

Ethical Hacking & Cyber Security

Intro to Ethical Hacking	Information Security Overview Information Security Threats and Attack Vectors Hacking Concepts Ethical Hacking Concepts Information Security Controls Penetration Testing Concepts Information Security Laws and Standards
Footprinting and Reconnaissance	Footprinting Concepts Footprinting through Search Engines Footprinting through Web Services Footprinting through Social Networking Sites Website, Email, DNS, Network, Whois Footprinting Footprinting through Social Engineering Footprinting Tools Footprinting Countermeasures Footprinting Pen Testing
Scanning Networks	Network Scanning Concepts Scanning Tools & Techniques Scanning Beyond IDS and Firewall Banner Grabbing Draw Network Diagrams Scanning Pen Testing
Enumeration	Enumeration Concepts NetBIOS Enumeration SNMP, LDAP, NTP Enumeration DNS Enumeration Other Enumeration Techniques Enumeration Countermeasures Enumeration Pen Testing
Vulnerability Analysis	Vulnerability Assessment Concepts & Solutions Vulnerability Scoring Systems Vulnerability Assessment Tools & Reports
System Hacking	System Hacking Concepts Cracking Passwords Escalating Privileges Executing Applications Hiding Files Covering Tracks Penetration Testing

Malware Threats	Malware & Trojan Concepts Virus and Worm Concepts Malware Analysis Anti-Malware Software Malware Penetration Testing
Sniffing	Sniffing Concepts Sniffing Technique: MAC & DHCP Attacks Sniffing Technique: ARP & DNS Poisoning Sniffing Technique: Spoofing Attacks Sniffing Tools Countermeasures Sniffing Detection Techniques Sniffing Pen Testing
Social Engineering	Social Engineering Concepts & Techniques Insider Threats Impersonation on Social Networking Sites Identity Theft Countermeasures Social Engineering Pen Testing
Denial-of-Service	DoS/DDoS Concepts & Techniques Botnets DoS/DDoS Attack Tools Countermeasures DoS/DDoS Protection Tools & Penetration Testing
Session Hijacking	Session Hijacking Concepts Application Level & Network Level Session Hijacking Session Hijacking Tools Countermeasures Penetration Testing
Evading IDS, Firewalls, and Honeypots	IDS, Firewall and Honeypot Concepts & Solutions Evading IDS & Firewalls Detecting Honeypots IDS/Firewall Evasion Countermeasures Penetration Testing
Hacking Web Servers	Web Server Concepts Web Server Attack Methodology & Tools Patch Management Web Server Security Tools Web Server Pen Testing

Hacking Web Applications	<ul style="list-style-type: none"> Web App Concepts Web App Threats Hacking Methodology Web App Hacking Tools Countermeasures Web App Security Testing Tools Web App Pen Testings
SQL Injection	<ul style="list-style-type: none"> SQL Injection Concepts Types of SQL Injection SQL Injection Methodology SQL Injection Tools Evasion Techniques Countermeasures
Hacking Wireless Networks	<ul style="list-style-type: none"> Wireless Concepts Wireless Encryption Wireless Threats Wireless Hacking Methodology Wireless Hacking Tools Bluetooth Hacking Countermeasures Wireless Security Tools Wireless Pen Testing
Hacking Mobile Platforms	<ul style="list-style-type: none"> Mobile Platform Attack Vectors Hacking Android OS Hacking iOS Mobile Spyware Mobile Device Management Mobile Security Guidelines and Tools Mobile Pen Testing
Cloud Computing	<ul style="list-style-type: none"> Cloud Computing Concepts Cloud Computing Threats & Attacks Cloud Security Cloud Security Tools Cloud Penetration Testing
Cryptography	<ul style="list-style-type: none"> Cryptography Concepts Encryption Algorithms Cryptography Tools Public Key Infrastructure (PKI) Email Encryption Disk Encryption Cryptanalysis