

CURSO DE HACKING ETICO

En este curso el participante comprenderá la metodología del etical hacking y penetration testing.

Dirigido :

Este curso esta dirigido a administradores de red, administradores de seguridad, y a todas las personas que estén interesadas en el etical hacking y penetration testing.

Requerimientos:

Conocimientos de TCP/IP, Windows, Linux (básico)

Material del curso:

- 1 Carpeta
- CD con herramientas
- CD con información adicional
- Material impreso con el desarrollo del curso

Nota: Los Módulos 19, 20, 21, 22 son tentativos

Contenido del curso :

Module 1: Introduction to Ethical Hacking

- Why Security?
- The Security, functionality and ease of use Triangle
- Can Hacking be Ethical?
- Essential Terminology.
- Elements of Security.
- What does a Malicious Hacker do?
- Difference between Penetration Testing and Ethical Hacking.
- Hacker Classes.
- What do Ethical Hackers do?
- Skill Profile of an Ethical Hacker.
- Modes of Ethical Hacking.
- Security Testing.
- Deliverables.
- Computer Crimes and Implications.
- Legal Perspective (US Federal Law).

Module 2: Footprinting

- Defining Footprinting.
- Information Gathering Methodology.
- Locate the Network Range.
- Hacking Tools:
 - Whois
 - Nslookup
 - ARIN
 - Traceroute

- NeoTrace
- VisualRoute Trace
- SmartWhois
- Visual Lookout
- VisualRoute Mail Tracker
- eMailTrackerPro
- e-mail Spider
- Wayback machine

Module 3: Scanning

- Definition of Scanning.
- Types of scanning
- Objectives of Scanning
- Scanning Methodology
- Classification of Scanning
- Hacking Tools
 - Nmap
 - Nessus
 - Retina
 - Saint
 - HPing2
 - Firewalk
 - NIKTO
 - GFI Languard
 - ISS Security Scanner
 - Netcraft
 - IPsec Scan
 - NetScan Tools pro 2003
 - Super Scan
 - Floppyscan
- War Dialer
- Hacking Tools
 - THC Scan
 - Friendly Pinger
 - Cheops
 - Security Administrator's Tool for Analyzing Network (SATAN)
 - SAFEsuite Internet Scanner
 - IdentTCPScan
 - PortScan Plus
 - Strobe
 - Blaster Scan
- OS Fingerprinting
- Active Stack fingerprinting
- Tool for Active Stack fingerprinting
 - XPROBE2
- Passive Fingerprinting
- Proxy Servers
- Hacking Tools
 - Socks Chain
 - Anonymizers
 - HTTP Tunnel
 - HTTPort

- Countermeasures

Module 4: Enumeration

- What is Enumeration?
- NetBios Null Sessions
- Hacking Tools
 - DumpSec
 - Winfo
 - NetBIOS Auditing Tool (NAT)
- Null Session Countermeasures
- NetBIOS Enumeration
- Hacking Tool :NBTScan
- Simple Network Management Protocol (SNMP)
Enumeration
- Hacking Tools
 - Solarwinds
 - Enum
 - SNScan
- SNMP Enumeration Countermeasures
- Management Information Base (MIB)
- Windows 2000 DNS Zone Transfer
- Blocking Win 2k DNS Zone Transfer
- Enumerating User Accounts
- Hacking Tools
 - User2sid and Sid2user
 - UserInfo
 - GetAcct
 - DumpReg
 - Trout
 - Winfingerprint
 - PsTools
(PSFile,PSLoggedOn,PSGetSid,PSInfo,PSService,P
SList,PSKill, PSSuspend, PSLogList, PSExec, PSShutdown)
- Active Directory Enumeration and Countermeasures

Module 5: System Hacking

- Administrator Password Guessing
- Manual Password Cracking Algorithm
- Automated Password Cracking
- Password Types
- Types of Password Attacks
- Hacking Tool
 - NTInfoScan (CIS)
- Performing Automated Password Guessing
- Hacking Tool
- Legion
- Password Sniffing
- Hacking Tools
 - LOphtrcrack
 - pwdump2 and pwdump3
 - KerbCrack
 - NBTdeputy

