Course Introduction

Now a day the Organization drive business with Information Technology (IT) also Information Security is concerned for most organization, Component of Technical Information Security are Network, System, Application it's network infrastructure that need to be secured.

The Information Security is on top of Information Technology (IT) but most IT Peoples does not know cover Information Technology (IT) skills, that will be problem to understand Information Security Concept and Technical Hands-on.

This Course will look at basic skill of Information Technology (IT) technical skill such as Networking Skill, System Skill, Application Skill and overview Information Security concept to be base knowledge of Technical Information Security, Penetration Testing and Digital Forensics.

Course Objectives

- To Understand Information Technology (IT) Basic Knowledge for Information Security
- To Understand Overall of Networking Skill (Switching, Routing, etc.)
- To Understand Overall of System Skill (Windows, Linux)
- To Hands-on System Administration Skill
- To Understand Technical Basic of Information Security.

Learning Level

- Fundamental

Course Duration

- 5 Days

Target Group

- System engineer
- Network engineer

Course Outline

Module 1: Network Administration Fundamentals

- Basic TCP/IP
- Basic IPv4 and IPv6
- Network Protocol

For More Information & Registration, Please Contact Training Division
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ITT - Information Technology and Security for Technical: Course Outline

Network Protocols: SLIP; PPP; ARP; RARP; IGMP; ICMP; SNMP, HTTP

TCP, UDP: Attacks and Countermeasures

FTP, TFTP, TELNET, SMTP: Vulnerabilities

Network Devices Administration

- Configuring Cisco Switch Feature
- Configuring Cisco Router Feature

TCP/IP Analysis

- TCP/IP Analysis Tools
- Basic using Protocol Analyzer (TCPDump, WinDump, Wireshark) Tools

Network Security Concept

- Network Security Threats
- Need for Network Security
- Network Monitoring Concept

Module 2: Microsoft Windows Configuration Fundamentals

- Using and Creating Microsoft Management Consoles
- Terminal Services and Remote Desktop Configuration
- Using Event Viewer and Task Manager
- Managing Groups, User and Computer Account
- NTFS File System Permissions
- Active Directory

Module 3: Linux/Unix Configuration Fundamentals

- System Startup and Shutdown
- Understanding the boot sequence
- The Grand Unified Bootloader

GRUB Configuration File

The init process

The sysvinit startup

Linux Directory Layout

Linux Filesystems

Understanding Linux Processes

Linux User and Group Account Management

Linux Networking

Linux Basic Command line

Module 4: Firewalls

- What is Firewall
- Type of Firewall
- Firewall Features
- What is DMZ
- Packet Filtering and Stateful Inspection Firewall
- Configuring Firewall (Software Firewall & IPTables)

Module 5: Intrusion Detection System & Intrusion Prevention System

- What is IDS & IPS
- Type of IDS & IPS
- Host-Based and Network-Based
- IDS Detection Methods; Types of Signatures
- IDS & IPS Tools
  - Snort IDS
  - Bro IDS
  - Sguil
  - OSSEC

Module 6: Wireless LAN Security Fundamentals

- Wireless Concepts
- 802.11 Types
- Core Issues with 802.11
- Other Types of Wireless

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Channels

Access Point

Wireless LAN Security

Module 7: Web Application Security Fundamentals

- The Evolution of Web Applications
- Web Application Technologies
  - HTTP Protocol
  - HTTP Headers
  - HTTP Method
  - URL
- Web Server Technologies
- Client Side Function
- Server Side Function
- Introduction Web Application Threats

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