



## Mastering a VMware vSphere 4.0 Infrastructure

4-days Instructor-led Classroom Training & Hands-on Labs

### Module 1: Course Introduction

### Module 2: Virtualization Overview

Lessons

- VMware and other virtualization products
- vSphere Licensing
- Basic concepts of virtualization

### Module 3: Installation

Lessons

- ESX/ESXi prerequisites
- Deployment Best Practices
- Initial Configuration

### Module 4: Administration

Lessons

- vSphere client
- vSphere CLI
- Additional 3rd party tools
- Overview of vSphere commands

### Module 5: vCenter Server

Lessons

- Prerequisites
- Installation
- Configuration and Licensing of Hosts
- Linked Mode
- Host Profiles

For dates & additional course outlines, visit us on-line at [www.ctcomp.com](http://www.ctcomp.com)



## Module 6: Networking

### Lessons

- Creation of Standard and Distributed vSwitches
- NIC Teaming
- Security Profiles
- Load Balancing

## Module 7: Storage

### Lessons

- Overview and Configuration of Fibre Channel, iSCSI, and NFS storage
- VMFS Datastores
- Raw Device Mappings
- Storage Multipathing
- VMFS Volume Grow

## Module 8: Virtual Machine Creation

### Lessons

- Creation and Customization of VMs
- Virtual Thin Disk Provisioning
- VMware Tools
- Virtual Appliances
- Templates and Cloning
- Snapshots
- vCenter Converter
- Guided Consolidation

## Module 9: Security and Access Control

### Lessons

- Assigning Permissions
- Custom Roles
- Firewalls
- vSphere/Active Directory Integration
- vShield Zones
- VMsafe

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## Module 10: Clustering

### Lessons

- VMotion
- Storage VMotion
- Distributed Resource Scheduler
- High Availability
- VMware Fault Tolerance

## Module 11: Performance Tuning and Monitoring

### Lessons

- Resource Pools
- Limits and Reservations
- vApps
- Dynamic Power Management
- Alarms
- Maps
- Performance Monitoring
- Collection of Log Files

## Module 12: Disaster Recovery

### Lessons

- Update Manager
- Host Update Utility
- VMware Consolidated Backup
- vCenter Data Recovery
- Upgrading from ESX 3.x to 4.0

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