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LEARN EHTICAL ADVANCED HACKING **with** KALI LINUX

EHTICAL ADVANCED HACKING COURSE OUTLINE

MODULE # 1 *Introduction to Ethical Hacking*

- Information Security Overview
- Cyber kill Chain Concepts
- Hacking Concepts
- Information Security Controls
- Information Security Laws & Standards
- LAB Module#1

MODULE # 2 Footprinting and Reconnaissance

- Footprinting Concepts
- Footprinting through Search Engines
- Footprinting through Web Services
- Footprinting through Social Networking Sites
- Website Footprinting
- Email Footprinting
- Whois Footprinting
- Network Footprinting
- Footprinting Countermeasure
- LAB Module#2

MODULE # 3 Vulnerability Analysis

- Vulnerability Assessment Concepts
- Vulnerability Classification and Assessment Types
- Vulnerability Assessment Solutions and Tools
- Vulnerability Assessment Report
- LAB Module#3

MODULE # 4 Scanning Networks

- Network Scanning Concepts
- Scanning Tools
- Host Discovery
- Port and Service Discovery
- OS Discovery (Banner Grabbing/OS Fingerprinting)
- Scanning Beyond IDS and Firewall
- Draw Network Diagrams
- LAB Module#4

MODULE # 5 System Hacking

- System Hacking Concepts
- Gaining Access
- Escalating Privileges
- Maintaining Access
- Clearing Logs
- LAB Module#5

MODULE # 6 Malware Threats

- Malware Concepts
- APT Concepts
- Viruses and Worms
- Trojan Concepts
- Virus and Worm Concepts
- Fileless Malware Concepts
- Malware Analysis
- Countermeasures
- Anti-Malware Software
- LAB Module#6

MODULE # 7 Sniffing

- Sniffing Concepts
- Sniffing Technique: MAC Attacks
- Sniffing Technique: DHCP Attacks
- Sniffing Technique: ARP Poisoning
- Sniffing Technique: Spoofing Attacks
- Sniffing tools
- Sniffing Detection Techniques
- Countermeasures
- LAB Module#7

MODULE # 8 Social Engineering

- Social Engineering Concepts
- SocialEngineering Techniques
- Insider Threats
- Impersonation on Social Networking Sites
- Identity Theft
- Countermeasures
- LAB Module#8

MODULE # 9 Denial of Service

- DoS/DDoS Concepts
- DoS/DDoS Attack Techniques
- Botnets
- DDoS Case Study
- DoS/DDoS Attack Tools
- Countermeasures
- DoS/DDoS Protection Tools
- LAB Module#9

MODULE # 10 Session Hijacking

- Session Hijacking Concepts
- Application Level Session Hijacking
- Network Level Session Hijacking
- Session Hijacking Tools
- Countermeasures
- LAB Module#10

MODULE # 11 Cryptography

- Cryptography Concepts
- Encryption Algorithms
- Cryptography Tools
- Public Key Infrastructure(PKI)
- Email Encryption
- Disk Encryption
- Countermeasures
- LAB Module#11

MODULE # 12 Hacking Web Applications

- Web Application Concepts
- Web Application Threats
- Web Application Hacking Methodology
- Web API, Webhooks, and Web Shell
- Web Application Security
- LAB Module#12

MODULE # 13 SQL Injection

- SQL Injection Concepts
- Types of SQL Injection
- SQL Injection Methodology
- SQL Injection Tools
- Evasion Techniques
- Countermeasures
- LAB Module#13

MODULE # 14 Hacking Wireless Networks

- SQL Injection Concepts
- Types of SQL Injection
- SQL Injection Methodology
- SQL Injection Tools
- Evasion Techniques
- Countermeasures
- LAB Module#13

MODULE # 14 Hacking Wireless Networks

- Wireless Concepts
- Wireless Encryption
- Wireless Threats
- Wireless Hacking Methodology
- Wireless Hacking Tools
- Bluetooth Hacking
- Countermeasures
- Wireless Security Tools
- LAB Module#14

MODULE # 15 Evading IDS, Firewalls, and Honeypots

- IDS,IPS,Firewall,and Honeypot Concepts
- IDS,IPS,Firewall,and Honeypot Solutions Evading IDS
- Evading Firewalls
- IDS/Firewall Evading Tools
- Detecting Honeypots
- Countermeasure
- LAB Module#15

MODULE # 16 IOT & OT Hacking

- IoT Concepts
- IoT Attacks
- IoT Hacking Methodology
- IoT Hacking Tools
- Countermeasures
- OT Concepts
- OT Attacks
- OT Hacking Methodology
- OT Hacking Tools
- Countermeasures
- LAB Module#16

MODULE # 17 Hacking Mobile Platforms

- Mobile Platform Attack Vectors
- Hacking Android OS
- Hacking iOS
- Mobile Device Management
- Mobile Security Guidelines and Tools
- LAB Module#17