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- NetBIOS DoS Attack
 - Hacking Tools
 - NBName
 - John the Ripper
 - LAN Manager Hash
 - Password Cracking Countermeasures
 - Syskey Utility
 - Cracking NT/2000 Passwords
 - Hacking Tool
 - NTFSDOS
 - SMB Logon
 - Hacking Tool: SMBRelay
 - SMBRelay Man-in-the-Middle Scenario
 - Hacking Tool : SMBRelay2
 - SMBRelay Weaknesses and Countermeasures
 - Hacking Tools
 - SMBGrind
 - SMBDie
 - Privilege Escalation
 - Hacking Tools
 - GetAdmin
 - hk.exe
 - Keystroke Loggers
 - Hacking Tools
 - IKS Software Keylogger
 - Ghost Keylogger
 - Hardware Key Logger
 - Spyware Spector
 - eBlaster
 - Hiding Files
 - Creating Alternate Data Streams
 - ADS creation and detection
 - Hacking Tools
 - Makestream
 - ads_cat
 - Streams
 - LADS (List Alternate Data Streams)
 - NTFS Streams Countermeasures
 - Stealing Files Using Word Documents
 - Field Code Countermeasures
 - Steganography
 - Spyware Tool - Desktop Spy
 - Hacking Tools
 - Steganography tools
 - DiSi-Steganograph
 - EZStego
 - Gif-It-Up v1.0
 - Gifshuffle
 - Hide and Seek
 - JPEG-JSTEG
 - MandelSteg and GIFExtract
 - Mp3Stego
 - Nicetext
 - Pretty Good Envelope

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- OutGuess
 - SecurEngine
 - Stealth
 - Snow
 - Steganography Tools 4
 - Steganos
 - Steghide
 - Stegodos
 - Stegonosaurus
 - StegonoWav
 - wbStego
 - o Image Hide
 - o MP3Stego
 - o StegonoWav
 - o Snow.exe
 - o Camera/Shy
 - Steganography Detection
 - Hacking Tool
 - diskprobe.exe
 - Covering Tracks
 - Disabling Auditing and clearing Event Logs
 - Hacking Tool
 - o Dump Event Log
 - o elsave.exe
 - o WinZapper
 - o Evidence Eliminator
 - RootKit
 - Planting the NT/2000 RootKit
 - Hacking Tools
 - o Fu
 - o Vanquish
 - Rootkit Countermeasures
 - Hacking Tool
 - o Patchfinder 2.0

Module 6: Trojans and Backdoors

- Effect on Business
- What is a Trojan?
- Overt and Covert Channels
- Working of Trojans
- Different Types of Trojans
- What Trojan Creators look for?
- Different ways a Trojan can get into a system
- Indications of a Trojan Attack
- Some famous Trojans and ports used by them
- How to determine which ports are “Listening”?
- Different Trojans found in the Wild
 - o Beast 2.06
 - o Phatbot
 - o Senna Spy
 - o CyberSpy
 - o Remote Encrypted Callback UNIX Backdoor (RECUB)
 - o Amittis

- QAZ
- Back Orifice
- Back Orifice 2000
- Tini
- NetBus
- SubSeven
- Netcat
- Subroot
- Let me Rule 2.0 Beta 9
- Donald Dick
- Graffiti.exe
- EliteWrap
- IconPlus
- Restorator
- Whack-a-mole
- Firekiller 2000
- BoSniffer
- Wrappers
- Packaging Tool : Wordpad
- Hard Disk Killer (HDKP 4.0)
- ICMP Tunneling
- Hacking Tool: Loki
- Loki Countermeasures
- Reverse WWW Shell – Covert Channels using HTTP
- Hacking Tools
 - fPort
 - TCP View
- Tripwire
- Process Viewer
- Inzider-Tracks Processes and Ports
- System File Verification
- Trojan horse Construction Kit
- Anti-Trojan
- Evading Anti-Trojan/Anti-Virus using Stealth Tools v 2.0
- Reverse Engineering Trojans
- Backdoor Countermeasures

Module 7: Sniffers

- Definition of sniffing
- How a Sniffer works?
- Passive Sniffing
- Active Sniffing
- Hacking Tool: EtherFlood
- Man-in-the-Middle Attacks
- Spoofing and Sniffing Attacks
- ARP Poisoning and countermeasures
- Hacking Tools
 - Ethereal
 - Dsniff
 - Sniffit
 - Aldebaran
 - Hunt

