

**CTREC
HILTON**
IT ACADEMY



VMware vSphere® 5.0 Ultimate Bootcamp®

- 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 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.

Course Summary

VMware vSphere® 5.0 is the industry leading virtualization technology platform accelerating the shift to cloud computing for existing datacenters. 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.

The Value of 7 VMware® Classes in one!

	VMware Courses		Our Course
Install, Configure, Manage (ICM)	5 Days	\$3495.00	INCLUDED!
Skills for Operators	2 Days	\$1495.00	INCLUDED!
What's New!	2 Days	\$1495.00	INCLUDED!
Manage Availability (MA)	1 Day	\$ 745.00	INCLUDED!
Manage Scalability (MS)	1 Day	\$ 745.00	INCLUDED!
Manage for Performance	3 Day	\$2475.00	INCLUDED!
Troubleshooting	4 Days	\$3295.00	INCLUDED!
Fast Track (ICM, MA, MS)	5 Days	\$4700.00	INCLUDED!

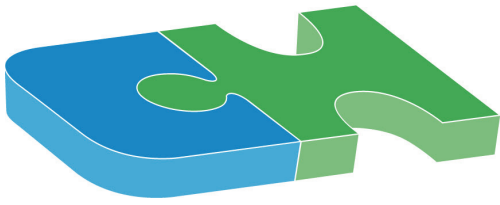
Save 67% in cost and 72% in time with the VMware vSphere 5.0 Ultimate Bootcamp!*

*Based on Suggested Retail Pricing

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, setting up 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.

Call Today to Enroll! 1-866-882-8732





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VMware vSphere® 5.0 Ultimate Bootcamp®

Learn It! Do It! Know It!™

Work on VMware® HCL Hardware & Perform Real World Labs

Each student is assigned their own dedicated Dell PowerEdge server with 24 hour access during the Bootcamp week. Students will perform all labs on hardware you find in a real data centers and not PC's like you find in other VMware® Training courses. Having 24/7 unlimited access to a real world data center means the student can leverage the learning experience by revisiting labs where other courses have limited hours and access to servers. This flexibility allows students to learn at their own pace without time constraints or distractions.



Qualified Instructors Make A Difference

The Ultimate Bootcamp® instructors are not just instructors. They are also consultants who have performed small, medium, and large consolidation projects, and who have real world experience using the virtualization technology and techniques that they teach. Bringing this experience into the classroom gives the student a real training experience not found in other 9-5 training programs. Students are able to work on their own, bring their questions into the classroom, and ask the "What If" questions that they are working on in their own live environment.

Essential Third Party Tools

Any job is easy when you have the right tools. In the Ultimate Bootcamp® the student will be introduced to and learn how to apply third party tools that when utilized in conjunction with VMware®, will not only enhance students' skills, but also simplify processes, optimize efficiency, and make their jobs that much easier.

Quality "Resourceware" and Follow-on Continuing Education

The Ultimate Bootcamp® includes a 750+ page course manual and over 50 labs, the most of any training program available, leading to 65% of the class time spent learning through hands-on labs. The Ultimate Bootcamp® courseware is intuitively designed to help the student easily move through the chapters regardless of their level of experience and will serve as a reference source even after the class. This unique feature of all Ultimate Bootcamps® is what attracts so many students looking for a great training experience.

"I liked the content and labs for this class better than the class I took last year prior to my implementation. This course involved a lot more command line work...Being a GUI user this experience taught me that there is more to VMware® than just the GUI. I appreciate that and want to learn more!"

Course Objectives

Students will learn:

- About all of the new and exciting features of VMware vSphere® 5.0
- Foundational terms and concepts concerning virtualization
- How to install, configure, and support ESXi Server 5 and vCenter™ 5
- How to configure Virtual Networking including vNetwork Distributed Switches & vShield Zones & how to support VMotion & iSCSI Multipathing.
- P2V, V2V, V2P, and P2P methods and techniques
- Server Consolidation procedures and reasoning
- Tools to support a virtual infrastructure - VMware®, PlateSpin®, Vizioncore™, Veeam, and more
- VMotion™, Storage VMotion, Distributed Power Mgt (DPM), Update Manager, Power Mgmt, Guided Consolidation, Fault Tolerance, Clustering – DRS/HA, etc.
- Best Practices within a Virtual Enterprise
- How to perform backups in the ESXi environment – Service Console and Virtual Machines – VCB and Data Recovery
- How to use the Command Line Interface for supporting ESXi Servers - ESXi commands
- How to configure and optimize storage - FC, iSCSI, NFS, Multipathing, and Thin Provisioning

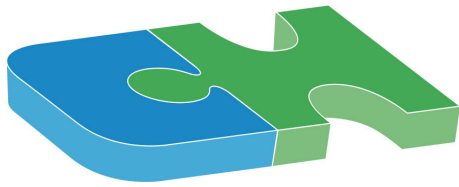
24/7 Access to a real datacenter!

