And as an administrator, you have centralized control, efficiency, and security by having desktop data in the data center.

For more information about the different editions, see Packaging and Licensing.

What Is VMware Horizon?

Horizon is a family of desktop and application virtualization solutions, which provide a streamlined approach to deliver, protect, and manage Windows desktops and applications to the end user so they can work anytime, anywhere, on any device.

Key Features

Horizon 6 leverages desktop virtualization with View and builds on these capabilities, allowing IT to deliver virtualized and remoted desktop and applications through a single platform and supports users with access to all their Windows and online resources through one unified workspace.

Horizon 6 supports the following key functionalities.

- Desktops and Applications Delivered Through a Single Platform Deliver virtual or remoted desktops and applications through a single platform to streamline management and easily entitle end users.
- Unified Workspace Securely delivers desktops, applications, and online services to end users through a unified workspace, providing a consistent user experience across devices, locations, media, and connections.
- Closed Loop Management and Automation Consolidated control, delivery and protection of user compute resources with cloud analytics and automation, cloud orchestration and self-service features.
- Optimization with the Software-Defined Data Center Allocates resources dynamically with virtual storage, compute, and networking to manage and deliver desktop services on demand.
- Central Image Management Central image management for physical, virtual, and BYO devices.
- Hybrid-cloud flexibility Provides an architecture built for onsite and cloud-based deployment.

For more details, see VMware Horizon.

New Features

In the latest release, Horizon 6 supports the following new features and enhancements.

- Application Remoting RemoteApp enables administrators to make programs that are accessed remotely through a Remote Desktop Session (RDS) server appear as if they are running on the client computer versus a remote desktop.
- Virtual SAN Horizon 6 with VMware Virtual SAN™ is a new storage technology that automates storage provisioning and pools together with server-attached flash drives and hard disks and virtualizes them into reliable storage. Built into the vSphere platform, the technology offers greater performance while simplifying storage management. Virtual SAN eliminates the need to overprovision storage to ensure that end users have enough IOPS per desktop.
- Cloud pod architecture The cloud pod architecture allows organizations to dynamically move and locate View pods across multiple data centers for efficient management of end users across distributed locations.
- vDGA and vSGA 3D graphics enhancements 3D graphics capabilities are enhanced to augment a
 graphically rich user experience. Using Virtual Dedicated Graphics Acceleration (vDGA), a single virtual
 machine is mapped to one physical graphics processing unit (GPU) in the ESXi host, providing high-end,
 hardware-accelerated workstation graphics. Using Virtual Shared Graphics Acceleration (vSGA), multiple
 virtual machines leverage physical GPUs that are installed locally in ESXi hosts, providing hardwareaccelerated 3D graphics to multiple virtual desktops.
- Unity Touch enhancements Enhancements to VMware Unity Touch technology make it easier to connect to View Connection Server or a View security server, log in to remote desktops in the data center, and edit the list of connected servers. Unity Touch for VMware Horizon Client makes it easier to run Windows apps on iPhone, iPad, and Android devices.
- Additional OS support Horizon 6 with View offers Windows Server 2012 R2 OS for server components.

Sunsetted Features

View Client with Local Mode functionality, which allowed users to check out a virtual desktop and run it on a Windows physical computer while disconnected from the network, has been removed from Horizon 6.

Packaging and Licensing

Horizon 6 is available through the VMware Store and authorized VMware resellers and desktop competency partners and is offered in three editions, Standard, Advanced, and Enterprise. To find out what features are offered in each edition see Compare Horizon 6 (with View) Editions.

In addition to the Horizon 6 editions, VMware Mirage™, VMware ThinApp®, VMware Workspace™, vCenter Operations Manager™ for Horizon, and Virtual SAN Desktop are also available as standalone products.

The Horizon Standard Edition is licensed only on a per concurrent connection basis. The Horizon Advanced and Horizon Enterprise editions are available in two license models:

- **Per named user** For virtual environments with staff members who need dedicated access to a virtual machine throughout the day
- **Per concurrent connection** For virtual environments with a high number of users who share machines throughout the day, such as students and shift workers

Technical support for Horizon 6 is available at Basic (12x5) and Production (24x7) levels for all components in all editions, including vSphere, vCenter, and VMware View Manager[™]. You can also purchase Business Critical Support, which provides access to a dedicated account team who builds and maintains a profile of your View installation and provides regular account reviews. The VMware Professional Services Organization is also available for consultations or to deploy Horizon in your organization. For more information on technical support, see VMware Support.

For more information on packaging and licensing, see VMware Horizon Pricing.

Upgrades

If you are using an earlier version of Horizon with View (formerly VMware View) with a valid VMware Support and Subscription (SnS) contract, you are eligible to receive a complimentary upgrade to Horizon 6 Standard Edition. If you do not have a current SnS and want to reinstate your contract, contact VMware Support or see VMware Support.

If you have an earlier version of Horizon Suite, you can expand by buying Horizon 6 Enterprise Edition licenses. If you have an earlier version of Workspace, you can upgrade to the Horizon Advanced or Enterprise edition. If you have an earlier version of ThinApp, you can upgrade in a two-step process to either the Thin Client Suite or Horizon 6 Add-ons and then to Horizon Standard Edition. For more information, see Horizon View Purchasing.

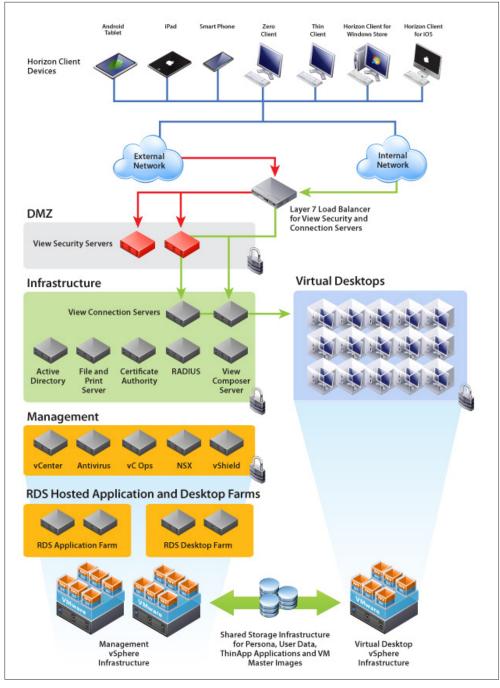
Architecture and Components

This section describes the components and VMware products that interact with View.

View Components

View includes seven main components:

- View Connection Server
- View Security Server
- View Composer Server
- View Agent
- Horizon Clients
- View Persona Management
- ThinApp



The diagram provides an architectural overview of a Horizon deployment and shows how the three main components, as well as multiple smaller components, work together to provide the virtual desktop infrastructure.

Figure 1: VMware Horizon with View Deployment and Components

View Connection Server

View Connection Server streamlines the management, provisioning, and deployment of virtual desktops. As an administrator, you can centrally manage thousands of virtual desktops from a single console. End users connect through View Connection Server to securely and easily access their personalized virtual desktops. View Connection Server acts as a broker for client connections by authenticating and directing incoming user desktop requests.

View Security Server

A View security server is an instance of View Connection Server that adds an additional layer of security between the Internet and your internal network. Outside the corporate firewall, in the DMZ, you can install and configure View Connection Server as a View security server. Security servers in the DMZ communicate with View Connection Servers inside the corporate firewall. Security servers ensure that the only remote desktop traffic that can enter the corporate data center is traffic on behalf of a strongly authenticated user. Users can only access the desktop resources for which they are authorized.

View Composer Server

View Composer Server is an optional service that enables you to manage pools of "like" desktops, called linkedclone desktops, by creating master images that share a common virtual disk. Linked-clone desktop images are one or more copies of a parent virtual machine that share the virtual disks of the parent, but which operate as individual virtual machines. Linked-clone desktop images can optimize your use of storage space and facilitate updates. You can make changes to a single master image through the vSphere Client. These changes trigger View Composer Server to apply the updates to all cloned user desktops that are linked to that master image, without affecting users' settings or persona data.

Note: Although View Composer Server is not required to run the standalone Horizon 6 edition, it is required to complete the **linked-clone exercises** in this guide.

View Agent

The View Agent service communicates between virtual machines and Horizon Client. You must install the View Agent service on all virtual machines managed by vCenter Server so that View Connection Server can communicate with them. View Agent also provides features such as connection monitoring, virtual printing, persona management, and access to locally connected USB devices. View Agent is installed in the guest operating system.

Horizon Clients

Horizon Clients are available for Windows, Mac, Ubuntu Linux, iOS, and Android to provide the connection to remote desktops from your device of choice.

By installing Horizon Client on each endpoint device, your end users can access their virtual desktops from devices such as smartphones, zero clients, thin clients, Windows PCs, Macs, and iOS- and Android-based mobile devices. Unity Touch for Horizon Clients makes it easier to run Windows apps on iPhone, iPad, and Android devices. Horizon Clients enable users to:

- Connect to View Connection Server or a View security server
- · Log in to their remote desktops in the data center
- Edit the list of servers they connect to

As a Horizon administrator, you can enable your end users to download Horizon Clients directly from the **Download Center**. Or you can control which Horizon Clients each end user can download and store the client installers on a local storage device using the Horizon Portal, the default landing page for View Connection Server. By default, links on the Horizon Portal connect users to the Download Center.

View Persona Management

View Persona Management is an optional component included with Horizon with View that provides persistent, dynamic user profiles across user sessions on different desktops. You can deploy pools of stateless, floating desktops and enable users to maintain their designated settings between sessions. User profile data is downloaded as needed to speed up login and logout time. New user settings are automatically sent to the user profile repository during desktop use. For deployment recommendations, see the View Persona Management Deployment Guide.

Figure 2 shows the View Persona repository in a View deployment and the location of the user profile (persona) on the remote desktop. View Persona Management is enabled as an option during View Agent installation on the virtual desktop.

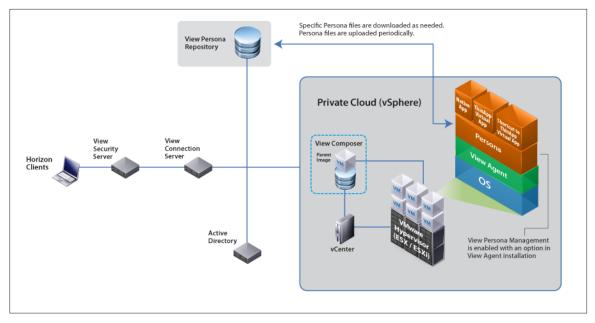


Figure 2: View Persona Management Architecture

ThinApp

ThinApp is an optional software component included with Horizon that creates virtualized applications. In a Horizon implementation, these virtual packages reside on a ThinApp repository in a network share. As an administrator, you can copy a full ThinApp package from the repository to the virtual desktop. You can also place a shortcut on the virtual desktop that points to the ThinApp package on the repository. Applications on remote desktops can be natively installed applications, ThinApp virtual applications, or shortcuts to ThinApp virtual applications. You can permanently copy a ThinApp virtual application to a remote desktop or add a shortcut that points to the virtual application on the ThinApp repository. As part of Horizon, ThinApp simplifies repetitive administrative tasks and reduces storage needs for virtual desktops by maintaining applications independent of the underlying OS.

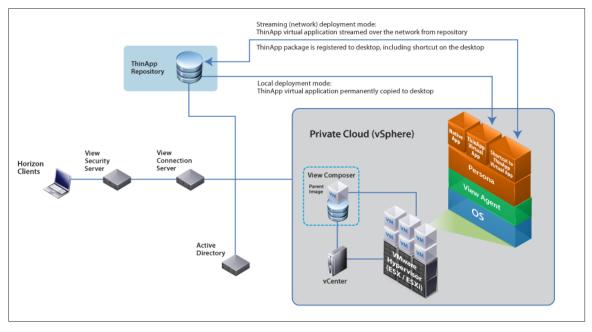


Figure 3 shows the two possible deployment modes for ThinApp (local and streaming) and the location of the ThinApp repository within the View architecture.

Figure 3: ThinApp Architecture in a Horizon with View Deployment

vCenter Operations Manager for Horizon

VMware vCenter Operations Manager for Horizon is an optional monitoring solution that extends the capability of vCenter Operations Manager Enterprise to monitor and manage the health, capacity, and performance of your View environments.

It consists of the following major components:

- An adapter that collects data from the desktop agents and sends it to vCenter Operations Manager
- A broker agent that collects View inventory information and sends it to the adapter
- Multiple desktop agents that collect desktop performance data and send it to the adapter

See also VMware vCenter Operations Manager for Horizon Documentation.

vSphere Platform

Designed for desktops, vSphere is a scalable platform for running virtual desktops and applications that offers business-continuity and disaster-recovery capabilities to protect desktop data and availability without the cost and complexity of traditional solutions. vSphere Desktop has all the key features of the VMware vSphere Enterprise Plus Edition™.

Included in vSphere Desktop is VMware vShield Endpoint[™], which offloads and centralizes antivirus and antimalware solutions to a hardened security virtual machine. The VMware endpoint security APIs access the file system to scan and remediate viruses, removing the need for agents in the guest operating system and preventing antivirus storms from consuming CPU cycles during scanning or antivirus update activities. Offloading antivirus functions provides enhanced security, because a malware attack often begins by disabling antivirus agents. For more information, see VMware vSphere Documentation.

vCenter Server

VMware vCenter Server[™] is the central management hub for vSphere and provides control over and visibility into clusters, hosts, virtual machines, storage, networking, and other critical elements of your virtual infrastructure. VMware vCenter provides management capabilities for your Horizon infrastructure. For more information, see VMware vCenter Server.

Hands-On Evaluation Exercises

This section provides hands-on exercises to help you evaluate the installation and use of your View instance.

The exercises cover the following topics:

- Installation Prerequisites
- Installing View Components
- Remote Desktop Session Host Configuration
- Configuring View
- Preparing Desktop Images for Linked-Clone Desktop Pool Deployment
- Preparing a Desktop Image for Full-Clone Desktop Pool Deployment
- Deploying View Desktops and Applications
- Entitling Users to View Desktops and Applications
- Connecting to View Desktops and Applications

The exercises are sequential and build upon one another, so make sure to complete each exercise in each section before moving on to the next.

Installation Prerequisites

This section describes the prerequisites and hardware, server, and installation minimum requirements and provides corresponding exercises to walk you through the installation of a basic View instance:

- Infrastructure Requirements
- Network Requirements
- Graphics Card
- Hardware Requirements
- Operating System Requirements
- Remote Desktop Session Host Requirements for App Remoting
- Create Virtual Machines for View Components
- Download the View Installer Files
- Complete the Prerequisite Worksheet
- Prepare ESXi Host for vSGA 3D Graphics (Optional)

Infrastructure Requirements

View ships as Windows-server-based installers that you install on virtual machines residing on a vSphere host. To take advantage of all the new features of this release, you must first install and configure vSphere and vCenter Server Appliance™ on your host. For up-to-date compatibility information, see VMware Product Interoperability Matrixes.

Make sure that your environment has the following prerequisites before your deploy View.

Active Directory Domain Controller

View integrates with your existing Microsoft Active Directory infrastructure. Active Directory is a Windows service for authenticating and authorizing users and computers, applying and enforcing security policies, installing and updating software, and more. View Connection Server joins to the existing Active Directory and sets up a lightweight directory services instance for the storage of View configuration information.

Gather the information in Table 2 before proceeding.

VIEW	CONFIGURATION INFORMATION
Server name of an Active Directory domain controller in the environment	
FQDN of an Active Directory domain controller in the environment	
Base DN username	
Base DN password	
Active Directory username with privileges to join computers to the domain	

Table 2: Active Directory Information for View Configuration

VMware vCenter Credentials

For a desktop deployment, you must connect to the vCenter host. Gather the information listed in Table 3.

VIEW CONNECTION SERVER	CONFIGURATION INFORMATION
vCenter host name FQDN	
vCenter port number	
vCenter administrator username	
vCenter administrator password	

 Table 3: View Connection Server Configuration Information

SSL Certificate

By default, View includes a self-signed certificate that can be used for testing purposes. For a production environment, we recommend that you replace the self-signed certificate with an approved certificate signed by a Certificate Authority.

SQL Database

View Composer Server requires a SQL database to store the connections and components of linked-clone desktops. Supported databases include:

- Microsoft SQL Server 2012 Standard or Enterprise SP1 (32- and 64-bit)
- Microsoft SQL Server 2012 Express (32- and 64-bit)
- Microsoft SQL Server 2008 Express R2 SP2 (64-bit)
- Microsoft SQL Server 2008 Standard or Enterprise R2 SP2 (32- and 64-bit)
- Microsoft SQL Server 2008 Standard, Enterprise, or Datacenter SP3 (32- and 64-bit)
- Oracle 10g Release 2 [10.2.0.4] Standard, Standard ONE, or Enterprise (32- and 64-bit)
- Oracle 11g Release 2 [11.2.0.3] Standard, Standard ONE, or Enterprise (32- and 64-bit)

Gather the database information in Table 4.

VIEW COMPOSER SERVER	CONFIGURATION INFORMATION
IP Address for database	
FQDN for database	
Database instance name	
Name of the newly created database specifically for View Composer Server data	
Name of the newly created database specifically for View events data	
Login credentials with database owner rights on the database	

 Table 4: Database Information for View Composer Server

File and Print Server

View Persona Management and ThinApp require a network file server for the storage of roaming persona data and ThinApp packages. Make sure that you have adequate storage allocated if you want to use these features.

Network Requirements

We recommend that you have at least 1Gbps network connectivity between all the required components and desktops.

Graphics Card

To use vSGA or vDGA from a View desktop, you must install a supported graphics card on your ESXi host. You must also download the ESXi vSphere Installation Bundle (VIB) driver file for vSGA from NVIDIA or the appropriate NVIDIA Windows drivers to use vDGA.

You get the ESXi 5.5 driver at http://www.nvidia.com/download/driverResults.aspx/69289/en-us.

The following GPUs are supported:

- NVIDIA Quadro 4000
- NVIDIA Quadro 5000
- NVIDIA Quadro 6000
- NVIDIA GRID K1
- NVIDIA GRID K2
- NVIDIA M2070Q

Additional cards may be supported in the future. Refer to NVIDIA for a full list of supported graphics cards.

This guide only covers how to deploy vSGA. To deploy vDGA, refer to the instructions in Graphics Acceleration in VMware Horizon View Virtual Desktops. It is recommended that you follow all the exercises in the guide to get your View environment fully configured before you set up a vDGA-enabled View desktop.

Remote Desktop Session Host Requirements for App Remoting

If you do not have an RDS host that is already configured, prepare a virtual desktop with Windows Server 2012 R2 installed and configure an RDS host using the Remote Desktop Session Host Configuration exercises. If you already have an RDS host configured, then you use it when configuring App Remoting in subsequent exercises.

Hardware Requirements

Table 5 shows the minimum and recommended hardware requirements for View components.

COMPONENT	VIRTUAL CPUs	RAM
View Connection Server	Minimum: 2 vCPUs Recommended: 4 vCPUs	Minimum: 4GB Recommended: 10GB
View Composer Server	Minimum: 2 vCPUs Recommended: 4 vCPUs	Minimum: 4GB Recommended: 8GB
View security server	Minimum: 2 vCPUs Recommended: 4 vCPUs	Minimum: 4GB Recommended: 10GB

Table 5: Hardware Requirements

Operating System Requirements

Table 6 shows the operating system requirements for a View deployment.

OPERATING SYSTEM	VERSION	EDITION	MINIMUM DISK SPACE
Windows Server 2008 R2	64-bit	Standard and Enterprise	40GB
Windows Server 2008 R2 SP1	64-bit	Standard and Enterprise	40GB
Windows Server 2012 R2	64-bit		40GB

Table 6: Operating System Requirements

Create Virtual Machines for View Components

You must create three virtual machines that meet the requirements listed in the previous tables, one for each View component:

- View Connection Server
- View security server
- View Composer Server

For each virtual machine, gather the information listed in Table 7.

VIEW CONNECTION SERVER	CONFIGURATION INFORMATION
Static IP Address configured	
Virtual machine joined to the domain	
Virtual machine host name FQDN in DNS with reverse lookup records defined	
Windows Firewall turned on	
VIEW SECURITY SERVER	CONFIGURATION INFORMATION
VIEW SECURITY SERVER Static IP Address configured	CONFIGURATION INFORMATION
	CONFIGURATION INFORMATION
Static IP Address configured	CONFIGURATION INFORMATION

VIEW COMPOSER SERVER	CONFIGURATION INFORMATION
Static IP Address configured	
Virtual machine joined to the domain	
Virtual machine host name FQDN in DNS with reverse lookup records defined	
Windows Firewall turned on (optional)	
ODBC driver installed for your database	

Table 7: Virtual Machine Information

Download the View Installer Files

The first step is to download the installation files and prepare them for installation. For the purposes of this exercise, a utility is used to create an ISO image with all the installers on it. Alternatively, you can upload the View installer files to a Network File Share that is accessible by the target virtual machines where you will install your View components.

- 1. Verify that you have at least 700MB of space to download the installers.
- 2. Go to VMware Downloads, and download the following installers:
 - View Connection Server (64-bit)
 - View Composer Server
 - View Agent (32-bit or 64-bit)
 - View Agent Direct Connect (32-bit or 64-bit)
 - View Client (32-bit or 64-bit)

When you have downloaded the installation files, proceed to the next exercise to gather component data.

Complete the Prerequisite Worksheet

Now that you have downloaded the View installer files, gather the data you need to set up your View instance.

1. Complete the component worksheet.

COMPONENT	HOST NAME	FQDN	IP	CREDENTIALS
View Connection Server				
View security server				
View Composer Server				
vCenter Server Appliance				

Table 8: Component Worksheet

2. Complete the database worksheet.

DATABASE	FQDN	IP	INSTANCE NAME	DATABASE NAME	CREDENTIALS FOR USER WITH DBO ACCESS: USERNAME/ PASSWORD
View Composer Server database					

Table 9: Database Worksheet

After you have gathered the data to set up your View instance, prepare the ESXi host for vSGA 3D graphics if you are using vSGA.

Prepare the ESXi Host for vSGA 3D Graphics (Optional)

This is an optional exercise if you plan on taking advantage of vSGA-enabled 3D graphics. You can complete the rest of the exercises if you skip this exercise.

Before beginning, make sure that you have a graphics card physically installed on your ESXi host and that the card is configured to work with your host. The VIB driver must be uploaded to a datastore accessible to your ESXi host.

Important: Installing a VIB driver and configuring the device requires that you reboot the ESXi host.

- 1. Upload the ESXi VIB driver file for your video card to a datastore on your ESXi host.
- 2. Prepare your host for the VIB installation and ESXi host reboot, and gracefully shut down all virtual machines and place the host in maintenance mode.
- 3. Use SSH to access your ESXi host console, and run the following command:

```
esxcli software vib install -v /vmfs/volumes/datastore/NVIDIA-VMware-
xxxxxxxx.x86 64.vib
```

When the installation of the VIB has completed, the results are displayed.

Installation Result

Message: Host is changed.

Reboot Required: true

VIBs Installed: NVIDIA_bootbank_NVIDIA-VMware_ESXiTM_5.1_Host_ Driver 304.59-10EM.510.0.0.802205

VIBs Removed:

VIBs Skipped:

Note: For additional information on installing ESXi VIB drivers, see Installing async drivers on ESXi™ 5.x.