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- NGSSniff
 - Ntop
 - pf
 - IPTraf
 - Etherape
 - Netfilter
 - Network Probe
 - Maa Tec Network Analyzer
 - Snort
 - Macof, MailSnarf, URLSnarf, WebSpy
 - Windump
 - Etherpeek
 - Ettercap
 - SMAC
 - Mac Changer
 - Iris
 - NetIntercept
 - WinDNSSpoof
 - NetIntercept
 - Win DNSpoof
 - TCPDump
 - Network Monitor
 - Gobbler
 - ETHLOAD
 - Esniff
 - Sunsniff
 - Linux_sniffer
 - Sniffer Pro
 - Countermeasures

Module 8: Denial of Service

- What is Denial of Service?
- Goal of DoS(Denial of Service)
- Impact and Modes of Attack
- DoS Attack Classification
 - Smurf
 - Buffer Overflow Attacks
 - Ping Of death
 - Teardrop
 - SYN
 - Tribal Flow Attack
- Hacking Tools
 - Jolt2
 - Bubonic.c
 - Land and LaTierra
 - Targa
- Distributed DOS Attacks and Characteristics
- Agent Handler Model
- IRC-Based DDoS Attack Model
- DDoS Attack taxonomy
- DDoS Tools
 - Trinoo
 - Tribe Flow Network (TFN)

- TFN2K
- Stacheldraht
- Shaft
- Trinity
- Knight
- Mstream
- Kaiten
- Reflected DOS Attacks
- Reflection of the Exploit
- Countermeasures for Reflected DoS
- Tools for Detecting DDOS Attacks
 - ipgrep
 - tcpdstat
 - findoffer
- DDoS Countermeasures
- Defensive Tool: Zombie Zapper
- Worms: Slammer and MyDoom.B

Module 9: Social Engineering

- What is Social Engineering?
- Art of Manipulation
- Human Weakness
- Common Types of Social Engineering
- Human Based Impersonation
- Example of social engineering
- Computer Based Social Engineering
- Reverse Social Engineering
- Policies and procedures
- Security Policies-checklist

Module10: Session Hijacking

- Understanding Session Hijacking
- Spoofing vs Hijacking
- Steps in Session Hijacking
- Types of Session Hijacking
- TCP Concepts 3 Way Handshake
- Sequence numbers
- Hacking Tools
 - Juggernaut
 - T-Sight
 - TTY Watcher
 - IP Watcher
 - Hunt
 - Paros v3.1.1
 - TTY-Watcher
 - IP Watcher
 - T-sight
 - Remote TCP Session Reset Utility
- Dangers Posed by Session Hijacking
- Protection against Session Hijacking
- Countermeasures: IP Security

Module 11: Hacking Web Servers

- How Web Servers Work?
- How are Web Servers Compromised?
- Popular Web Servers and Common Security Threats
- Apache Vulnerability
- Attack against IIS
- IIS Components
- Sample Buffer Overflow Vulnerabilities
- Hacking Tool: IISHack.exe
- ISAPI.DLL Exploit
- Code Red and ISAPI.DLL Exploit
- Unicode
- Unicode Directory Traversal Vulnerability
- Hacking Tools
 - Unicodeuploader.pl
 - IISxploit.exe
 - execiis-win32.exe
- Msw 3prt IPP Vulnerability
- Hacking Tool: Jill.c
- IPP Buffer Overflow Countermeasures
- Unspecified Executed Path Vulnerability
- File System Traversal Countermeasures
- WebDAV/ ntdll.dll Vulnerability
- Real World instance of WebDAV Exploit
- Hacking Tool: “KaHT”
- RPCDCOM Vulnerability
- ASN Exploits
- IIS Logs
- Network Tool: Log Analyzer
- Hacking Tool: Clean IISLog
- Escalating Privileges on IIS
- Hacking Tools
 - hk.exe
 - cmdasp.asp
 - iisrack.dll
 - ispc.exe
 - Microsoft IIS 5.0 - 5.1 remote denial of service Exploit Tool
 - Microsoft Frontpage Server Extensions fp3oreg.dll ExploitTool
 - GDI+ JPEG Remote Exploit Tool
 - Windows Task Scheduler Exploit Tool
 - Microsoft Windows POSIX Subsystem Local Privilege Escalation Exploit Tool
- Hot Fixes and Patches
- Solution: UpdateEXPERT
- cacls.exe Utility
- Vulnerability Scanners
- Network Tools
 - Whisker
 - N-Stealth
 - Webinspect
 - Shadow Security Scanner
- Countermeasures
- Increasing Web Server Security

