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Learning Style: On Demand

Technology: VMware

Difficulty: Intermediate

Course Duration: 18 Hours

Certified Virtualization Security Expert (Advanced VMware Security)

This course prepares you for the CVSE Exam leading to CVSE Certification. This course does not include the Official Exam Voucher, however, you can request to purchase the Official Exam Voucher separately.

About this course:

VMware is a virtualization and cloud computing software provider based in Palo Alto, California. Founded in 1998, VMware is a subsidiary of Dell Technologies. EMC Corporation originally acquired VMware in 2004; EMC was later acquired by Dell Technologies in 2016. VMware bases its virtualization technologies on its bare-metal hypervisor ESX/ESXi in x86 architecture. The purpose of the Certified Virtualization Security Expert (Advanced VMware Security) Certified Training course is to help you to know all the necessary information for being Certified Virtualization Security Expert. The course will teach you all about routing and the security design of VMware so that you can work as a security expert. The course teaches you about Primer and reviewing concepts including virtual switch correctness, types of ports, and failover configurations. You will also know the basic routing system and the security components of VMWare. You will be introduced to the remote DataStore security system such as fibre channels, IPSec, and storage security. To sum up, the course covers the topics including Remote DataStore security, Penetration Testing 101, information gathering, scanning and enumeration, penetration testing and the tools of the trade. You will also learn about DMZ virtualisation and common attack vectors, hardening your ESX server, hardening your ESXi server, hardening your vCenter server, and 3rd party mitigation tools. This course helps in the preparation for CVSE exam.

The average salary for Security Administrator is **$64,430** per year.

Course Objective:

After completing this course, students will be able to:

- Administer a VMware Infrastructure
- Perform a Penetration Test against a VMware Infrastructure
- Have a sound understanding of the routing performed in a vSS or vDS
- Understand the security designs built into a VMware infrastructure
- Properly setup the Remote DataStore
- Fully harden the ESXi host and entire VMware environment

Audience:

This course is intended for:

- System Administrators
- Security Administrators using virtualization software.

Prerequisites:

- Candidates should have 6 months to a year of experience in monitoring, analyzing and planning the use of VMware ESXi in a medium-size to enterprise-size computing environment.

Suggested prerequisites courses:

- VMware vSphere 4.x/5.x to vSphere 5.5 Upgrade & New Technology Ult.

Bootcamp
- VMware vSphere 6.0 Ultimate Bootcamp

Course Outline:

- Course Introduction
- Chapter 01 - Primer and Reaffirming Our Knowledge
- Chapter 02 - Routing and the Security Design of VMware
- Chapter 03 - Remote DataStore Security
- Chapter 04 - Penetration Testing 101
- Chapter 05 - Information Gathering, Scanning and Enumeration
- Chapter 06 - Penetration Testing and the Tools of the Trade
- Chapter 07 - DMZ Virtualization and Common Attack Vectors
- Chapter 08 - Hardening Your ESX Server
- Chapter 09 - Hardening Your ESXi Server
- Chapter 10 - Hardening Your vCenter Server
- Chapter 11 - 3rd Party Mitigation Tools
- Course Summary

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