




Workshop on Cyber Security and Ethical Hacking  
by Mahesh Rakheja  
(Basic and Advance)

● Program Session Schedule

Modules	Particulars
1	<b>Introduction to Ethical Hacking</b> <ul style="list-style-type: none"><li>• Introduction to Ethical Hacking</li><li>• HTML</li><li>• PHP</li><li>• Database</li></ul>
2	<b>Linux Operating System and Net- working:</b> <ul style="list-style-type: none"><li>• LINUX</li><li>• NETWORKING</li></ul>
3	<b>Information Gathering:</b> <ul style="list-style-type: none"><li>• Doxing</li><li>• Website/ IP information Gathering</li><li>• Network Mapping</li><li>• Google Hacking</li></ul>
4	<b>Scanning &amp; Enumeration:</b> <ul style="list-style-type: none"><li>• Discovering IP Range and Open Port</li><li>• Identifying Target Operating System and Services</li><li>• Bypassing Firewalls while Scanning</li></ul>



Modules	Particulars
5	<p><b>Proxy Servers and Anonymity:</b></p> <ul style="list-style-type: none"> <li>• Learning Various Methods to Use Proxies</li> <li>• Hiding yourself behind VPN</li> <li>• Using Proxies and VPN for Hacking Tools i.e Scanning</li> <li>• Configuring TOR with Backtrack and Nmap for Invisible Scanning</li> <li>• Using Tunneling methods for IP hide</li> </ul>
6	<p><b>Email Hacking &amp; Social Engineering:</b></p> <ul style="list-style-type: none"> <li>• Types of Email Addresses.</li> <li>• Phishing Attack.</li> <li>• Social Engineering Attack.</li> <li>• Brute force Attack to get password.</li> <li>• Keynoters and Rating Attack.</li> <li>• Password Guessing Attack.</li> <li>• Hack by Mobile Phone.</li> <li>• Securing Email Accounts.</li> </ul>
7	<p><b>Cryptography &amp; Steganography:</b></p> <ul style="list-style-type: none"> <li>• Cryptography and Encryption Basics</li> <li>• Understanding various Hashes and Encryption Algorithms</li> <li>• Creating Digital Signatures on Backtrack and SSL cert.</li> <li>• Cryptography attacks</li> <li>• Rainbow table to Crack Passwords</li> <li>• Using various Steganography tools on Backtrack</li> </ul>


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8	<p><b>System Hacking &amp; Security:</b></p> <ul style="list-style-type: none"> <li>• <b>Hacking Windows Passwords using various methods</b></li> <li>• <b>Cracking SAM file</b></li> <li>• <b>Protecting SAM file from hack</b></li> <li>• <b>Privilege Escalation in windows and Linux</b></li> <li>• <b>Using Stealers, Key loggers and Remote Administrations Tools (RATs)</b></li> <li>• <b>Creating Undetectable Viruses using Crypters, Binders and Assembly Codes.</b></li> <li>• <b>Protection against Trojans , Worms and Malwares</b></li> </ul>
9	<p><b>Website &amp; Server Hacking Techniques:</b></p> <ul style="list-style-type: none"> <li>• <b>Advance SQL Injection</b></li> <li>• <b>Cross Site Scripting</b></li> <li>• <b>Local File Inclusion (LFI)</b></li> <li>• <b>Remote File Inclusion (RFI)</b></li> <li>• <b>Parameter Manipulation</b></li> <li>• <b>Session and Cookies Hijacking</b></li> <li>• <b>Click Jacking</b></li> <li>• <b>Shell Injection</b></li> <li>• <b>Brute force Attacks against Website login pages</b></li> </ul>





Modules	Particulars
10	<b>Website &amp; Server Hacking Techniques:</b> <ul style="list-style-type: none"><li>• Using various Web based</li><li>• Vulnerabilities to hack servers</li><li>• Rooting Servers</li><li>• Remote Code Execution</li><li>• Buffers Overflows</li><li>• Brute force against Servers</li><li>• Using Dos, DDos and Creating Botnets</li><li>• Using various Exploits and Exploits Databases</li></ul>
11	<b>Website &amp; Server Hacking Techniques:</b> <ul style="list-style-type: none"><li>• Understanding Wireshark, Cain &amp; Abel and TCP Dump</li><li>• Man in the middle attacks</li><li>• Router Hacking</li><li>• Sniffing Data and Passwords</li><li>• ARP , DNS, DHCP Spoofing attacks</li><li>• DNS poisoning , DOS attack against an IP address</li><li>• Flood the LAN with random MAC addresses</li><li>• Packet Injection</li></ul>

  
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**TRAINING LETTER**

Greetings from A.C.E.T. Nagpur.

This is to certify that Mr. Aziz shauikh has successfully completed 3 day's Workshop based training program on Cyber security and ethical hacking . During this program he/She has undergone training on following :

- Information gathering
- Scanning
- Linux Operating System and Networking
- Proxy Servers and Anonymity
- Cryptography & Steganography
- System Hacking & Security
- Website & Server Hacking Techniques
- Wireless Hacking and Penetration Testing
- Vulnerability Assessment and Penetration Testing (VAPT)
- Firewall, IDS, Honeypots

At the time of training, we found him/Her sincere , hardworking and fully devoted. We wish him/Her all the success in his/Her future.

  
Event Cordinator

Prof. Saquib Ahmed

  
TRAINER

Mr. Mahesh Rakheja