Module 12: Web Application Vulnerabilities

- Web Application Set-up
- Web Application Hacking
- Anatomy of an Attack
- Web Application Threats
- Cross Site Scripting/XSS Flaws
- An Example of XSS
- Countermeasures
- SQL Injection
- Command Injection Flaws
- Countermeasures
- Cookie/Session Poisoning
- Countermeasures
- Parameter/Form Tampering
- Buffer Overflow
- Countermeasures
- Directory Traversal/Forceful Browsing
- Countermeasures
- Cryptographic Interception
- Authentication Hijacking
- Countermeasures
- Log Tampering
- Error Message Interception
- Attack Obfuscation
- Platform Exploits
- Internet Explorer Exploits
- DMZ Protocol Attacks
- DMZ
- Countermeasures
- Security Management Exploits
- Web Services Attacks
- Zero Day Attacks
- Network Access Attacks
- TCP Fragmentation
- Hacking Tools:
 - Instant Source
 - Wget
 - WebSleuth
 - Black Widow
 - Window Bomb
- Burp: Positioning Payloads
- Burp: Configuring Payloads and Content Enumeration
- Burp
- Burp Proxy: Intercepting HTTP/S Traffic
- Burp Proxy: Hex-editing of Intercepted Traffic
- Burp Proxy: Browser Access to Request History
- Hacking Tool: cURL
- Carnivore
- Google Hacking

Module 13: Web Based Password Cracking Techniques

- Authentication- Definition
- Authentication Mechanisms
- HTTP Authentication
- Basic Authentication
- Digest Authentication
- Integrated Windows (NTLM) Authentication
- Negotiate Authentication
- Certificate-based Authentication
- Forms-based Authentication
- Microsoft Passport Authentication
- What is a Password Cracker?
- Modus Operandi of an Attacker using Password Cracker
- How does a Password Cracker work?
- Attacks- Classification
- Password Guessing
- Query String
- Cookies
- Dictionary Maker
- Password Crackers Available
 - LOphtrcrack
 - John The Ripper
 - Brutus
 - Obiwan
 - Authforce
 - Hydra
 - Cain and Abel
 - RAR
 - Gammaprog
- Hacking Tools:
 - WebCracker
 - Munga Bunga
 - PassList
 - Read Cookies
 - SnadBoy
 - WinSSLMiM
- “Mary had a Little Lamb” Formula
- Countermeasures

Module 14: SQL Injection

- Attacking SQL Servers
- SQL Server Resolution Service (SSRS)
- Osql-L Probing
- Port Scanning
- Sniffing, Brute Forcing and finding Application Configuration Files
- Tools for SQL Server Penetration Testing
 - SQLDiet
 - SqlExec
 - SQLbf
 - SQLSmack
 - SQL2.exe
- AppDetective

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- Database Scanner
 - SQLPoke
 - NGSSQLCrack
 - NGSSQuirreL
 - SQLPing v2.2
 - OLE DB Errors
 - Input Validation Attack
 - Login Guessing & Insertion
 - Shutting Down SQL Server
 - Extended Stored Procedures
 - SQL Server Talks
 - Preventive Measures

Module 15: Hacking Wireless Networks

- Introduction to Wireless Networking
- Business and Wireless Attacks
- Basics
- Components of Wireless Network
- Types of Wireless Network
- Setting up WLAN
- Detecting a Wireless Network
- How to access a WLAN
- Advantages and Disadvantages of Wireless Network
- Antennas
- SSIDs
- Access Point Positioning
- Rogue Access Points
- Tools to Generate Rogue Access Points
 - Fake AP
 - NetStumbler
 - MiniStumbler
- What is Wireless Equivalent Privacy (WEP)?
- WEP Tool:
 - AirSnort
 - WEPCrack
- Related Technology and Carrier Networks
- MAC Sniffing and AP Spoofing
- Tool to detect MAC Address Spoofing: Wellenreiter v2
- Terminology
- Denial of Service Attacks
- DoS Attack Tool: FATAjack
- Man-in-the-Middle Attack (MITM)
- Scanning Tools:
 - Redfang
 - Kismet
 - THC- WarDrive v2.1
 - PrismStumbler
 - MacStumbler
 - Mognet v1.16
 - WaveStumbler
 - StumbVerter v1.5
 - NetChaser v1.0 for Palm tops
- AP Scanner

