

Control and Security of Microsoft SQL Server HANDS-ON

Course Duration: 1 Day
CPE Hours: 8 Hours
Level: Intermediate/Group-Live
Prerequisites: None
Advanced Preparation: None

This course discusses the principles and methodology of designing and the importance of monitoring SQL Server security. Participants will learn the benefits of having and the process of creating a security policy. This course covers the guidelines for implementing server-level security using authentication methods, creating password policies and for determining service account permissions. Participants will also learn how to design SQL Server instance and database-level security policies. Also covered in this course are the guidelines and considerations for securing data using encryption and certificates and for responding to virus, worm, denial-of-service and injection attacks. Participants are required to have a network-enabled Win2K/XP/Vista laptop with administrative rights to both the operating system and anti-virus software (to create a directory exempt from anti-virus scanning), and a CD-ROM drive.

Who Should Attend:

IT and audit personnel looking for a basic understanding of Microsoft SQL Server including how to harden it and how attackers exploit some of the most common configuration flaws.

Seminar Outline:

- Principles of Database Security
- Methodology for Designing a SQL Server Security Policy
- Monitoring SQL Server Security
- Developing Windows Server-Level Security Policies
- Integrating SQL Server Security Within the Active Directory Environment
- Integrating SQL Server Security With Firewall Configurations
- Auditing the SQL Server Logins
- Auditing the Windows Local Password Policy
- Auditing SQL Server Service Accounts
- Designing an Instance-Level Security Policy
- Designing a Database-Level Security Policy
- Discussing Database Security Exceptions
- Securing Data by Using Encryption and Certificates
- Designing a Response Policy for Virus and Worm Attacks
- Designing a Response Policy for Denial-of-Service Attacks
- Designing a Response Policy for Internal and SQL Injection Attacks

Activities:

- Checking a Remote SQL Server for Weak Passwords
- Cracking SQL Server Password Hashes
- Compromising a Windows System Using xp_cmdshell
- Basic SQL Injection Techniques
- Advanced SQL Injection Techniques