

For More Information, Please Contact:

Milwaukee: 414-607-5600

Neenah: 920-967-6000

Wausau: 715-849-2564

Madison: 608-836-8384

# VMware<sup>®</sup> vSphere 4.0 Ultimate Bootcamp<sup>®</sup>



## Course Summary

The VMware<sup>®</sup> vSphere 4.0

Ultimate Bootcamp<sup>®</sup> is

taught by top virtualization

experts and offers hands-on labs designed to expose the student to

advanced virtualization concepts and the VMware<sup>®</sup> vSphere 4.0

product suite. This comprehensive class prepares the student to

become a certified professional virtualization expert with the

Certified Virtualization Expert 4.0<sup>®</sup> (CVE 4.0<sup>®</sup>) certification to attest

to their knowledge of the material and technology.

- 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.
- Install, configure, deploy, secure, analyze, consolidate and design virtual networks from A-Z
- Lunch and snacks provided on each day of class
- 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<sup>®</sup> certification establishes credentials with employers.

## The Value of 5 VMware<sup>®</sup> Classes in one!

Ultimate Bootcamps<sup>®</sup> give the student in-depth skills training through hands-on experience with state-of-the-art equipment. The focus of the CVE 4.0<sup>®</sup> training is to instill the knowledge required for the student to do their job efficiently and effectively first. To accomplish this, the Bootcamp provides a comprehensive, A-Z training experience, starting from the installation of the licensed product to real world troubleshooting scenarios. The course's focus is not limited only to learning and harnessing the power of VMware<sup>®</sup>, but the entire concept of virtualization, 3rd party tools, and technologies that will enhance VMware<sup>®</sup> capabilities and increase the student's virtualization expertise.



"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<sup>®</sup> than just the GUI. I appreciate that and want to learn more!"

# Call Today to Enroll!

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## Learn It! Do It! Know It!<sup>SM</sup>

### Work on VMware<sup>®</sup> 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.

The Ultimate Bootcamp<sup>®</sup> has over **50 labs**, the most of any training program available, leading to 65% of the class time spent learning by hands-on labs. The time spent performing hands-on labs allows the student to develop the skills, knowledge, and techniques needed to implement vSphere 4 in your production environment.

### Qualified Instructors Make A Difference

The Ultimate Bootcamp<sup>®</sup> 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<sup>®</sup> 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

With more than 750 pages and a 250 page lab book, this Ultimate Bootcamp<sup>®</sup> 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<sup>®</sup> is what attracts so many students looking for a great training experience.

# VMware<sup>®</sup> vSphere 4.0 Ultimate Bootcamp<sup>®</sup>

## Course Objectives

- About all of the new and exciting features of VMware<sup>®</sup> vSphere 4.0
- Foundational terms and concepts concerning virtualization
- How to install, configure, and support ESX Server 4 and vCenter 4
- How to configure Virtual Machines, templates, and clones
- 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<sup>®</sup>, PlateSpin<sup>®</sup>, Vizioncore<sup>™</sup>, Veeam, and more
- VMotion<sup>™</sup>, 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 ESX environment – Service Console and Virtual Machines – VCB and Data Recovery
- How to use the Command Line Interface for supporting ESX & ESXi Servers - ESX commands
- Configure and optimize storage - FC, iSCSI, NFS, Multipathing, and Thin Provisioning

**24/7 Access  
to a real data  
center!**



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# Course Outline

\* HOL (Hands-on Lab)

### Chapter 1: Course Intro & Methodology \*HOL

### Chapter 2: Virtualization Overview

### Chapter 3: Planning & Installing ESX 4

1. Planning ESX 4 Server Deployment
2. Deployment Guidelines
3. ESX 4 Installation \*HOL
4. ESX 4 Management
5. Configuring Hostname Resolution and NTP \*HOL
6. Troubleshooting ESX 4 Server

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

1. Overview of 3rd Party Tools \*HOL
2. Windows Commands vs. Linux Commands
3. ESX 4 Configuration Commands
4. Summary of Remote CLI Commands

### Chapter 5: Configuring Networking

1. Create & Modify Virtual Networks \*HOL
2. Create & Modify Virtual Networks using CLI \*HOL

### Chapter 6: Configuring Storage

1. Storage Concepts
2. iSCSI Storage (GUI & Cmd Line) \*HOL
3. Fibre Channel Storage (GUI & Cmd Line)
4. VMFS Datastores (GUI & Cmd Line) \*HOL
5. NAS Storage and NFS Datastores (GUI & Cmd Line) \*HOL
6. Raw Device Mapping (RDM) \*HOL

### Chapter 7: VirtualCenter and License Server

1. Licensing
2. vCenter Server 4 Installation \*HOL
3. vCenter Server 4 Inventory \*HOL
4. Managing vCenter Server 4
5. Planning vCenter Server 4 Deployment
6. Troubleshooting vCenter Server 4 Deployment
7. Troubleshooting the vSphere Client \*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 Converter 4 (P2V, V2V) \*HOL
5. Manage VMs \*HOL
6. Virtual Machine Startup / Shutdown
7. Virtual Machine Snapshots \*HOL
8. Web Access \*HOL
9. Troubleshooting Virtual Machines

### Chapter 9: Security and Permissions

1. Security Overview \*HOL
2. User Access \*HOL
3. ESX AD Integration \*HOL
4. Managing Firewalls \*HOL
5. Advanced Security: SSH & SUDO \*HOL

### Chapter 10: Advanced ESX and VirtualCenter Management

1. Configuring Resource Pools \*HOL
2. Configuring VMotion \*HOL
3. Storage VMotion \*HOL
4. Distributed Resource Scheduler (DRS) \*HOL
5. Resource Pools in DRS Clusters \*HOL
6. Host Profiles \*HOL
7. vNetwork Distributed Virtual Switch \*HOL
8. Cisco Nexus 1000v Virtual Switch

### Chapter 11: Patching and Upgrading ESX

1. Patching ESX Server 4 \*HOL
2. Upgrades and Migrations \*HOL
3. Update Manager \*HOL
4. Upgrading from ESX 3.x to ESX 4.x \*HOL

### Chapter 12: Disaster Recovery and Backup

1. Site Recovery Manager (SRM)
2. High Availability (HA) \*HOL
3. VMware Fault Tolerance
4. Microsoft Clustering
5. Backup Strategies
6. Using VCB Command Line Utilities \*HOL
7. VMware Data Recovery \*HOL
8. Third Party Backups \*HOL

### Chapter 13: Server and VM Monitoring

1. Tools for Optimization
2. Monitor VM Performance \*HOL
2. Configuring Alarms \*HOL
3. Collecting Log Files \*HOL

### Chapter 14: Installing and Configuring ESXi

1. ESXi 4 Server Install \*HOL
2. Managing ESXi 4 with VIC
3. Managing ESXi 4 through VirtualCenter

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