



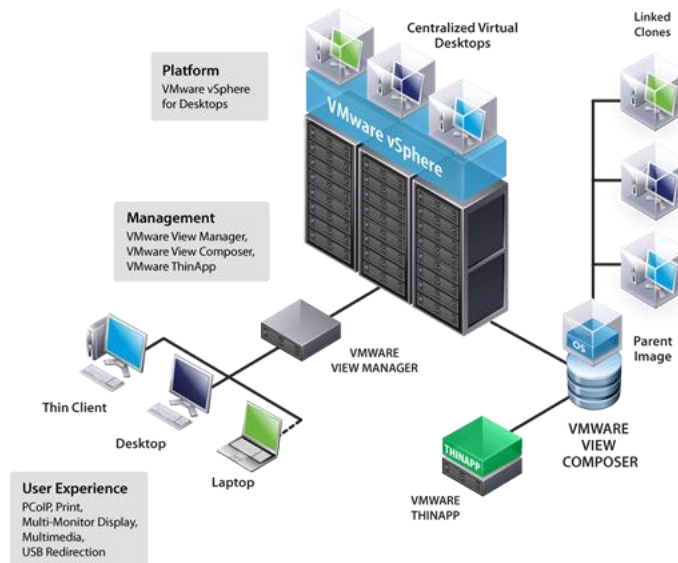
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## VMware® Horizon View™ 7 WITH VMware vSphere

### COURSE DESCRIPTION

The problem with most VMware Horizon View classes is that they present Horizon View as if it were a standalone product. VMware Horizon View requires integration with VMware vSphere! Only our **VMware Horizon View 7 WITH VMware vSphere** class teaches students everything they need to know to install and use VMware Horizon View including the required integrations with VMware vSphere.

Our **VMware Horizon View 7 WITH VMware vSphere** class offers participants the most extensive training available in the real-world **Installation, Configuration and Management** of VMware® Horizon View™ 7. Each participant will work hands-on with real servers to build and administrate their own complete VMware® Horizon View™ 7 environment from the ground up.



Our class offers participants a **more comprehensive** experience than other classes because each student gets to install and configure a complete VMware® vSphere™ environment **designed and optimized specifically to support Virtual Desktops**. In our class, in addition to Horizon View, you will cover important vSphere topics such as:

- VMware vSphere Architecture for Horizon View
- vSphere Optimizations for Horizon View
- Licensing for Horizon View
- Types of storage for Horizon View (vSan, SSD, Auto-tiering)



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Once the infrastructure has been provisioned, participants install VMware® Horizon View™ 7 and begin the process of learning how to maximize their administrative efficiency while managing VMware® Horizon View™ 7 environments while maintaining the highest levels of Virtual Desktop security. During class we focus on real-world Virtual Desktop deployment scenarios using the available GUI tools; the vSphere Client, vCenter Server, and the Horizon View Manager.

The **VMware® Horizon View™ 7 Virtual Desktop Deployment** class features over 50 hands-on Step-By-Step Labs (SBS LAB™), complete with detailed instructions, full-color documentation and screenshots of all steps. **Over 60% of class time is spent doing labs!** The book alone is sure to become one of the most valued reference materials in your library

## GOALS

Each participant will gain comprehensive understanding of installing, configuring and managing a VMware Horizon View 7 environment running on the latest edition of VMware vSphere.

## COURSE OBJECTIVES

- Install and configure VMware vSphere designed for VMware® Horizon View™ 7
  - ESXi Host(s)
  - Enterprise Storage for Horizon View
  - vCenter Server
  - vSphere Networking for Horizon View
- Build Virtual Machines suitable for use as Virtual Desktops
  - Windows 10 with VMware Desktop Optimization tool
- Use and deploy VM's from Templates and Clones
  - Implement VMware Customization Specification (Sysprep) for auto-deployment
- Install and Configure VMware Horizon View 7
  - Install and Configure the Horizon View Connection Server
  - Install and Configure SQL for Horizon View (required for Events and Composer)
  - Install and Configure Horizon View Composer
  - Install and Configure the Horizon View Security Server
  - Deploy Group Policy Template for Horizon View
- Networking for Horizon View
  - Configure firewall rules for Horizon View
  - Requirements for using display protocols VMware Blast, **PCoIP** and RDP
- Learn how to create and use SSL Certificates for Horizon View
  - Create a Certificate Signing Request (CSR) for Horizon View
  - Obtaining a Certificate from a Trusted CA
  - Applying the Certificate to Connection Servers and Security Servers
- Create and Manage VMware Horizon View Desktops and Pools
  - Deploy individual Virtual Desktops
  - User Entitlement
  - Automated Desktop Pools
  - Deploy Linked Clones
  - Practice Desktop Refresh and Recomposition



## PREREQUISITES

Our **VMware® Horizon View™ 7 Virtual Desktop Deployment** class is intended for IT professionals with familiarity with Windows Server and TCP/IP Networking.

