



Course VMT-VSP5BCMP-ILT

VMT-VMware vSphere 5.0 Ultimate Bootcamp

5 days, Instructor-Led

INTRODUCTION

This course combines several popular VMware vSphere classes into one concentrated delivery, saving time and money while providing an in depth look at VMware's latest version release (5.0) in an accelerated learning format designed to immerse the student into the new features inside version 5.0. VMware vSphere 5.0 is taught by leading experts in the field of virtual technologies, students will gain key insights into the constant evolution of cloud based datacenters, hybrid cloud modeling, new pooled vRAM licensing, and managing multiple hosts, mastering vCenter 5.0 services and how to maximize datacenter efficiency while maintaining VMware licensing compliance policies. Students attain not only knowledge, but experience, utilizing vSphere 5.0 technologies along with 3rd party applications providing skills that directly translate to real-world ability.

- Five (5) 10 hour days of intense instruction with no outside distractions
- Lunch and snacks provided on each day of class.
- Personal access to the top virtualization experts in the industry
- Each student is provided their own dedicated server to practice on.
- 50 + labs to hone skills and give a 360° perspective on how to build and maintain virtual environments. Labs include: vMotion, Storage vMotion, High Availability (HA), Data Recovery, Hot Add, Enhanced vMotion Compatibility (EVC), Distributed Resource Scheduler (DRS), Storage DRS, Network I/O Control, New esxcli & localcli, NetFlow, monitoring, ESXi 5.0 Firewall, Host, Profiles, Policy Driven Storage, VMFS-5, and many other virtualization technologies.
- Install, configure, deploy, secure, analyze, consolidate and design virtual networks, from A-Z
- Learn to apply third party solutions to simplify processes and make the job easier.
- Post mentoring from the best virtualization instructors in the industry.
- The Certified Virtualization Expert certification establishes credentials with employers.

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 Hand-on-lab is provided for students on this chapter.**

CHAPTER 1: COURSE INTRODUCTION AND METHODOLOGY (HOL)

This chapter includes:

- Hands on Lab (HOL)

CHAPTER 2: VIRTUALIZATION OVERVIEW AND WHAT'S NEW IN VSPHERE 5.0

Overview of virtualization

CHAPTER 3: PLANNING AND INSTALLING ESXI 5 (VMWARE VSPHERE HYPERVISOR)

This chapter includes:

- Planning ESXi 5 Server Deployment
- Deployment Guidelines
- ESXi 5 Image Builder
- ESXi 5 Server Install **(HOL)**
- Configuring Hostname Resolution and NTP **(HOL)**
- Troubleshooting ESXi 5 Server

CHAPTER 4: USING TOOLS TO ADMINISTER A VMWARE® ENVIRONMENT

This chapter includes:

- Overview of 3rd Party Tools
- ESXi Management (vSphere Client, NEW V5 esxcli, vCLI, vMA, Putty, PowerCLI, Web) **(HOL)**
- Troubleshooting the vSphere Client (VIC)

CHAPTER 5: VCENTER™ SERVER 5 AND LICENSING

This chapter includes:

- Demystifying vSphere 5 Licensing
- vCenter Server 5 Installation **(HOL)**
- vCenter Server 5 Virtual Appliance
- vCenter Server 5 Inventory **(HOL)**
- Managing vCenter Server 5 **(HOL)**
- vCenter Solutions Manager
- Planning vCenter Server 5 Deployment
- Troubleshooting vCenter Server 5 Deployment

CHAPTER 6: CONFIGURING NETWORKING

This chapter includes:

- Create & Modify Virtual Networks **(HOL)**
- Create & Modify Virtual Networks using CLI **(HOL)**
- vNetwork Distributed Virtual Switches & NIOC **(HOL)**
- Network Monitoring and Troubleshooting (NetFlow, Port Mirror, LLDP, 802.1p Tagging)

CHAPTER 7: CONFIGURING STORAGE

This chapter includes:

- Storage Concepts, Storage Awareness & Profile, Driven Storage
- iSCSI Storage (GUI & Command Line) **(HOL)**

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- Fibre Channel Storage & Software FCoE (GUI & Command Line)
- VMFS 5 Datastores and SSD (GUI & Command Line) **(HOL)**
- NAS Storage and NFS Datastores (GUI & Command Line) **(HOL)**
- vSphere Storage Appliance (VSA)
- Raw Device Mapping (RDM) **(HOL)**

CHAPTER 8: VM CREATION AND CONFIGURATION & SNAPSHOTS

This chapter includes:

- Create a VM **(HOL)**
- Create Multiple VMs, Templates & Clones **(HOL)**
- Virtual Appliances **(HOL)**
- VMware vCenter™ Standalone Converter (P2V, V2V) **(HOL)**
- Manage VMs **(HOL)**
- Virtual Machine Startup/Shutdown **(HOL)**
- Virtual Machine Snapshots **(HOL)**
- vSphere 5 Web Client **(HOL)**
- Troubleshooting Virtual Machines

CHAPTER 9: SECURITY AND PERMISSIONS

This chapter includes:

- Controlling User Access and Passwords **(HOL)**
- ESXi 5 AD Integration **(HOL)**
- Managing ESXi 5 Firewall (GUI & Command Line) **(HOL)**
- VMsafe and vShield Zones

CHAPTER 10: SERVER AND VM MONITORING

This chapter includes:

- Configuring Alarms **(HOL)**
- VM Optimization for vSphere 5 Licensing **(HOL)**
- Optimizing Resources
- Monitor VM Performance **(HOL)**
- Using NetFlow Tool **(HOL)**
- ESXi, vCenter™ Logs and syslog **(HOL)**

CHAPTER 11: ADVANCED ESXI AND VCENTER™ MANAGEMENT

This chapter includes:



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- Storage Views & Topology Maps
- Storage VMotion and SvMotion Snapshots **(HOL)**
- Configuring VMotion **(HOL)**
- Distributed Resource Scheduler (DRS) **(HOL)**
- Resource Pools and Monitoring **(HOL)**
- Storage DRS (SDRS) **(HOL)**
- Host Profiles **(HOL)**
- 8. VSphere 5 Auto Deploy (GUI & Command Line)
- 9. Linked Mode Group of vCenter™ Servers

CHAPTER 12: PATCHING AND UPGRADING VCENTER™/ESX/ESXI

This chapter includes:

- Patching ESXi 5 **(HOL)**
- Patching with Update Manager **(HOL)**
- Upgrades and Migrations (ESX to ESXi)
- Upgrading from ESXi 4.x to ESXi 5.x

CHAPTER 13: DISASTER RECOVERY, BACKUP AND DEPLOYMENT

This chapter includes:

- Site Recovery Manager 5 (SRM5)
- High Availability (HA) & Fault Domain Manager (FDM) **(HOL)**
- 3. VM Fault Tolerance
- 4. Microsoft Clustering
- 5. Backup Strategies
- 6. VMware Data Recovery **(HOL)**
- 7. Third Party Backups **(HOL)**