

Truephers Certified Cyber Security Professional 1.0

Ethical Hacking | Cyber Security | Information Security

40 hours Training Course

✚ Basics of Networking

- ❖ Introduction to Internet Protocol
 - ❖ IP Addresses
 - ❖ IP Address Spoofing (Changing IP Address)
 - ❖ Proxies
 - ❖ Tor Browser, Web proxies, Manual proxies, VPN
 - ❖ Ports (Logical ports)
 - ❖ TCP/UDP
 - ❖ 3-way TCP handshake
 - ❖ DNS
 - ❖ DHCP
 - ❖ SMTP, POP3, IMPS
 - ❖ HTTP, HTTPS, SSL, TLS
 - ❖ MAC Address (Hardware Address)
 - ❖ MAC Address Spoofing
 - ❖ Hubs and Switches
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✚ Virtual Machines (VMWare, Virtual Box, KVM)

- ❖ Introduction to Virtual Machines.
 - ❖ Installation of Virtual Box, VMWare, KVM's
 - ❖ Configuration of Virtual Machines in details
 - ❖ Networking in Virtual Machines
 - ❖ Importing/ Exporting Virtual Machines
 - ❖ Cloning Virtual Machines
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✚ Basics of Linux Administration

- ❖ Introduction to UNIX/ LINUX
 - ❖ Downloading and Installing Linux
 - ❖ File Structure
 - ❖ Basics Commands
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✚ Information Gathering/ Enumeration

- ❖ Active and Passive Information Gathering
 - ❖ OS Fingerprinting
 - ❖ Port Scanning
 - ❖ Banner Grabbing.
 - ❖ Netcat/ Zenmap
 - ❖ Domain Name WHOIS lookup
 - ❖ Wayback Machine
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✚ System Hacking and Security

- ❖ Windows Password Cracking
 - ❖ Brute-forcing
 - ❖ Rainbow tables
 - ❖ Ophcrack
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✚ Cryptography and Steganography

- ❖ Disk Encryption
 - ❖ Image Steganography
 - ❖ Audio/ Video Steganography
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✚ Kali Linux

- ❖ Introduction to Kali Linux
 - ❖ Installing Kali Linux
 - ❖ Configuring Services in Kali Linux
 - ❖ Installing and Configuring Kali Pen-testing Tools
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✚ Digital Forensics

- ❖ Introduction to Data Forensics
 - ❖ Data recovering
 - ❖ Permanent Data deletion
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- ❖ Windows Forensics
 - ❖ Events and Logs views
 - ❖ USB and Browser Forensics
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✚ Google Hacking Database

- ❖ Using Google Dorks
 - ❖ Finding files, pages for particular Website
 - ❖ Finding Open Cameras
 - ❖ Finding Routers
 - ❖ Exploit-db GHDB
 - ❖ SHODAN (Search Engine for IOT)
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✚ DOS Attacks

- ❖ SMURF DOS
 - ❖ Ping of Death DOS
 - ❖ ICMP Flood
 - ❖ SYN Flood
 - ❖ Slow Loris
 - ❖ DDOS
 - ❖ Case Scenarios
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✚ Viruses, Worms, Trojans, Binder's and Crypter's

- ❖ Virus creation
 - ❖ Trojan creation
 - ❖ NetBus
 - ❖ Poison ivy, Cybergate RAT
 - ❖ Binder's
 - ❖ Crypter's
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✚ Sniffing and Security

- ❖ Wired Sniffing and Wireless Sniffing
 - ❖ ARP Poisoning
 - ❖ Wireshark
 - ❖ Cain and Able
 - ❖ Sniffing Secure HTTPS Traffic data
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✚ Wireless Hacking and Security

- ❖ Wireless USB adapters
 - ❖ Monitor mode and Promiscuous mode
 - ❖ WEP Encryption
 - ❖ WEP Password Cracking
 - ❖ WPA/ WPA2 Password Cracking
 - ❖ WPS Cracking
 - ❖ Configuring and Finding Hidden SSID's
 - ❖ Beating Black-list/ White-list MAC filtering
 - ❖ WIFI malware
 - ❖ Using other tools
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✚ Web Application Vulnerability Assessment

- ❖ Basics of The WEB
 - ❖ Understanding Web Protocols
 - ❖ Configuring Vulnerable Web Application for Learning and Testing
 - ❖ Cross Site Scripting XSS
 - ❖ Cross Site Request Forgery
 - ❖ SQL Injection
 - ❖ Finding Insecure & Sensitive files (password, backup files)
 - ❖ Broken Authentication
 - ❖ Insecure File Uploads
 - ❖ Insecure Session Management
 - ❖ And Mitigations of all of the above
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✚ Miscellanies

- ❖ Making Bootable Pen-drive
 - ❖ etc
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