

Ethical Hacking & Information Security

Following are deliverables to the students during their workshop:

- a. Ethical Hacking & Information Security Software Tool Kit for each student (Worth Rs. 750/-).
- b. Training Material (E-Book) for each student.
- c. Authorized Certificate.

Workshop Details & Course Curriculum

Course Offered: Ethical Hacking & Information Security

Ethical Hacking & Information Security is the need of the hour. To equip the technical support of our country we are all geared up to provide the best of the knowledge and services to all. The course would impart knowledge to prepare for a counter-attack the hacking attacks. Also, the course will also help you know the network and source of the attack, which enables you to safeguard your data and position.

Advantages of Ethical Hacking & Information Security:

- The course would impart knowledge to prepare for a counter-attack for the hacking attacks.
- It will also help you know the network and source of the attack, which enables you to safeguard your data and position.
- It would impart technical knowhow of how to make the Internet transactions safe and secure
- This course would equip students to counter the potential attacks. Also, this would be a founding stone for India to emerge as a Super Power in times to come.

Ethical Hacking & Information Security workshop highlights:

- The premier certification in Ethical Hacking & Information Security
- Covers both sides of the coin hacking and security which is not offered in any other course
- Hands on course with over 30 tools covered with demonstrations (audio-visual)
- Covers latest techniques and practices in the security industry along with Case Studies
- Created by leading security professionals from professors and alumni of top engineering colleges of India
- Industry endorsed Course, Training methodology and Certification

Pre-requisites:

- Passion to learn new things
- Knowledge of How to use Computer & Internet

Course Curriculum: (Detailed Curriculum Attached in the following pages)

- Concept of Ethical Hacking
- Email Hacking
- Trojans
- Web Server as a Target
- Wireless Hacking
- Software Cracking and Patching
- GSM and 3G Security

Scope of the Ethical Hacking & Information Security:

It is really sad seeing us lacking in the field of technical security infrastructure. This allows the intruders to leave their impact on our mind and infrastructure, which sways the earth below our feet. These days most of the literate people rely on Internet and perform most of their transactions and activities online but the increase in the cyber crimes in recent years make people think twice before using Internet to make transactions.

Workshop Curriculum

Course Duration

16 hours (Will be covered in 2 days, 8 hours)

Concept of Ethical Hacking:-

Reading the Hacker's mind and Understanding the hacking psychology and methodology

Introduction to Hacking

- Real Meaning of Hacking v/s Public Perspective
- Difference between Hacker and Cracker
- Categories of Hackers: Based on Knowledge
- Categories of Hackers: Based on Actions

Why Hackers Hack?

Steps performed by Hackers

- Ethical Hacking and Penetration Testing
- Introduction to Penetration Testing
- Difference between Hacking and Ethical Hacking
- Types of Penetration Testing
- Steps in Penetration Testing

Email Hacking:-

Email Servers

What is an Email Server?

How to Setup an Email Server?

Configuring the Email Server

Sending and Receiving Emails from your Email Server

- Email Forgery and Spamming
- Introduction to Email Forgery
- Types of Email Forgery
- Fake mail sending websites
- PHP Fake Mail Scripts
- Email Spamming and Email Bombing
- Email Password Attacks
- Email password attack vectors
- Cracking the Password using the Fake Websites
- Recovering the Email Password: Stealing the Cookies
- IE Asterisks Revealer
- Email Account Security
- Email Header Analysis
- Tracing the Email path and Locating the Original Sender of the Email
- Spam Filtering

- Blacklisting Servers and Emails
- Configuring the Email Account Recovery options

Trojans:-

- Concept of Trojan
- Introduction to Trojans
- Different types of Trojans
- Some Famous Trojans
- Controlling Trojans
- Configuring a Server Trojan
- Modes of Transmission
- Remote Administration of Victim Computer
- Trojan Evading and Countermeasures
- Detecting the running server
- Tracing the Attacker
- Killing the Trojan Server
- Configuring the Windows Firewall

Web Server as a Target:-

- Web Technologies
- Introduction to Web Servers
- Configuring a Web Server
- Making your Own Website
- Introduction to Database Servers
- The Web Login Process
- Web Application Attacks: Live Demonstrations
- Web Ripping
- Input Validation attacks: SQL Injection
- Google Hacking Database
- PHP Remote Code Execution
- Cross Site Scripting: XSS
- Directory Transversal Attacks
- Putting breaks on Web Application attacks
- Proper Input validation
- Directory access controls
- Deny Google to your website

Wireless Hacking:-

- Wireless Network Concepts
- Introduction to Wireless Terminologies
- Wireless Access Points and Hotspots
- Wireless Attacks
- Wireless War Driving
- MAC Address Spoofing
- WEP Key Cracking
- Wireless Security Measures
- Changing the Default Settings
- MAC Address Filtering
- Configuring a WPA Key

Software Cracking and Patching:-

- Software Cracking and Serial Key Phishing

- Software Process Attaching
- Application Debugging
- Tracing the Serial Function
- Serial Key Algorithms
- Software Patching
- Disassembling the Software Setup
- Tracking the Serial Conditional Jumps
- Developing a Software Patch
- Applying Application Security
- Introduction to Application Encryption
- Using the Setup Encrypters
- Applying strong Serial Key Algorithms

GSM & 3G Security:-

- Brief introduction to GSM networking
- Cryptography issues
- Terminal and SIM
- SS7 Signalling
- GSM Data
- Value-Added Services
- Third generation
- Lawful interception

Duration – 2 days

Course Fee – Rs. 2000 per student

Amount can be given either in Cash or Cheque payable to EP INFOWAYS PVT. LTD.

Or

Submitted in the Union Bank Account Directly – EP Infoways Pvt. Ltd.

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