

Course Introduction

This Course is how to protect your infrastructure and protect your network by using network security technology such as Firewall, Proxy IDS/IPS and harden Operating system and services and Network device such as Routers/Switches and also how to manage your network with network monitoring tools to detect threats

Course Objectives

- To understand Information Security Hardening Concept
- To understand Network Infrastructure Security Design
- To understand and Implement Operating System Security
- To understand and Implement Network Devices Security
- To understand and Implement Security Monitoring Concept
- To understand and Implement Security Devices in Network Infrastructure

Course Highlights

- Software and tools provided
- Free membership for ACIS Alumni
 - Access to the latest information related to the course subjects
 - A life-time class re-sit

Learning Level

- Intermediate

Course Duration

- 5 Days

Course Prerequisite

- Knowledge of network fundamentals including OSI model, TCP/IP Protocol, and basic Cisco hardware familiarity.
- Existing Internetworking knowledge.
- Knowledge about Basic Operating system (Windows, Linux)

Target Group

For More Information & Registration, Please Contact Training Division

Tel:(66) 2253-4736, Fax:(66) 2253-4737, Hotline:(66) 86-325-7129, E-mail: registration@acisonline.net

Network and Systems Administrators

Network and Systems Engineers

Information Security Professional

Course Outline

Module 1: Network Threats

- Understand Network Attack
 - Denial-of-service (DoS) Attacks
 - Distributed denial-of-service (DDoS) Attacks
 - Back door Attacks
 - Spoofing Attacks
 - Man-in-the-Middle Attacks
 - Replay Attacks
 - Password Guessing Attacks
- TCP/IP Attacks
 - TCP SYN or TCP ACK Flood Attack
 - TCP Sequence Number Attack
 - TCP/IP Hijacking
 - ICMP Attacks
 - Smurf Attacks
 - ICMP Tunneling
- Demo :Network Threats

Module 2: OS Hardening

- Role Supported by Server Core
- OU Design for Security Policies
- GPO Design for Security Policies
- Implementing a Security Baseline
- Local Security Policy
 - Account Policy Best Practice
 - Developing Good Auditing Policy
 - User Rights Assignment
 - Security Options
- Deploy Domain Level Security Policy using GPO

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LAB: Audit Microsoft with Penetration Testing tools

LAB: Deploy Security Policy using GPO and Microsoft Security toolkit

LAB: Hardening Windows server 2003 & XP & 2008 & 7

LAB: Audit Active Directory

Module 3: Hardening your Network with Firewall

- Firewall Placement Design
- Firewall Categorized
- Firewall Architectures
- Configuring and Managing Firewalls
- LAB: IPTables Linux Firewall
- LAB: Audit Firewall with Penetration Testing tools

Module 4: Hardening your Network with Intrusion Detection and Prevention

- Intrusion Detection Systems
- Type of IDS and IPS
- IDS Detection Methods
- IDS Response Methods
- Deployment and Implementation of and IDS and IPS
- LAB: Snort Installation

Module 5: Implement VPN and Dial-in Remote Access

- VPN Concept
- Type of VPN
- VPN Implementation in Network Infrastructure
- Implementing 2 Factor Authentication

Module 6: Hardening Routers and Switches

- Introduction Switch and Router threats
- Hardening Management Access
- Hardening Service and Features
- Hardening Router and Switch
- LAB: Hardening Cisco Router and Switch
- LAB: Audit Switch and Router with Penetration Testing tools

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Module 7: Secure Network with Content Filters

- Content Filtering Architectures
- LAB :Implement Content Filtering Firewall

Module 8: Hardening Wireless LAN Connection

- Introduction Wireless LAN Threats
- Introduction Wireless Security
- Hardening Wireless LAN Technology
- LAB: Audit Wireless LAN Technology with Aircrack-ng Suite

Module 9: Implement AAA

- Explain the functions and importance of AAA
- Describe the features of TACACS+ and RADIUS AAA protocols
- Configure AAA authentication
- Configure AAA authorization
- Configure AAA accounting

Module 10: Hardening your Network with Network management

- Management Information Base (MIB)
- SNMP Security
- SNMPv1 ,SNMPv2 and SNMPv3 Interoperability
- Structure of Management Information
- LAB : Install SNMP Agents
- Performance Base Monitoring
 - Cacti
 - Orion (Solarwinds) Network Performance Monitoring
 - MRTG ,PRTG
- Availability Base Monitoring
 - Nagios
 - Zenoss
- Network flow Monitoring
 - netFLOW
 - ntop
- LAB : Implement Cacti

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LAB : Management Cacti

DEMO : SNMP Management tool Solarwinds

Module 11: Implementing a Secure Perimeter

- DMZ Implementation and Design
- Internet Access Module
- WAN Access Module
- Extranet Access Module
- Wireless Access Module
- E-commerce Access Module
 - Web Application Threats
 - Web Application Security

Official Training Partner



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