4. Run the following command to verify that the VIB was installed.

esxcli software vib list

00	☆ becaute — ssh — 121×	:33			E
~ # esxcli software vib list					
Name	Version	Vendor	Acceptance Level	Install Date	
NVIDIA-VMware ESXi 5.1 Host Driver	304.59-10EM.510.0.0.802205	NVIDIA	VMwareAccepted	2013-02-13	
ata-pata-amd	0.3.10-3vmw.510.0.0.799733	VMware	VMwareCertified	2013-02-04	
ata-pata-atiixp	0.4.6-4vmw.510.0.0.799733	VMware	VMwareCertified	2013-02-04	
ata-pata-cmd64x	0.2.5-3vmw.510.0.0.799733	VMware	VMwareCertified	2013-02-04	
ata-pata-hpt3x2n	0.3.4-3vmw.510.0.0.799733	VMware	VMwareCertified	2013-02-04	
ata-pata-pdc2027x	1.0-3vmw.510.0.0.799733	VMware	VMwareCertified	2013-02-04	
ata-pata-serverworks	0.4.3-3vmw.510.0.0.799733	VMware	VMwareCertified	2013-02-04	
ata-pata-sil680	0.4.8-3vmw.510.0.0.799733	VMware	VMwareCertified	2013-02-04	
ata-pata-via	0.3.3-2vmw.510.0.0.799733	VMware	VMwareCertified	2013-02-04	
block-cciss	3.6.14-10vmw.510.0.0.799733	VMware	VMwareCertified	2013-02-04	
ehci-ehci-hcd	1.0-3vmw.510.0.0.799733	VMware	VMwareCertified	2013-02-04	
esx-base	5.1.0-0.5.838463	VMware	VMwareCertified	2013-02-04	
esx-dvfilter-generic-fastpath	5.1.0-0.0.799733	VMware	VMwareCertified	2013-02-04	
esx-tboot	5.1.0-0.0.799733	VMware	VMwareCertified	2013-02-04	
esx-xlibs	5.1.0-0.0.799733	VMware	VMwareCertified	2013-02-04	
esx-xserver	5.1.0-0.0.799733	VMware	VMwareCertified	2013-02-04	
ima-gla4xxx	2.01.31-1vmw.510.0.0.799733	VMware	VMwareCertified	2013-02-04	
ipmi-ipmi-devintf	39.1-4vmw.510.0.0.799733	VMware	VMwareCertified	2013-02-04	
ipmi-ipmi-msghandler	39.1-4vmw.510.0.0.799733	VMware	VMwareCertified	2013-02-04	
ipmi-ipmi-si-drv	39.1-4vmw.510.0.0.799733	VMware	VMwareCertified	2013-02-04	
misc-cnic-register	1.1-1vmw.510.0.0.799733	VMware	VMwareCertified	2013-02-04	
misc-drivers	5.1.0-0.0.799733	VMware	VMwareCertified	2013-02-04	
net-be2net	4.1.255.11-1vmw.510.0.0.799733	VMware	VMwareCertified	2013-02-04	
net-bnx2	2.0.15g.v50.11-7vmw.510.0.0.799733	VMware	VMwareCertified	2013-02-04	
net-bnx2x	1.61.15.v50.3-1vmw.510.0.0.799733	VMware	VMwareCertified	2013-02-04	
net-cnic	1.10.2j.v50.7-3vmw.510.0.0.799733	VMware	VMwareCertified	2013-02-04	
net-e1000	8.0.3.1-2vmw.510.0.0.799733	VMware	VMwareCertified	2013-02-04	
net-e1000e	1.1.2-3vmw.510.0.0.799733	VMware	VMwareCertified	2013-02-04	
net-enic	1.4.2.15a-1vmw.510.0.0.799733	VMware	VMwareCertified	2013-02-04	
net-forcedeth	0.61-2vmw.510.0.0.799733	VMware	VMwareCertified	2013-02-04	

- 5. Note the name of the VIB module. You need it later to verify that this driver loaded successfully.
- 6. Follow proper vSphere shutdown procedures, and then reboot your ESXi host from one of the following:
 - vSphere Client
 - Command line by typing reboot

Important: Do not reboot until you have followed proper vSphere shutdown procedures. After rebooting ESXi, connect to your host with the vSphere Client and initiate proper virtual machine power-on procedures to return your environment to the previous state.

- 7. When your host has powered back on, use SSH to access the ESXi console
- 8. Run the following command to verify that the driver modules can load successfully.

Esxcli system module load -module nameofmodule

For the further instructions or troubleshooting for configuring vSGA, see the Graphics Acceleration in VMware Horizon View Virtual Desktops guide.

You have completed the initial prerequisite exercises. You are now ready to install View.

Installing View Components

This section provides hands-on exercises to help you evaluate the installation process of the View components.

- Install View Connection Server
- Install a View security server
- Install View Composer Server

The exercises are sequential and build on one another, so make sure to complete each exercise in this section before going to the next.

Install View Connection Server

View Connection Server streamlines the management, provisioning, and deployment of virtual desktops. As an administrator, you can centrally manage thousands of virtual desktops from a single console.

1. Log in to the virtual machine that you prepared as the target for installing View Connection Server.

The virtual machine must meet the requirements detailed in the Installation Prerequisites.

- 2. Verify that the 64-bit View Connection Server installer is accessible by the operating system of the target virtual machine.
- 3. Launch and load the View Connection Server installer.

Reycle Bin	vmware VMware Horizon* View Connection Serve	r
- 2 3	4	VMware Product Installation Preparing VMware Hoton Vew Connection Server for Installation Cancel dard Build 9600 Cancel

4. When the installer finishes loading, click Next.



5. Review the license agreement, accept the terms and conditions, and then click **Next**.

ø	VMware Horizon View Connection Server	x
	greement 📮	7
Please re	ad the following license agreement carefully.	
	VMWARE END USER LICENSE AGREEMENT	^
GOVERN Y APPEAR D IMPORTAN THE SOFT BOUND BY	OTE THAT THE TERMS OF THIS END USER LICENSE AGREEMENT SHALL OUR USE OF THE SOFTWARE, REGARDLESS OF ANY TERMS THAT MAY URING THE INSTALLATION OF THE SOFTWARE. IT-READ CAREFULLY: BY DOWNLOADING, INSTALLING, OR USING WARE, YOU (THE INDIVIDUAL OR LEGAL ENTITY) AGREE TO BE Y THE TERMS OF THIS END USER LICENSE AGREEMENT ("EULA"). IF OT ACREE TO THE TERMS OF THIS FULLA, YOU MUST NOT	~
	he terms in the license agreement accept the terms in the license agreement	
	< Back Next > Cancel	

6. Choose where you want to install View Connection Server, and then click **Next**.

ø	VMware Horizon View Connection Server
	tion Folder ext to install to this folder, or dick Change to install to a different folder.
	Install VMware Horizon View Connection Server to: C:\Program Files\VMware\VMware View\Server\ Change
	< Back Next > Cancel

7. Select View Standard Server, select the Install HTML Access option, and then click Next.

il and a second	VMware H	orizon View Conne	ction Server	×
	tion Options the type of View Connect	ion Server instance you w	ant to install.	6
View St View Re	he type of View Connect andard Server eplica Server ecurity Server	ion Server instance you w	ant to install.	
		his is used to install a stan stance of a group of serve		View
		< Back	Next >	Cancel

8. Create a password to protect data backups, and then click **Next**.

y	VMware Horizon	View Conne	ction Server	
Data Rec	overy			
Enter da	ta recovery password details.			1
	ord protects data backups of yo try of this password.	ur View Connectio	n Server. Recoveri	ng a backup will
Enter d	ata recovery password:	•••••	•	
Re-ent	er password:	••••••		
Enter p	assword reminder (optional):	reminder		

9. Choose whether to configure Windows Firewall automatically, and then click Next.

副	VMware Horizon View Connection Server
	Configuration tically configure the Windows Firewall to allow incoming TCP protocol ions.
must be the Sta (JMSIR	er for View Connection Server to operate on a network, specific incoming TCP ports e allowed through the local Windows Firewall service. The incoming TCP ports for indard Server are 8009 (AJP13), 80 (HTTP), 443 (HTTPS), 4001 (JMS), 4100), 4172 (PCoIP), 8472 (Inter-pod API), and 8443 (HTML Access). UDP packets on I/2 (PCoIP) are allowed through as well.
	Configure Windows Firewall automatically
	O Do not configure Windows Firewall
	<back next=""> Cancel</back>

Note: The Windows Firewall ports are required for View Connection Server to function correctly. For the purposes of this exercise, Configure Windows Firewall automatically is selected, but if you want to configure the ports manually, make sure to complete the required port configuration before proceeding to the next step.

10. Select which administrators group or specific administrator user you want to authorize to manage View Connection Server, and then click **Next**.

	VMware Horizon View Connection Server	×
Initial Vie	ew Administrators	
Specify	the domain user or group for initial View administration.	4
group opti	View Administrator, you will need to be authorized. Select the local Administrator ion or enter the name of a domain user or group that will be initially allowed to log nted full admistrative rights.	
The list of	authorized administrator users and groups can be changed later in View Administ	rator.
۹ ک	Authorize the local Administrators group	
-	Authorize the local Administrators group Authorize a specific domain user or domain group	
-		
-		
-	Authorize a specific domain user or domain group	

11. Choose whether to participate anonymously in the User Experience Improvement Program, and if so, select your answers from the drop-down menus, and then click **Next**.

Ū.	VMware Horizon View Conne	ection Server
User Exp	erience Improvement Program	
Basic Cu	istomer Demographics	
help us in t completely	constantly trying to improve the user experience this effort by agreeing to send product usage stat anonymous, and is restricted to product usage sit the VMware user experience improvement web	istics. This data is
Parti	cipate anonymously in the user experience improv	vement program
Select you	r organization industry type:	×
	r organization industry type:	v v
Select loca		 ✓ ✓ ✓ ✓
Select loca	tion of your organization's headquarter:	v v v

12. Review or modify your selections by clicking **Back**, and when you are ready to proceed, click **Install**.

뤵	VMware Horizon View Connection Server	×
	o Install the Program ard is ready to begin installation.	6
C:\Pro	e Horizon View Connection Server will be installed in: ogram Files\VMware\VMware View\Server\ stall to begin the installation or Cancel to exit the wizard.	
	< Back Install (Cancel

įال	VMware Horizon View Connection Server 📃 🗖 🗙
	ng VMware Horizon View Connection Server Ogram features you selected are being installed.
1 1 1	Please wait while the installer installs VMware Horizon View Connection Server. This may take several minutes.
	Status:
	Adding AD LDS server role
	< Back Next > Cancel

You can monitor your installation status as it progresses.

13. When the Installer Completed window appears, indicate whether to open the readme file, and then click **Finish** to close the View Connection Server installer.

岁 VMware	Horizon View Connection Server	x
	Installer Completed	
	The installer has successfully installed VMware Horizon View Connection Server. Click Finish to exit the wizard.	
	Next Steps:	
	Show the readme file	
VMware Horizon™ View Connection Server		2
Product version: 6.0.0-1832377	x64 < Back Finish Cancel	

You have now completed installing View Connection Server and can proceed to the next exercise to install a View security server.

Install a View Security Server

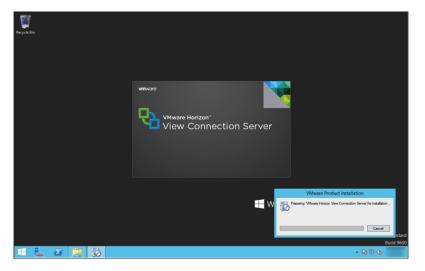
A View security server is an instance of View Connection Server that adds an additional layer of security between the Internet and your internal network. Security servers ensure that the only remote desktop traffic that can enter the corporate data center is traffic on behalf of a strongly authenticated user.

1. Log in to the virtual machine that you prepared as the target for installing View Security Server.

The virtual machine must meet the requirements detailed in the Installation Prerequisites.

- 2. Verify that the 64-bit View Connection Server installer is accessible by the operating system of the target virtual machine.
- 3. Launch and load the View Connection Server installer in the virtual machine.

Note: The View security server is an installation option within the View Connection Server installer.



4. When the installer finishes loading, click Next.

岁 VMware	Horizon View Connection Server
Ć۲	Welcome to the Installation Wizard for VMware Horizon View Connection Server
	The installation wizard will install VMware Horizon View Connection Server on your computer. To continue, dick Next.
VMware Horizon™ View Connection Server	Copyright (c) 1998-2014 VMware, Inc. All rights reserved. This product is protected by U.S. and international copyright and intellectual property laws. VMware products are covered by one or more patents listed at http://www.vmware.com/go/patents.
Product version: 6.0.0-1832377	x64 <back next=""> Cancel</back>

5. Review the license agreement, accept the terms and conditions, and then click **Next**.

#	VMware Horizon View Connection Server	x
License	Agreement	
Please r	read the following license agreement carefully.	Ò
	VMWARE END USER LICENSE AGREEMENT	^
PLEASE	NOTE THAT THE TERMS OF THIS END USER LICENSE AGREEMENT SHALL	-
GOVERN	YOUR USE OF THE SOFTWARE, REGARDLESS OF ANY TERMS THAT MAY	
APPEAR	DURING THE INSTALLATION OF THE SOFTWARE.	
IMPORTA	NT-READ CAREFULLY: BY DOWNLOADING, INSTALLING, OR USING	
THE SOF	TWARE, YOU (THE INDIVIDUAL OR LEGAL ENTITY) AGREE TO BE	
BOUND	BY THE TERMS OF THIS END USER LICENSE AGREEMENT ("EULA"). IF	~
Ivourou	NOT AGREE TO THE TERMS OF THIS FULLA. YOU MUST NOT	×
I accept	the terms in the license agreement	
O I do not	accept the terms in the license agreement	
	< Back Next > Cancel	
		_

6. Choose where to install the View security server, and then click **Next**.

閿	VMware Horizon View Connection Server
	tion Folder ext to install to this folder, or dick Change to install to a different folder.
	Install VMware Horizon View Connection Server to: C:\Program Files\VMware\VMware View\Server\ Change
<u></u>	< Back Next > Cancel

7. Select View Security Server, and then click Next.

B	VMware Horizon View Connection Server
	tion Options the type of View Connection Server instance you want to install.
View S	he type of View Connection Server instance you want to install. randard Server eplica Server
View S Perform a DMZ 1	an install of just the security server components. This is typically used on servers in o run an appropriate subset of the full View Connection Server functionality. A
Security	Server instance must be able to connect to a standard or replica instance server.
	< Back Next > Cancel

8. In the Server text box, type the FQDN of the View Connection Server installed in Install View Connection Server to pair to the View security server, and then click **Next**.

1	VMware Horizon View Connection Server
	orizon View Connection Server Horizon View Connection Server that this instance will talk to.
Server. Er	View Security Server is paired with an existing instance of a Horizon View Connection ter the server name of any existing Horizon View Connection Server instance. erver: view.internal.vmware.com.
Server:	(hostname or IP address)
	< Back Next > Cancel

9. To enter the pairing password for the View security server to the View Connection Server, you must go to the View Administrator console to create a one-time password for this session.

https://<fqdn-of-view-connection-server>/admin, where fqdn-of-view-connection-server is the fully qualified domain name or the IP address of the View Connection Server.

閿	VMware Horizon View Connection Server
1.000	Apassword to pair with the Horizon View Connection Server.
First spe This pase	ord is required to pair this Security Server with a Connection Server. cdfy the Pairing Password for the Connection Server in View Administrator. sword is set in View Administrator in "View Configuration" > "Servers". Select the d Connection Server and go to "More Commands" > "Specify Security Server Pairing d".
Passwor	d: []
	< Back Next > Cancel

10. Log in to the View Administrator console using the credentials you established in Install View Connection Server.



Vpdated 3/11/14, 2:22 PM 🛛 🥭	Servers							
Sessions 0 Problem vCenter VMs 0	vCenter Servers Securi	vCenter Servers Security Servers Connection Servers						
Problem RDS Hosts 0 Events 0 0 0 0 System Health	Evelie Disable Edit.		• More C	Commands			B 0	
System Health 1 1 0	Connection Server	Version	PCoIP Secur	State	Settings	Last Backup		
Inventory	DEMO-VIEW	6.0.0-1659869	Installed	Enabled	Secure tunnel connection, Smart card authentication:			
Rahbard Charles Cha								

11. In the left menu of the View Administrator console, under View Configuration, click **Servers**. In the Servers window, select the **Connection Servers** tab.

12. Click the View Connection Server that you installed in Install View Connection Server, and then from the More Commands drop-down menu, select **Specify Security Server Pairing Password**.

Updated 5/23/14, 11:18 AM 🛛 😂	Servers						
Sessions 0 Problem vCenter VMs 0	vCenter Servers Secu	arity Servers Co	nnection Server	5			
Problem RDS Hosts 0 Events 0 0 0 0 System Health 0	Enable Disable Edi	t Backup Now	More	Commands	rver Pairing Password		-
1 1 1 0	Connection Server	Version	PCol-	iy security se	actives Palling Password	Last Backup	
	DEMO-VIEW	6.0.0-1832377	Installed	Enabled	Secure tunnel connection, Smart		
nventory							
Dashboard							
Users and Groups							
Catalog							
tesources							
Farms							
🔁 Machines							
Persistent Disks							
Monitoring							
Policies							
View Configuration							
Servers							
Product Licensing and Usage							
Global Settings							
Registered Machines Administrators							
Administrators ThinApp Configuration							
Event Configuration							
Event Comparation							

13. Specify a pairing password and a timeout value, and then click **OK**.

Note: The security server pairing password is a one-time password that permits a security server to be paired with a View Connection Server instance. As a security measure, the password becomes invalid after you provide it to the View Connection Server installation program.

					(Administrator)
Servers					
vCenter Servers Security	Servers Connection Serv	ers			
Enante Diseble Edt	Backup Now	e Commands			
Connection Server			Settings	Last Backup	
DEHIO-VIEW	6.0.0-1659660 Installed	Enabled	Secure bunnel connection, Smart card authentication:		
	This password is a one-t with this connection law is made for paring. This base of a similar base before. ■ This View environme. These requires the 0 EMO- bace requires the 0 EMO- bace requires the 0 Next of the other of the Pace requires the 0 the Next of the other other other Next of the other Next of the other Next of the other other Next of the other other Next of the other other Next of the	me password the rer. It is invalidate e invalidated bar e invalidated bar in is configured vIEW View Con- nicidows Firewall connection Ser- fornthe active p under "Administ	at allows a security server to be paired ded when any authentication attempt end on the password timeout value to enable Ihee fair communication rection Server and the socirity server. To be turned on for the acide profile or to the Society Server. To the acide profile for the acide profile or to the control (inc) who are to the for the acide profile or the the control (inc) who are turn the more from "Viriodes Fereal with		
	vCenter Servers Security	Contest Servers Security Servers Contextion Server Contextion Server	Control Servers Connection Servers Backley Backley News • Hore Commands Connection Servers Variant • Hore Commands Display Poilt Sale File Security Server Fold Security File Security Server Alering Research This password as a ne-time password by with the connection server. It is invalid This password will also be invalidated by parts. This password will also be invalidated by parts. Convection Servers the Condowners the conforcent to server the Condowners the conforcent to server the Condowners the condowner the condowner the condowner the condowner the condowner to server the Condowner the condowner to server the Condowner the condowner to server the Condowner the condown	Venter Server Security Servers Texter Server Security Servers Texter Server Security Servers Texter Server Security Servers Security Servers Secured Security Servers Security	Water Server Source/Server Connection Server Text Backing Market Network In Section Server Connection Server Connection Server Safe Secting Secting Lat Backing Connection Server Connection Server Safe Secting Secting Lat Backing Connection Server Connection Server Safe Secting Secting Lat Backing Connection Server Connection Server Secting Secting Secting Lat Backing Connection Server Connection Server Secting Secting Secting Server Secting Secting Secting Server Secting Secting Secting Secting Server Secting Secti

When you finish setting the pairing password, stay logged in to the View Administrator console because you need to return to it to verify the security server installation.

14. In the virtual machine where you are installing the View security server, enter the security server pairing password, and then click **Next**.

谩	VMware Horizon View Connection Server
	Horizon View Connection Server Password a password to pair with the Horizon View Connection Server.
First spe This pas	oord is required to pair this Security Server with a Connection Server. ecify the Pairing Password for the Connection Server in View Administrator. ssword is set in View Administrator in "View Configuration" > "Servers". Select the d Connection Server and go to "More Commands" > "Specify Security Server Pairing rd".
Passwor	rd: [•••••••
	< Back Next > Cancel

Note: This step initiates the pairing process, which can take a few minutes to complete.

15. In the View Security Server Configuration dialog box, accept the default values for the external URLs or modify them, and then click **Next**.

Note: The PCoIP External URL must contain an IP address and not a FQDN. You can change these values later in the View Administrator console.

ب ال	/Mware Horizon View Connection Server
View Security Ser	ver Configuration
Specify Security Se	rver settings.
Enter the External U	Ls for this Security Server.
Server for the secure addresses must not b	mes must be resolvable by the View Client and the PCoIP External URL must
External URL:	
External OKL:	https://demo-vss.
PCoIP External URL	:4172
Blast External URL:	https://demo-vss :8443
	< Back Next > Cancel

16. Choose whether to configure the Windows Firewall automatically, and then click Next.

劇	VMware Horizon View Connection Server
Autom	I Configuration Natically configure the Windows Firewall to allow incoming TCP protocol ctions.
must the S Wind	der for View Connection Server to operate on a network, specific incoming TCP ports be allowed through the local Windows Firewall service. The incoming TCP ports for ecurity Server are 80 (HTTP), and 443 (HTTPS). If the Security Server runs on a ows Server 2008 R2 then the incoming TCP and UDP packets on port 4172 are allowed igh as well.
	Configure Windows Firewall automatically
	O Do not configure Windows Firewall
	< Back Next > Cancel
	Carcei

Note: The Windows Firewall ports are required for the View security server to function correctly. For the purposes of this exercise, Configure Windows Firewall automatically was selected. If you want to configure the ports manually, complete the port configuration required before going to the next step.

17. Click **Install** to complete the installation.

遢	VMware Horizon View Connection Server	×
	r to Install the Program wizard is ready to begin installation.	₽
VMwar	are Horizon View Connection Server will be installed in:	
C:\Pr	Program Files\VMware\VMware View\Server\	
Click Ir	Install to begin the installation or Cancel to exit the wizard.	
	< Back Install Can	ncel

You can monitor the installation as it progresses.

B	VMware Horizon View Connection Server
	ng VMware Horizon View Connection Server rogram features you selected are being installed.
15	Please wait while the installer installs VMware Horizon View Connection Server. This may take several minutes. Status:
	< Back Next > Cancel

😼 VMware	Horizon View Connection Server			
	Installer Completed			
	The installer has successfully installed VMware Horizon View Connection Server. Click Finish to exit the wizard.			
	Next Steps:			
	✓ Show the readme file			
VMware Horizon™ View Connection				
Server				
Product version: 6.0.0-1832377	x64 < Back Finish Cancel			

18. When the Installer Completed window appears, indicate whether to automatically open the readme file, and then click **Finish** to close the installer.