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- Wavemon
 - Wireless Security Auditor (WSA)
 - AirTraf 1.0
 - Wifi Finder
 - Sniffing Tools:
 - AiroPeek
 - NAI Sniffer Wireless
 - Ethereal
 - Aerosol v0.65
 - vxSniffer
 - EtherPEG
 - Drifnet
 - AirMagnet
 - WinDump 3.8 Alpha
 - ssidsniff
 - Multi Use Tool: THC-RUT
 - Tool: WinPcap
 - Auditing Tool: BSD-Airtools
 - WIDZ- Wireless Detection Intrusion System
 - Securing Wireless Networks
 - Out of the box Security
 - Radius: Used as Additional layer in security
 - Maximum Security: Add VPN to Wireless LAN

Module 16 : Virus

- Virus Characteristics
- Symptoms of 'virus-like' attack
- What is a Virus Hoax?
- Terminologies
- How is a worm different from virus?
- Indications of a Virus Attack
- Virus History
- Virus damage
- Effect of Virus on Business
- Access Methods of a Virus
- Mode of Virus Infection
- Life Cycle of a virus
- What Virus Infect?
- How virus infect?
- Virus/worm found in the wild:
 - W32.CIH.Spacefiller (a.k.a Chernobyl)
 - Win32/Explore.Zip Virus
 - I Love You Virus
 - Melissa Virus
 - Pretty Park
 - Code red Worm
 - W32/Klez
 - Bug Bear
 - SirCam Worm
 - Nimda
 - SQL Slammer
- Writing a simple virus program.
- Writing DDOS Zombie Virus

- Virus Construction Kits
- Virus Creation Scripts
- Virus Detection Methods
- Virus Incident Response
- What is Sheep Dip?
- Prevention is better than Cure
- Anti-Virus Software
- Popular Anti-Virus packages
- New Virus found in 2004
- Virus Checkers
- Blaster – Virus Analysis
- Nimda – Virus Analysis
- Sasser Worm – Virus Analysis
- Klez – Virus Analysis
- IDAPro
- Virus Analyzers

Module 17: Physical Security

- Security statistics
- Physical Security breach incidents
- Understanding Physical Security
- What is the need of Physical Security?
- Who is Accountable for Physical Security?
- Factors affecting Physical Security
- Physical Security checklist
 - Company surroundings
 - Premises
 - Reception
 - Server
 - Workstation Area
 - Wireless Access Points
 - Other Equipments such as fax, removable media etc
 - Access Control
 - Computer Equipment Maintenance
 - Wiretapping
 - Remote access
- Lock Picking Techniques
- Spying Technologies

Module 18: Linux Hacking

- Why Linux?
- Linux basics
- Chrooting
- Why is Linux Hacked?
- Linux Vulnerabilities in 2003
- How to apply patches to vulnerable programs
- Scanning Networks
- Scanning Tool: Nessus
- Cheops
- Port Scan detection tools:
 - Klaxon
 - Scanlogd

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- PortSentry
 - LIDS (Linux Intrusion Detection System)
 - Password cracking in Linux.
 - Password cracking tools:
 - John the Ripper
 - Viper
 - Slurpie
 - IPChains
 - IPTables
 - ipchains vs. ipfwadm
 - How to Organize Firewall Rules
 - Security Auditor's Research Assistant (SARA)
 - Hacking Tool:
 - Sniffit
 - HPing2
 - Hunt
 - TCP Wrappers
 - Linux Loadable Kernel Modules
 - Linux Rootkits:
 - Knark
 - Torn
 - Tuxit
 - Adore
 - Ramen
 - Beast
 - Rootkit countermeasures:
 - Chkrootki
 - Tripwire
 - Bastille Linux
 - LIDS(Linux Intrusion Detection system)
 - Dtk
 - Rkdet
 - Rootkit Hunter
 - Carbonite
 - Rscan
 - Saint Jude
 - Linux Security Tools:
 - Whisker
 - Flawfinder
 - Advanced Intrusion Detection System (AIDE)
 - Linux Security testing tools
 - NMap
 - LSOF
 - Netcat
 - Nemesis
 - Linux Encryption Tools:
 - Stunnel
 - OpenSSH/SSH
 - SSH
 - GnuPG

 - Linux tools: Log and traffic monitors:
 - MRTG
 - Swatch

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- Timbersee
 - Logsurf
 - IPLog
 - IPTraf
 - Ntop
 - Linux Security Auditing Tool (LSAT)
 - Linux Security countermeasures

