

Course Outline

Module 1: Introduction

- 1.1 Brief Introduction of Linux& Window
- 1.2 Booting Up Linux
- 1.3 Linux Menu & Commands
- 1.4 Setup of Virtual Lab
- 1.5 Multiple USB Boot
- 1.6 Basics of Networking
- 1.7 Concept of IP Address, MAC Address

Module 2: Windows & Linux Password Breaking

- 2.1 Managing Linux Services and Password breaking
 - 2.1.1 Root Password and Grub Password
- 2.2 Windows Password breaking
- 2.3 Password Attack: Preparing for Brute Force
- 2.4 Offline-Online Password Attacks
- 2.5 SYSKEY Password Breaking

Module 3: Proxy Server & VPN Technology

- 3.1 What is Proxy Server?
- 3.2 Why we use proxy Server?
- 3.3 Implementation of Proxy Server
- 3.4 Introduction of VPN
- 3.5 Implementation of VPN
- 3.6 Countermeasures

Module 4: Email Frauds & Hacking an Email Account

- 4.1 Email Forging
- 4.2 Email Harvesting
- 4.3 Desktop Phishing

- 4.4 Email Header Analysis
- 4.5 Analyze the vulnerability of Email Server (Gmail, Yahoo, Hotmail etc.)

Module 5: Keylogger

- 5.1 Hardware Keylogger
- 5.2 Software Keylogger
- 5.3 Browser Keylogger

Module 6: The Metasploit Framework

- 6.1 Metasploit User Interfaces
- 6.2 Setting up Metasploit Framework on Linux
- 6.3 Exploring the Metasploit Framework
- 6.4 Service Scanning with Metasploit
- 6.5 Auxiliary Modules
 - 6.5.1 Getting Familiar with MSF Syntax
 - 6.5.2 Metasploit Database Access
 - 6.5.3 Hands-on-Practice
- 6.6 Exploit Modules
- 6.7 Metasploit Payloads
 - 6.7.1 Staged vs. Non-Staged Payloads
 - 6.7.2 Meterpreter Payloads
 - 6.7.3 Experimenting with Meterpreter
 - 6.7.4 Executable Payloads
 - 6.7.5 Reverse HTTPS Meterpreter
 - 6.7.6 Metasploit Exploit Multi Handler
 - 6.7.7 Revisiting Client Side Attacks
 - 6.7.8 Hands-on-Practice
 - 6.7.9 Building Your Own MSF Module
 - 6.7.10 Hands-on-Practice
- 6.8 Writing Fuzzers
- 6.9 Post Exploitation with Metasploit
 - 6.9.1 Meterpreter Post Exploitation Features
- 6.10 Post Exploitation Modules

Module 7: Social Engineering Toolkit

Module 8: Wi-Fi Hacking & Its Countermeasure

- 8.1 Introduction of Wi-Fi and its protocol
- 8.2 Setup of Wireless Client
- 8.3 Cracking Wi-Fi Network
- 8.4 Wi-Fi Security

8.5 MAC Binding

8.6 Countermeasures

Course Duration - 2 Weeks

CYBER ZONE TECHNOLOGIES