19. To verify the View security server installation and pairing, go to the View Administrator console. Under View Configuration > Server, click the Security Servers tab. Verify the host name of the View security server and the host name of the View Connection Server that it is paired to.

Updated 5/23/14, 11:26 AM	Servers				
Sessions 0 Problem vCenter VMs 0 Problem RDS Hosts 0 Events 0 0 1 0 0 0 0 System Health 0 2 0	vCenter Servers Security Servers Connection Servers				
	Est • More Commands				
1 2 1 0	Security Server	Version	PCoIP Secure Gateway	Connection Server	
nventory	DEMO-VSS	6.0.0-1832377	Installed	DEMO-VIEW	
Dashboard					
Users and Groups					
Catalog					
tesources					
Parms					
Machines					
Persistent Disks					
fonitoring					
Policies /iew Configuration					
Servers					
Product Licensing and Usage					
Global Settings					
Registered Machines					
Administrators					
ThinApp Configuration					
Event Configuration					

You have now completed installing the View security server and pairing it to the View Connection Server. You can now proceed to the next exercise and install the View Composer Server.

Install View Composer Server

View Composer Server is an optional service that enables you to manage pools of "like" desktops, called linkedclone desktops. Linked-clone desktop images can optimize your use of storage space and facilitate updates.

1. Log in to the virtual machine that you prepared as the target for installing View Composer Server.

Verify that the virtual machine meets the prerequisites listed in Installation Prerequisites and that the appropriate native SQL driver is installed for your database.

- 2. Verify that the 64-bit VMware View Composer Server installer is accessible by the operating system of the target virtual machine.
- 3. Launch and load the View Composer Server installer, and then click Next.

岁 VM	ware Horizon View Composer
6 7	Welcome to the Installation Wizard for VMware Horizon View Composer
	The installation wizard will install VMware Horizon View Composer on your computer. To continue, dick Next.
vMware Horizon view™ Composer ம்рс⊛ም	Copyright © 1998-2012 VMware, Inc. All rights reserved. This product is protected by U.S. and international copyright and intellectual property laws. VMware products are covered by one or more patents listed at http://www.vmware.com/go/patents.
	< Back Next > Cancel

4. Review the license agreement, accept the terms and conditions, and then click Next.

B	VMware	Horizon View Co	omposer	x
10002154040	e Agreement e read the following license ag	reement carefully.		6
		MWARE, INC. CENSE AGREE!	MENT	^
UPLOA AND A LEGALI PALO A CONNE BETA T OR OTH	Y CLICKING "I AGREE," A DING, COPYING OR USING GREE TO THIS BETA LICE LY BINDING MANNER WI ALTO, CA 94304, USA ("VN CCTION WITH THE REGIST TEST PROGRAM THAT YC HER ORGANIZATION, YOU the terms in the license agri tot accept the terms in the license agri	G THE BETA SOFT INSE AGREEMENT TH VMWARE, INC Mware"). IF YOU HA TRATION PROCESS DU ARE ACTING OI U REPRESENT THA eement	WARE, YOU CON ("AGREEMENT" , 3401 HILLVIEW VE SPECIFIED IN FOR THIS SOFT N BEHALF OF A	ICLUDE) IN A AVENUE, WARE COMPANY
InstallShiel	ld	< Back	Next >	Cancel

- 6. Click **ODBC DSN Setup** to establish a new Data Source Name to define the connection between View Composer Server and your database.

B	VMware I	Horizon View Com	poser	×
	Information ditional database configura	tion information.		P
	Data Source Name (DSN) f N dick the ODBC Setup but		ew Composer database	. To set
			ODBC DSN Setu	p
	e username that you entere		e Administrator.	
InstallShield –		< Back	Next > C	ancel

5. Choose where you want to install the View Composer Server, and then click **Next**.

	System DSN File DSN ata Sources:	Drivers Tracin	g Connection Poo	oling About	
-	Platform Driver				Add
					Remove
					Configure
	An ODBC System data A System data source is				

- UN Cancel Apply Help
- 8. Select the driver for your database, and then click **Finish**. For the purposes of this exercise, SQL Server Native Client 11.0 was selected.

Iser DSI	Create New Data Source	9	×
System Name	Select a driver for which you wa	ant to set up a data so	urce.
	Name SQL Server SQL Server Native Client 11.0	Version 6.03.9600.16384 2011.110.2100.60	Com Micro Micro
	< III		> der.
	< Back	Finish Ca	ncel

7. In the ODBC Data Source Administrator dialog box, click the **System DSN** tab, and then click **Add**.

9. In the Create a New Data Source to SQL Server dialog box, type the required information for your data source, and then click **Next**.

	Create a New Data Source to SQL Server
ŠQL Server 2012	This wizard will help you create an ODBC data source that you can use to connect to SQL Server. What name do you want to use to refer to the data source? Name: SQL Server to go use the data source? Description: SQL Server 2012 Which SQL Server do you want to connect to? Server: V
	Finish Next > Cancel Help

- a. Name: Unique name that refers to the data source you are connecting to
- b. Description: Optional
- c. Server: Address of your SQL Server in the format FQDN/SQLInstanceName or IP/ SQLInstanceName.

10. Enter the SQL Server login ID and password, and then click Next.

	Create a New Data Source to SQL Server
SQL Server 2012	How should SQL Server verify the authenticity of the login ID?
	SPN (Optional): With SQL Server authentication using a login ID and password entered by the user. Login ID: sa
	Password:
	< Back Next > Cancel Help

	Create a New Data Source to SQL Server
	Change the default database to:
SQL Server 2012	Mirror server:
	SPN for mirror server (Optional):
	Attach database filename:
	✓ Use ANSI quoted identifiers.
	Use ANSI nulls, paddings and warnings.
	Application intent:
	READWRITE
	Multi-subnet failover.
	< Back Next > Cancel Help

11. Select the **Change the default database** check box, and from the drop-down menu, select the database you created for View Composer Server data, and then click **Next**.

12. Additional database options are available, but are not required for the View Composer Server database. After selecting the options you want, click **Finish**.

×	Change the language of SQL Server system messages to:	
SQL Server 2012	Use strong encryption for data ✓ Perform translation for character data Use regional settings when outputting currency, numbers, d	20 - 22 Au
	Save long running queries to the log file:	
	C:\Users\ADMINI~1\AppData\Local\Temp\1\QUEI	Browse
	Long query time (milliseconds): 300	000
	Log ODBC driver statistics to the log file:	
	C:\Users\ADMINI~1\AppData\Local\Temp\1\STA1	Browse

13. When the summary of DSN options displays, click **Test Data Source** to verify the connection to the database.

ODBC Microsoft SQL Server Setup	×
A new ODBC data source will be created with the following configur	ation:
Microsoft SQL Server Native Client Version 11.00.2100 Data Source Name: sql Data Source Description: SQL Server 2012 Server: Use Integrated Security: No Database: VCOMP Language: (Default) Data Encryption: No Trust Server Certificate: No Multiple Active Result Sets(MARS): No Miltiple Active Result Sets(MARS): No Miltiple Active Result Sets(MARS): No Dig Driver Statistics: No Log Driver Statistics: No Use Regional Settings: No Use ANSI Quoted Identifiers: Yes Use ANSI Null, Paddings and Warnings: Yes	
Test Data Source OK Can	cel

14. Verify that the test completed successfully.

SQL Server ODBC Data Source Test	
Microsoft SQL Server Native Client Version 10.50.2500 Running connectivity tests Attempting connection Connection established Verifying option settings Disconnecting from server TESTS COMPLETED SUCCESSFULLY!	2
ОК	

- If your connection test completed successfully, click **OK** to continue.
- If your connection test was unsuccessful, click **OK** and then **Cancel** in the next window to go back and change the parameters in the previous windows, and retest until the test results are successful.

- A new ODBC data source will be created with the following configuration:

 Microsoft SQL Server Native Client Version 11.00.2100

 Data Source Name: sql

 Data Source Description: SQL Server 2012

 Server:

 Use Integrated Security: No

 Data Source Result Sets(MARS): No

 Multiple Active Result Sets(MARS): No

 Mirror Server:

 Transt Bervare Certificate: No

 Dug Driver Statistics: No

 Log Long Running Queries: No

 Log Long Running Queries: No

 Use ANSI Quoted Identifiers: Yes

 Use ANSI Null, Paddings and Warnings: Yes
- 16. When the System DSN tab displays the System Data Sources, select the new System DSN name, and then click **OK**.

er DSN	System I	DSN		Driver	Tracing	Connection	Paolina	About		
er D'SIN	Jojacan		File D3N	Dilvers	macing	Connection	roomy	About		
ystem D	ata Source	es:								
Name	Platform								Add	
sql	64-bit	SQL	Server Nat	ive Client	10.0					
									Remov	re
									Configur	e
						tion about he this comput			indicated data ces.	provider.
					_	OK	Can		Apply	Help

15. Click \mathbf{OK} to add the System DSN to your ODBC Data Source Administrator List.

17. After the System DSN is created and the Setup Wizard brings you back to the View Composer Server installer, type the System DSN name, username, and password, and then click **Next**.

	VMware Hori	zon View Co	omposer	
Database Ir Enter additi	nformation ional database configuration in	iformation.		P
	ata Source Name (DSN) for the dick the ODBC Setup button.	e VMware Horizo	n View Composer databa	ase. To set
sql			ODBC DSN Se	etup
Enter the us	sername that you entered in t	he ODBC Data S	ource Administrator.	
sa				
	assword for this database con	nection.		
Enter the p	assword for this database con	nection.	Next >	Cance

18. Specify a SOAP port for View Composer Server communication by either accepting the default value or entering a preferred port, and then click **Next**.

B	VMware Horizon View Composer
Construction of the second second	on View Composer Port Settings nection information for the VMware Horizon View Composer.
Specify the web	access port and security settings for VMware Horizon View Composer.
SSL Certificate:	No SSL certificates were found on your machine. A default SSL certificate will be created for you.
InstallShield ———	< Back Next > Cancel

)	VMware	Horizon View Co	omposer	
	install the Program	ation.		P
VMware H	orizon View Composer wi	ll be installed in:		
C: Progra	am Files (x86)\VMware\V	Mware View Composer	1	
	nt to review or change a installation or Cancel to e		ettings, dick Back. C	Click Install to
nstallShield —		< Back	Instal	Cancel

You can monitor the installation progress.

20. When the Installer Completed window appears, click **Finish**.

岁 VN	Mware Horizon View Composer
2	Installer Completed The installer has successfully installed VMware Horizon View Composer. Click Finish to exit the wizard.
VMware Horizon View™	
Composer	
ப்PC@IP	
	< Back Finish Cancel

19. Review or modify your selections by clicking **Back**, and when you are ready to proceed, click **Install**.

21. To finalize the installation, click **Yes** to reboot the virtual machine.

岁 VMw	are Horizon View Composer Installer Inf 🗴					
You must restart your system for the configuration changes made to VMware Horizon View Composer to ta effect. Click Yes to restart now or No if you plan to res later.						
	Yes No					

You are now ready proceed to set up a RDS host to use for application and desktop remoting.

Remote Desktop Session Host Configuration

After installing the View components, you can set up an RDS host. The host is required for setting up RDS desktop and application pools. If you have an existing RDS host that is already configured, you can skip these exercises and proceed to Configuring View. This section contains the following exercises:

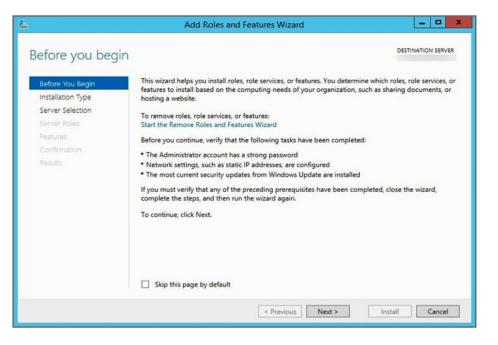
- Set Up a RDS Host on Windows Server 2012 R2
- Install View Agent on an RDS Host

Set Up a RDS Host on Windows Server 2012 R2

- 1. Log in as the administrator to the virtual machine that you prepared as your target RDS host and start the Server Manager tool.
- 2. Click Add roles and features.

14		Server Manager	- 0 ×
Server Ma	anager • Dashboard	• 🗵 🏲 Manage	Tools View Help
Dashboard	WELCOME TO SERVER MANAGER		-
Local Server All Servers File and Storage Services		nfigure this local server	
		Add roles and features	
	WHAT'S NEW	Add other servers to manage Create a server group	
	LEARN MORE		Hide
	ROLES AND SERVER GROUPS Roles: 1 Server groups: 1 Servers to	otali 1	
	File and Storage Services	1 Local Server 1	
	Manageability Events Performance BPA results	Manageability Events Services Performance BPA results	
1 2 3	and a second		~ Re 94 46
	8		10 10 10

3. To start the Add Roles and Features Wizard, click Next.



4. To install the RDS role to your server, select Role-based or feature-based installation, and then click Next.

ia -	Add Roles and Features Wizard	_ _ X
Select installation	ON type Select the installation type. You can install roles and features on a runnin	DESTINATION SERVER
Before You Begin Installation Type	machine, or on an offline virtual hard disk (VHD).	g physical computer of virtual
Server Selection Server Roles	 Role-based or feature-based installation Configure a single server by adding roles, role services, and features. 	
Features Confirmation	 Remote Desktop Services installation Install required role services for Virtual Desktop Infrastructure (VDI) to or session-based desktop deployment. 	create a virtual machine-based
Results		
	< Previous Next >	Install

5. Select where to add the role. Because you are installing this role on the server on which you are running the wizard, choose **Select a server from the server pool**, click the name of the server you are logged in to, and then click **Next**.

i.	Ado	d Roles and Features	Wizard	>
Select destination	on server			DESTINATION SERVER
Before You Begin Installation Type Server Selection Server Roles Features		from the server pool	n to install roles and features.	
Confirmation	Filter:			
Results	Name	IP Address	Operating System	
			Microsoft Windows Server 20	
	1 Computer(s) four		ndows Server 2012, and that have	e been added by using the
	Add Servers comm		ffline servers and newly-added se	
		< P1	evious Next >	Install Cancel

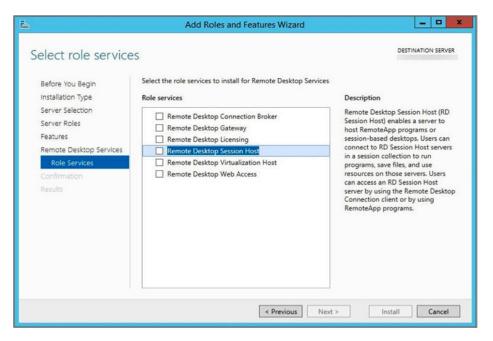
- 0 X Add Roles and Features Wizard R DESTINATION SERVER Select server roles Select one or more roles to install on the selected server. Before You Begin Installation Type Roles Description Server Selection Remote Desktop Services enables users to access virtual desktops, Active Directory Certificate Services Active Directory Domain Services session-based desktops, and RemoteApp programs. Use the Features Active Directory Federation Services Remote Desktop Services installation to configure a Virtual machine-Remote Desktop Services Active Directory Lightweight Directory Services Active Directory Rights Management Services Role Services based or a Session-based desktop Application Server deployment. DHCP Server DNS Server Fax Server File and Storage Services (1 of 12 installed) Hyper-V Network Policy and Access Services Print and Document Services Remote Access
 Remote Desktop Services < Previous Next > Install
- 6. In the Roles list, select **Remote Desktop Services** and click **Next**.

- 🗆 X Add Roles and Features Wizard R DESTINATION SERVER Select features Select one or more features to install on the selected server. Before You Begin Installation Type Features Description Server Selection .NET Framework 3.5 combines the power of the .NET Framework 2.0 APIs with new technologies for NET Framework 3.5 Features Server Roles NET Framework 4.5 Features (2 of 7 installed) Background Intelligent Transfer Service (BITS) building applications that offer appealing user interfaces, protect Remote Desktop Services BitLocker Drive Encryption your customers' personal identity information, enable seamless and BitLocker Network Unlock Role Services secure communication, and provide the ability to model a range of BranchCache Client for NFS business processes. Data Center Bridging Direct Play Enhanced Storage Failover Clustering Group Policy Management IIS Hostable Web Core Ink and Handwriting Services III > < Previous Next > Install
- 7. On the Select Features page, accept the default features by clicking Next.

8. Review the Remote Desktop Services role and then click Next.

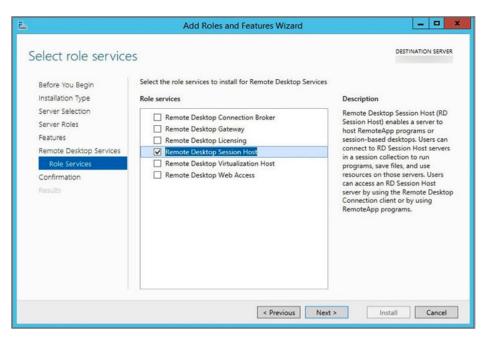
ile .	Add Roles and Features Wizard		•	×	
Remote Desktop Services Before You Begin Installation Type Server Selection Server Roles Peatures Remote Desktop Services Role Services Confirmation			ON SERV	ER	
Confirmation Results	< Previous Next > Inst	tali	Cancel		

9. In the Role services list, click Remote Desktop Session Host.



10. The Add Roles and Features Wizard dialog box appears. Click Add Features.

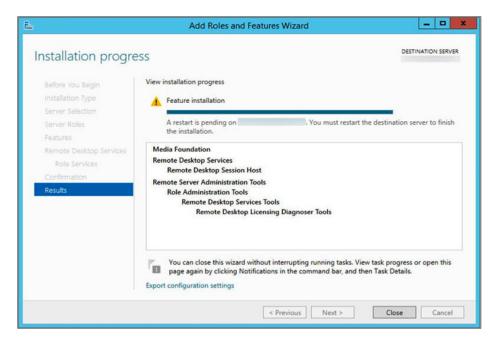
	atures that are required for Remote Desktop n Host?
	not install Remote Desktop Session Host unless the role services or features are also installed.
Med	dia Foundation
	note Server Administration Tools
4	Role Administration Tools
	Remote Desktop Services Tools
	[Tools] Remote Desktop Licensing Diagnoser Tools
✓ Inclu	ude management tools (if applicable)
	Add Features Cancel
	Add reduies Concer



11. The Select role services page appears again with Remote Desktop Session Host highlighted. Click Next.

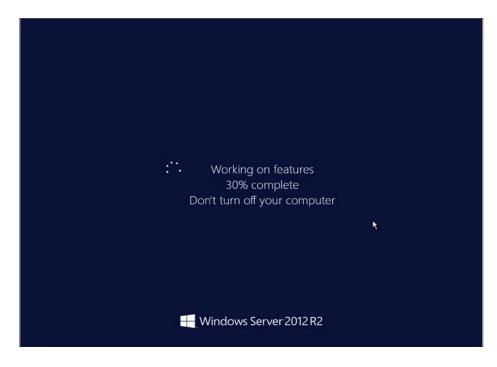
12. Review your selections, and then click **Install**. To make changes, click **Previous**.

<u>k</u>	Add Roles and Features Wizard	_	•	*	
Confirm installation	on selections	DESTINATION	N SERVE	ER	
Before You Begin Installation Type Server Selection Server Roles Features Role Services Confirmation Results	To install the following roles, role services, or features on selected server, click Install. Restart the destination server automatically if required Optional features (such as administration tools) might be displayed on this page because they have been selected automatically. If you do not want to install these optional features, click Previous to clear their check boxes. Media Foundation Remote Desktop Services Remote Desktop Services Romote Desktop Services Tools Role Administration Tools Remote Desktop Services Tools Remote Desktop Licensing Diagnoser Tools				
	Export configuration settings Specify an alternate source path < Previous	Install	Cancel		



13. You can monitor the installation progress. When the installation is complete, you are prompted to manually reboot the system.

14. Do not turn off your computer while the system is completing the installation.



15. When the installation is finished, log in to your system as administrator and launch the Server Manager to confirm that your installation has completed successfully. The Remote Desktop Services role now appears the Server Manager dashboard.

Note: Be sure to properly license your host. See the article on RD Session Host Licensing at http://technet. microsoft.com/en-us/library/cc754487.aspx.

ia -	S	Server Manager	- 0 ×
Server Ma	anager • Dashboard	- © 🏲	Manage Tools View Help
Local Server Local Server Local Server File and Storage Services ▷ Remote Desktop Services ▷	QUICK START	nfigure this local server Add roles and features Add other servers to manage Create a server group	Hide
	RoLes AND SERVER GROUPS Roles: 2 Server groups: 1 Servers to File and Storage 1 Services 1 Manageability Events Performance BPA results	Atal: 1 Remote Desktop Services 1 The services Performance BPA results	R

You have successfully configured your RDS host. The next step is to install View Agent on the RDS host.

Install View Agent on an RDS Host

You must install the View Agent service on all virtual machines managed by vCenter Server so that View Connection Server can communicate with them. View Agent also provides features such as connection monitoring, virtual printing, persona management, and access to locally connected USB devices.

1. Launch the VMware View Agent installer with the Run As Administrator option. You must be able to access the installer from your virtual machine.

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				Ļ	VMware Horizon"			
					VMware Horizon View Agent			
						ف PC ورو		
						VMware P	roduct Installation	
						Preparing VMware Horiz	on View Agent' for installatio	n
								Cancel
								ard
			Alian I	-				Build 9600
	1	Σ					• 1	9 🕼

2. When the installer has loaded, click Next.



3. Read the license agreement, accept the terms and conditions, and click **Next**.

岁 VMware Horizon View Agent	:
License Agreement Please read the following license agreement carefully.	
VMWARE END USER LICENSE AGREEMENT	
PLEASE NOTE THAT THE TERMS OF THIS END USER LICENSE AGREEMENT SHALL	
GOVERN YOUR USE OF THE SOFTWARE, REGARDLESS OF ANY TERMS THAT MAY	
APPEAR DURING THE INSTALLATION OF THE SOFTWARE.	
IMPORTANT-READ CAREFULLY: BY DOWNLOADING, INSTALLING, OR USING	
THE SOFTWARE, YOU (THE INDIVIDUAL OR LEGAL ENTITY) AGREE TO BE	
BOUND BY THE TERMS OF THIS END USER LICENSE AGREEMENT ("EULA"). IF	
● I accept the terms in the license agreement	
O I do not accept the terms in the license agreement	
	-
< Back Next > Cancel	1

4. The Custom Setup window lists the features that you can install for View Agent. You can use the default settings. Choose where to install View Agent, and then click **Next**.