This class prepares the student for the Certified Virtualization Expert® Exam (CVE®) and the VMware vSphere® 5.0 Advanced Administration course.



Two Locations: Houston – 713-255-0360, Dallas – 214-260-3531

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VMware vSphere® 5.0 Ultimate Bootcamp®

Course Outline

* HOL (Hands-on Lab)

Chapter 1 Course Introduction and Methodology (HOL)

Chapter 2 Virtualization Overview and What's New in vSphere 5.0

Chapter 3 Planning and Installing ESXi 5 (VMware vSphere Hypervisor)

1. Planning ESXi 5 Server Deployment
2. Deployment Guidelines
3. ESXi 5 Image Builder
4. ESXi 5 Server Install (HOL)
5. Configuring Hostname Resolution and NTP (HOL)
6. Troubleshooting ESXi 5 Server

Chapter 4 Using Tools to Administer a VMware® Environment

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

Chapter 5 vCenter™ Server 5 and Licensing

1. Demystifying vSphere 5 Licensing
2. vCenter Server 5 Installation (HOL)
3. vCenter Server 5 Virtual Appliance
4. vCenter Server 5 Inventory (HOL)
5. Managing vCenter Server 5 (HOL)
6. vCenter Solutions Manager
7. Planning vCenter Server 5 Deployment
8. Troubleshooting vCenter Server 5 Deployment

Chapter 6 Configuring Networking

1. Create & Modify Virtual Networks (HOL)
2. Create & Modify Virtual Networks using CLI (HOL)
3. vNetwork Distributed Virtual Switches & NIOC (HOL)
4. Network Monitoring and Troubleshooting (NetFlow, Port Mirror, LLDP, 802.1p Tagging)

Chapter 7 Configuring Storage

1. Storage Concepts, Storage Awareness & Profile Driven Storage
2. iSCSI Storage (GUI & Command Line) (HOL)
3. Fibre Channel Storage & Software FCoE (GUI & Command Line)
4. VMFS 5 Datastores and SSD (GUI & Command Line) (HOL)

5. NAS Storage and NFS Datastores (GUI & Command Line) (HOL)
6. vSphere Storage Appliance (VSA)
7. Raw Device Mapping (RDM) (HOL)

Chapter 8 VM Creation and Configuration & Snapshots

1. Create a VM (HOL)
2. Create Multiple VMs, Templates & Clones (HOL)
3. Virtual Appliances (HOL)
4. VMware vCenter™ Standalone Converter (P2V, V2V) (HOL)
5. Manage VMs (HOL)
6. Virtual Machine Startup/Shutdown (HOL)
7. Virtual Machine Snapshots (HOL)
8. vSphere 5 Web Client (HOL)
9. Troubleshooting Virtual Machines

Chapter 9 Security and Permissions

1. Controlling User Access and Passwords (HOL)
2. ESXi 5 AD Integration (HOL)
3. Managing ESXi 5 Firewall (GUI & Command Line) (HOL)
4. VMSafe and vShield Zones

Chapter 10 Server and VM Monitoring

1. Configuring Alarms (HOL)
2. VM Optimization for vSphere 5 Licensing (HOL)
3. Optimizing Resources
4. Monitor VM Performance (HOL)
5. Using NetFlow Tool (HOL)
6. ESXi, vCenter™ Logs and syslog (HOL)

Chapter 11 Advanced ESXi and vCenter™ Management

1. Storage Views & Topology Maps
2. Storage VMotion and SvMotion Snapshots (HOL)
3. Configuring VMotion (HOL)
4. Distributed Resource Scheduler (DRS) (HOL)
5. Resource Pools and Monitoring (HOL)
6. Storage DRS (SDRS) (HOL)
7. 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

1. Patching ESXi 5 (HOL)
2. Patching with Update Manager (HOL)
3. Upgrades and Migrations (ESX to ESXi)
4. Upgrading from ESXi 4.x to ESXi 5.x

Chapter 13 Disaster Recovery, Backup and Deployment

1. Site Recovery Manager 5 (SRM5)
2. 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)

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