



Content Outline

Ethical Hacking with **Information & Whatsapp Security**

EISYSTEMS SERVICES

FF-113, Express Greens Plaza, Sector 1
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Content Outline

Session 1

Ethics & Hacking

- Hacking history : How it all begin
- Why is security needed?
- What is ethical hacking?
- Ethical Hacker Vs Malicious hacker
- Types of Hackers
- Building an approach for ethical hacking
- Steps in Ethical hacking

Basics of Internet, Networking & Hacking

- What is a Network?
- Types of network – LANs, WANs & WLANs
- What is Internet?
- History of the Internet
- Basic Structure
- What is a Server?
- What is an IP Address?
- What is a domain name?
- IP-Domain Relation
- Client-Server Relationship Model
- Internet networking
- What is a port?
- What is Programming?
- Types of programming languages.
- What is a Programming loophole or error?

Session 2

Information gathering & Google Hacking (Practical)

- Whois access (Demo)
- Maltego (Demo)
- 123people.com (Demo)
- Ip scanning (Demo)
- Port scanning (Demo)
- Network scanning & its tools (Demo)
- What is Google and how does it work?
- Google tricks (Demo)
- Basic hacks (Demo)
- How can Google hacking help an Ethical Hacker? (Demo)
- Accessing online remote cameras

Windows security (Practical)

- Windows security (Demo)
- Registry (Demo)
- Port & Services (Demo)

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Session 3

SQL injections attacks (Practical)

- Introduction of SQL
- What is SQL injection
- Checking SQL injection vulnerability (demo)
- Basic strategy of SQL injection (Demo)
- Getting login credentials using SQL injections (Live Demo)
- Using SQL to login via middleware language (Demo)
- URL and Forms (Demo)
- SQL Query SELECT, DROP etc. (Demo)
- SQL cheat sheets (Demo)
- Using source changes to bypass client side validation (Demo)
- Live demonstration of the attack (Demo)
- Using SQL injection tools (Demo)
- Importance of server side validation (Demo)
- How to protect your system from SQL Injections (Demo)

Man-in-the-middle attack (MITM Attack) (Practical)

- What is Man-in-the-middle attack?
- What is Backtrack linux (Most common unix system for ethical hacking)?
- Preparation for Man-in-the-middle attack (Demo)
- Setting ettercap tool for the attack (demo)

Identifying victim (Demo)

- Cache poisoning (Demo)
- Routing table modification (Demo)
- Evesdropping (Demo)
- Countermeasures against MITM attack (Demo)

Session 4

Phishing, Trojan & Viruses

- What is phishing?
- Social engineering used in phishing (Demo)
- Phishing attack (Demo)
- Phishing sites (Demo)
- Protection against phishing (Demo)
- Viruses: Trojans, Worms, Malware, Spyware
- Modes of spreading
- Different Ways a Trojan can Get into a System (Demo)
- Creation of Trojan using cybergate (Demo)
- Attacking a system using our created trojan (Demo)
- Indications of a Trojan Attack (Demo)
- Some Famous Trojans and Ports They Use (Demo)
- How to Detect Trojans? (Demo)
- How to Determine which Ports are Listening (Demo)
- Netstat

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Session hijacking & Cookie grabbing

- What are cookies? (Demo)
- Reading and writing cookies (Demo)
- Passive Vs Active session hijack (demo)
- TCP sessions and HTTP sessions (Demo)
- TCP session hijacking: Telnet (Demo)
- Stealing Cookies to hijack session using: XSS (Demo)
- Sniffers (Demo) - Spoofing (Demo)
- Spoofing Vs Hijacking
- Types of Hijacking
- Protection against session Hijacking (Demo)

Session 5

Social Network Attacks (Facebook, WhatsApp & Gmail)

- Overview of Social Engineering - Case Study
- Example of Social Engineering Attack
- Java Applet Attack (Demo) -WhatsApp Security -Facebook Security -Gmail Security

Call & SMS Spoofing

- What is Fake SMS & Call?
- Method of generating fake SMS & Calls (Demo)
- Actions to be taken for fake SMS and Calls (Demo) Indian IT Act & Cybercrime
- IT ACT 2000
- Cyber crime/terrorism and its type
- Sections in the Indian constitution Sec. 65, 66 A,B,C, D , 67, 69 etc.
- Penalty in all sections of Indian constitution

DNS Spoofing:

- What is DNS Spoofing?
- How does it work?
- How to secure yourself?
- DNS Spoofing (Demo)

Session 6

Email Forging & Tracing

- How does an email work?
- Tracing an email (Demo)
- Spam

Firewalls & Keyloggers (Demo)

- Detecting fake emails (Demo)
- What is a firewall? & How can it help you
- How a firewall works
- What are key loggers? (Demo)
- Types of key loggers? (Demo)

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Prerequisites & Eligibility

- This is a basic level workshop and anybody is eligible to join this workshop.
- The course and curriculum of this workshop is more inclined towards information security and anybody having an email address and know how to open website in browser is eligible to join this workshop.
- Participants are expected to bring their laptop (Windows Platform) atleast one in a group of 2/3 for better understanding of practical session in the workshop. (if required)
- Mode of Training/Teaching will be English only.
- Provisioning of Internet to participants is subject to hosting college, so it will be better if participants come with their internet dongle during workshop.

Workshop Fees, Certification & Other Deliverables

- Fees: Rs. 1250 per participant
- Every participant will be provided with certification from Blitzschlag'19 MNIT Jaipur & EISystems Services.
- Internship Vouchers by EISystems

Date & Duration of Workshop

- Dates : 1st & 2nd of February 2019 (Around 7 hours per day)
- Venue : MNIT Jaipur
- Accommodation assistance available.

Contact Us

We ensure that you will find our training programs extremely beneficial for your students. If you have any queries kindly get back to us. We are looking forward to a quick and positive response from you and a long term association with your esteemed organization.

Thanks & Regards,

Mayur Dev Sewak

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Note:

Important: Course & Structure of Workshop may subject to change without any notification to host institution.

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