B	VMwa	are Horizo	n View A	Agent	x
Custom Setu Select the pr	i p ogram features you wa	ant installed.			P
	in the list below to cha VMware Horizon View VCenter Operative VCenter Operative	Agent	Featur VMward This fea drive. 1	e Description e Horizon View Ager ature requires 214W (t has 1 of 1 subfea bfeatures require 2:	IB on your hard tures selected.
<	Ш	>			
Install to: C:\Program File	s\VMware\VMware Vie	w\Agent\			Change
Help	Space	<	Back	Next >	Cancel

- 5. Register the RDS host with your View Connection Server.
 - a. In the Server text box, enter the View Connection Server host name.
 - b. Select an authentication method. If you select **Specify administrator credentials**, enter the user name and password.
 - c. Click Next.

el e	VMware Horizon View Agent
-	n View Connection Server w Connection Server that this machine will connect to.
administrator login cred	f a Horizon View Connection Server (standard or replica instance) and initials to register this machine with the Horizon View Connection Server.
Server: demo-view	(hostname or IP address)
	Authenticate as the currently logged on user Specify administrator credentials
Username:	DOMAIN\Administrator (Domain\User)
Password:	•••••
	< Back Next > Cancel

6. To install View Agent, click Install.

副	VMware Horizon View Agent	×
	Install the Program rd is ready to begin installation.	6
C:\Prog	Horizon View Agent will be installed in: gram Files\VMware\VMware View\Agent\ tall to begin the installation or Cancel to exit the wizard.	
	< Back Install	Cancel

7. Monitor your installation status as it progresses.

B	VMware Horizon View Agent
10000000	g VMware Horizon View Agent gram features you selected are being installed.
17	Please wait while the installer installs VMware Horizon View Agent. This may take several minutes.
	Status:
	Removing shortcuts
	< Back Next > Cancel

8. The Installer Completed window appears when the installation is finished. Click **Finish** to close the View Agent installer.

國	VMware Horizon View Agent			
<u>ل</u> م	Installer Completed			
	The installer has successfully installed VMware Horizon View Agent. Click Finish to exit the wizard.			
VMware Horizon View™ A goopt				
Agent				
ĊPC⊚IP'				
	< gack Einish Cancel			

- VMware Horizon View Agent Installer Information
 S3

 Vou must restart your system for the configuration changes made to VMware Horizon View Agent to take effect. Click Yes to restart now or No if you plan to restart later.

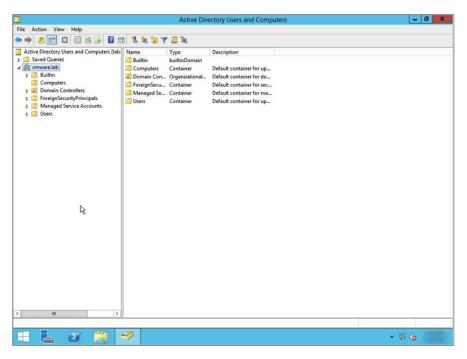
 Yes
 No
- 9. To complete the installation, you must restart the operating system. Click **Yes** to initiate the restart.

You have now completed installing the RDS Host. The next series of exercises walks you through configuring View.

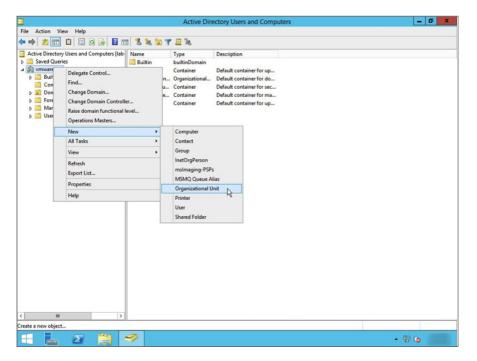
Configure Group Policy Setting fro RDS Host Sessions

After we have deployed and confugured our Remote Sessions Host, we must configure user security and access setting for Remote Desktop Session services. We will define these settings as Group Policy Objects.

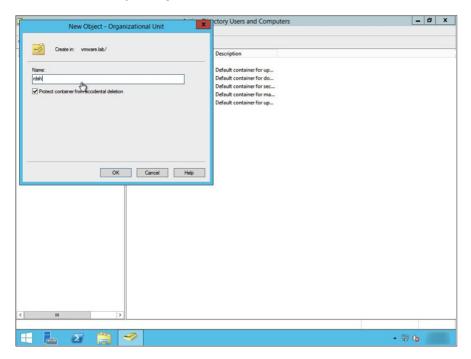
1. First we will create an Organizational Unit (OU) for oru RDS Hosts. Log in as the Administrator to your Active Directory Users and Computers and highlight the domain.



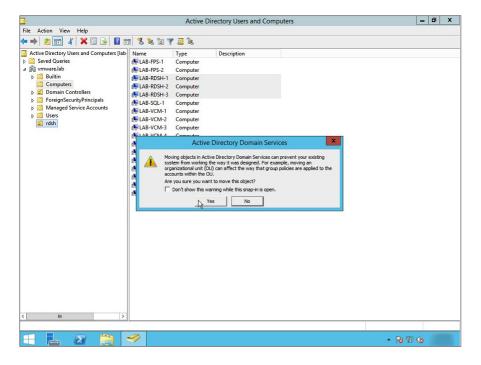
2. Right-click your target domain and go to New > Organizational Unit.



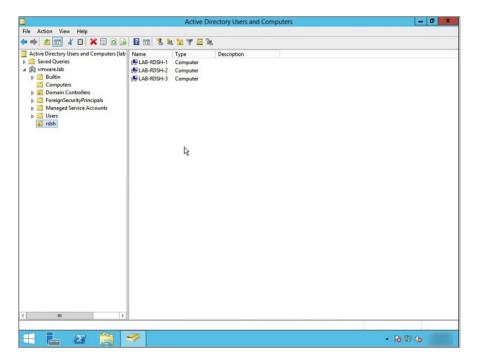
3. Fill in a name for your Organization and click **OK**.



4. Under your domain, you will see that the OU Group was created. Click the **Computers** folders for your domain, highlight the Computer Names for your RDS Host(s), and drag and drop them to your new OU Group. A warning message appears. Click **Yes**.



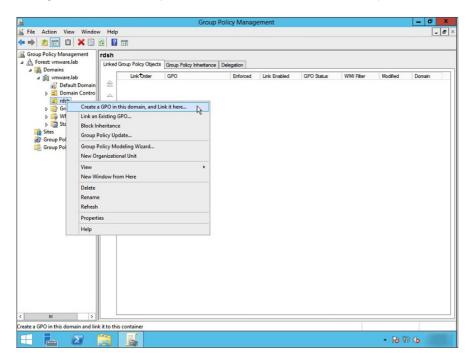
5. Click the Organizationa Unit (OU) Group that you created to verify that all your Remote Desktop Session Hosts are now part of the OU Group.



<u>s</u>		Group F	olicy Manag	ement				- 0 ×
File Action View Window								_ 8 ×
← ➡ 🖄 📰 📋 💥 🖫	rdsh							
Forest: vmware.lab A Bomains	Linked Group Policy Objects							
	*	GPO	Enforced	Link Enabled	GPO Status	WMI Fiter	Modified	Domein
×	lr							
							• 😼 🖁	9 😘

6. Launch the Group Policy Management utility. Expand the tree hierarchy for your domain and highlight the RDS Host Organizational Unit (OU) Group that you created in the previous steps.

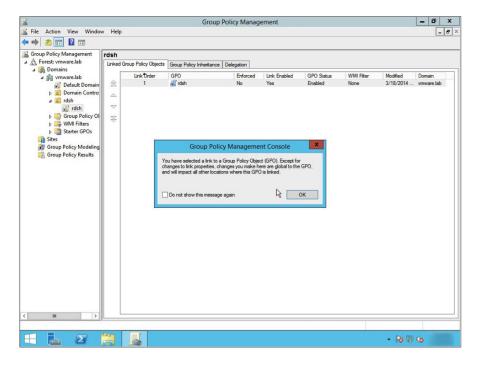
7. Right-click the OU Group and select Create a GPO in this domain, and Link it here...



8. Enter a name for the new GPO and click **OK**.

<u></u>	Group Policy Management	- 0 X
📓 File Action View Window		- 8 ×
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Group Policy Management	rdsh	
A Forest: vmware.lab	Linked Group Policy Objects Group Policy Inheritance Delegation	
A Software lab Commins A Software lab Control Default Domain P all Denain Contro P and Domain Contro	Link Drider GPO Enforced Link Enabled GPO Status WMI Filter Modified	Donan
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9. A Group Policy Management Console warning appears about GPO links. Click OK.



H		Group Policy	Management		- 0 X
File Action View W	indow Help				_ 8 ×
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Group Policy Managemen Group Policy Managemen Group Policy Managemen Demains Demains Demain C Demain C Demain C Demain C Group Policy Group Policy Coroup Policy	t rdsh Scope Details Settings Links Display links in this location	vmware lab and OUs are inked to this GPO. Enforced No	Link Enabled Yes	Path vmware.lab/rdah	v
	Rename				
	Refresh	nly apply to the following groups, u	sers, and computers:		
< 10	Hep Add	Remove Propertie lowing WMI filter:	s		
Open the GPO editor					
= 占 🛛					- 18 9 4

10. Right-click your Group Policy Object, and click Edit...

11. You will now be in the Group Policy Management Editor for your Remote Desktop Session Host policy. Navigate to Computer Configuration > Policies > Window Settings > Security Settings > Local Policies > User Rights Assignment. Click Allow log on locally.

• 🔿 📶 🗙 🖾 🗟 🔟			
rdsh [LAB-AD-1.VMWARE.LAB] Policy	Policy	Policy Setting	
🛃 Computer Configuration	Contract Credential Manager as a trusted caller	Not Defined	
a 🦳 Policies	Access this computer from the network	Not Defined	
Software Settings	Act as part of the operating system	Not Defined	
⊿	Add workstations to domain	Not Defined	
Name Resolution Policy	Adjust memory guotas for a process	Not Defined	
Scripts (Startup/Shutdown)	Allow log on locally	Not Defined	
A Security Settings	Allow log on through Remote Desktop Services	Not Defined	
Account Policies	Back up files and directories	Not Defined	
a 📓 Local Policies	Bypass traverse checking	Not Defined	
Audit Policy	Change the system time	Not Defined	
User Rights Assignment Security Options	Change the time zone	Not Defined	
Event Log	Create a pagefile	Not Defined	
Restricted Groups	Create a token object	Not Defined	
System Services	Create global objects	Not Defined	
A Registry	Create permanent shared objects	Not Defined	
File System	Create symbolic links	Not Defined	
Wired Network (IEEE 802.3) F	Debug programs	Not Defined	
Windows Firewall with Adva	Deny access to this computer from the network	Not Defined	
Network List Manager Polici	Deny log on as a batch job	Not Defined	
Wireless Network (IEEE 802.1	Deny log on as a service	Not Defined	
Public Key Policies	Deny log on locally	Not Defined	
Software Restriction Policies	Deny log on through Remote Desktop Services	Not Defined	
Network Access Protection	Enable computer and user accounts to be trusted for delega	Not Defined	
Application Control Policies	E Force shutdown from a remote system	Not Defined	
IP Security Policies on Active	Generate security audits	Not Defined	
Advanced Audit Policy Conf	limpersonate a client after authentication	Not Defined	
 Policy-based QoS Administrative Templates: Policy de 	increase a process working set	Not Defined	
P Administrative rempiates: Policy de Preferences	lincrease scheduling priority	Not Defined	
User Configuration	Load and unload device drivers	Not Defined	
b Policies	Lock pages in memory	Not Defined	
Preferences	📓 Log on as a batch job	Not Defined	
III >	Log on as a service	Not Defined	

]	Group Policy Management Editor	- 0 ×
File Action View Help		
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rdsh [LAB-AD-1.VMWARE.LAB] Policy	Policy Policy Setting	
Computer Configuration	Policy Policy Setting	
A Policies	Allow log on locally Properties ? X	
Software Settings	Allow log on locally Ploperties	
4 📫 Windows Settings	Security Policy Setting Explain	
Name Resolution Policy		
Scripts (Startup/Shutdown)	Allow log on locally	
A Security Settings	20	
Account Policies	✓ Define these policy settings:	
A 📠 Local Policies		
Audit Policy		
User Rights Assignment		
Security Options		
Event Log		
Restricted Groups		
System Services Registry		
File System		
Wired Network (IEEE 802.3) P		
Windows Firewall with Advar		
Network List Manager Policie	Add User or Group Remove	
Wireless Network (IEEE 802.1	Modifying this setting may affect compatibility with clients, services,	
Public Key Policies	All and applications.	
Software Restriction Policies	For more information, see Allow log on locally. (Q823659)	
Network Access Protection		
Application Control Policies		
IP Security Policies on Active		
Advanced Audit Policy Conf		
Policy-based QoS	OK Cancel Apply	
Administrative Templates: Policy de	the contract of the contract o	
Preferences User Configuration	Load and unload device drivers Not Defined	
b Policies	Lock pages in memory Not Defined	
Preferences	Log on as a batch job Not Defined	
III >	Log on as a service Not Defined	
		R 12 (a

12. The Allow log on locally Properties menu appears. Ensure the check box for **Define these policy settings** is checked and click **Add User or Group...**

13. Now you will define which users or groups you will give access to allow local log in. Click Browse.

9	Group Policy Management Editor	= 0 X
File Action View Help		
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rdsh [LAB-AD-1.VMWARE.LAB] Policy	Policy Policy Setting	
 Policies Name Recolution Policy Stortware Settings: Name Recolution Policy Security Settings: Account Policies Loce Policies Loce Policies Loce Policies Security Settings: Loce Rights Assignment Loce Rights Assignment System Services Registry Registry Refit Metwork (EEE 802.1) Public Key Policies Southware Restriction Policies on Active Restriction Policies<	Allow log on locally Properties ? X Socuty Polcy Setting Deplan Alow log on locally Alow log on locally Alow log on locally Define these polcy settings: Add User or Group Add User or Group Cancel Concel Concel Conce	
<	Log on as a service Not Defined	
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14. Enter the names of the users or groups that you will allow access in the **Enter the object names to select** field and click **OK**.

15. Verify that you are adding the correct users or groups, then click \mathbf{OK} .

	Group Policy Management Editor	- 0 ×
ile Action View Help		
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rdsh [LAB-AD-1.VMWARE.LAB] Policy	Policy Policy Setting	[
R Computer Configuration	Corece Credential Manager as a trusted caller Not Defined	
4 🧾 Policies	Allow log on locally Properties ? X	
Software Settings		
4 🔛 Windows Settings	Security Policy Setting Explain	
Name Resolution Policy	Allow log on locally	
Scripts (Startup/Shutdown)		
Security Settings Account Policies		
Account Policies	Define these policy settings:	
A Audit Policy		
User Rights Assignment		
Security Options	Add User or Group	
Event Log		
Restricted Groups	User and group names	
System Services	VMWARE\Domain Users Browse	
▷ C Registry =		
File System		
Wired Network (IEEE 802.3) F	OK Cancel	
Windows Firewall with Adva		
Network List Manager Polici		
Wireless Network (IEEE 802.1	Modifying this setting may affect compatibility with clients, services,	
Public Key Policies	And applications. For more information, see Allow log on locally. (Q823659)	
Software Restriction Policies	Contraction and the second secon	
Network Access Protection		
Application Control Policies		
Advanced Audit Policy Conf		
Policy-based QoS		
Administrative Templates: Policy de	OK Cancel Apply	
Preferences	Commences serves and priority receives	
🔏 User Configuration	Load and unload device drivers Not Defined	
Policies	Lock pages in memory Not Defined	
Preferences	Log on as a batch job Not Defined	
III >	Log on as a service Not Defined	
		Re 19 4e

16. Verify that you have added all the users or groups you wish to authorize and click **OK**. If you need to add additional users or groups, click **Add User or Groups...** to go through the previous menus and make the necessary changes.

<u>.</u>	Group Policy Management Editor		- 0 X
File Action View Help			
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	Policy Access Credential Manage as Anusled culles Access Credential Manage as Anusled culles Security Policy Setting Epilein Weil Advis gen locally Confine these policy settings: Administrators Weil Add User or Group Add User or Group Administrators must be granted the logon local right.	Policy Setting	2
Administrative remplates: Poincy de A	Constant and unload device drivers Lock pages in memory Log on as a batch job Log on as a service	Not Defined Not Defined Not Defined Not Defined	
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17. You will return to the Group Policy Mangement Editor. Click the policy **Allow log on through Remote Desktop Services.**

	Group Policy Management Editor		
ile Action View Help			
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rdsh [LAB-AD-1.VMWARE.LAB] Policy	Policy	Policy Setting	
Real Computer Configuration	Access Credential Manager as a trusted caller	Not Defined	
a 🔛 Policies	Access this computer from the network	Not Defined	
Software Settings	Act as part of the operating system	Not Defined	
Mindows Settings	Add workstations to domain	Not Defined	
Name Resolution Policy Scripts (Startup/Shutdown)	Adjust memory quotas for a process	Not Defined	
	Allow log on locally	VMWARE\Domain Users,VMWA	
Security Settings Account Policies	Remote Desktop Services	Not Defined	
Account Policies	Back up files and directories	Not Defined	
Audit Policy	Bypass traverse checking	Not Defined	
User Rights Assignment	Change the system time	Not Defined	
> Security Options	Change the time zone	Not Defined	
Event Log	📖 Create a pagefile	Not Defined	
Restricted Groups	Create a token object	Not Defined	
System Services	Create global objects	Not Defined	
▷ Constraint Registry =	Create permanent shared objects	Not Defined	
File System	Create symbolic links	Not Defined	
Wired Network (IEEE 802.3) F	B Debug programs	Not Defined	
Windows Firewall with Adva	Deny access to this computer from the network	Not Defined	
Network List Manager Polici	Deny log on as a batch job	Not Defined	
Wireless Network (IEEE 802.1	Deny log on as a service	Not Defined	
Public Key Policies	B Deny log on locally	Not Defined	
Software Restriction Policies	Deny log on through Remote Desktop Services	Not Defined	
Network Access Protection	Enable computer and user accounts to be trusted for delega	Not Defined	
Application Control Policies	Force shutdown from a remote system	Not Defined	
IP Security Policies on Active Advanced Audit Policy Conf	Generate security audits	Not Defined	
Advanced Audit Policy Conf Policy-based QoS	B Impersonate a client after authentication	Not Defined	
Administrative Templates: Policy de	Increase a process working set	Not Defined	
Preferences	Increase scheduling priority	Not Defined	
User Configuration	Load and unload device drivers	Not Defined	
b Policies	Lock pages in memory	Not Defined	
Preferences	Log on as a batch job	Not Defined	
	Log on as a service	Not Defined	

J	Group Policy Management Editor	-	ō X
File Action View Help			
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rdsh [LAB-AD-1.VMWARE.LAB] Policy	Policy Policy Setting		
A Policies	Allow log on through Pamota Deckton Services Pr ? X	Π	
Policies Software Settings	Allow log on through Remote Desktop Services Pr		
Software Settings Mindows Settings	Security Policy Setting Explain		
Name Resolution Policy			
Scripts (Startup/Shutdown)	Allow log on through Remote Desktop Services		
Scripts (startup/snutdown) A B Security Settings		hain Users,VMWA	
A Security Security			
A T Local Policies	Define these policy settings:		
A di Audit Policy			
User Rights Assignment			
Security Options			
Event Log			
Restricted Groups			
Registry File System			
Wired Network (IEEE 802.3) P			
Windows Firewall with Adva			
Network List Manager Polici	Add User or Group Remove		
Wireless Network (IEEE 802.1			
Public Key Policies	This setting is not compatible with computers running Windows 2000 Service Pack 1 or earlier. Apply Group Policy objects		
Software Restriction Policies	containing this setting only to computers running a later version of		
Network Access Protection	the operating system.		
Application Control Policies			
IP Security Policies on Active			
Advanced Audit Policy Conf			
Policy-based QoS	OK Cancel Apply		
Administrative Templates: Policy de	OK Cancal Apply		
Preferences	Commences service service priority rise service		
M 🕵 User Configuration	Load and unload device drivers Not Defined		
Policies	Lock pages in memory Not Defined		
Preferences	Log on as a batch job Not Defined		
< 111 >	Log on as a service Not Defined		
			-
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18. The Allow log on locally Properties menu will appear. Ensure the check box for **Define these policy settings** is checked and click **Add User or Group...**

19. Now we will define which users or groups we will allow for this policy. Click **Browse**.

<u>.</u>	Group Policy Management Editor	- 0 X
File Action View Help		
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	Policy Policy Setting Macher Contential Manager at Abuited caller Macher Contential Manager at Abuited caller Move log on through Remote Desktop Services Now log on through Remote Desktop Services Above Setting: Above Setting: Macher Macher Mach	=
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9	Group Policy Management Editor	. 🖬 🗙
File Action View Help		
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i rdsh [LAB-AD-1.VMWARE.LAB] Policy	Policy Policy Setting	
Computer Configuration	Policy Policy Setting	
A Policies	Allow log on through Remote Desktop Services Pr ? X	
b Software Settings		
4 🦉 Windows Settings	Security Policy Setting Explain	
Name Resolution Policy	Tilling Market Barris Datas Cartas	
Scripts (Startup/Shutdown)	Allow log on through Remote Desktop Services hain Users,VMWA	
A Security Settings	Line of the set of the	
Account Policies	Define these policy settings:	
4 🗿 Local Policies		
Audit Policy		
User Rights Assignment	Add User or Group	
Security Options		
Event Log Restricted Groups	Select Users, Computers, Service Accounts, or Groups	
System Services		
P Registry	Select this object type:	
b A File System	Users, Service Accounts, Groups, or Bult-in security principals Object Types	
Wired Network (IEEE 802.3) F	From this location:	
Windows Firewall with Adva	vmware lab Locations	
Network List Manager Polici		
Wireless Network (IEEE 802.1	Enter the object names to select (examples):	
Public Key Policies	Check Names	
Software Restriction Policies		
Network Access Protection		
Application Control Policies	Advanced OK Cancel	
IP Security Policies on Active Advanced Audit Policy Conf		
Policy-based QoS		
Administrative Templates: Policy de	OK Cancel Apply	
Preferences	Commences serversaming priority revenues	
Ser Configuration	Load and unload device drivers Not Defined	
Policies	Lock pages in memory Not Defined	
Preferences	🖉 🕼 Log on as a batch job Not Defined	
	Log on as a service Not Defined	
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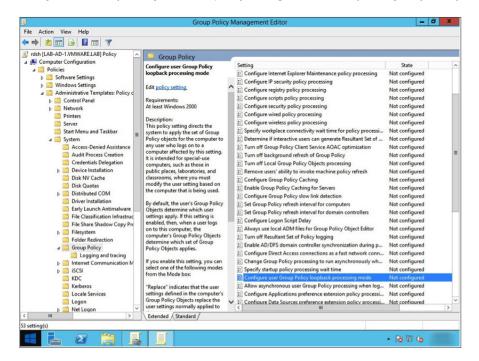
20. Enter the names of the user or groups that you will allow access in the **Enter the object names to select** field and click **OK**.

21. Verify that you are adding the correct users or groups, then click **OK**.

22. Verify that you have added all the users or groups you wilsh to authorize and click **OK**. If you need to add additional users or groups click **Add User or Group...** to go through the previous menus and make the necessary changes.

