

CVSE Certified Virtualization Security Engineer

Overview

This fast paced, deep dive, hands-on course provides not only the foundation needed for highly secure deployment of VMware vSphere, it also provides a complete understanding of the CIA triad as it relates to virtualization. This course will cover everything from design, configuration, best practices, performance monitoring, and just about everything in-between! We endeavor to provide an understanding of what can and cannot be performed to secure your virtualized datacenter!

Course Objectives

- The Datacenter is under attack and mistakes made in implementing the virtual platform can lead to a major attack. It has happened before and will again.
- Every day we read about new methods of attacking Infrastructure as a Service such as Amazon, now learn how a properly designed virtual layer can aid in mitigating some of these attacks.
- Learn how Confidentiality can be improved with some awesome features implemented in vSphere.
- Learn how Integrity can be maintained with a proper design and implementation of VMware vSphere.
- Learn how Availability is designed into the VMware vSphere architecture and how you can improve and maintain this
- Spend some time performing a few hacks, and a lot of time implementing a secure architecture with hands on labs
- Much of your time will be hands on

Upon Completion

Students will:

- Have learned the pros, cons, best practices, and skills of virtualization.
- Be able to design, secure, deploy, and manage virtual machines.
- Be ready to sit for the C)VE exam.

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Course Length

4 days

Format

- Instructor Led Training
- Instructor Led Online Training

Prerequisites

- Network+ Certification or Equivalent Knowledge
- Two Years' Experience with Microsoft or Linux Servers Basic Virtualization/Cloud Knowledge
- Certified Virtualization Engineer or equivalent knowledge

Student Materials

- Student Workbook –400+ Pages
- Student Lab Guide –200+ Pages

Certification Exam

Certified Virtualization Security Engineer

Who Should Attend?

Virtualization and Cloud Administrators and Engineers, Virtualization and Cloud Security Engineers, System Administrators and Engineers.

Course Contents

- Module 1 - Virtualization and Cloud Overview
- Module 2 - vSphere Monitoring and Performance (Availability Constraints)
- Module 3 - vSphere Native Security
- Module 4 - vSphere Security Risks

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- Module 5 - Designing for Security
- Module 6 - Hardening vSphere
- Module 7 - Managing Risk and Compliance
- Module 8 - Third Party Mitigation Solutions & Scanning

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