

Ethical Hacking & Cyber Security (Summer Training 2012)



i3indya Technologies

(A unit of I THREE INFOTECH PVT LTD)

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Ethical Hacking & Cyber Security Summer Training 2012



COURSE HIGHLIGHTS

Course:	Ethical Hacking & Cyber Security
Duration:	30 Days/90 hrs (Regular Classes)
Modules:	21 Modules Covered
Fees:	₹ 10,200/- (Including Taxes)
Certification:	Participation Certificate by i3indya™ Technologies
Study Material:	Book & DVDs Free to each participant

TRAINING SYLLABUS

Ethical Hacking & Cyber Security	
Modules	Particulars
1	<p>Basics of Ethical Hacking</p> <ul style="list-style-type: none"> • What is Ethical Hacking • Types of Hacker • Famous Hacker (Live Cases) • Step of Hacking or Hackers • History of Computer Hacking • Under Ground Hacker Community • Step Of Conducting Ethical Hacking • Cyber Crime In India • Reason for Cyber Attacks • Modes of Attacks • Role of Computer Forensics • Computer Crime Laws
2	<p>Information Gathering (Foot Printing & Reconnaissance)</p> <ul style="list-style-type: none"> • What is Footprinting? • Objectives of Footprinting • Footprinting Threats • Information Gathering with Networking skills • Information Gathering using Sites and Tools • Role of Information Gathering In Hacking World • Information Gathering Methodology of Hackers • Footprinting through Google and Social Networking Sites (As Investigation Perspective) • Finding Website History & Other Information • Collecting Information By Google & Other Search Engine Etc. • Countermeasures

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3	<p>Google Database Hacking & Advanced Google Hacking</p> <ul style="list-style-type: none"> • Using Google as Hacking Tools • Mails Password Hacking By Google (Live) • Sensitive Files Stealing from Google • Google Hacks Tool • Passwords Stealing By Google Etc (Live) • Google Introduction & Features • Google Search Technique • Google Basic Operators • Google Advanced Operators • Vulnerability gold”l Identifying operating systems • Vulnerability scanning • Pentration Testing By Google • Protect your information from Google
4	<p>Operating System Hacking & Security</p> <ul style="list-style-type: none"> • Window Password Cracking • Hack Guest to Admin Account (Without Any Software) • Convert Guest To Admin • Bypass Login Password • View System Account • Reset Admin Password • Reset Syskey Password • Create Backdoor in System • Security Against Windows Hacking • Hide Data Tips, Folder Security & others Tips
5	<p>Hacking By Trojans, Backdoors & Viruses</p> <ul style="list-style-type: none"> • What Is Trojan? • Trojans Attack Cases • Types of Trojans • Binding Trojan In Different Files • How Attacker Make Undetectable Table Trojans • Different Way a Trojan Can get Into A system • Controlling System Remotely By Trojans • Analysis of Trojans/Virus • Security Issues Against Trojans Attack • Removing Trojans • Manually • Automatic
6	<p>Sniffing & Network Monitoring</p> <ul style="list-style-type: none"> • What is Sniffing? • How a Sniffer Works? • Types of Sniffing • Protocols Vulnerable to Sniffing

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	<ul style="list-style-type: none"> • MAC Flooding • What is Address Resolution Protocol (ARP) • MAC Spoofing/Duplicating • Man-in-the-Middle Attacks • ARP Poisoning Techniques • DNS Poisoning Techniques • Password Sniffing Tools • Session Capture Sniffer • Email Message Sniffer • Additional Sniffing Tools • How an Attacker Hacks the Network Using Sniffers? • How to Defend Against Sniffing? • Sniffing Prevention Techniques • How to Detect Sniffing?
7	<p>Virus, Worms & Spyware & Analyzing</p> <ul style="list-style-type: none"> • What Virus and Worm & Spyware • History of Virus and Worm • Different characteristics and types of virus • Basic symptoms of virus-like attack • Difference Between Virus and Worm & Spyware • Indications of Virus and Worm & Spyware • Basic Working and Access Methods of Virus and Worm • Various Damages Caused Virus and Worm • Life Cycle of virus • Virus and Worm & Infection • Various Virus Detection Techniques (Manually & Automatic) • Top Ten Virus of 2011 • Virus and Worm Incident Response
8	<p>Hacking Email Accounts (Advance)</p> <ul style="list-style-type: none"> • Tracking E-mails and Investigating E-mail Crime Cases • Famous Email Service Providers & Security Issues • World Famous Big Email Hacking Cases <ul style="list-style-type: none"> ○ IIT Bombay Alumni, Anil Ambani, Rahul Gandhi, Facebook CEO Mark Zuckerberg • Analysis Email Attacks (Live Demo) Manually & Automatic <ul style="list-style-type: none"> ○ Cookies Stealing (Session Hijacking) • System Cookie Hacking • Mobile Cookie Stealing • Cookie Hacking From All or Any Browsers • All Browser Cookie Hacking • Browser Tab Cookie Hacking <ul style="list-style-type: none"> ○ Advanced Phishing , Desktop Phishing ○ Email Backdoor Installing Technique ○ Email Spoofing Attack