•	Group Policy Management Ec	ditor	- 6 :
File Action View Help			
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rdsh [LAB-AD-1.VMWARE.LAB] Policy	Policy	Policy Setting	
A Computer Configuration A Policies Software Settings Windows Settings Windows Settings B Software Security Options B Software Security Optices on Active B Software Security Policies Policy de B Software Security Optices Policy de B Preferences B Preferences Software S	Allow log on through Remote Desktop Service Secury Poly Setting Bedain Now log on through Remote Desktop Service Allow log on through Remote Desktop Leve Allow log on through Remote Desktop Service Allow log on through Remote Desktop Service Allow log on through Remote Desktop Leve MWARE/Domain Users Add User or Graup. Remove The setting and compatible with compatible with concatining this setting only to computer surving at the operating system. Cox Log on as a service Log on as a service	se vain Users, VMWA vain Users, VMWA	

23. You will return to the Group Policy Management Editor. Navigate to the **Computer Configuration** > **Policies** > **Administrative Templates: Policy definitions (ADMX files) retrieved from the local machine**. > **System** > **Group Policy**. Click the policy **Configure user Group Policy loopback processing mode**.



<u>s</u>	Group Policy Management Editor	_	o x
File Action View He			
🗢 🌩 🖄 📰 🔒	Configure user Group Policy loopback processing mode		
rdsh [LAB-AD-1.VMW	Configure user Group Policy loopback processing mode Previous Setting Next Setting	State	^
 ▷ Software S ▷ Windows S ▲ Administra ▷ ○ Contro ▷ ○ Networ ○ Networ ○ Printers ○ Server 	Not Configured Comment: Enabled Disabled Supported on: At least Windows 2000 At least Windows 2000	Not configured Not configured Not configured Not configured Not configured Not configured	
a 🧮 System	Options: Help:	Not configured Not configured	
Acc Acc Cre Dev Dev Dist Dist Dist File File File File File File File File	Mode: Replace This policy setting directs the system to apply the set of Group Policy Objects for the computer to any user who logs on to a computer such as those in public places, liboratories, and classrooms, where you must modify the user setting based on the computer that is being used. By default, the user's Group Policy Objects determine which user settings apply. If this setting, is enabled, then, when a user logs on to this computer, the computer's Group Policy Objects applies. If you enable this setting, you can select one of the following modes from the Mode boar. "Replace" "Replace" indicates that the user settings defined in the computer's Group Policy Objects replace the user settings normally applied to the user.	Not configured Not configured	-
📔 Log	OK Cancel Apply	Not configured	~
< III Net	Extended (Standard /		2
53 setting(s)			
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24. Click **Enabled** to enable this policy. Click **OK**.

25. You will return to the Group Policy Management Editor. Verify that your policy is enabled by ensuring the that the State value for the policy has change to Enabled.

rdsh [LAB-AD-1.VMWARE.LAB] Policy	Group Policy			
Computer Configuration Policies Status Configuration Source Settings Control Panel Contro	Configure user Group Policy Configure user Group Policy loopback processing mode Edit <u>policy setting</u> Requirements: At least Windows 2000 Description: This policy setting directs the system to apply the set of Group Policy objects of the computer to any user who logs on to a computer affected by this setting. It is intended for special-use computer affected by this setting. It is intended for special-use computer affected by this setting. It is intended for special-use computer system is above and public places, laboratories, and classrooms, where you must modify the user setting based on the computer System is Group Policy Objects determine which user settings apply. If this setting is enabled, then, when a user logs computer Group Policy Objects determine which set of Group Policy Objects applies.	Setting E Configure Internet Explorer Maintenance policy processing E Configure registry policy processing E Configure registry policy processing E Configure scripts policy processing E Configure security policy processing E Configure wireless policy processing E Configure wireless policy processing E Configure wireless policy processing E Determine I interactive users can generate Resultant Set of E Turn off Group Policy Client Service ADAC optimization E Turn off Local Group Policy Objects processing E Remove user's ability to invoke machine policy refresh E Configure Group Policy Caching for Serves E Configure Group Policy Caching for Serves E Configure Group Policy Caching for Serves E Configure Group Policy Caching for Gomputes E Set Group Policy refresh interval for domain controllers E Configure Logon Script Delay E Always use local ADM files for Group Policy Object Editor E Turn off Resultant Set of Policy loging E Senable Oirce Jords to foroup Policy Conjaries for computers E Set Group Policy Serves interval for computers E Set Group Policy Teresh interval for Computers E Set Group Policy Ter	State Not configured Not configured	
KDC Kerberos Cocale Services Logon Net Logon	Replace" indicates that the user settings defined in the computer's Group Policy Objects replace the user settings normally applied to	Configure user Group Policy loopback processing mode Allow asynchronous user Group Policy processing when log Configure Applications preference extension policy processi Configure Data Sources preference extension policy processi	Not configured	>

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File Action View Window Help		_ # ×
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Group Policy Management A A Forest: vmware.lab A Domains	rdsh Scope Details Settings Delegation rdsh	
 ▲ main vmware.lab → Gaut Domain Policy → G Domain Controllers → G rdsh 	Data collected on: 3/18/2014 2:54:11 PM Computer Configuration (Enabled)	show all
⊿ i rdsh	No settings defined.	
Group Policy Objects	User Configuration (Enabled)	hide
WMI Filters GPOs	No settings defined.	
👸 Group Policy Modeling 📸 Group Policy Results	Pa	
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26. Now you may close the window for the Group Policy Management Editor. You will return to the Group Policy Management window.

Now you have successfully configured the Group Policy Setting for user access to Remote Desktop Session services.

Configuring View

After you have installed the View component servers, you are ready to configure View. This section contains the following exercises:

- Add a License
- Connect vCenter Server Appliance and Configure the View Composer Settings
- Configure Persona Management Administrative Templates in Active Directory
- Adjust PCoIP Settings for PCoIP Tuning
- Configure Syslog Event Logging
- Enable Windows Server 2008 R2 SP1
- Create a Farm for Remote Desktop Session Hosts

Add a License

You must have a valid license to use View.

1. Log in to the View Administrator console as an administrator.



2. In the left menu, click **Product Licensing and Usage**, and then click **Edit License** in the Licensing section.

	ssing and Usage				
iessions 0 hoblem vCenter VMs 0 hoblem RDS Hosts 0	ensing				Customer Experience Program
Ivents 💮 0 🚠 0 Ed	Edit License			Edit Settings Send anonymous data to VMware On	
sventory					Geographic Location:
Deshboard Users and Groups Catalog					Business Vertical: Number of Employees:
Resources Use	uge				
Machines Ret	set Highest			\$	
Monitoring Policies	Session Mode	Current	Highest		
View Configuration Tota	al Remote	0	0		
pervers	ctive - full virtual machines	0	0		
and the second se	ctive - linked clone	0	0		
12/2012	ictive - other machine sourc- ictive - applications	0	0		
Administrators	cove - applications	0	0		
ThinApp Configuration					
Event Configuration					

3. Enter a valid license serial number and click **OK**.

Edit License		
License serial number: *		
	ОК	Cancel

4. In the Licensing section, verify your license information.

VMware Horizon View	Administrator	A			About Help Logout (edministrator)			
Lipcietes 3/13/14, 10:59 AM	Licensing and Usage							
Sessions 0 Problem vCenter VMs 0 Problem RDS Hosts 0	Licensing				Customer Experience Program			
Events 0 0 1 0 System Health 1 2 1 0	Edit License				Edit Settings Send anonymous data to VMware On			
Inventory	Desktop license:	Enabled			Geographic Location:			
Deshboard Deshboard Users and Groups Catalog Resources Eferns	Application Remoting license: View Composer license: Usage Model:	E Babled Enabled Concurrent User			Business Versical: Number of Employees:			
Machines	Usage							
Persistent Disks Monitoring Policies	Reset Highest							
View Configuration	Session Mode	Current	Highest					
Servers		0	0					
Product Licensing and Usage Global Settings	Active - full virtual machines	0	0					
Registered Machines		0	0					
Administrators	Active - other machine sourc		0					
ThinApp Configuration	Active - applications	0	0					
Event Configuration								

Now that you have a valid license, you can connect the vCenter Server Appliance and configure the View Composer Server settings.

Connect vCenter Server Appliance and Configure the View Composer Settings

1. On the View Administrator Dashboard, select **View Configuration** > **Servers**.

Updated 3/13/14, 11:20 AM	Dastoard							
Sessions 0 Problem Contervity	System Health			Nacive Status	Updated 3/13/14,	11.20:03 AM 🧟		
	View components E Connection Servers		b.l	VCenter VMs RDS Hosts Others		N		
	Bourd Sababae Bescher Gababae Bescher Gababae Other components P Domains			Carring Problem Machines	8			
				► C Prepared for use		6		
	Deastors () () () () () () () () () () () () ()							
	Detastore	vCenter Server		Path	Capacity (GB)	Free Space (GB)		

2. In the **Servers** window, on the vCenter Servers tab, click **Add**.

VMware Horizon View	Administrator	About Help	Logout (administrator)
Volated 3/12/2014 4/08 PM	Servers		
Sessions 0 Problem vCenter VMs 0	vCenter Servers Security Servers Connection Servers		
Problem RDS Hosts 0 Events 0 0 0 0 0 System Health 1 10 10 11	Add		
1 10 1 0	vCenter Server	VM Disk Space Recla View Storage Accelera	. Provisioning
Inventory			
Anaboad Sura ad Groups Galaxy Sura ad Groups Catalog Freeserces Freeserces Presserce Data Presserce Data			

3. In the Server address text box, type the fully qualified domain name or IP address of your vCenter Server. Accept or modify the default values for the other settings, and then click **Next**.

Vpdaved 2/12/2014 4:08 PM 2 Sessions 0 Problem vCenter VMs 0 Problem RDS Hosts 0 Events 0 0 1 0	Severa	outo Servers Connectio	in Servers					
	Add vCenter Server							
	Add vCenter Server		14					
Svaten Haah 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	VC Drómaton Vier Compens Storage Risodr To Complete	vCenter Server Address: User name: Passed: Description: Port: Advanced Settings Beedy the concurrent Max concurrent View Genepations: Max concurrent View Composer mantenan operations: Max concurrent View Composer provisionin operations:	coperation limits.	vconte ferre dettiop vconte vconte vconte vconte		Proteining		

4. In the Invalid Certificate Detected dialog box, click **View Certificate** to see the vCenter Server SSL certificate. In an evaluation environment, you can use a default self-signed certificate, but for a production environment, it is recommended that you replace the self-signed certificate with an approved certificate from a Certificate Authority.

Notesse S/12/14, 11/48 Am. 2/ Sessions 0 Problem vCenter VMs 0 Problem 2007 success	Servers Add vCenter Server	n de Parana - Para de la casa		Help Log	
Product vice vice vice vice vice vice vice vice	Add scienter Server Add scienter Server Ver Company Serveys Ready to Complete	Volimite Server Settings Volimite Settings Volimite Server Settings Volimite Settings	<section-header><section-header><text><text><text><text><text></text></text></text></text></text></section-header></section-header>		Darkonng

5. Verify the self-signed certificate generated by the default installation of the vCenter Server Appliance, and click **Accept** to approve.

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Proteiner RDD beacht Add Vectorie Store System Rucht ver Taxand to: Itsund to:	Convertent Convertent

- 6. Configure the View Composer Server settings, and then click Next.
 - a. Select **Standalone View Composer Server** and type the required server address, either the FQDN or IP address of your View Composer Server virtual machine.
 - b. Enter the user name and password of the server.
 - c. Modify the port value only if you modified it during the View Composer Server installation. Otherwise, use the default.

	Severa				
Sessions 0 Problem vCenter VMs 0 Problem RDS Hosts 0	Add vCenter Server	ty Servers Connection Servers			
Events 0 0 0 0 System Health	Add vCenter Server	View Composer View Composer Settings	View Composer Settings	Accelera	Directaloning
Inventory Cobband C	View Composer View Composer Sourage Ready to Complete	Do not use View Compose Do not use View Composer is initialled with vicenter Server Drose their Server Composer is initialled on the same server as vicenter there: issue Drose their Server Composer is initialled on a separate server from vicente Server address: unversible View nomposer is initialled on a separate server from vicente View nomposer is initialled on a separate server from vicente View nomposer is initialled on a separate server from vicente View nomposer is initialled on a separate server from view is view is view is	View Composer can be installed on the V-control Server host or a standardism host. Before you add View Composer to View, install a valid SBL controlled on the standard server of the default, self-append controls that is installed with View Chuc controls the View Chuc control with view the certificate thumbprint.		
			< Back Next > Cancel),	

7. In the Invalid Certificate Detected dialog box, click **View Certificate** to see the View Composer SSL certificate. In an evaluation environment, you can use a default self-signed certificate, but for a production environment, it is recommend that you replace the self-signed certificate with an approved certificate from a Certificate Authority.

Spelated NAN2224 4108 PM	Servers							
Sessions 0 Problem vCenter VMs 0 Problem RDS Hosts 0	Add vCenter Server	uccenter Server Server Connection Server						
Events 🔮 o 🟦 o System Health 🖬 📑 💽	Add vCenter Server	View Composer						
1 10 1 0	VC Information View Composer	View Composer Settings View Composer Settings View Composer Settings	Inconstrate Provisioning:					
Inventory	Verw Completer Dumany Storage	Do not use View Composer on the vCenter Sa standalone host.						
Austricuted Austricuted Austrian Austria	Ready in Complete	View Composer co-installed with (Center Server Creater Invalid Cestificate Detected Invalid Cestificate Invalid Invalid Invalid Cestificate Invalid Inv	d SSL centificate ed CA. In a treat can use the d centificate ith View must accept					
		< Back Ne	it > Cancel					



8. Verify the self-signed certificate generated by the default installation of the View Composer Server, and click **Accept** to approve.

9. To add a View Composer domain, click Add.

Sessions 0								
Problem vCenter VMs 0 Problem RDS Hosts 0	Add vCenter Servers Security	ity Servers Connectio	o Servera	_		7		
Events O 0 A 0	Add vCenter Server View Composer Domains						13	9
System Health 🖬 🚺 💽 🗐 1 10 1 0	VC Information View Composer	View Composer Dom			View Composer Domains View Composer adds computer	Accelera_	Provisioning	
inventory	View Composer Domains Storage	Add	Remove		accounts for linked-clone machines in the AD domains			
Constances C					Consolver use accounts for the domain must have Create domain must have Create Computer Objects, and Write All Preparties permission in the domain. When you create a fielded-one when you create a fielded-one domain from the list to all the computer accounts.	-		
					< Back Next > Cancel			

Sessions					
Sessions 0 Problem vCenter VHs 0 Problem RDS Hosts 0	Add Center Server	1			
Events O A 0 System Health I I I I	Add vCenter Server VC Information View Composer	View Composer Domains View Composer Domains	Accelera Provisioning		
Investory	Ken Corporer Domans Storage Ready to Complete	Add Domain Full domain name: umw: User name: admi	ser Desistop Po me Jab nistrator@vmware.lab	Very Composer adds computer visions of predokt-dense configurant laws. The Vision Composer and account for the Composer and account for the Composer objects, and with a dense of the Composer objects of the Composer objects, between Composer objects, between Composer objects, between Composer objects, and with a dense of the Composer objects of the composer objects of the Composer of the Composer objects of the Composer of the Composer objects of the Composer objects of the Composer objects of the Composer objects of the composer objects of the Composer objects of the Composer objects of the Composer objects of the Composer objects of the Composer objects of the Composer objects of the Composer objects of the Composer objects of the Composer objects of the Composer objects of the Composer objects of the Composer objects of the Composer	
			OK Cano	cBack Teets Cancel	
		_			

10. In the Add Domain dialog box, enter the full domain name, user name, and password, and then click **OK**. The user name and password are the credentials for your domain. This account must have permission to create computer objects, delete computer objects, and write properties in the domain.

11. Review the information and then click **Next**.

Session Product vicence Wei Product vicence Wei Product vicence Server Veix Comparer Domains Product vicence Server Product V	Problem vCenter VMs 0 Problem RDS Hosts 0 Events 0 0 0 0 0 0 System Health 0 0 0 0 1 10 1 0 Inventery 0 Dashboard 0 Users and Groups	dd vCenter Server dd vCenter Server VC Information View Composer View Composer Domains Storapo	View Composer Doma View Composer Dom	ains]	
Interesting Distribution Mark Content Servers Very Composer Domains Very Composer Domains Interesting Interesting Very Composer Domains Very Composer Domains Interesting Very Composer Domains Mark Content Servers Very Composer Domains Interesting Very Composer Domains Mark Content Servers Very Composer Domains Interesting Very Composer Domains Mark Content Servers Very Composer Domains Interesting Very Composer Domains Mark Total Servers Very Composer Domains Interesting Very Composer Domains Mark Total Servers Very Composer Domains Interesting Very Composer Domains Mark Total Servers Very Composer Domains Interesting Very Composer Domains Mark Total Servers Very Composer Domains Interesting Servers Domain User Domain Content Servers Interesting Servers Domain User Domain Content Servers Interesting Servers Domain User Domain Content Servers Interesting Servers Domain Content Servers Wein you create Servers Domain Content Servers Interesting Servers Domain Content Servers Wein you create Servers Domain Content Servers	Problem RDS Hosts C Events O do C System Health D do C I so I o Inventery O Deshboard D uers and Groups	dd vCester Server VC Information View Composer View Composer Domains Storage	View Composer Dom					3 8
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Newster Mex Ownam Ads	Inventory Cashboard Users and Groups	View Composer Domains Storage	Add			Accelera_	Provisioning	
Biology Domain User Design point Calabase at Groups Rody's Conjusta Omain User Design point Calabase at Groups Rody's Conjusta Administrator Image: Calabase at the distrator Calabase at Groups Rody's Conjusta Administrator Image: Calabase at the distrator Calabase at Cala	Cashboard			Remove	accounts for linked-done	Contraction of the		
<box net=""> Cancel</box>	Anne Anne Annole Admonstrators Annole Annole	Kaudy to Compete			Desitop Pool	configured here. The View Composer user accounts for the domains must have Create Computer Objects, Delete Computer Objects, and Write All Propurties permosions in the domains. When you create a linked-done desixop pool, you select a domain from this list to store the		
						< Back Next > Cancel		

12. Configure the storage options for your vCenter Server, and then click Next.

If you enabled View Storage Accelerator, enter the host cache size. The default is 1024MB. You can use any valid value.

Add vCenter Server							
Add vCenter Server	Storage						
VC Information View Composer View Composer Domains	Storage Settings		Storage Settings ESXi hosts can be configured to				
View Composer Domains Storage Ready to Complete	Reclam Vri Usk space Enable View Storage Accelerator Default host cache size: 1024 Cache must be between 100 MB and	cache virtual machine disk data, which improves performance du I/O storms such as when many desktops power on and run anti virus scans at once. Hosts read common data blocks from cache instead of reading the OS from					
	Hosts Show all hosts Edit cache size	By reducing IOPS during boot storms, View Storage Accelerati lowers the demand on the stor array and uses less storage I/O bandwidth.					
	Host	Cache Size	bandwiden.				
	/ demolab.	Default					
			< Back Next > Cancel				

13. Review the vCenter Server information, and then click **Finish** to accept these values and add the vCenter Server to your View environment. To modify any settings, click **Back**.

Updated 3/12/201# 4-08 PM 🧟	Servers			
Sessions 0 Problem vCenter VMs 0 Problem RDS Hosts 0	Add vCenter Server	ty Servers Connection Servers		
Events @ 0 & 0	Add vCenter Server	Ready to Complete		ia e
1 10 1 0	VC Information View Composer	vCenter Server User name	.vmw.are.lab	AcceleraProvisioning
nventory	View Composer Domains Storage	Password		
C Deshboard	Ready to Complete	Description		
S Users and Groups		Server Port	443	
Catalog		Max Provision	20	the second se
Resources		Max Power	50	
Machines		Max View Composer Operations	12	
Persistent Disks		Max View Composer Prevision	9	
Monitoring		View Composer State	Standalone View Composer Server	
Policies		View Composer Address	.vmwareLab	
View Configuration		View Composer Password	******	
Product Licensing and Usage		View Composer User Name	administrator@vmware.lab	
Global Settings		View Composer Port	18443	
Registered Machines		Enable View Storage Accelerator	No	
Administrators		VM Disk Space Reclamation	No	
ThinApp Configuration				
Event Configuration				the second se
				and the second se
			< Back Finish Ca	ocel)

VMware Horizon View	Administrator		About Help Lo	pout (adminis	trator)
Updated 3/12/2014 4-DE PM	Servers				
Sessions 0 Problem vCenter VMs 0	vCenter Servers Security Servers Connection Servers				
Problem RDS Hosts 0 Events 🔮 0 🎄 0 System Health 🖬 🚺 💽	Add [Tult] Fastove [Disable Provisioning] Enable Provisioning			3	0
1 10 1 0	vCenter Server	VM Disk Space Reda	View Storage Accelera	Provisioning	
Inventory	2 .vmware.lab(root)			~	
Cardooad Guarboad Guarboad Guarboad Guarboad Guarboad Guarboad Guarboad Guarboad Guarboad Fonder Fonder					

14. In the vCenter Servers tab, you can view the vCenter Server added to your View environment. To make changes to the connection information or settings, click **Edit**.

You have now connected to the vCenter Server Appliance and configured View Composer Server.

Configure Persona Management Administrative Templates in Active Directory

You can choose to skip this exercise and return to it after completing the rest of the exercises in this document.

It is recommended that you configure Persona Management Administrative Templates. They provide persistent, dynamic user profiles across user sessions on different desktops. User profile data is downloaded as needed to speed up login and logout time. New user settings are automatically sent to the user profile repository during desktop use.

For instructions on importing and tuning the Persona Administrative Template in Active Directory Group Policy, see the VMware View Persona Management Guide.

Adjust PCoIP Settings for PCoIP Tuning

You can choose to skip this exercise and return to it after completing the rest of the exercises in this document.

It is recommended that you adjust the PCoIP settings to ensure the best user experience. For instructions on tuning PCoIP, see the VMware View 5 with PCoIP Network Optimization Guide.

Configure Syslog Event Logging

You can use the Syslog feature to send View events to a Syslog server.

1. In the View Administrator console, click **View Configuration** > **Event Configuration**, and then under Syslog on the right, click **Add**.

Update: 3/34/14, 11:07 PH 😋	Event Configuration		
	Event Configuration	Syste Configure systeg event an unsecured network is Send to systeg servers: Log to file: Copy to location:	About Help Logout (Administrato
Administrators			

2. In the Add Syslog Server dialog box, enter the server address and UDP port for your target Syslog server, and then click **OK**.

Updated 3/14/14, 11:27 PH	Event Configuration								
Sessions 1 Problem vCenter VMs 0	Event Ostabese		Systog						
Problem RDS Hosts 0 Events 0 0 0 0 0 System Health 7 2 1 0	Edit No database has been defined, events w database server.	ill not be recorded. Click 'Edit' to specify a		nt logging using one or more methods below. Use of this feature o rk is not recommended. rs: Add					
Inventory	Event Settings								
Dashboard Desrs and Groups Catalog	Event settings cannot be configured unt	til a database server has been specified.							
► Catalog T Resources		Add Syslog Server	file:	Enable					
Resources Frans Machines Persistent Disks Monitoring Policies View Configuration Servers		Add the server, to send syslog events. Server address: localhost domain.com UDP Port: 514	e location:						
Product Literating and Usage Olival Sensing Registered Machines Applications Applications Tricking Configuration Event Configuration		OK .	brot						

You have now set up Syslog collection for View events.

