

# VMWARE VSPHERE 6.7 ULTIMATE BOOTCAMP



vmware®

## Course Introduction:

The **VMware vSphere® 6.7 Ultimate Bootcamp®** is the most comprehensive VMware training course in the industry. This bootcamp is designed for students who want to learn real-world technology application. Our experienced trainers will teach you the fundamental knowledge and skills to master this industry-leading virtualization technology platform. This course combines several popular VMware vSphere classes into one concentrated delivery, saving time and money while providing an in-depth look at the features of VMware (6.7).

The VMware vSphere® 6.7 Ultimate Bootcamp® will maximize the students' training experience with hands-on VMware vSphere labs based upon realistic scenarios and conducted with state-of-the-art equipment. The class will prepare the student to achieve the **Certified Virtualization Expert 6.7 (CVE 6.7)** certification, which will demonstrate practical VMware vSphere knowledge and skills as a certified professional.

## Prerequisites:

Before attending this course, students are expected to have:

- System administration experience on Microsoft Windows or Linux operating systems
- Understanding of concepts presented in the VMware Data Center Virtualization Fundamentals course for VCA-DCV certification

## Who Should Attend:

This course is intended for IT Professionals who are System Administrators or System Integrators. Students should already have experience in System administration experience on Microsoft Windows or Linux operating systems and an Understanding of concepts presented in the VMware Data Center Virtualization Fundamentals course for VCA-DCV certification.

## What You'll Learn:

- Describe the software-defined data center
- Deploy an ESXi host and create virtual machines
- Describe the vCenter Server architecture
- Deploy a VMware vCenter Server™ Appliance™
- Use vCenter Server to manage an ESXi host
- Configure and manage vSphere infrastructure with NEW VMware vSphere® Client™, NEW vSphere® Host Client and VMware vSphere® Web Client
- Configure virtual networks with vSphere® standard switches
- Use vCenter Server to manage various types of host storage
- Manage virtual machines, templates, clones, vApps, and snapshots
- Describe new enhancements to NFS 4.1, VSAN 6.7 & Virtual Volumes
- Describe and use the content library
- Manage changes to the vSphere environment
- Migrate virtual machines with VMware vSphere® vMotion®
- Use VMware vSphere® Storage vMotion® to migrate virtual machine storage
- Monitor resource usage and manage resource pools
- Manage VMware vSphere® High Availability and VMware vSphere® Fault Tolerance
- Use VMware vSphere® Distributed Resource Scheduler™ clusters to improve host scalability
- Describe Proactive HA, VM-level encryption, Network Aware DRS & Predictive DRS
- Use vSphere® distributed switches to improve network scalability
- Configure and manage ESXi networking and storage for a sophisticated enterprise
- Optimize the performance of all vSphere components
- Harden the vSphere® environment against security threats
- Use VMware vSphere® ESXi™ Shell to manage vSphere
- Describe BC/DR solutions vSphere® Replication 6.7 & Site Recovery Manager
- Use NEW web-based Sphere® Update Manager™ to apply patches
- Use vSphere® Data Protection appliance to backup and restores virtual machines
- Describe proper steps and pathways for upgrades of previous versions of vSphere® to 6.7
- Perform basic troubleshooting of ESXi hosts, virtual machines, and vCenter Server operations



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**(919) 283-1653**  
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# VMware vSphere 6.7 Ultimate Bootcamp

## Course Outline:

### Chapter 1: Course Introduction and Methodology (HOL)

### Chapter 2: Virtualization Overview in vSphere 6.7

- Virtualization & Cloud Overview
- Other VMware and 3rd Party Virtualization Products
- What's New in vSphere 6.7 Overview

### Chapter 3: Planning and Installing ESXi 6.7 (VMware vSphere Hypervisor)

- Planning ESXi 6.7 Host Deployment
- vSphere 6.7 Deployment Guidelines
- ESXi 6.7 Image Builder
- vSphere 6.7 Auto Deploy (GUI & Command Line)
- ESXi 6.7 Host Install (HOL)
- Configuring Hostname Resolution and NTP (HOL)
- Troubleshooting ESXi 6.7 Host

### Chapter 4: Using Tools to Administer a VMware® Environment

- Overview of 3rd Party Tools
- ESXi Management (vSphere Client, NEW V6.7 esxcli, vCLI, vMA, Putty, PowerCLI, Web) (HOL)
- Linux Command Review
- Troubleshooting the vSphere Client