## OUTLINE

1. Introduction and Overview
  - i. SBS LAB - Accessing your personal Cloud Datacenter environment
2. Deploy VMware vSphere specifically for Horizon View
  - a. Install ESXi Server
    - i. SBS LAB - Install ESXi Server
    - ii. SBS LAB - Post Installation tasks
  - b. Time In a vSphere Environment
    - i. SBS LAB - Configure NTP on ESXi with an External Stratum 1 time source
    - ii. SBS LAB - Validating ESX Time Configuration
  - c. Install vCenter Server – VCSA
    - i. SBS LAB - Install vCenter
    - ii. SBS LAB - Configure Passwords and aging
    - iii. SBS LAB – Configure vSphere SSO
3. What is Horizon View
  - a. Components of Horizon View
    - i. Horizon View Connection Server
    - ii. Horizon View Security Server
    - iii. Horizon View Composer
  - b. Horizon View terms and concepts
  - c. Next-generation display protocols – VMware Blast
  - d. Requirements for deploying Horizon View
4. Best Practices for Virtual Machines as Horizon View Desktops
  - a. Required drivers and storage
  - b. Build a "Best Practices" VM
    - i. SBS LAB - Install Windows 10
    - ii. SBS LAB - VM files and folders
    - iii. SBS LAB - VMware Tools
  - c. Graphics considerations
  - d. Time Considerations
    - i. SBS LAB - Convert to template
  - e. Deploying virtual machines efficiently
    - i. SBS LAB - Creating Templates
    - ii. SBS LAB - Deploying from Templates
5. Horizon View Composer
  - a. Database Requirements for Composer
    - i. SBS LAB - Install Composer
    - ii. SBS LAB - Link Composer to vCenter
6. Horizon View Connection Server
  - a. Types of Connection Server: Standard, Replica, Security
    - i. SBS LAB - Install Connection Server
    - ii. SBS LAB - Configure Connection Server



7. Horizon View Events Database
  - i. SBS LAB - Configure Events Database
  - ii. SBS LAB - Display Reports of View Manager Operation
8. Horizon View Security Server
  - a. Firewall and DNS considerations for Security Server
    - i. SBS LAB - Install Security Server
  - b. Port considerations
  - c. Tunneling PCoIP
  - d. Virtual Network (vSwitch) configuration
    - i. SBS LAB - Create and implement secure DMZ for Horizon View Security Server
  - e. Configure networking on Security Server
    - i. SBS LAB - Test and validate secure (https://) connections from the internet to participants virtual desktops
9. Certificates/SSL for Horizon View
  - a. Overview of SSL Certificates and requirements for Horizon View
    - i. SBS LAB – Create a Certificate Signing Request (CSR) for Horizon View
    - ii. SBS LAB - Obtaining a Certificate from a Trusted CA
    - iii. SBS LAB - Applying the Certificate to Connection Servers and Security Servers
    - iv. SBS LAB – Testing the effectiveness of SSL Certificates and Horizon View
10. Manual Desktop Pools
  - a. Use cases for Manual Desktop Pools
    - i. SBS LAB - Deploy a VM from template
    - ii. SBS LAB - Prepare VM as Virtual Desktop
    - iii. SBS LAB - Establish client connection to Individual desktop
11. Automated Desktop Pools
  - a. Use cases for Automated Desktop Pools
    - i. SBS LAB - Create a customization specification for Automated Desktop Pool
    - ii. SBS LAB - Deploy a VM from template
    - iii. SBS LAB - Prepare VM as Automated Desktop Pool Parent
    - iv. SBS LAB - Configure Automated Desktop Pool
    - v. SBS LAB - Establish client connection to View Composer
    - vi. SBS LAB - Automatically deploy new Virtual Desktop
12. Linked Clones
  - a. Use cases for Automated Desktop Pools
    - i. SBS LAB - Deploy a VM from template
    - ii. SBS LAB - Prepare VM as Linked Clone Parent
    - iii. SBS LAB - Configure Linked Clone Desktop Pool
    - iv. SBS LAB - Allow linked Clones to propagate as configured
    - v. SBS LAB - Establish client connection to Linked Clones
    - vi. SBS LAB - Desktop Recomposition and Refresh
    - vii. SBS LAB - Validate Storage efficiency for Linked Clones
13. VDMAdmin
  - a. Administration from Command Line
    - i. SBS LAB - Generate Help Bundle
    - ii. SBS LAB - List and Display Health Monitors