Enable Windows Server 2008 R2 SP1

You can enable Windows Server 2008 R2 with SP1 to use for desktop deployment on View Connection Server.

1. In the View Administrator console, click Global Settings and in the General pane, click Edit.

2. Select the check box Enable Windows 2008 R2 desktops and then click OK.

VMware Horizon View A	Global Settings	General Settings	About Help Logout (Administrator
Investary	Tex Very Administrator sealer of Porcely discontext users: Surge say-or (SSO): Cleant-dependent setting Porcients that support Results of contentiate Discontext and Societarian Discontext and Societarian Activity of the Soc	Ver Administrator session timesu:: 30 Minutes Forothy disconient users:: Image group of Solority: Image group of Solority: Image group of Solority: Break science: there are an	y paravert No Bradaed Na
	Mraga Server configuration	☑ Display warning before forced logaff: After savning, log of after: 5 Your cassion saveling to an intervent casses and will have been in 5 minutes. These save any varient with the Of Chable Windows Server 2008 R2 desitage: 0 ☑ Chable Windows Server 2008 R2 desitage: 0 Wrage Server configuration:	

You have enabled Windows Server 2008 R2 SP1 View Desktop support. You are now ready to create a farm for Remote Desktop Session hosts.

Create a Farm for Remote Desktop Session Hosts

- 1. In the View Administrator console, select **Resources** > **Farms**.
- 2. Click **Add** to start the Add Farm wizard.

Updated 5/23/14, 1:10 PM	Farms					
Sessions 0 Problem vCenter VMs 0 Problem RDS Hosts 0	Add	More Commands Acc	iess Group			
Events System Health 5 3 1 0	Filter +	Find Clear	Access Group: Al 🔹			6 0
Inventory	ID	RDS Hests	Desktop Pool	Application Pools	Max number of connections	Enabled
Deshared Were and Groups Ware and Groups Catalog Management Termon Management Management						

- 3. In the Add Farm wizard, enter a name for your farm in the **ID** text box.
- 4. For the other options, use the defaults settings or make changes, and then click **Next**.

VMware Horizon View	Administrator				About Help Logout	(Administrator)
Updated 5/23/14, 1:10 PM Sessions 0 Problem vCenter VMs 0 Problem RDS Hosts 0	Farms	ete) • More Commands • Ac	xcess Group		_	
Events 0 A 0 System Health 5 3 1 0		cation and Settings Identification an	nd Settings		Max number of connections	🔒 🥥 Enabled
Coshboard Coshb		Complete o Complete ID: Description: Access group	dah tem			
♥ View Carifiguration Servers Product Ucensing and Usage Global Sections Registered Nachres Administrators Thinkap Configuration Event Configuration		Empty sessio (applications When timeou	ay protocol: PCoIP	٥		
				Next > Cancel		

VMware Horizon View	Administrator	, k					About Help Logout	(Administrator)
Updated 5/23/14, 1:10 PM 🖉	Farms							
Sessions 0 Problem vCenter VMs 0 Problem RDS Hosts 0 Events © 0 @ 0	Add Ed	E Delete More Con	Access Group					
Events System Health 5 3 1 0	Filter +	Add Farm			_			6 Q
Inventory	10	Identification and Settings	Select RDS Hosts				Nax number of connections	Enabled
		Select RDS Hosts	Select RDS hosts to add to the f	arm.				
Dashboard		Ready to Complete	DNS Name	Type	Max number	Status		
Catalog			demo-rdsh.domain.corp.local	Windows Serve		Available		_
Y Resources			demo-rosh.comain.corp.local	windows serve	150	Available		
H Farms								_
A Machines								
Persistent Disks Monitoring								_
► Policies								
▼ View Configuration								
Servers								
Product Licensing and Usage Global Settings								
Registered Machines								
Administrators								
ThinApp Configuration								
Event Configuration								
								_
								_
							·	
					< Bac	k Next > Cancel),	

5. Select which RDS hosts to add to your farm, and click **Next**.

6. Review the settings, and click **Finish** to set up your RDS host farm. If you want to make changes, click **Back**.

					About Help Logout	(Administrator)
Updated 5/23/14, 1110 PM Sessions 0 Problem vCenter VMs 0 Problem RDS Hosts 0	Farms	R Delete • More Con	mands · Access Group	1		
Events 0 0 0 0 System Health 5 3 1 0	Filter +	Add Farm				
Inventory		Identification and Settings	Ready to Complete		Max number of connections	Enabled
(Dashboard		Select RDS Hosts Ready to Complete	ID:	rdsh-farm		
Users and Groups		Ready to Complete	Description :			
► Catalog			Access Group:	1		
T Resources			Default display protocol:	PCoIP		
Farms			Allow users to choose protocol:	Yes		
Persistent Disks			Empty session timeout (applications only):	1 minute		
► Policies			When timeout occurs:	Disconnect		
▼ View Configuration Servers			Log off disconnected sessions:	Never		
Product Licensing and Usage Global Settings			Number of RDS hosts in the farm:	1		
Registered Machines						
Administrators ThinApp Configuration						
Event Configuration						
				< Back Finish Cancel		
				1		1.1

Updated 5/23/14, 1:10 PM 🤤	Farms								
Sessions 0 Problem vCenter VMs 0 Problem RDS Hosts 0 Events 0 0	Add	Edit Del	ete) 💌 M	lore Commands 🔹 Ad	ccess Group				
System Health 5 3 1 0	Filter 👻			Find Clear	Access Group: All 🔹				
nventory		ID	1	RDS Hosts	Desktop Pool	Application Pools	150	ax number of connections	Enabled
	rdsh-farm		1			0	150		-
Dashboard									
Catalog									
Resources									
11 Farms									
Machines	1								
Persistent Disks									
Monitoring									
Policies									
View Configuration									
Servers Product Licensing and Usage									
Global Settings									
Registered Machines									
Administrators									
ThinApp Configuration									
Event Configuration									

7. You are brought back to the Farms window, which now lists the new RDS host farm.

You are now ready to prepare desktop images and create parent virtual machines for a linked-clone desktop pool.

Preparing Desktop Images for Linked-Clone Desktop Pool Deployment

In this and the next series of exercises, you prepare two types of desktop images to use to deploy remote desktops. One desktop image is for linked-clone deployment, and the other is for full-clone deployment.

This section describes how to deploy Windows 7 32-bit View desktops configured in a stateless linked-clone pool. You install the required agents and optimize the desktop image for linked-clone deployment in the following exercises:

- Create the Parent Virtual Machine for Desktop Deployment
- Install View Agent
- Install the View Agent Direct-Connection Plug-In (Optional)
- Optimize the Parent Virtual Machine for Desktop Deployment
- Install Custom Applications and Configure the Parent Virtual Machine Operating System (Optional)
- Prepare the Parent Virtual Machine for Linked-Clone Deployment

You can use virtual machines managed by vCenter Server to provision and deploy desktops as templates for automated full-clone pools, as parents for linked-clone pools, or as a desktop source in a manual pool. You must prepare virtual machines to deliver View desktop access.

See the View Administration guide for more information about preparing desktop images for additional types of pool deployments.

Create the Parent Virtual Machine for Desktop Deployment

You start by creating a parent virtual machine for desktop deployment. A parent virtual machine is also referred to as a *golden image* or *master image*.

1. Log in to your host from the vSphere Client, and create a new parent virtual machine or template using the following specifications for a nonproduction deployment as a guide.

ТҮРЕ	VCPUs	RAM	VIRTUAL DISK SIZE
Knowledge worker	1 vCPU	2GB RAM	24GB
Power worker (with vSGA 3D graphics)	2 vCPUs	4GB RAM	24GB

Table 10: Parent Virtual Machine Specifications for Nonproduction Deployment

Note: These desktop specifications are recommended for evaluating a nonproduction deployment. For a production environment, where desktop sizing varies based on the types of user workloads, see the View Architecture Planning guide for best practices on resource planning.

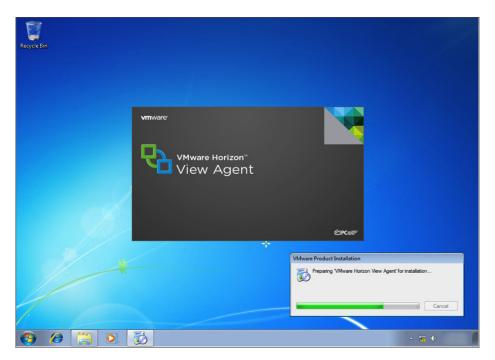
- 2. Install the Windows 7 32-bit guest operating system.
- 3. Activate your Windows operating system according to your organization's procedures.
- 4. After the installation is complete, log in to the virtual machine as a local administrator.

Proceed to the next exercise to install View Agent.

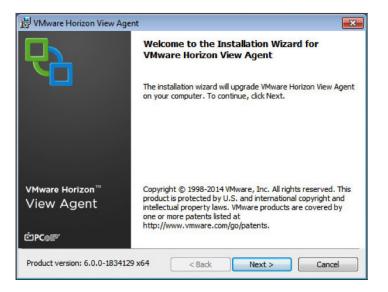
Install View Agent

Installing View Agent also enables Persona Management on the desktop image virtual machine.

1. Launch the View Agent installer using the Run As Administrator option. Ensure that the installer is accessible from your virtual machine.



2. Wait for the installer to load, and then click **Next**.



3. Review and accept the terms and conditions, and then click **Next**.

😸 VMware Horizon View Agent 🔤					
License Agreement					
Please read the following license agreement carefully.					
VMWARE END USER LICENSE AGREEMENT					
PLEASE NOTE THAT THE TERMS OF THIS END USER LICENSE AGREEMENT SHALL					
GOVERN YOUR USE OF THE SOFTWARE, REGARDLESS OF ANY TERMS THAT MAY					
APPEAR DURING THE INSTALLATION OF THE SOFTWARE.					
IMPORTANT-READ CAREFULLY: BY DOWNLOADING, INSTALLING, OR USING THE SOFTWARE, YOU (THE INDIVIDUAL OR LEGAL ENTITY) AGREE TO BE					
BOUND BY THE TERMS OF THIS END USER LICENSE AGREEMENT ("EULA"). IF					
I accept the terms in the license agreement					
I do not accept the terms in the license agreement					
< Back Next > Cancel					

4. In the Custom Setup window, it is recommended that you enable all the features (the default) to take full advantage of View Agent and properly complete these exercises. Optionally, you can disable the features you do not want and change the default installation directory by clicking **Change**. Click **Next**.

ustom Setup Select the program features you want installed.	R
ick on an icon in the list below to change how a feat WWware Horizon View Agent USB Redirection HTML Access WMware Horizon View C Real-Time Audio-Video Virtual Printing VCenter Operations Mai VMware Horizon View Pc +	ature is installed. Feature Description VMware Horizon View Agent This feature requires 87MB on your hard drive. It has 7 of 8 subfeatures selected. The subfeatures require 24MB on your hard drive.
istall to: :\Program Files\VMware\VMware View\Agent\	Change Back Next > Cancel

5. Select **Enable the Remote Desktop capability on this computer**. If you select **Do not enable...** you can also manually enable this feature later and configure the firewall exceptions. Click **Next**.

🛃 VMware Horizon View Agent
Remote Desktop Protocol Configuration
The following information is used to configure the Remote Desktop feature
VMware Horizon View Agent requires the Remote Desktop support to be turned on. Firewall exceptions will be added for the RDP port #3389 and the View Framework channel #32111. What would you like to do?
Enable the Remote Desktop capability on this computer
\bigodot Do not enable the Remote Desktop capability on this computer
< Back Next > Cancel

Ready to Install the Program		
The wizard is ready to begin inst	tallation.	2
VMware Horizon View Agent will	be installed in:	
C:\Program Files\VMware\VMw	vare View\Agent\	
Click Install to begin the installat	tion or Cancel to exit the wizard.	

7. Monitor the installation status as it progresses.

😸 VMware	Horizon View Agent	- • •
	VMware Horizon View Agent ram features you selected are being installed.	6
	Please wait while the installer installs VMware Horizon View Agent. take several minutes. Status:	This may
	< Back Next >	Cancel

6. To install View Agent, click Install. To make changes, click Back.

8. You might be prompted by Windows Security to allow installation of a device driver. These drivers are necessary to enable certain devices to work correctly with your View desktop. Select **Always trust software from "VMware, Inc."** and then click **Install**.

😼 VMware Horizon View Agent	
Installing VMware Horizon View Agent The program features you selected are being installed.	
- Windows Security	— ×
Would you like to install this device software?	
☑ Always trust software from "VMware, Inc.".	Do <u>n</u> 't Install
You should only install driver software from publishers you trust decide which device software is safe to install? < Back Next >	. How can I

9. When the Installer Completed window appears, click **Finish** to close the View Agent installer.

B VMware Horizon View Agent	
Q	Installer Completed
	The installer has successfully installed VMware Horizon View Agent. Click Finish to exit the wizard.
VMware Horizon View [™] Agent ÈPColl [®]	
	< Back Finish Cancel

10. You must restart the operating system to complete the installation. In the VMware View Agent Installer Information dialog box, click **Yes**.

岁 VMwa	re Horizon View Agent Installer Information	83
1	You must restart your system for the configuration changes made to VMware Horizon View Agent to take effect. Click Yes to restart now or No if you plan to restart later.	
	Yes No	

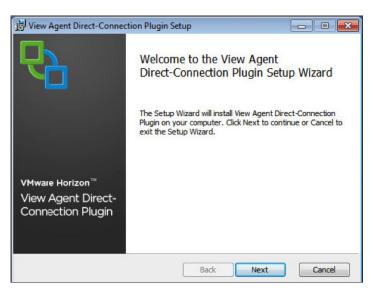
You have now installed View Agent and enabled Persona Management on desktop image virtual machines. Proceed to the next exercise to install the VMware View Agent Direct-Connection Plug-in.

Install the View Agent Direct-Connection Plug-In (Optional)

The View Agent Direct-Connection Plug-in enables any Horizon Client to connect directly to a View desktop without using View Connection Server.

This exercise is optional. If you do not want to use this feature, skipping this exercise does not prevent you from completing the subsequent exercises.

1. Launch the View Agent Direct-Connection Plug-in installer using the Run As Administrator option. Ensure that the installer is accessible from your virtual machine. When the launcher loads, click **Next**.



2. Review and accept the terms and conditions, and then click **Next**.

nd-User License Agreement		1
Please read the following license agreement carefully		0
VMWARE END USER LICENSE AGREEM	ENT	•
PLEASE NOTE THAT THE TERMS OF THIS END USER LICENS	SE AGREEMENT	-
SHALL GOVERN YOUR USE OF THE SOFTWARE, REGARDLE	SS OF ANY	
TERMS THAT MAY APPEAR DURING THE INSTALLATION OF	THE	
SOFTWARE.		
IMPORTANT-READ CAREFULLY: BY DOWNLOADING, INSTA	LLING, OR	
USING THE SOFTWARE, YOU (THE INDIVIDUAL OR LEGAL	ENTITY)	
AGREE TO BE BOUND BY THE TERMS OF THIS END USER	LICENSE	_
I accept the terms in the License Agreement		

3. Confirm the default port required for HTTPS connections, select the **Configure the Windows Firewall automatically** option, and then click **Next**.

😸 View Agent Direct-Connection Plugin Setup	×
Configuration Information Please specify port information	6
View Agent Direct-Connection Plugin requires that a firewall exception is added in order to accept remote connections on the specified TCP port number. If Windows Firewall is enable the installer can automatically add this for you.	
Listen for HTTPS connections on the following TCP port:	
Configure Windows Firewall automatically	
Back Next Cancel	

- View Agent Direct-Connection Plugin Setup

 Ready to install View Agent Direct-Connection Plugin

 Click Install to begin the installation. Click Back to review or change any of your
 installation settings. Click Cancel to exit the wizard.

 Back Install Cancel
- 5. Monitor your installation status as it progresses.

😸 View Agent Direct-Connection Plugin Setup	
Installing View Agent Direct-Connection Plugin	6
Please wait while the Setup Wizard installs View Agent Direct-Connectio	n Plugin.
Status:	
Back Next	Cancel

4. In the Ready to Install dialog box, click **Install** to proceed. If you want to make changes, click **Back**.

📸 View Agent Direct-Connect	ion Plugin Setup	
₽ <mark>₽</mark>	Completed the View Agen Direct-Connection Plugin	
	Click the Finish button to exit the Setu	ıp Wizard.
VMware Horizon™ View Agent Direct- Connection Plugin		
	Back	Cancel

6. When the installer has completed, click **Finish** to close the View Agent Direct-Connection Plug-in installer.

You can now proceed to the next exercise to optimize the parent virtual machine for desktop deployment.

Optimize the Parent Virtual Machine for Desktop Deployment

We recommend that you optimize Windows for View desktop deployment as described in *Windows 7 and Windows 8 OS Customizations* in the Windows 7 Optimization Guide.

The guide includes the helper script, CommandsPersonaManagementWin7_01062014.txt, which you can use to apply all the recommended optimizations. Run the script on your parent virtual machine. This script optimizes the parent virtual machine to work with Persona Management.

After you have optimized the parent virtual machine, proceed to the next exercise to install custom applications and configure the parent virtual machine OS.

Install Custom Applications and Configure the Parent Virtual Machine Operating System (Optional)

This exercise is optional but recommended. You can always come back to your parent virtual machine to install additional applications or modifications and then use the parent virtual machine to update the existing desktop pools or deploy new ones.

- 1. Install the custom applications that you want preinstalled on your parent virtual machine for View desktop deployment.
- 2. Make any modifications to the Windows operating system.
- 3. Verify that Windows Activation has been completed to ensure that your operating system is activated.

When you have finished installing custom applications and modifying the OS, you are ready to prepare the parent virtual machine for linked-clone deployment.

Prepare the Parent Virtual Machine for Linked-Clone Deployment

To prepare the parent virtual machine for linked-clone deployment:

- 1. Join the parent virtual machine to the domain.
- 2. Ensure that the parent virtual machine is set to receive a DHCP IP address.
- 3. From the Windows command prompt, run the following command to release the DHCP lease.

ipconfig /release

- 4. Shut down the guest operating system, and power off the parent virtual machine.
- 5. Take a snapshot of the virtual machine from the vSphere Client. Give the snapshot a meaningful name and description so that you have a reference of what it contains. This snapshot is used when you deploy the linked-clone desktop pool in a later exercise.

You have now prepared your parent virtual machine for linked-clone desktop deployment. Proceed to the next series of exercises to prepare a desktop image for full-clone desktop pool deployment.

Preparing a Desktop Image for Full-Clone Desktop Pool Deployment

This section describes how to prepare a Windows Server 2008 R2 SP1 View desktop image template to use to deploy a full-clone desktop pool in a later exercise:

- Create a Virtual Machine Template for Desktop Deployment
- Install View Agent on the Desktop Image Virtual Machine
- Install the View Agent Direct-Connection Plug-In (Optional)
- Install Custom Applications and Configure the Parent Virtual Machine Operating System (Optional)
- Prepare the Parent Virtual Machine for Full-Clone Deployment

You can use virtual machines managed by vCenter Server to provision and deploy desktops as templates for automated full-clone pools, as parents for linked-clone pools, or as a desktop source in a manual pool. You must prepare virtual machines to deliver View desktop access.

See the View Administration guide for more information about preparing desktop images for additional types of pool deployments.

Create a Virtual Machine Template for Desktop Deployment

Full-clone desktop pools are usually deployed based on a virtual machine template.

- 1. Log in to your host from the vSphere Client.
- 2. Create a new virtual machine using the following specifications as a guide.

ТҮРЕ	VCPUS	RAM	VIRTUAL DISK SIZE
Knowledge worker	1 vCPU	2GB RAM	24GB
Power worker	2 vCPUs	4GB RAM	24GB

Table 11: Virtual Machine Specifications for Nonproduction Deployment

Note: These desktop specifications are recommended for evaluating a nonproduction deployment. For a production environment, where desktop sizing varies based on the types of user workloads, see the View Architecture Planning guide for best practices on resource planning.

3. Ensure that the virtual machine network adapter type is VMXNET 3. You do not want to use the E1000 adapter type because issues might arise during deployment and customization.

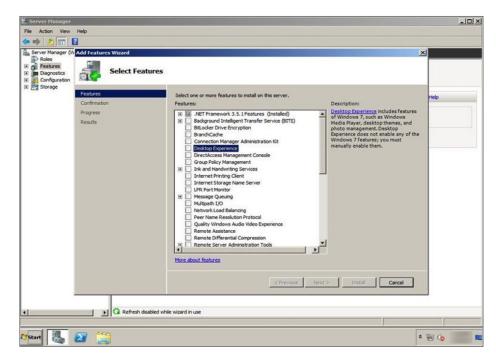
ardware Options Resources	Profiles VServices	Virtual Machine Version: vmx-0
Show All Devices	Add Remove	Device Status
lardware	Summary	Connected power on
Memory CPUs Video card VMCI device SCSI controller 0 Hard disk 1 CO/DVD drive 1 Network adapter 1	3 Jammary 4056 MB 1 Video card Restricted LSI Logic SAS Virtual Disk Client Device MGMT-210.54.17.0	Adapter Type Current adapter: V40NET 3 MAC Address 00:50:56:84:78:77 Ø Automatic Manual DirectPath I/O Status: To activate DirectPath I/O, go to the Resources tab and select Memory. Network Romection Network Romection Network Romection
		MGMT-2 10.54.17.0

4. Install the Windows Server 2008 R2 with SP1 64-bit guest operating system, and ensure that Service Pack 1 has been applied to the OS if you used the base Windows Server 2008 R2 64-bit media. Activate your Windows operating system according to your organization's procedures.

- 5. Log in to the virtual machine as a local administrator and open the Server Manager utility to install the Desktop Experience feature, which is required for your image template to operate correctly with View.
- 6. Click the **Features** menu, and then click **Add Features**.

