

Securing and Auditing Virtualized Environments

Best Practices for Securing
and Auditing VMware ESX
and Microsoft Hyper-V

May 3-7, 2010
Burlington, MA

December 6-10, 2010
San Francisco, CA

In this five-day seminar you will:

- Cover virtualization basics and hardware considerations
- Examine best practices for securing ESX servers and a Hyper-V environment
- Explore ESX logging and other configuration areas that will help ensure your virtual server hosts are secure
- Develop an audit program for ESX/ Hyper-V and the virtual server environment
- And much more



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Seminar Focus and Features

The popularity of virtualization continues to increase, and it is quickly becoming the next standard for server infrastructure. The major products in this space are VMware's ESX and Microsoft's Hyper-V, and both have free versions that will increase the momentum towards server virtualization. There is no doubt that virtualization allows a company to do more with less, save money on server hardware, simplify disaster recovery and server management, and save on power and cooling costs, but just how secure is it?

In this five-day seminar you will focus on ESX and Hyper-V security. You will start with virtualization basics, hardware virtualization considerations, and different versions of ESX. You will examine best practices for securing ESX servers, access to the management console, ESX logging, and other configuration issues to ensure your ESX virtual server hosts are secure and stable. You will then review Hyper-V and best practices for securing a Hyper-V environment. Finally, you will tie all of these concepts together with the formulation of a suggested audit program of ESX/Hyper-V and the virtual server environment. Case studies using a combination of live demonstrations and exercises will reinforce important virtualization concepts and associated audit points addressed in real audit projects.

Prerequisite: *A working knowledge of operating system security, networking concepts, and associated logical access controls such as those presented in Network Security Essentials (ASG203), Intermediate Audit School (ITG241), or Auditing Networked Computers (ITG211).*

Learning Level: *Intermediate* **Field:** *Auditing*

Who Should Attend

Information Security Managers, Analysts, and Administrators; IT Managers, Architects, and Developers/Integrators; IT Auditors; Network and System Administrators; Security Architects and Engineers; Application Certification/Quality Assurance Specialists; Consultants; Compliance Officers; Project Managers

What You Will Learn

1. Virtualization Basics

- what it is
- advantages and disadvantages of virtualization
- hardware considerations
- high availability
- back-up strategies

- ESX and Hyper-V
- integrating virtualization and disaster recovery
- potential hypervisor attacks

2. ESX Basics

- ESX versions
- ESX 3.5 and 3.5i
- managing ESX hosts
- ESX host security
- patching ESX hosts

3. Hyper-V Basics

- Windows Server 2008 vs. Windows Server 2008 Server Core
- Installing Hyper-V on Windows Server 2008 vs. Server Core
- System Center Virtual Machine Manager, Server Core and Hyper-V
- Windows Server 2008 and Hyper-V
- best practices for securing Hyper-V hosts

4. Developing an Audit Program for ESX/Hyper-V

- hardware parameters
- proper UPS configuration for hosts and guests
- best practices for console access
- log file configuration and review
- firewall configuration
- SNMP configuration
- Scanning for servers for security holes/viruses/root kits
- back-up strategy
- patch management
- VMotion/DRS security
- virtual guest configuration
- virtual server guest base images

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- *Information Security Boot Camp*
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About the Instructor

Alan Sugano is President of ADS Consulting Group, Inc. Mr. Sugano's areas of expertise include networking; server, workstation, and application virtualization; security; custom programming; Web development; SharePoint; and SQL server development. Previously, he was with Coopers & Lybrand (now PricewaterhouseCoopers) as an MAS consultant.

Mr. Sugano speaks regularly on such topics as virtualization, network audit and security, troubleshooting, network design and implementation, server selection, network documentation and management, and disaster recovery. He is a Contributing Editor for *Windows IT Pro*, the author of the *Real-World Network Troubleshooting Manual*, and a Microsoft Most Valuable Professional (MVP).

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