



Course VMT-VSP4BCMP-ILT

VMware vSphere 4.1 Ultimate Bootcamp

5 days, Instructor-Led

INTRODUCTION

The ultimate Bootcamp is taught by the top virtualization experts, with hand-on labs designed to expose the student to advanced virtualization concepts and VMware's vSphere 4.0 Product Suite. This comprehensive class prepares the students to become a professional virtualization expert with the certification (Certified Virtualization Expert (CVE)) to attest to their knowledge of the material and technology. The focus of the VMware vSphere 4.0 Ultimate Bootcamp training course is to instill the knowledge required for the student to do their job efficiently and effectively. To accomplish this, we provide a comprehensive Beginner to Advanced training experience, starting from the installation of the licensed product to real world troubleshooting scenarios. The course focus is not limited only to learning and harnessing the power of VMware® but the entire concept of virtualization and other 3rd party tools and technologies that will enhance VMware® capabilities and increase the student's virtualization expertise.

- Five (5) 10 hour days of intense instruction with no outside distractions.
- Personal access to the top virtualization experts in the industry.
- Each student is provided their own dedicated server for practice and application.
- 50 + labs to hone the student's skills and gain a 360° perspective on how to build and maintain virtual environments.
- Install, configure, deploy, secure, analyze, consolidate and design virtual networks from beginner to advanced levels.
- Lunch and snacks provided on each day of class.
- Application of third party solutions to simplify processes and make the job easier.
- Post-mentoring from the best virtualization instructors in the industry.
- A higher market value for students becoming a Certified Virtualization Expert™.

Official Certified Virtualization Expert Exam: Students will finish the week by taking the Certified Virtualization Expert Exam. Delivered in a professional testing environment, the 2 hour exam is designed to validate the information covered in the Ultimate Bootcamp, and certify the student as a subject matter in the application of Virtualization technologies. To receive the certification the student must successfully complete the Ultimate Bootcamp and pass the examination with a 75% score or higher.

AUDIENCE PROFILE

Individuals that should attend would include: System Administrators, Engineers, and Operators responsible for setup, support, and troubleshooting of ESX 4 Server and/or VirtualCenter. The Ultimate Bootcamp is intended for IT Professionals with 1 or more years of server and infrastructure experience.

PREREQUISITES

Individuals should have 1-3 years System administration experience on Microsoft Windows

COURSE OUTLINE

****HOL – A Hands-on Lab is provided for students on this chapter**

MODULE 1: COURSE INTRODUCTION AND METHODOLOGY

This chapter includes:

- Hands on Lab (HOL)

MODULE 2: VIRTUALIZATION OVERVIEW

Overview of virtualization

MODULE 3: PLANNING AND INSTALLING ESX 4 (HOL)

This chapter includes:

- Planning ESX 4 Server Deployment
- Deployment Guidelines
- ESX 4 Installation (HOL)
- ESX 4 Management
- Configuring Hostname Resolution and NTP (HOL)
- Troubleshooting ESX 4 Server

MODULE 4: USING TOOLS TO ADMINISTER A VMWARE ENVIRONMENT

This chapter explains:

- Overview of 3rd Party Tools
- ESX/ESXI Management (vSphere Client, vCli, Putty, PowerCli, Web) (HOL)
- Troubleshooting the vSphere Client (VIC)

MODULE 5: CONFIGURING NETWORKING

This chapter describes how to:

- Create & Modify Virtual Networks (HOL)
- Create & Modify Virtual Networks using CLI (HOL)

MODULE 6: CONFIGURING STORAGE

This chapter describes:

- Storage Concepts
- iSCSI Storage (GUI & Command Line) (HOL)
- Fibre Channel Storage (GUI & Command Line)
- VMFS Datastores (GUI & Cmd Line) (HOL)
- NAS Storage and NFS Datastores (GUI & Command Line) (HOL)
- Raw Device Mapping (RDM) (HOL)

MODULE 7: VIRTUAL CENTER AND LICENSING

This chapter describes:

- Licensing
- vCenter Server 4 Installation (HOL)

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- vCenter Server 4 Inventory (HOL)
- Managing vCenter Server 4 (HOL)
- Planning vCenter Server 4 Deployment
- Troubleshooting vCenter Server 4 Deployment

MODULE 8: VM CREATION AND CONFIGURATION & SNAPSHOTS

In this chapter you will:

- Create a VM (HOL)
- Create Multiple VMs, Templates & Clones (HOL)
- Virtual Appliances (HOL)
- VMware vCenter Converter 4 (P2V, V2V) (HOL)
- Manage VMs (HOL)
- Virtual Machine Snapshots (HOL)
- Web Access (HOL)
- Troubleshooting Virtual Machines

CHAPTER 9: SECURITY AND PERMISSIONS

This chapter includes:

- Controlling User Access and Passwords (HOL)
- ESX AD Integration (HOL)
- Managing Firewalls (HOL)
- SSH Access (HOL)
- Running elevated Commands (su, sudo, setuid/setgid) (HOL)
- VMsafe and vShield Zones (HOL)

CHAPTER 10: SERVER AND VM MONITORING

This chapter includes:

- Tools for Optimization
- Monitor VM Performance (HOL)
- Configuring Alarms (HOL)
- ESX and vCenter Logs (HOL)

CHAPTER 11: ADVANCED ESX AND VCENTER MANAGEMENT

This chapter includes:

- Storage Views & Topology Maps
- Storage VMotion (HOL)
- Configuring VMotion (HOL)



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- Distributed Resource Scheduler (DRS) (HOL)
- Resource Pools and Monitoring (HOL)
- vNetwork Distributed Virtual Switches (HOL)
- Host Profiles (HOL)
- Linked Mode Group of vCenter Servers

CHAPTER 12: PATCHING AND UPGRADING ESX/ESXI

This chapter includes:

- Patching ESXServer 4 (HOL)
- Patching with Update Manager (HOL)
- Upgrades and Migrations (HOL)
- Upgrading from ESX 3.x to ESX 4.x (HOL)

CHAPTER 13: DISASTER RECOVERY AND BACKUP

This chapter describes:

- Site Recovery Manager (SRM)
- High Availability (HA) (HOL)
- VMware Fault Tolerance
- Microsoft Clustering
- Backup Strategies
- Using VCB Command Line Utilities (HOL)
- VMware Data Recovery (HOL)
- Third Party Backups (HOL)