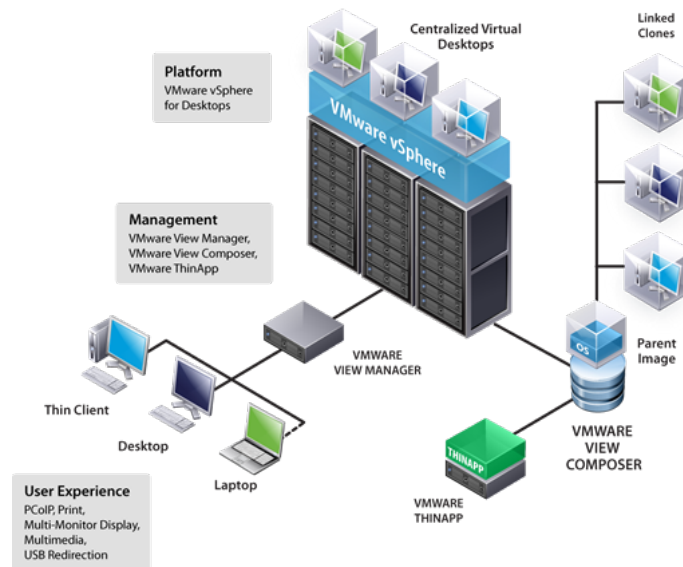




VMware® View™ 5 Virtual Desktop Deployment

COURSE DESCRIPTION

Our 4-day VMware View class offers participants the most extensive training available in the **Installation, Configuration and Management** of VMware View 5. Each participant will work hands-on with real servers to build and administrate their own complete VMware View 5 environment from the ground up.



The primary reason that our class offers participants a **more comprehensive** experience than other classes is that each student gets to install and configure a complete VMware® vSphere™ 5 environment designed specifically to support Virtual Desktops. While other providers cover Virtual Desktops as an isolated topic; we believe that an understanding of the infrastructure (VMware vSphere 5) provides participants with an invaluable insight into the functionality of their VMware View 5 environment!

Once the infrastructure has been provisioned, participants install VMware View 5 and begin the process of learning how to maximize their administrative efficiency while managing VMware View 5 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 VMware View Manager.

Our **VMware® View™ 5 Virtual Desktop Deployment** follows true **Cloud Practice** in deploying **Infrastructure as a Service (IaaS)**. Because we provision completely separate resources for each participant, everybody gets unique firewall rules, and everybody gets to connect separately to his/her Virtual Desktop environment from the internet, when it is complete!.

The **VMware® View™ 5 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. The book alone is sure to become one of the most valued reference materials in your library



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GOALS

Each participant will build his/her own unique VMware vSphere and VMware View 5 environment from the ground up. On class completion, participants will have a functioning VMware View 5 datacenter environment "In the Cloud," accessible from a variety of locations and environments.

COURSE OBJECTIVES

- Build and configure a VMware vSphere 5 infrastructure suitable for VMware View 5
- Build Virtual Machines suitable for use as Virtual Desktops
- Use Windows Profiles for Virtual Desktops
- Implement Customization Specification
- Use and deploy VM's from Templates and Clones
- Install and Configure the VMware View Connection Server
- Deploy individual Virtual Desktops
- Install and Configure VMware View Composer
- Deploy Linked Clones and Automated Desktop Pools
- Practice Desktop Refresh and Recomposition
- Use Windows Profiles to optimize Virtual Desktop Performance
- Install and Configure the VMware View Security Server
- Configure firewall rules for VMware View
- Connect securely to Virtual Desktop VM's from a variety of platforms/locations
- Manage Infrastructure as a Service (IaaS)
- Use and manage display protocols **PCoIP** and RDP

PREREQUISITES

Our **VMware® View™ 5 Virtual Desktop Deployment** is intended for IT professionals with familiarity with Windows Server and TCP/IP Networking.

CERTIFICATIONS

Participants may choose to take the [Certified Virtualized Datacenter eXpert \(CVDX™\)](#) exam at no additional charge. The [Certified Virtualized Datacenter eXpert \(CVDX™\)](#) certification is a **100% hands-on practical exam**.

- The CVDX™ is the **only** practical certification and real-world proof of skills available for VMware vSphere
- Certifies real skills, not memorization!
- Candidates complete goals, it doesn't matter how, only the results matter
- Real IaaS Cloud Technology used for Certification
- Certification, proof of certification, and post-certification resources provided

Qualifying candidates will receive their (CVDX™) certificate and access to other [resources](#) within 2 weeks of qualification.



OUTLINE

1. Introduction and Overview
 - i. SBS LAB - Accessing your personal Cloud Datacenter environment
2. Grounds for Virtualization
 - a. Virtualization defined
 - b. What's in it for me?
 - c. Cloud Computing - **Infrastructure as a Service (IaaS)**
3. VMware vSphere
 - a. What is vSphere?
 - b. vSphere Components
4. What is VMware View
 - a. Components of VMware View
 - i. VMware View Connection Server
 - ii. VMware View Security Server
 - iii. VMware View Composer
 - b. VMware View terms and concepts
 - c. Next-generation display protocols - PCoIP
 - d. Requirements for deploying VMware View
5. Deploy VMware vSphere specifically for VMware View
 - a. Install ESXi Server
 - i. SBS LAB - Install ESXi Server
 - ii. SBS LAB - Post Installation tasks
 - b. The vSphere Client
 - i. SBS LAB - Install vSphere Client
 - ii. SBS LAB - Logging in to your ESX Server the first time
 - c. 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
 - d. Install vCenter Server
 - i. Components of vCenter
 - ii. SBS LAB - The vCenter Database
 - iii. SBS LAB - Install vCenter
 - e. Configure vCenter
 - i. SBS LAB - Add host(s)
 - ii. SBS LAB - Enable Customization Specification
 - iii. SBS LAB - Roles, Privileges and Permissions
 - iv. SBS LAB - Scheduled Tasks
6. Best Practices for Virtual Machines as VMware View Desktops
 - a. Required drivers and storage
 - b. Build a "Best Practices" VM
 - i. SBS LAB - Install recommended Operating System
 - 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
- 7. VMware View Connection Server
 - a. Types of Connection Server: Standard, Replica, Security
 - i. SBS LAB - Install Connection Server
 - ii. SBS LAB - Configure Connection Server
- 8. VMware View Composer
 - a. Database Requirements for Composer
 - i. SBS LAB - Install Composer
 - ii. SBS LAB - Link Composer to vCenter
- 9. VMware View Transfer Server - Offline Desktop
 - a. Terms and Definitions
 - i. SBS LAB - Build of Transfer Server
 - ii. SBS LAB - Create Transfer Repository
 - iii. SBS LAB - Publish VM in Transfer Server
 - iv. SBS LAB - Check desktop IN and Out
- 10. VMware View Events Database
 - i. SBS LAB - Configure Events Database
- 11. 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
- 12. 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
- 13. 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
- 14. VMware View Security
 - a. Overview
 - b. What types of certificates does VMware View use and where to get them
 - i. SBS LAB - Get and install SSL Certificates for VMware View
- 15. VMware 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



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- i. SBS LAB - Create and implement secure DMZ for VMware 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
- 16. VDMAdmin
 - a. Administration from Command Line
 - i. SBS LAB - Generate Help Bundle
 - ii. SBS LAB - List and Display Health Monitors
 - 1. Connection Server
 - 2. Events Database
 - 3. Security Server
 - 4. Domain
 - iii. SBS LAB - Display Reports of View Manager Operation