📕 Server Manager		-OX
File Action View Help		
(* 🔿 🙍 🖬 📓		
Server Manager (WINDOWS2008R	Features	1
Roles Roles Diagnostics Configuration B 25 Storage	Vew the status of features installed on this server and add or remove features.	
	Features Summary	Features Summary Help
	Features: 1 of 41 installed Jet Framework 3.5.1 Features Jet Framework 3.5.1	Add Features
	Ca Last Refresh: Today at 1:43 PM Configure refresh	
🎝 Start 🛃 🛃 🧮		* 🗑 🕼 💻

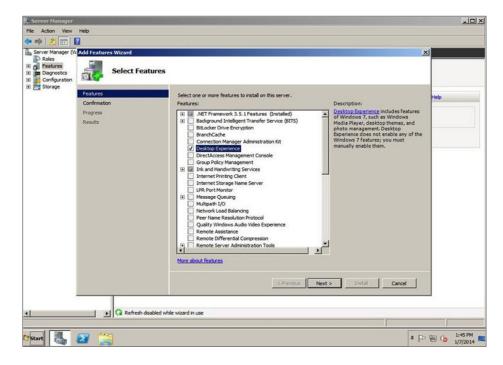
7. In the Add Features Wizard window, select the Desktop Experience feature, and click Next.



erver Manager									_10
Action View H	telp								
🔶 🖄 🖬 📔									
erver Manager (W	dd Feature	s Wizard					×	1	
Roles Features Diagnostics Configuration Storage	á,	Select F	eatures						
rage	Features			Select one or more features to	instal on this server.			Help	
	Confirmation	1		Features:		Description:		Help	
	Progress	Add Featu	res Wizard				X s features		
			You cannot in Features:	Handwitting Services	he required features are also install Description:	ina Services includes Ink dwritina Recognition	hes, and pp + any of the sust		
		① Why	are these feat	ures required?			14		
				Remote Differential Ci Remote Server Admin More about features	istration Tools	× 1			
					< Previous	Next > Install	Cancel		
_		C Refres	h disabled while	e wizard in use				-	
	3 📜	1					* D	99 6	-

8. You might need to add feature prerequisites. Click Add Required Features.

9. Confirm that Desktop Experience and the required prerequisites are selected, and click Next.



- _OX ž. s File Action View Heb File Action View Heb Server Manager (V Add Foa Roles Disposition Disposition Storage Features Storage X Confirm Installation Selections Features To install the following roles, role services, or features, click Install. b 1 informational message below Progress (i) This server must be restarted after the installation completes. Results Desktop Experience Ink and Handwriting Services Ink Support Print, e-mail, or save this information <Previous Next > Install Cancel Refresh disabled while wizard in use • 🕈 Start 🛃 🛃 1 * 🏱 🗑 😘 F
- 10. To all install the features, click **Install**.

11. A summary of the features and required actions appears. Click **Close** to continue.

Server Manager	2010		×
File Action View			
Server Manager (W	Add Features Wizard		×
Roles Roles Roles Roles Roles Roles Roles Roles Roles Roles Roles Roles Roles Roles Roles Roles Roles Roles Roles Roles Roles Roles Role	Installation Resu	llts	
E Storage	Features Confirmation Progress	One or more of the following roles, role services, or features require you to restart: $\hat{\bf m}$ 2 warning messages below	Heb
	Reals	Desktop Experience A Restart Pending You must restart this server to finish the installation process. Ink and Handwriting Services A Restart Pending You must restart this server to finish the installation process.	
		Pint, e-mail, or save the installation report	
		< Previous Next > Close Cancel	
<u>.</u>	Console cannot refr	esh until computer is restarted Restart	
Ar Start	2 🔛)	~ @ (

Server Manager			
File Action View			
** 2 🖬 🛙			
Server Manager (W	Add Features Wizard		×
Configuration	Installation	Results	
E Storage	Features Confirmation Progress	One or more of the following roles, role services, or features require you to restart: $\underline{\hat{d}_{\mu}}$ 2 warning messages below	Help
	Results	Desktop Experience <u>A</u> Restart Pending	
		Add Features Wizard	
		Do you want to restart now? This server must be restarted to frish the installation process. You cannot do or remove other roles, role services, or features until the server is restarted. Yes No	
		Pint, e-mail, or save the installation report <pre></pre>	
•	Console cann	ot refresh until computer is restarted Restart	
🎝 Start	2 🚆	,	₽₩0

12. You are prompted to restart your computer. Click **Yes** to restart now and complete the installation.

13. Monitor the feature installation as it progresses.



Server Manager			_0×
de et la	nep		
Server Manager (W	Resume Configuration Wizard		×
Roles Features Diagnostics	Installation R	esults	
🖲 🚰 Storage	Resuming Configuration Progress	The following roles, role services, or features were installed successfully:	-
	Results	Desktop Experience 🔮 Installation succeeded	
		Ink and Handwriting Services Installation succeeded	ties
		The following features were installed: Ink Support	lons ktop
			iger Remote
			1 1
		Print, e-mail, or save the installation report	ition Wizard
		TITL CTOP, OT BAYE THE INCOMENDATION (PERT)	
		<previous next=""> Cancel</previous>	
<u> </u>	Refresh disable	d while wizard in use	
			A (20 c)
Start Ca	2 📜		* 🗐 😘 🔳

14. When the installation is finished, log back in. A window verifying the installation of the Desktop Experience feature appears. Click **Close**.

You have now finished all the operating system prerequisites for the Windows 2008 R2 SP1 View desktop template. Now you can install View Agent.

Install View Agent on the Desktop Image Virtual Machine

The View Agent installer must be accessible from your virtual machine.

1. Launch the View Agent installer using the Run As Administrator option. Ensure that the installer is accessible from your virtual machine.

Recycle Bri			
	vmware VMware Horizon" View Agent		
		CiPColl Where Product Installation	e Agent for installation
🏘 🛃 🛃 🧱			* 😼 🕼 🔳

2. When the installer has loaded, click Next.



3. Read the license agreement, accept the terms and conditions, and click Next.



4. In the Desktop OS Configuration warning, select Install VMware Horizon View Agent in 'desktop mode' and then click Next.

VMware Horizon View Agent		
Desktop 05 Configuration		
The following information is used to	configure the View Desktop feature	Y
The Remote Desktop Session Host role Agent in RDS mode restart the installer		
Please check the box to continue instal	ling VMware Horizon View Agent in '	desktop mode'.
_		desktop mode'.
Please check the box to continue instal		desktop mode'.
_		desktop mode'.

5. The available features that can be installed with View Agent are listed. It is recommended that you use the features selected to ensure that all View Agent features are available when you deploy your desktop pool. To change the default installation directory, click **Change**. When you are ready to proceed, click **Next**.

🙀 VMware Horizon View Agent	×
Custom Setup Select the program features you want installed.	2
Click on an icon in the list below to change how a feat	ture is installed.
VMware Horizon View Agent USB Redirection HTML Access VMware Horizon View Comp Real-Time Audio-Video v Center Operations Manag VMware Horizon View Persc PCoIP Smartcard	Feature Description VMware Horizon View Agent This feature requires 205MB on your hard drive. It has 6 of 7 subfeatures selected. The subfeatures require 11MB on your hard drive.
Install to: C:\Program Files\VMware\VMware View\Agent\	Change
Help Space < Ba	ack Next > Cancel

6. Select **Enable the Remote Desktop capability on this computer**. If you select **Do not enable...** you can also manually enable this feature later and configure the firewall exceptions. Click **Next**.

😸 VMware Horizon View Agent 📃 🔤
Remote Desktop Protocol Configuration
The following information is used to configure the Remote Desktop feature
VMware Horizon View Agent requires the Remote Desktop support to be turned on. Firewall exceptions will be added for the RDP port #3389 and the View Framework channel #32111. What would you like to do?
Enable the Remote Desktop capability on this computer
\bigcirc Do not enable the Remote Desktop capability on this computer
G
< Back Next > Cancel

VMware Horizon View Agent			
Ready to Install the Program	1		
The wizard is ready to begin ins	tallation.		N N
VMware Horizon View Agent will	be installed in:		
C:\Program Files\VMware\VMv	ware View\Agent\		
Click Install to begin the installa	tion or Cancel to exi	t the wizard.	
NOTE: The RDS role is not enab only single desktop connections		are Horizon View Ag	jent will support
	< Bad	k Install	Cancel

- 8. Monitor your installation status as it progresses.

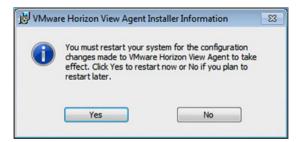
😸 VMware	Horizon View Agent	
	VMware Horizon View Agent ram features you selected are being installed.	6
ß	Please wait while the installer installs VMware Horizon View Agent take several minutes.	. This may
	Status:	
	Copying new files	
	< Back Next >	Cancel
		100

7. To install View Agent, click Install. To make changes, click Back.

😼 VMware Horizon View Agen	t 💌
Ū7	Installer Completed
	The installer has successfully installed VMware Horizon View Agent. Click Finish to exit the wizard.
VMware Horizon View™ Agent ÈPC⊛17°	
	< Back Finish Cancel

9. When the Installer Completed window appears, click Finish to close the View Agent installer.

10. You must restart the operating system to complete the installation. In the VMware View Agent Installer Information dialog box, click Yes.



You have now installed View Agent. Proceed to the next exercise to install the VMware View Agent Direct-Connection Plug-in.

Install the View Agent Direct-Connection Plug-In (Optional)

The View Agent Direct-Connection Plug-in enables any Horizon Client to connect directly to a View desktop without using View Connection Server.

This exercise is optional. If you do not want to use this feature, skipping this exercise does not prevent you from completing the subsequent exercises.

1. Launch the View Agent Direct-Connection Plug-in installer using the Run As Administrator option. Ensure that the installer is accessible from your virtual machine. When the launcher loads, click **Next**.

🙀 View Agent Direct-Connec	tion Plugin Setup	
P	Welcome to the View Agent Direct-Connection Plugin Setup Wiz	ard
VMware Horizon™	The Setup Wizard will install View Agent Direct-Conn Plugin on your computer. Click Next to continue or C exit the Setup Wizard.	
View Agent Direct- Connection Plugin		
	Back Next C	Cancel

2. Read the license agreement, accept the terms and conditions, and click Next.

Please read the follow	greement ing license agreen	nent carefully		L
VMWA	RE END USER	R LICENSE AG	REEMENT	
PLEASE NOTE THAT	THE TERMS O	F THIS END USER	LICENSE AGREEMENT	
SHALL GOVERN YO	UR USE OF THE	SOFTWARE, REG	ARDLESS OF ANY	
TERMS THAT MAY	APPEAR DURING	THE INSTALLAT	ION OF THE	
SOFTWARE.				
IMPORTANT-READ	CAREFULLY: BY	DOWNLOADING,	INSTALLING, OR	
USING THE SOFTW				
AGREE TO BE BOU	ND BY THE TEP	RMS OF THIS END	USER LICENSE	
I accept the terms i	n the License Agre	eement		

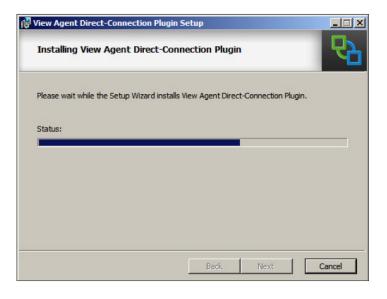
3. Confirm the default port required for HTTPS connections, select the **Configure the Windows Firewall automatically** option, and then click **Next**.

View Agent Direct-Connection Plugin	n Setup
Configuration Information	
Please specify port information	
	uires that a firewall exception is added in order to fied TCP port number. If Windows Firewall is enabled, or you.
Listen for HTTPS connections on the follo	wing TCP port:
Configure Windows Firewall automati	ically
	Back Next Cancel

4. In the Ready to Install dialog box, click **Install** to proceed. If you want to make changes, click **Back**.

View Agent Direct-Connection Plu	gin Setup		
Ready to install View Agent Di	rect-Connect	ion Plugin	R
Click Install to begin the installation. installation settings. Click Cancel to e		iew or change any of	your

5. Monitor your installation status as it progresses.



6. When the installer has completed, click **Finish** to close the View Agent Direct-Connection Plug-in installer.

🙀 View Agent Direct-Connect	tion Plugin Setup	
P	Completed the View Agent Direct-Connection Plugin Setup Wiz	ard
	Click the Finish button to exit the Setup Wizard.	
VMware Horizon™ View Agent Direct- Connection Plugin		
	Back Finish	Cancel

You can now install your custom applications and make modifications to your Windows operating system.

Install Custom Applications and Configure the Parent Virtual Machine Operating System (Optional)

This exercise is optional but recommended. You can always come back to your Windows 2008 R2 SP1 View Template to install additional applications or modifications and then use the View Administrator console to update existing desktop pools or deploy new ones.

- 1. Install the custom applications that you want preinstalled on your Windows 2008 R2 SP1 View Template for View desktop deployment.
- 2. Make any modifications to the Windows operating system.
- 3. Verify that Windows Activation has been completed to ensure that your operating system is activated.

When you have finished installing custom applications and modifying the OS, you are ready to prepare the parent virtual machine for full-clone deployment.

Prepare the Parent Virtual Machine for Full-Clone Deployment

To deploy an automated pool with full clones, it is recommended that you create a customization specification to use during desktop pool deployment. You create the specification in vCenter through the vSphere Web Client. For more information, see the vSphere 5.5 Documentation.

- 1. Navigate to the URL that connects you to your vSphere environment (vCenter Server) through the vSphere Web Client.
- 2. On the home page, click **Customization Specification Manager**.

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Home		Home							• 🗊 Recent Tasks
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 Click the Add icon to create a customization specification to correspond to the Windows 2008 R2 SP1 View Template that you created.

4. Use the New VM Guest Customization Spec wizard to create the specification by providing information regarding your Windows licensing, Network (DHCP is recommended), and other Windows system-related options.

ØvSphere Web Client × ← → C & bergS://demo-vc	a-1.demolab.local:9443/vsphere-clie	ent/#extensionid=vsph	ere.core.inventory.customizationSpecManagerApp	(- 6) × ☆ [
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	4 Enter Windows License		Use custom SysPrep answer file	
	5 Set Administrator Password . 6 Time Zone C	ustomization Spec Name		My Tasks - More Tasks
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5. The new customization specification is added to the list. Note its name because you need it when deploying the automated full-clone pool.

Before continuing, you must convert your full-clone desktop image virtual machine into a virtual machine template. You can make this change in the Options menu of your virtual machine from your vSphere Web Client. After you make this change, you are ready to deploy View desktops and applications.

Deploying View Desktops and Applications

After you have finished preparing desktop images, you are ready to deploy View desktops and applications. In this series of exercises, you create and deploy linked-clone and full-clone desktop pools as well as RDS desktop and application pools.

- Deploy a Linked-Clone Desktop Pool
- Deploy a Full-Clone Desktop Pool
- Deploy an RDS Desktop Pool
- Deploy an Application Pool

Deploy a Linked-Clone Desktop Pool

You deploy a linked-clone desktop pool based on the linked-clone desktop image that you prepared in earlier exercises.

You will now use the prepared parent virtual machine for linked-clone deployment to create and deploy a linked-clone desktop pool.

- 1. Log in to the View Administrator console, and navigate to **Catalog** > **Desktop Pools** to see a list of all your deployed desktop pools.
- 2. To deploy a new pool, click Add.

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3. In the Add Desktop Pool window, select Automated Desktop Pool, and then click Next.

4. Specify the type of user assignment for the pool. You can select either dedicated or floating, but for this exercise, select **Floating** and then click **Next**.

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			Description: None		(vSphere 4.1 or higher) ✓ Persona management < Back Next > Cancel	

5. Select the type of virtual desktop to deploy. Select View Composer linked clones and click Next.

6. Add a pool ID and display name. Optionally, select a folder to organize your pools. Click Next.

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7 2 1 0		User Assignment vCenter Server	Display name:	viewdemo		The desktop pool ID is the unique name used to identify this desktop	Sessions	
Inventory Cashaba C		Setting Deaktop hot Settings Deaktop hot Settings Provisioning Settings View Composer Daks Binragin Qishimation v-Center Settings Advanced Biorage Optimis Guist Customisation Ready to Complete	Access group: Description:			pool. Display tama Display tama The display name is that makes that uses will see when they connect to year clear. If the display name is and that that, the built will be used. Access groups can regarize the destroppools in your agreemation. They can also be use for displayed administration. Description The discription is only shown on the Setting tab for a desktop pool within View Administrator.		
						< Beck Next > Cancel		

7. Adjust the pool settings to enable certain features. For this example, enable vSGA - 3D Virtual Shared Graphics for the desktop pool. Under Remote Display Protocol, set **Allow users to choose protocol setting** to **No**.

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View Configuration			en logoff: Remote Display Protocol		-18		
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8. Under Remote Display Protocol, for 3D Renderer, select **Automatic** from the drop-down menu.

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			-	< Back Next > C	ancel			

9. Scroll down the Pool Settings window to view the other available options. Enable **HTML Access**. Next to 3D Renderer, click **Configure**.

10. Use the slider to configure the amount of VRAM available to each virtual desktop guest and click **OK**.

11. Click **Next** to configure the provisioning settings.

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El Desktop Pools	Provisioning Settings View Composer Disks	Remote Machine Power Take no power action	
Application Pools	Storage Optimization	Configure VRAM for 3D guests	1
Y Resources	vCenter Settings Advanced Storage Options	More VRAM can improve 3D performance, use the slider to select a VRAM size.	
Actines Persistent Disks Monitoring Policies	Guest Customization Ready to Complete	VRAM Size: 64 MB 512 MB	
> View Configuration		OK Cancel	
		Remote Display Protocol	
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		3D Renderer: Automatic Configure	
		Max number of monitors: 2 - 3	
		May require power-cycle of related virtual machin	tes ()
		< Back N	Next > Cancel

- 12. Adjust the provision settings and then click Next.
 - a. Select **Use a naming pattern** and enter a naming pattern in the text box. A common pattern is <poolname>-{n}, which displays the poolname with an incremented desktop number as desktops in the pool are provisioned.
 - b. Specify the maximum pool size. First deploy a small number of desktops to test your pool, and then increase the number of desktops after you have confirmed that your deployment is successful.
 - c. Under Provision Timing, select **Provision all desktops up-front**. Alternatively, you could provision the desktops on demand and decide on the minimum number of desktops to have ready at initial pool deployment. Then any additional desktops are provisioned as required, up to the maximum number of desktops. You can try these different pool features during subsequent pool deployments.

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13. You can specify the type of disposable disks to deploy with the pool. For this exercise, select **Do not** redirect disposable files and click **Next**.

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14. Do not make any modifications to the Storage Optimization options. Click Next.

15. For the vCenter settings, select your Windows 7 template and associated options. Next to the Parent VM text box, click **Browse**.

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16. Click the Windows 7 parent virtual machine to use for the pool deployment and click **OK**.

17. Next to the Snapshot text box, click **Browse**.

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V Resources		Advance	Snapshot	Time created	Description		Path				
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18. Click the snapshot to use for the pool deployment and click **OK**.

19. Next to the VM folder location text box, click **Browse**.

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► View Configuration				
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20. Click the folder location. If you do not have a folder created, select the data center and click **OK**.

21. Next to the Host or cluster text box, click **Browse**.

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22. Click the target host or cluster for your pool desktop deployment and click **OK**.

23. Next to the Resource pool text box, click **Browse**.

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24. Click the resource pool to use, or select the host if you have not set up a resource pool, and click **OK**.

25. Next to the Datastores text box, click **Browse**.

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									OK	Cancel	
	*								< Back Next	Cancel	

26. Click the target datastore to store your virtual desktops. You can leave the Storage Overcommit settings as the default Conservative. Click **OK**.

27. You receive a warning if you are storing your virtual desktops on a local datastore or are only using a single host. Because you are using a single host, you can ignore this warning. Click **OK** to continue.

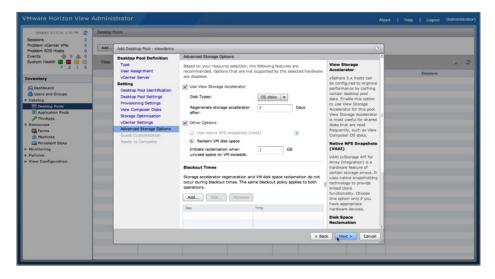


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28. Review your vCenter settings and click **Next**. To make changes, click **Back**.

29. Adjust the Advanced Storage Options and then click Next.

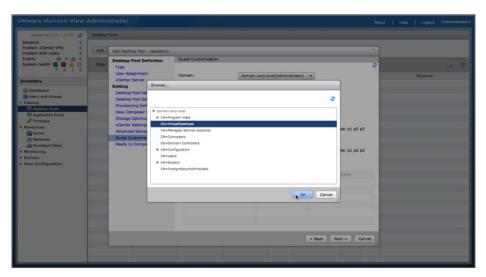
- a. Optionally select Use View Storage Accelerator.
- b. Select Other Options and then select Reclaim VM disk space.
- c. Specify the value for **Initiate reclamation when unused space on VM exceeds**. The recommended value is 1GB.



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30. Adjust the AD container. Click **Browse** next to the text box to view the available AD containers for the domain.

31. Select a valid OU or the default CN to store your View desktop computer account names and click **OK**. In the Guest Customization window, click **Next**.



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Machines Persistent Disks		Guest Customization Ready to Complete	Automatic logoff after disconnect:	Never			
nitoring icies			Connection Server restrictions: Allow users to reset their	None			
w Configuration			machine: Allow multiple sessions per user:	No			
			Delete or refresh machine on logoff:	Never			
			Default display protocol:	PCoIP			
			Allow users to choose protocol: 3D Renderer:	No Automatic			
			VRAM Size: Max number of monitors:	128 MB			
			Max resolution of any one monitor:	z 1920x1200			
			HTML Access: Adobe Flash quality:	Enabled			
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32. Review the summary of all your pool settings and click **Finish** to deploy the pool. Or to make changes, click **Back**.

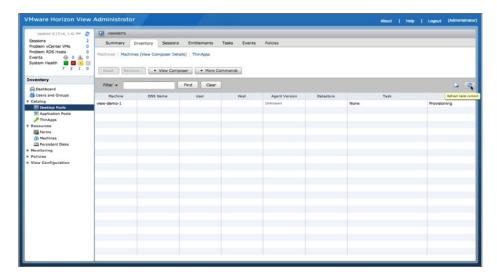
33. You return to the pool inventory list. Double-click your desktop pool to check the deployment status.

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1855 Basis	General		Pool Settings	
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Deshboard	Unique ID:	viewdemo	Max number of machines:	1
Users and Groups	Type:	Automated Desktop Pool	Number of spare (powered on) machines:	1
Catalog I Desktop Pools	User assignment:	Floating assignment	Minimum number of ready (provisioned) machines	0
Application Pools	Machine source:	vCenter (linked clone)	during View Composer maintenance operations:	
P ThinApps	Use View Composer:	Yes	Stop provisioning on error:	Yes
Resources	Display name:	viewdemo	VM naming pattern:	view-demo-(n)
Earms Farms	Access group:	1	Connection Server restrictions:	None
Persistent Disks	State:	Enabled	Remote Machine Power Policy:	Take no power action
Monitoring		Enabled	Delete or refresh machine on logoff:	Never
Policies	Provisioning:		Automatic logoff after disconnect:	Never
View Configuration	Sessions:	0	Allow users to reset their machine:	No
	Number of entitled users and groups:	0	Allow multiple sessions per user:	No
	Number of machines:	1	Default display protocol:	PCoIP
	VM disk space reclamation:	Yes	Allow users to choose protocol:	No
	Reclamation Threshold:	1 G8	Max number of monitors:	2
	Space reclaimed in the latest	0 G8	Max resolution of any one monitor:	1920×1200
	run over the last 7 days:		HTML Access:	Enabled
	Number of VMs reclaimed in last 7 days:	0	3D Renderer:	Automatic
	and a delay		VRAM Size:	128 MB
	Machine Status		Adobe Flash quality:	Do not control
	Machine Scatus		Adobe Flash throttling:	Disabled

34. You return to the pool settings overview. Click the **Inventory** tab to check the individual desktop deployment status.

35. You can now monitor the deployment status for each desktop. Click the **Refresh** icon to update the status.



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36. When a desktop status changes to Available, it is ready to entitle and use. When all your desktops change to Available, your desktop pool has been successfully deployed.

