

## VMware vSphere: Manage for Performance [V4x]

**Duration:** 3 Days

### Course Description

This hands-on VMware® training course explores the management of performance in a VMware vSphere™ environment. You will gain the knowledge and skills necessary to make fundamental design decisions that enhance performance, and you will learn to meet performance goals in an already-deployed vSphere installation. The course is based on VMware ESX™ 4.0, ESXi 4.0, and vCenter™ Server 4.0..

### Audience

System administrators, systems engineers, and consultants responsible for managing the performance of a vSphere installation

### Prerequisites

This is an advanced course. Experience with working at the command prompt is highly recommended. Required prerequisites include completing one of the following or having equivalent knowledge and administration experience with ESX/ESXi and vCenter Server:

- VMware vSphere: Install, Configure, Manage [V4.1]
- VMware vSphere: Install, Configure, Manage [V4]
- VMware vSphere: Fast Track [V4]
- VMware vSphere: What's New [V4]
- VMware vSphere: Install, Configure, Manage [V4.1]
- VMware vSphere: What's New [V4]

### Course Outline

#### 1. Performance in a Virtualized Environment

- vSphere performance troubleshooting methodology
- Software and hardware virtualization techniques and their impact on performance
- Monitor performance using vCenter Server performance charts and the ESX/ESXi `resxtp` command

#### 2. CPU Performance

- CPU scheduler and other features that have an impact on CPU performance
- Monitor key CPU performance metrics
- Troubleshoot common CPU performance problems

#### 3. Memory Performance

- Memory reclamation techniques and memory overcommitment
- Monitor key memory performance metrics
- Troubleshoot common memory performance problems

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### **4. Guidelines for DRS and Resource Controls**

- Performance guidelines for DRS clusters, resource pools, and resource allocation settings

### **5. Network Performance**

- Performance features of modern network adapters
- Monitor key network performance metrics
- Troubleshoot common network performance problems

### **6. Storage Performance**

- How storage protocols, VMware vStorage VMFS configuration, load balancing, and queuing affect performance
- Monitor key storage performance metrics
- Troubleshoot common storage performance problems

### **7. Virtual Machine Performance**

- Guidelines for configuring a virtual machine for optimal performance

### **8. Application Performance**

- Tools and guidelines for application performance