Module 19: Evading Firewalls, IDS and Honeypots

- Intrusion Detection Systems
- Ways to Detect Intrusion
- Types of Intrusion Detection System
- Intrusion Detection Tools
 - Snort 2.1.0
 - Symantec ManHunt
 - LogIDS 1.0
 - SnoopNetCop Standard
 - Prelude Hybrid IDS version 0.8.x
 - Samhain
- Steps to perform after an IDS detects an intrusion
- Evading IDS systems
- Tools to Evade IDS
 - SideStep
 - ADMutate
 - Mendax v.0.7.1
 - Stick
 - Fragrouter
 - Anzen NIDSbench
- Packet Generators
- Introduction to Firewalls
- Firewall Identification
- Firewalking
- Banner Grabbing
- Breaching Firewalls
- Placing Backdoors through Firewalls
- Hiding Behind Covert Channel: Loki
- ACK tunneling
- Tools to Breach Firewall
 - 007 Shell
 - ICMP Shell
 - AckCmd
 - Covert TCP1.0
- Tools for testing IDS and Firewalls
- Introduction to Honeypots
- Honeypot Project
- Types of Honeypots
- Honeypot: Specter
- Honeypot: Honeyd
- Honeypot: KFSensor

- Hacking Tool: Sebek
- Tools to Detect Honeypot
 - Send-Safe Honeypot Hunter
 - Nessus Security Scanner

Module 20 : Buffer Overflows

- Significance of Buffer Overflow Vulnerability
- Why are Programs/Applications Vulnerable?
- Buffer Overflows
- Reasons for Buffer Overflow Attacks
- Knowledge required writing Buffer Overflow Exploits
- How a Buffer Overflow occurs?
- Understanding Stacks
- Stack Implementation
- Stack based buffer overflow
- Shellcode
- Heap Based buffer overflow
- How to detect Buffer Overflows in a Program?
- Attacking a real program
- NOPS
- How to mutate a Buffer Overflow Exploit? Featuring ADMutate
- Countermeasures
- Return Address Defender (RAD)
- StackGuard
- Immunix System
- Vulnerability Search – ICAT

Module 21 : Cryptography

- Public-key Cryptography
- Working of Encryption
- Digital Signature
- Digital Certificate
- RSA (Rivest Shamir Adleman)
- RSA Attacks
 - Brute forcing RSA factoring
 - Esoteric attack
 - Chosen cipher text attack
 - Low encryption exponent attack
 - Error analysis
 - Other attacks
- MD5
- SHA (Secure Hash Algorithm)
- SSL (Secure Socket Layer)
- RC5
- What is SSH?
- Government Access to Keys (GAK)
- RSA Challenge
- distributed.net
- PGP (Pretty Good Privacy)
- Code Breaking Methodologies
 - Using Brute Force
 - Frequency Analysis
- Trickery and Deceit
- One-Time Pad
- Cryptography Attacks
- Disk Encryption

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- PGPCrack
 - Magic Lantern
 - WEPCrack
 - Cracking S/MIME Encryption using idle CPU Time
 - CypherCalc
 - Command Line Scriptor
 - CryptoHeaven

Module 22 : Penetration Testing

- Need for a Methodology
- Penetration Test vs. Vulnerability Test
- Reliance on Checklists and Templates
- Phases of Penetration Testing
- Passive Reconnaissance
- Best Practices
- Results that can be expected
- Indicative passive reconnaissance steps include (but are not limited to)
- Introduction to Penetration Testing
- Type of Penetration Testing Methodologies
- Open Source Vs Proprietary Methodologies
- Security Assessment Vs Security Auditing
- Risk Analysis
- Types of Penetration Testing
- Types Ethical Hacking
- Vulnerability Assessment Vs Penetration Testing
- Do-it Yourself Testing
- Firms Offering Penetration Testing Services
- Penetration Testing Insurance
- Explication of Terms of Engagement
- Pen-Test Service Level Agreements
- Offer of Compensation
- Starting Point and Ending Points of Testing
- Penetration Testing Locations
- Black Box Testing
- White Box Testing
- Grey Box Testing
- Manual Penetration Testing
- Automated Penetration Testing
- Selecting the Right Tools
- Pen Test Using Appscan
- HackerShield
- Pen-Test Using Cerberus Internet Scanner
- Pen-Test Using CyberCop Scanner
- Pen-Test Using Foundscan
- Pen-Test Using Nessus
- Pen-Test Using NetRecon
- Pen-Test Using Retina
- Pen-Test Using SAINT

