

5 Days

VMware VSphere: Optimize And Scale [V6]

VMware vSphere Optimize and Scale V6 training course is mainly developed for experienced and seasoned VMware vSphere users. This certification course equips participants with the essential knowledge and refined skills for maintaining and configuring a highly scalable virtual infrastructure.

The VMware vSphere Optimize and Scale V6 training course is based on VMware ESXi™ 6 and VMware vCenter Server™ 6, that together help professionals to acquire refined knowledge and skills to automate on a big bunch of vSphere infrastructure.

We at Mercury Solutions make use of highly innovative methods to impart knowledge such as – a perfect blend of hands-on labs and interactive lectures that provide valuable experiences for spurring your professional career.

Course Details

Course Outline

1. Course Introduction

- Introduction to course logistics
- Course Objectives
- Additional Resources

2. vSphere Security

- Defining features and benefits of VMware Platform Services Controller™
- Manage ESXi host access and authorization
- Protect ESXi, vCenter Server, and virtual machines
- Upgraded ESXi and vCenter Server instances

3. VMware Management Resources

- Understanding the purpose of VMware vSphere® Command-Line Interface commands
- Confer options for running vSphere CLI commands
- Build and work on vSphere Management Assistant
- Utilize VMware-cmd for virtual machine operations

4. Performance in a Virtualized Environment

- Analyze the vSphere performance troubleshooting methodology
- Describe software and hardware virtualization techniques and their effects on performance
- Deploy vSphere performance monitoring tools

5. Network Scalability

- Transit virtual machines from standard switches to distributed switches
- Configure and manage vSphere distributed switches
- Explore distributed switch features such as port mirroring, QoS tagging, LACP, and NetFlow

6. Network Optimization

- Determine the performance features of network adapters
- Explore the performance features of vSphere networking
- Screening of key network performance metrics
- Deploy vSphere Management Assistant to manage virtual network configurations
- Troubleshoot common network performance problems

7. Storage Scalability

- Explore vSphere storage APIs for array integration and storage awareness
- Configure and comprehend virtual machine storage policies
- Configure VMware vSphere® Storage DRS™ and VMware vSphere® Storage I/O Control
- Create and manage virtual volumes in vSphere

8. Storage Optimization

- Diagnose storage access problems
- Monitor key storage performance metrics
- Configure VMware vSphere® Flash Read Cache™
- Troubleshoot common storage performance problems

9. CPU Optimization

- Explore the CPU scheduler operation, NUMA support, and other features that affect CPU performance
- Monitor key CPU performance metrics
- Troubleshooting CPU performance problems

10. Memory Optimization

- Define ballooning, memory compression, and host swapping techniques for memory reclamation when memory is overcommitted
- Operate key memory performance metrics
- Troubleshoot common memory performance problems

11. Virtual Machine and Cluster Optimization

- Define guidelines for optimizing virtual machine configuration
- Confer how vGPU usage affects virtual machine performance
- Confer guidelines for using resource allocation settings
- Confer guidelines for using vSphere DRS clusters
- Confer guidelines for using resource pools
- Troubleshoot common vSphere cluster problems

12. Host and Management Scalability

- Define and use host profiles
- Describe and use content libraries
- Deploy VMware vSphere® PowerCLI™
- Deploy Virtual Machine Converter
- Deploy VMware vSphere® ESXi™ Image Builder CLI and vSphere Auto Deploy

Who Should Attend

VMware vSphere Optimize and Scale V6 training course is ideal for those working with the profiles of:

- Systems Engineers
- System Integrators
- Experienced System Administrators

Pre Requisite

Required prerequisites include completion of one of the following:

- VMware vSphere Install, Configure, Manage [5.5 or 6]
- VMware vSphere Fast Track
- Knowledge and administration experience with ESXi and vCenter Server

Experience working at the command prompt is highly recommended.

Exams

VMware Certified Professional (VCP) [VCP6-DCV]

VMware Certified Associate (VCA) [VCA]

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