

Course 2011 Overview

Endpoint Security and Network Access Control - 4 Days

You Will Learn How To

- • Enforce security policies to protect sensitive data from internal and external threats
- • Deploy Network Access Control to prevent malware contamination
- • Implement Data Loss Prevention (DLP) through host-based IDS/IPS and endpoint encryption
- • Regulate USB devices and optimise anti-malware

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Who Should Attend

Security professionals seeking to enforce security policies for the protection of sensitive data and assets from internal and external threats. Knowledge at the level of Course 468, "[System and Network Security Introduction](#)," is assumed.

**Hands-On Experience
Includes:**

- • Implementing port security
- • Deploying agent software to manage endpoints
- • Assigning endpoints dynamically to VLANs
- • Enforcing anti-malware policies
- • Controlling peripheral device access
- • Requiring encryption on attached network devices

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Introduction to Endpoint Security

Internal defences vs. perimeter defences

- Defining a holistic security posture
- Assessing threats from client-side and internal attacks
- Shifting the paradigm from a fortress mentality

Establishing a secure internal architecture

- Instituting a risk-based access control policy
- Choosing guest access strategies
- Regulating, monitoring and controlling network traffic

Establishing VLANs to Isolate Traffic

Developing a VLAN strategy

- Deciding on the number and types of VLANs
- Configuring VLAN trunking
- Managing VLAN access centrally

Segregating and isolating traffic

- Restricting access with port security
- Setting up quarantine and guest VLANs
- Managing port security violations

Implementing Network Access Control (NAC)

Installing a NAC server

- Implementing and authenticating with EAP
- Leveraging VLAN infrastructure

Securing access with 802.1X

- Configuring authentication agents
- Deploying certificates and RADIUS servers
- Denying rogue devices

Establishing Policy Servers and Repositories

Implementing policy-based access control

- Configuring system health requirements
- Creating a Bring Your Own Devices (BYODs) policy

Managing patches and anti-malware updates

- Establishing software repositories
- Pushing OS and application patches to clients

Monitoring and enforcing endpoint security

- Checking system health against policy
- Validating pre-connect and post-connect profiles
- Quarantining and remediating noncompliant devices

Managing Confidentiality for Data at Rest

Establishing an encryption policy

- Handling mobile devices and removable media
- Integrating encryption with Data Loss Prevention (DLP)

Implementing encryption

- Leveraging PKI to generate corporate recovery keys
- Enforcing full and partial disk encryption for endpoints

Preventing and Detecting Data Exfiltration

Developing a data loss strategy

- Permitting required traffic and denying dangerous traffic
- Configuring enterprise host firewalls
- Regulating attached USB and portable devices

Monitoring and detecting data leakage

- Preventing covert tunnels within DNS and HTTP(S) traffic
- Preventing Personally Identifiable Information (PII) leaks
- Identifying attempts to steal data

Implementing Anti-Malware Defences

Deploying anti-malware

- Pushing defensive software to endpoints
- Establishing internal anti-malware signature update servers
- Managing mobile and remote users

Managing enterprise anti-malware configuration

- Configuring scanning policies
- Determining responses to infection alerts
- Securing anti-malware configurations

Deploying host-based IDS/IPS

- Monitoring host processes
- Deciding among deployment options

Reporting and Compliance Checking

Responding to and mitigating attacks

- Assessing incidence response strategies
- Developing mitigation and containment strategies

Demonstrating organisational compliance

- Generating reports for compliant and noncompliant systems
- Complying with government regulations
- Tracking policy effectiveness
- Producing policy violation reports