You have now created a linked-clone desktop pool. You can now proceed to creating a full-clone desktop pool.

Deploy a Full-Clone Desktop Pool

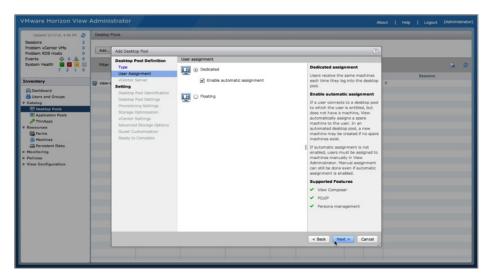
You deploy a full-clone desktop pool based on the Windows Server 2008 R2 SP1 View desktop template that you created in earlier exercises.

- 1. Log in to the View Administrator console, and navigate to **Catalog** > **Desktop Pools** to see a list of all your deployed desktop pools.
- 2. To deploy a new pool, click Add.



3. In the Add Desktop Pool window, select Automated Desktop Pool, and then click Next.

4. Specify the type of user assignment for the pool. You can select either dedicated or floating, but for this exercise, select **Dedicated**. You can optionally select **Enable automatic assignment**. Click **Next**.

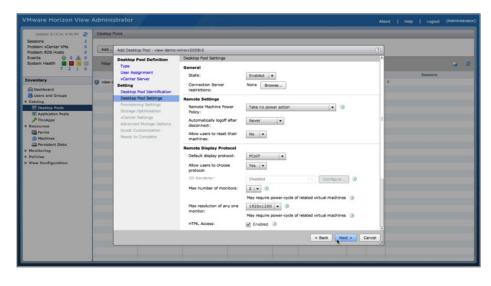


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5. Select the type of virtual desktop to deploy. Select Full virtual machines and click Next.

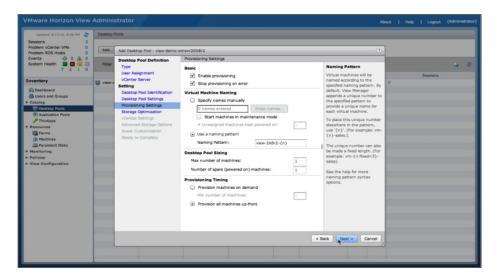
6. Add a pool ID and display name. Optionally, select a folder to organize your pools. Click Next.

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Inventory	C view-c	vCenter Server	Display name:	View Demo Windows Server 2008 R2 De	The desktop pool ID is the unique name used to identify this desktop	0		Sessions	
Dashboard Users and Groups Catalog Catalog Catalog Catalog Application Pools Prinkpps		Setting Desktop Pool Identification Desktop Pool Settings Provisioning Settings Storage Optimization vCenter Settings	Access group: Description:	1	pool. Display Name The display name is the name that users will see when they connect to View Cierch. If the display name is left blank, the ID will be used.				
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7. Scroll down the Pool Settings window to see the available options. Make sure that **HTML Access** is enabled. Click **Next**.

- 8. Adjust the provision settings and then click **Next**.
 - a. Select **Use a naming pattern** and enter a naming pattern in the text box. A common pattern is <poolname>-{n}, which displays the poolname with an incremented desktop number as desktops in the pool are provisioned.
 - b. Specify the maximum pool size. First deploy a small number of desktops to test your pool, and then increase the number of desktops after you have confirmed that your deployment is successful.
 - c. Under Provision Timing, select **Provision all desktops up-front**. Alternatively, you could provision the desktops on demand and decide on the minimum number of desktops to have ready at initial pool deployment. Then any additional desktops are provisioned as required, up to the maximum number of desktops. You can try these different pool features during subsequent pool deployments.



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9. For the Storage Optimization settings, you can accept the defaults and click **Next**.

10. For the vCenter Settings, select the Virtual Machine Template to use by clicking **Browse** next to the Template text box. Select the Windows Server 2008 R2 SP1 View desktop template you set up earlier and click **OK**.

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11. Continue through the other vCenter settings, selecting values for virtual machine folder location, host or cluster, resource pool, and datastore, and then click **Next**.

12. Adjust the Advanced Storage Options. Optionally select **Use View Storage Accelerator**. Click **Next** to continue.

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13. For the Guest Customization options, select **Use this customization specification**. Select the customization specification you created to customize your Windows Server 2008 R2 SP1 View desktop template. Click **Next**.

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14. Review the summary of all your pool settings and click **Finish**. Or to make changes, click **Back**.

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Deshboard		Desktop Pool Identification	Assign on first login:	Yes		
Catalog		Desktop Pool Settings	vCenter Server:	(root)		
E Desktop Pools		Provisioning Settings	Use View Composer:	No		
Application Pools		Storage Optimization	Unique ID:	view-demo-winsvr2008r2		
P ThinApps		vCenter Settings	Display name:	View Demo Windows Server 2008 R2 Desktop		
Resources		Advanced Storage Options	Access Group:	1		
Farms Machines Persistent Disks		Guest Customization	Desktop pool state:	Enabled		
	-	Ready to Complete	Remote Machine Power Policy:	Take no power action		
Monitoring Policies			Automatic logoff after disconnect:	Never		
View Configuration			Connection Server restrictions:	None		
			Allow users to reset their machine:	No		
			Default display protocol:	PCoIP		
			Allow users to choose protocol:	Yes		
			3D Renderer:	Disabled		
			Max number of monitors:	2		
			Max resolution of any one monitor:	1920x1200		
			HTML Access:	Enabled		
			Adobe Flash quality:	Disabled		

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15. You return to the pool inventory list. Double-click your desktop pool to check the deployment status.

16. You return to the pool settings overview. Click the **Inventory** tab to check the individual desktop deployment status. You can monitor the deployment status for each desktop. Click the **Refresh** icon to update the status.

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17. When a desktop status changes to Available, it is ready to entitle and use. When all your desktops change to Available, your desktop pool has been successfully deployed.

You have now deployed a full-clone desktop pool.

Deploy an RDS Desktop Pool

You will now deploy an RDS desktop pool. In previous View releases, this was known as a Microsoft Terminal Services pool. An RDS desktop pool has different characteristics compared to full-clone-based or linked-clone-based automated desktop pools. An RDS desktop pool is based on a session to an RDS host. An RDS desktop supports both RDP and PCoIP display protocols.

You will use the RDS host that you set up and configured in previous exercises to deploy an RDS desktop pool.

- 1. Log in to the View Administrator console, and navigate to **Catalog** > **Desktop Pools** to see a list of all your deployed desktop pools.
- 2. To create a new pool, click Add.

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3. In the Add Desktop Pool window, select **RDS Desktop Pool**, and then click **Next**.

4. Give your desktop pool an ID and display name. The ID is a unique name used to identify the desktop pool. The display name is the name end users see when connecting to the desktop pool. Click **Next**.

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5. Adjust the desktop pool settings or keep the default settings, and then click **Next**.

6. Select the RDS farm for the desktop pool and click **Next**.

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7. Review the RDSH Desktop Pool settings and click **Finish**. Or to make changes, click **Back**.

8. You return to the Desktop Pools window, where the RDSH desktop pool that you just created is listed.

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You have now deployed a RDSH desktop pool. In the next exercise, you deploy an RDS-based application pool.

Deploy an Application Pool

An application pool lets you deliver a single application to many users. The application runs on a farm of RDS hosts.

- 1. Log in to the View Administrator console, and navigate to **Catalog** > **Desktop Pools** to see a list of all your deployed desktop pools.
- 2. To create a new application pool, click Add.

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3. In the Add Application Pools wizard, you see a list of all the available applications that can be used to create an application pool.

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4. Select the applications you want created as application pools and click **Next**.

5. Edit the ID or display name of the selected applications and click **Finish**.

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6. You return to the Application Pools window where you see all the applications that you selected.

You have now created an application pool.

Entitling Users to View Desktops and Applications

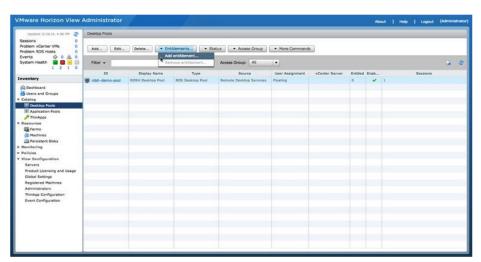
Now that you have deployed three different desktop pools, you are ready to entitle users to use them.

- Entitle Users to a Desktop Pool
- Entitle Users to an Application Pool

Entitle Users to a Desktop Pool

This exercise shows you how to entitle users to one desktop pool. You can repeat the exercise to entitle users to additional desktop pools.

- 1. Log in to the View Administrator console, and navigate to **Catalog** > **Desktop Pools** to see a list of all your deployed desktop pools and click the desktop pool that you want to entitle.
- 2. Click the Entitlements tab and then click Add Entitlement.



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3. The Add Entitlements dialog box lists the pool's entitled users and groups. Click **Add** to entitle new users or groups to the desktop pool.

4. In the Find User or Group dialog box, search your domain controller for users or groups to entitle to this desktop pool. You can narrow your query using the drop-down menus to add search terms and modifiers. Click **Find**.

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5. Scroll through the results to select all the users or groups to entitle, and then click **OK**.

6. Review the summary of who you have selected. You can add more users or groups or remove them from the entitlement list. When you are done, click **OK**. The users or groups are now entitled to this desktop pool.

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7. You can verify the total number of entitlements for the pool in the Entitled column.

Repeat these steps to entitle other users or groups to the rest of your desktop pools or unentitle them. Proceed to the next exercise to entitle users to application pools.

Entitle Users to an Application Pool

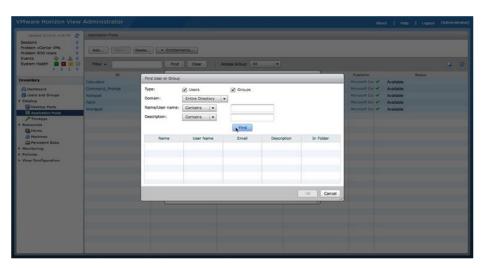
- 1. Log in to the View Administrator console, and navigate to **Catalog** > **Application Pools** to see a list of all your application pools.
- 2. Click the application pool or select multiple application pools to entitle.
- 3. Click the Entitlements tab and then click Add Entitlement.

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4. The Add Entitlements dialog box lists the pool's entitled users and groups. Click **Add** to entitle new users or groups to the application pool.

5. In the Find User or Group dialog box, search your domain controller for users or groups to entitle to this application pool. You can narrow your query using the drop-down menus to add search terms and modifiers. Click **Find**.



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6. Scroll through the results to selected all the users or groups to entitle, and then click **OK**.

7. Review the summary of who you have selected. You can add more users or groups or remove them from the entitlement list. When you are done, click **OK**. The users or groups are now entitled to this application pool.

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8. You are returned to the Application Pools window. You can repeat these steps to entitle additional users or group or unentitle them.

This completes this series of exercises. You are ready to proceed to the exercises using Horizon Clients to connect to View desktops and applications.

Connecting to View Desktops and Applications

After you have finished deploying View desktops, you are ready to explore connection options. This series of exercises starts by walking you through the process of connecting to View desktops using different Horizon Clients, including HTML access and mobile clients.

- Connect to View Desktops Using Horizon Client
- Connect to View Desktops Using HTML Access
- Connect to View Desktops from a Mobile View Client
- Connect to an Application Using the Horizon Client

A prerequisite for these exercises is to install Horizon Clients on your computers and devices.

Connect to View Desktops Using Horizon Client

This exercise guides you through using Horizon Client on a computer, either Windows or Mac OS.

- 1. On your target client, install the Horizon Client.
- 2. On your target client, launch Horizon Client, and click Add Server.



3. In the Hostname text box, type the fully qualified domain name of your View Connection Server, and click **Continue**.



- 4. If you are using the default self-signed SSL certificate, an Untrusted View Connection warning appears.
 - a. To ensure the certificate is valid, click **Show Certificate**.
 - b. To proceed, click **Continue**.



Type your user credentials in the Username and Password text boxes, and then click Continue.
 Note: You must be entitled to a desktop pool or specific desktop to access it.

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6. From the group of desktops available to your credentials, click the desktop to connect to.

7. Verify that you have successfully connected to your View desktop.





8. When you are ready to end your View desktop session, click the **Disconnect** icon at the top left of the View Client menu bar, and then click **Disconnect**.

You have now used Horizon Client to launch and disconnect from View desktops sessions. Proceed to the next exercise to connect using HTML access.

Connect to View Desktops Using HTML Access

You can connect to a View desktop from an HTML5-enabled Web browser.

The supported Web browsers are:

- Chrome 28 or later
- IE 9 or later
- Safari 6 or later
- Firefox 21 or later
- Mobile Safari, iOS 6 or later

The desktop you are connecting to via HTML must be in a pool with the HTML Access feature enabled, as discussed in Deploy a Linked-Clone Desktop Pool.

1. Open a supported Web browser and navigate to the address of your View Connection Server.

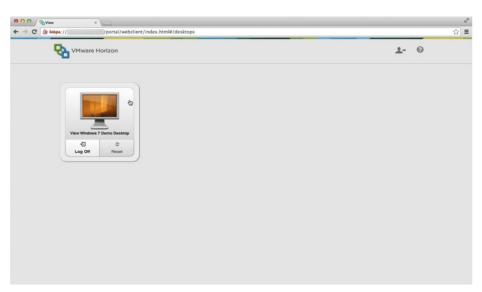
2. Click VMware Horizon View HTML Access.

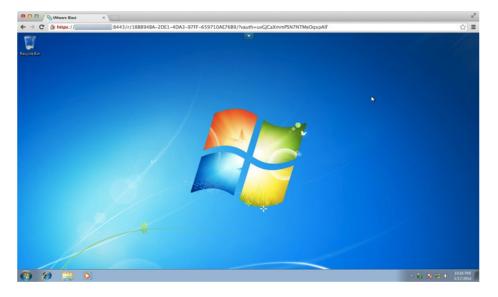
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3. Enter your user credentials. You must be entitled to a desktop pool or specific desktop.

4. After the credentials are validated, the available desktops for the user are shown. Click the desktop that you want to connect to.





5. You are connected to your View desktop using HTML Access.

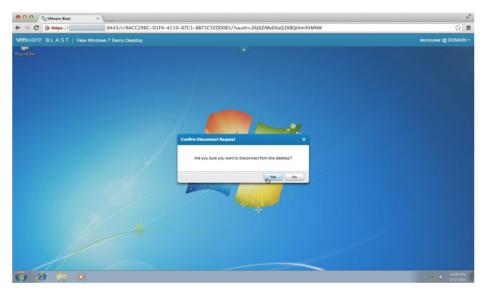
6. You can navigate and use your desktop as you normally would. The View HTML Access menu hides at the top of the Web browser. Click the down arrow to make it visible.

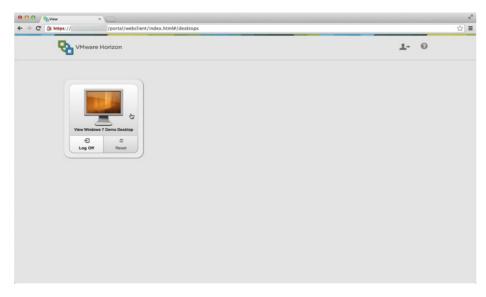




7. To disconnect from your session, click your username at the top right of the HTML Access menu bar. From the drop-down menu, select **Disconnect**.

8. Confirm that you want to disconnect by clicking Yes.





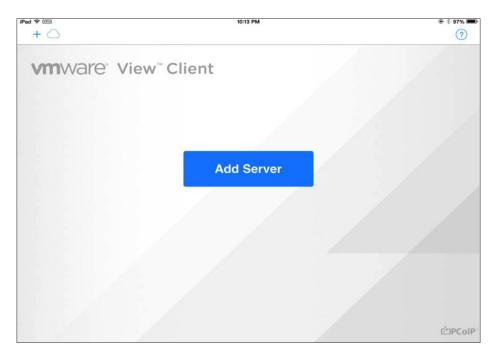
9. You are returned to your list of available desktops. You can log off or connect to a different View desktop if one is available.

You have now connected to a View desktop using HTML Access. Proceed to the next exercise to connect to desktops from a mobile client.

Connect to View Desktops from a Mobile View Client

This exercise shows you how you can connect to a View Desktop from the iOS View Client on the iPad. Unity Touch is a Horizon Client feature that is available on Windows, iPhone, iPad, and Android 4.2 or later devices using the View 2.0 or later clients.

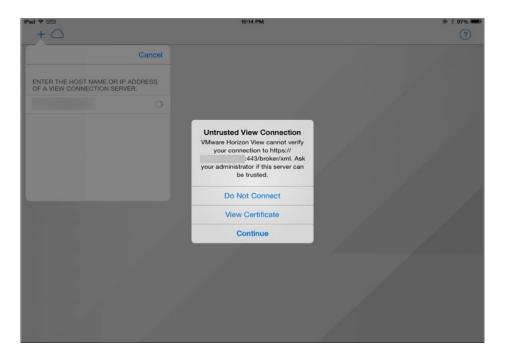
1. Launch View Client from your iOS mobile device. Tap + in the top left menu bar or the Add Server button.



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2. Enter the host name or IP address of View Connection Server and tap Connect.

3. If you are using the default self-signed SSL certificate, an Untrusted View Connection warning appears. You can modify the Horizon Client security settings in the Properties or Preferences menu. Tap **View Certificate** to ensure that the certificate is valid. To accept the certificate, tap **Continue**.



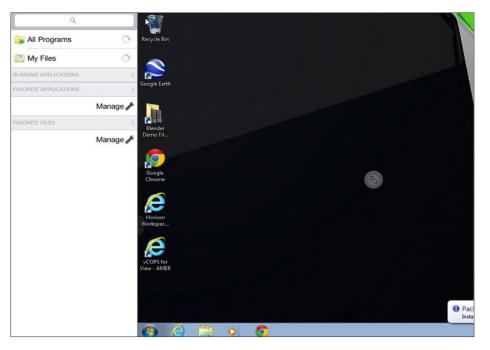
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4. Enter your user credentials. You must be entitled to a desktop pool.

5. After your credentials are validated, your available desktops are listed. Tap the desktop that you want to connect to.

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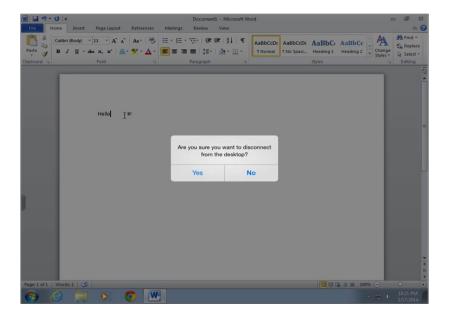
6. You have connected to your View desktop from the iOS Horizon Client. By default, at first login, the Unity Touch menu appears on the left side. Unity Touch allows you to easily interact with your View desktop. The menu provides the functionality of a typical Windows Start menu but without having to maneuver your touch screen to use the Start menu. You can easily and quickly launch applications.



In the example shown, we have launched a word processing application. Interacting with the application triggered the keyboard overlay.

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- 8. A dialog box appears for you to confirm your session disconnect. Tap Yes.



7. On the iOS Horizon Client, menu buttons that allow you to perform various actions are placed on your screen, such as disconnect from the session or bring up the keyboard. Tap the **Disconnect** button to end the session.



9. You are disconnected from your View desktop session and returned to the list of available View desktops. You can close the application or reconnect to your View desktop.

Connect to an Application Using the Horizon Client

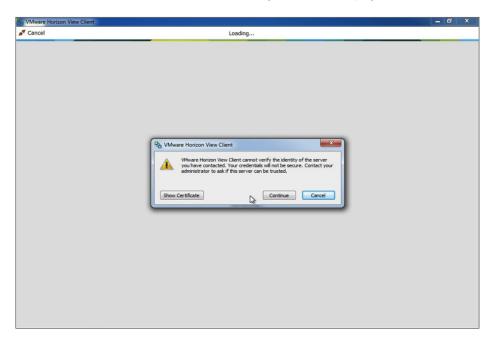
Now you are going to connect to an application using the Horizon Client. The Horizon Client must be installed on either a Windows, Mac OS X, or Linux operating system.

1. Launch Horizon Client. Tap + New Server in the top left menu bar.

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2. Enter the host name or IP address of View Connection Server and tap **Connect**.

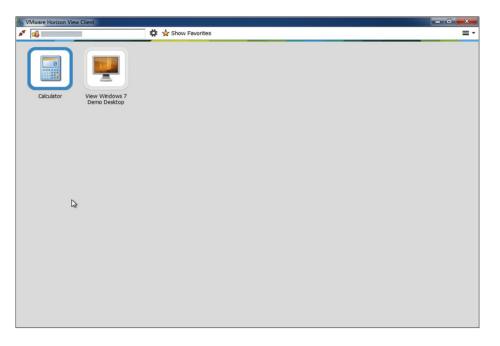
 If you are using the default self-signed SSL certificate, an Untrusted View Connection warning appears. You can modify View Client security settings in the Properties or Preferences menu. Tap View Certificate to ensure that the certificate is valid. To accept the certificate, tap Continue.



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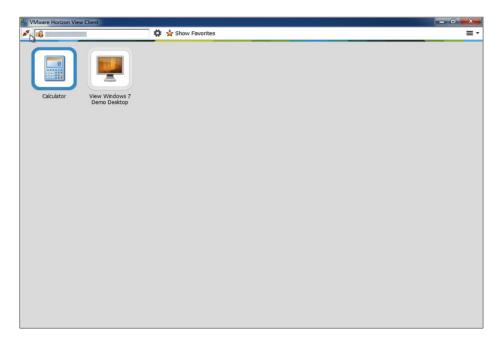
4. Enter your user credentials and tap **Login**. You must be entitled to an application pool to launch an application.

5. After your credentials are validated, your available applications and desktops appear. Tap the application that you want to connect to. For this step, tap the **Calculator** icon.



6. Use the application as you normally would. Tap **X** in the menu bar to close the application.

7. You are returned to the list of available applications and desktops.



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8. Tap the **Disconnect** button to disconnect from Horizon Client. Tap **Yes** to confirm. You can now close the application.

You have completed all the hands-on exercises in this reviewer's guide to evaluate Horizon 6 with View.

Summary

This guide introduces the new features and benefits of VMware Horizon 6 with View through a series of hands-on exercises that show the ease of initial installation, configuration, and use. It also describes the individual components, their interoperability with each other, and external integration with other VMware products.

For more detailed information, see the View Documentation. The Additional Documentation section of this document also provides access to product downloads and documentation.

Additional Documentation

For more information about topics beyond the scope of this guide:

- VMware Horizon 6 with View Documentation
- VMware Horizon Product
- VMware Horizon Clients Download Center
- Storage Considerations for Horizon View 5.2
- Graphics Acceleration in VMware Horizon View Virtual Desktops
- View Configuration Tool: automated installation tool for View
- vCloud Automation Center
- vCenter Orchestrator
- vCenter Orchestrator Plug-Ins Documentation
- NVIDIA driver for vSphere 5.5
- Installing async drivers on ESXi[™] 5.x
- VMware Documentation
- VMware vSphere Documentation
- VMware Product Interoperability Matrixes
- vCenter Server
- VMware Downloads
- VMware Support

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