



VMware vSphere: Manage and Design for Security HH638S

Course Overview

This course shows you how to follow best practices for secure design, deployment, and operation of a VMware vSphereT 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. This course is 60% lecture and 40% hands-on lab.

Price	USD \$2,700
Links to local schedules, pricing and registration	US/Canada Mexico/Latin America Brazil
Course title	VMware vSphere: Manage and Design for Security
HP course #	HH638S
Category	VMware
Duration	3 days

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 (HH627S)
- Equivalent knowledge and administration experience with VMware ESXT/ESXi and VMware vCenterT Server

Experience working at the command prompt is helpful.

Course objectives

After completing this course, you should be able to:

- Identify vulnerabilities in the current design of a vSphere environment and recommend corrective actions
- Harden vSphere components as described in vSphere Hardening Guide
- Recommend configuration and change management policies, processes, and systems

Course outline

Module 1: Course Introduction

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

Module 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

Module 3: Secure Virtual Networking

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

Module 4: Protecting the Management Environment

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

Module 5: Protecting VMware ESX/ESXi Host Systems

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

Module 6: Hardening Virtual Machines

- Virtual machine security architecture
- Configuring security parameters

Module 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

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