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	<ul style="list-style-type: none"> • Analyze the Vulnerability of Email Servers (Gmail, Yahoo, Facebook, Rediffmail etc) • Analyzing Email Headers (Normal Headers, Modify Headers) • Analyzing Modify Header By Hackers • Tracking Email Sender Location (Basic & Advance Tracking) • Analyzing Fake & Real Email Accounts • Detecting the Fake Emails • Countermeasures
9	<p>Data Hiding Techniques (Steganography & Cryptography)</p> <ul style="list-style-type: none"> • What is Steganography? • History • Steganography today • Steganography tools • Data Hiding Behind (Video, Image, Exe Etc File) • Steganalysis • What is Steganalysis? • Types of analysis • Identification of Steganographic files • Steganalysis Meets Cryptanalysis • Cracking Steganography programs • Forensics/Anti-Forensics • Conclusions • Cryptography • Encryption and Decryption • Cryptographic Algorithms • RSA (Rivest Shamir Adleman) • Data Encryption Standard (DES) • RC4, RC5, RC6, Blowfish • Message Digest Functions • One-way Hash Functions • MD5 • SHA • Algorithms and Security • Digital Signature • Code Breaking: Methodologies • Cryptanalysis • Cryptography Attacks • Use Of Cryptography
10	<p>Hiding Identity</p> <ul style="list-style-type: none"> • Internet Privacy, Proxy Privacy & Email Privacy • Cookies & Examining Information • How Internet Cookies Work • How Google Stores Personal Information • (a) Web request

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	<ul style="list-style-type: none"> • (b) Internet Protocol address • (c) Browser type • (d) Browser language • (e) Date and time of request • (f) Unique cookie ID • Web Browsers Bugs • Internet Relay Chat • Anonymous Surfing • Invisible Browsing • Anonymous Browsing Toolbar, Hide My IP, Hotspot Shield • Real Time Cleaner • Anonymous Web Surfing • Internet Privacy Tools: Privacy Eraser, CookieCop, Cookie Pal, Historykill, Tracks Eraser • Protecting Search Privacy • Tips for Internet Privacy • Countermeasures
11	<p>Proxy Server & Virtual Private Network (VPN) Technology (Advance)</p> <ul style="list-style-type: none"> • Use of Proxy • Why Hacker use Proxy • How We Hide our IP Address When we Are Chatting • How we open Block website in Your College • Convert Your Machine As Proxy Server With Https Proxy • Disadvantage of Proxy • Analysing Proxy Bug • How Proxy Hack Your Passwords etc (Live Demo) • What is Better then Proxy • What Is VPN? • Why We Use VPN • Why VPN? • Advantage & Disadvantage of VPN • Free VPN • Countermeasures
12	<p>Hacking By USB & Live Devices</p> <ul style="list-style-type: none"> • Introduction USB Devices • USB Attacks • Viruses and Worms • USB Hacking Tools • Create Your USB Device As Hacking Tool • Hacking By Live USB OS Devices • Password Hacking By USB Device • Open Source Security Tool • USB Security Tools • Countermeasures

