

VMware vSphere: Manage and Design for Security

Duration: 3 Days

Course Description

This course shows you how to follow best practices for secure design, deployment, and operation of a VMware vSphere™ environment. Through lecture, discussion, and hands-on practice, you will gain the knowledge and skills necessary to meet the security and compliance goals of your organization

Audience

System administrators, systems engineers, and consultants responsible for securing a vSphere installation

Prerequisites

This is an advanced course. Prerequisites include the completion of one of the following:

- VMware vSphere 4: Install, Configure, Manage
- VMware vSphere: Fast Track
- VMware vSphere 4: What's New
- Equivalent knowledge and administration experience with VMware ESX™/ESXi and VMware vCenter™ Server
- Experience working at the command prompt is helpful.

Course Outline

1: Course Introduction

- Introductions and course logistics
- Online resources for security and compliance

2: Security in a Virtual Environment

- Review of information security and risk management concepts
- How virtualization affects security and compliance
- Top vulnerabilities in a virtual environment
- Basic guidelines for securing a virtual environment
- Security tools and technologies

3: Secure Virtual Networking

- vNetwork security architecture
- Network segmentation and traffic isolation
- Secure virtual network configuration
- Traffic isolation with private VLANs

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4: Protecting the Management Environment

- vCenter Server authentication, authorization, and accounting Working with SSL certificates
- Hardening the vCenter Server system

5: Protecting VMware ESX/ESXi Host Systems

- ESX and ESXi security architecture
- Controlling access to storage
- Hardening ESX and ESXi hosts

6: Hardening Virtual Machines

- Virtual machine security architecture
- Configuring security parameters

7: Configuration and Change Management

- Configuration and change management goals and guidelines
- Maintaining the proper configuration of vSphere components
- Monitoring logs for security-related events
- Configuration and change management tools and technologies