- Pen-Test Using SecureNET

- Pen-Test Using SecureScan
- Pen-Test Using SATAN, SARA and Security Analyzer

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- Pen-Test Using STAT Analyzer
 - Pen-Test Using Twwsan
 - VigilEnt
 - WebInspect
 - Evaluating Different Types of Pen-Test Tools
 - Platform on Which Tools Will be Used
 - Asset Audit
 - Fault Tree and Attack Trees
 - GAP Analysis
 - Device Inventory
 - Perimeter Firewall Inventory
 - Web Server Inventory
 - Load Balancer Inventory
 - Local Area Network Inventory
 - Demilitarized Zone Firewall
 - Internal Switch Network Sniffer
 - Application Server Inventory
 - Database Server Inventory
 - Name Controller and Domain Name Server
 - Physical Security
 - ISP Routers
 - Legitimate Network Traffic Threat
 - Unauthorized Network Traffic Threat
 - Unauthorized Running Process Threat
 - Loss of Confidential Information
 - Business Impact of Threat
 - Pre-testing Dependencies
 - Post-testing Dependencies
 - Failure Management
 - Test Documentation Processes
 - Penetration Testing Tools
 - Defect Tracking Tools
 - Configuration Management Tools
 - Disk Replication Tools
 - Pen-Test Project Scheduling Tools
 - Network Auditing Tools
 - DNS Zone Transfer Testing Tools
 - Trace Route Tools and Services
 - Network Sniffing Tools
 - Denial of Service Emulation Tools
 - Traditional Load Testing Tools
 - System Software Assessment Tools
 - Operating System Protection Tools
 - Fingerprinting Tools
 - Port Scanning Tools
 - Directory and File Access Control Tools
 - File Share Scanning Tools
 - Password Directories
 - Password Guessing Tools
 - Link Checking Tools
 - Web site Crawlers

 - Web-Testing based Scripting Tools
 - Buffer Overflow Protection Tools

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- Buffer Overflow Generation Tools
 - Input Data Validation Tools
 - File encryption Tools
 - Database Assessment Tools
 - Keyboard Logging and Screen Reordering Tools
 - System Event Logging and Reviewing Tools
 - Tripwire and Checksum Tools
 - Mobile-Code Scanning Tools
 - Centralized Security Monitoring Tools
 - Web Log Analysis Tools
 - Forensic Data and Collection Tools
 - Security Assessment Tools
 - Multiple OS Management Tools
 - SANS Institute TOP 20 Security Vulnerabilities
 - All Operating System Platforms
 - Default installs of operating systems and applications
 - Accounts with no passwords or weak passwords
 - Nonexistent or incomplete backups
 - Large number of open ports
 - Not filtering packets for correct incoming and outgoing addresses
 - Nonexistent or incomplete logging
 - Vulnerable Common Gateway Interface (CGI) programs
 - Windows-specific
 - Unicode vulnerability-Web server folder traversal
 - Internet server application programming interface (ISAPI) extension buffer overflows
 - IIS Remote Data Services (RDS) exploit
 - Network Basic Input Output System (NetBIOS), unprotected Windows networking shares
 - Information leakage via null session connections
 - Weak hashing in SAM (Security Accounts Manager)-LanManager hash
 - UNIX-specific
 - Buffer overflows in Remote Procedure Call (RPC) services
 - Sendmail vulnerabilities
 - Bind weaknesses
 - Remote system command (such as rcp, rlogin, and rsh) vulnerabilities
 - Line Printer Daemons (LPD) vulnerabilities
 - Sadmind and mountd exploits
 - Default Simple Network Management Protocol (SNMP) strings
 - Penetration Testing Deliverable Templates
 - Test Status Report Identifier
 - Test Variances
 - Test Comprehensive Assessment
 - Summary of Results (Incidents)
 - Test Evaluation
 - Names of Persons (Approval)
 - Template Test Incident Report
 - Template Test Log
 - Active Reconnaissance
 - Attack Phase



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- Activity: Perimeter Testing
 - Activity: Web Application Testing – I
 - Activity: Web Application Testing – II
 - Activity: Wireless Testing
 - Activity: Acquiring Target
 - Activity: Escalating Privileges
 - Activity: Execute, Implant & Retract
 - Post Attack Phase & Activities
 - Tool: CORE Impact

Duración: 36 hrs.