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13	<p>Denial-of-Service Attack</p> <ul style="list-style-type: none"> • What is a Denial of Service Attack? • What is Distributed Denial of Service Attacks? • Symptoms of a DoS Attack • DHCP/Dos Attack • Shutdown Network & Website By DOS Attack • Manully DOS Attack • Automatic DOS Attack • DoS Attack Techniques • DoS Attack Tools • Detection Techniques • DDoS Attack Strategies and Tools • DDoS Attack Countermeasures • DoS/DDoS Protection at ISP Level • Advanced DDoS Protection • DoS/DDoS Protection Tool
14	<p>Firewalls, Honeypots, IDS, IPS</p> <ul style="list-style-type: none"> • Types of Firewall • Firewall Identification • Intrusion Detection Tool • Types of IDS • Intrusion Prevention Tool • Types of IPS • Types of IDPS • Honeypot • WAN & LAN Honeypot Installation • How to Set Up a Honeypot? • Honeypot Tools • Detecting Honeypots • Honeypot Detecting Tool: Send-Safe Honeypot Hunter
15	<p>Social Engineering</p> <ul style="list-style-type: none"> • What is Social Engineering? • Behaviors Vulnerable to Attacks • Why is Social Engineering Effective? • Warning Signs of an Attack • Phases in a Social Engineering Attack • Impact on the Organization • Common Targets of Social Engineering • Types of Social Engineering • Common Intrusion Tactics and Strategies for Prevention • Social Engineering Through Impersonation on Social Networking Sites • Risks of Social Networking to Corporate Networks • Identity Theft Countermeasures

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16	<p>Mobile Hacking (Advance)</p> <ul style="list-style-type: none"> • GPRS Hacking • Fake Calling • Free Best Fake Calling Website • SMS Forging • Hack Your Friend Mobile • Free Online Hacking Software • Android Phone Vulnerability • Some Tricks And Tips • Countermeasures
17	<p>Credit Card Frauds, Cases & Security (Advance)</p> <ul style="list-style-type: none"> • What is Credit Card Fraud? • Credit Card Cases • Type of Credit Card • Online Credit Card Generators • Vulnerability In Credit Card • Vulnerability of Some Payment Gateway • Big Credit Card Fraud Website on Internet • Detection of Credit Card Fraud • Security Against Credit Card Fraud • Countermeasures
18	<p>Website & Database Hacking Attacks (Advance)</p> <ul style="list-style-type: none"> • Introduction of Website & Database • Authentication Process of Web Application • Attack On Website & Web Application • SQL Injection attacks • Retrieve Data From Website like Username & Passwords • SQL Injection in MySql Database • Attacking Against SQL Servers • SQL Injection:-Authentication Bypassing • Maintaining Access On Website • Uploading Shell ,Viruses & Trojans On Website • XSS attacks :- (a) Reflected (b) Persistence • Countermeasures
19	<p>Penetration Testing & Vulnerability Assessment (Advance)</p> <ul style="list-style-type: none"> • What is Web Server? • How We Create A Webserver • How it's Work • Web Server Vulnerability • Exploit Against Web servers • Hacking Web Server Techniques • What is Vulnerability? • Method of finding Vulnerability

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	<ul style="list-style-type: none">• Web Application Threats• What is Penetration Testing?• Penetration Testing Methodologies• Countermeasures
20	Wi-Fi Hacking & Countermeasures <ul style="list-style-type: none">• Introduction of Wifi & Its Protocols• Setup & Optimizing Wireless Client• Hacking and Cracking Wireless LAN• Cracking WEP,WPA,WPA2• Install Backdoor in Wireless Network• Stealing Data After Cracking Wifi Key• Securing & Managing Wireless LAN• Make Deep Security with WPA2• Wifi Protected Access• Router & Wifi Security• Countermeasures
21	Cyber Forensics Investigation (Advance) <ul style="list-style-type: none">• Introduction of Cyber Forensic• Investigating Internet Crimes• Email Hacking Crime Investigation• Logs Investigation:-• Investigating Real Logs & Fake Logs• Recover Deletes Logs• Recover Delete Evidences• Data Storage Devices Analysis• Windows Forensics• Web Browser Investigations• Forensics Investigations Using EnCase• Investigating Web Attacks• Investigating Privacy on the Internet

THIS TRAINING IS ONLY FOR EDUCATIONAL PURPOSE NOT FOR HACKING PURPOSE

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Batches:

- **May 2012**
- **June2012**
- **July 2012**

Ethical Hacking & Cyber Security **Summer Training 2012**



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Registration:

- Download the [Training Registration Form here](#)
- To confirm your seat send Training Registration Form along with one ID proof, Photocopy of D.D. & Course fee (₹ 10,200/-) via D.D. in favor of "I THREE INFOTECH PVT LTD" payable at New Delhi

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