### Chapter 5: vCenter™ Server 6.7 and Licensing

- Demystifying vSphere Licensing
- Planning vCenter Server Deployment
- vCenter Server Virtual Appliance & vCenter High Availability (VCHA)
- vCenter Server Installation (HOL)
- vSphere Web Client & new 6.7 vSphere Clients (HOL)
- vCenter Server 6.7 Inventory (HOL)
- Managing vCenter Server 6.7 & new File based Backup/Restore (HOL)
- Troubleshooting vCenter Server, License & Database

### Chapter 6: Configuring Networking

- Create & Modify Virtual Networks (HOL)
- vSphere Distributed Virtual Switches & NIOC (HOL)
- 3rd Party Distributed Switches
- Create & Modify Virtual Networks using CLI (HOL)

### Chapter 7: Configuring Storage

- New Storage Features in vSphere 6.7
- Storage Concepts, Storage Awareness & Profile Driven Storage
- iSCSI Storage (GUI & Command Line) (HOL)
- Fibre Channel Storage & Software FCoE (GUI & Command Line)
- VMFS5 Datastores & new VMFS6 features like SEsparse (GUI & Command Line) (HOL)
- NFS 3 & NFS 4.1 Datastores (GUI & Command Line) (HOL)
- Raw Device Mapping (RDM) (HOL)
- Solid State Disks (SSD)
- vSphere Flash Read Cache
- Storage & Management Solutions
- VMware Virtual SAN (VSAN) 6.1/6.2/6.5/6.7 & vsanSparse snapshot
- VMware Virtual Volumes & VASA 3.0 (VVols)

### Chapter 8: VM Creation and Configuration & Snapshots

- Create a VM (HOL)
- Create Multiple VMs, Templates & Clones (HOL)
- Virtual Appliances (HOL)
- Configuration & Use of vApps
- VMware vCenter™ Standalone Converter (P2V, V2V) (HOL)
- Manage VMs, PCI pass-through, Direct I/O, remote direct memory access, and NVMe (HOL)
- Virtual Machine Startup/Shutdown (HOL)
- Virtual Machine Snapshots (HOL)
- Troubleshooting Virtual Machines

### Chapter 9: Security and Permissions

- Controlling User Access and Passwords (HOL)
- ESXi Lockdown Mode
- ESXi AD Integration (HOL)
- Managing ESXi Firewalls (GUI & Command Line) (HOL)
- VMware Certificate Authority (VCA) & VMware Endpoint Certificate Services

### Chapter 10: Server and VM Monitoring

- Optimizing Resources
- Resource Pools
- Latency Sensitive Applications
- Performance Monitoring (HOL)
- Configuring Alarms (HOL)
- ESXi, vCenter™ Logs and syslog, NetFlow, Port Mirroring, esxtop (HOL)

### Chapter 11: Advanced ESXi and vCenter™ Management

- Storage VMotion (HOL)
- Configuring VMotion (Enhanced, Cross-vCenter, Long Distance) (HOL)
- Distributed Resource Scheduler (DRS) (HOL)
- DRS Cluster Monitoring (HOL)
- Storage Policy Based Management
- Storage Clusters & Storage DRS (SDRS) (HOL)
- Host Profiles 6.7 (HOL)
- Enhanced Linked Mode

### Chapter 12: Patching and Upgrading vSphere™ vCenter™ ESXi

- Patching ESXi & VCSA (HOL)
- Patching with Update Manager (HOL)
- Upgrading & Migrations from earlier vSphere versions to vSphere 6.7

### Chapter 13: Disaster Recovery, Backup and Deployment

- vSphere Replication
- Site Recovery Manager (SRM)
- High Availability (HA) & Fault Domain Manager (FDM) (HOL)
- VM Fault Tolerance
- Microsoft Clustering
- Backup Strategies
- VMware Data Protection (VDP includes Advanced) (HOL)
- Third Party Backups (HOL)

## ULTIMATE Bootcamps!

The instructional design of an Ultimate Bootcamp ensures that you, the student, get the maximum benefit from the course delivery. Students are able to learn more, faster, and have higher retention of knowledge through a combination of highly experienced instructors, quality coaching, hands-on experience, attention to detail, and intuitive courseware.

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