



## VMware® vSphere 4.1 Ultimate Bootcamp®

### Outline

#### Chapter 1: Course Intro & Methodology (HOL)

#### Chapter 2: Virtualization Overview

#### Chapter 3: Planning & Installing ESX/ESXi 4

1. Planning ESX 4 Server Deployment
2. Deployment Guidelines
3. ESX 4 Installation (HOL)
4. ESXi 4 Server Install (HOL)
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
2. ESX/ESXI Management (vSphere Client, vCLI, Putty, PowerCLI, Web) (HOL)
3. Troubleshooting the vSphere Client (VIC)

#### 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 & Command Line) (HOL)
3. Fibre Channel Storage (GUI & Command Line)
4. VMFS Datastores (GUI & Command Line) (HOL)
5. NAS Storage and NFS Datastores (GUI & Command Line)(HOL)
6. Raw Device Mapping (RDM) (HOL)

#### Chapter 7: vCenter Server 4 and Licensing

1. Licensing
2. vCenter Server 4 Installation (HOL)
3. vCenter Server 4 Inventory (HOL)
4. Managing vCenter Server 4 (HOL)

5. Planning vCenter Server 4 Deployment
6. Troubleshooting vCenter Server 4 Deployment

#### 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. Controlling User Access and passwords (HOL)
2. ESX AD Integration (HOL)
3. Managing Firewalls (HOL)
4. SSH Access (HOL)
5. Running Elevated Commands (su, sudo, setuid/setgid) (HOL)
6. VMsafe and vShield Zones (HOL)

#### Chapter 10: Server and VM Monitoring

1. Optimizing Resources
2. Monitor VM Performance (HOL)
3. Configuring Alarms (HOL)
4. ESX and vCenter Logs (HOL)

#### Chapter 11: Advanced ESX and vCenter Management

1. Storage Views & Topology Maps
2. Storage VMotion (HOL)
3. Configuring VMotion (HOL)
4. Distributed Resource Scheduler (DRS) (HOL)



5. Resource Pools and Monitoring (HOL)
6. vNetwork Distributed Virtual Switches (HOL)
7. Host Profiles (HOL)
8. Linked Mode Group of vCenter Servers

### **Chapter 12: Patching and Upgrading ESX/ESXi**

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

### **Chapter 13: Disaster Recovery and Backup**

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

### **Logistics**

Five (5) 10 hour days