Description

In this program, learners will explore various network and organizational domain security weaknesses using diverse network hacking strategies. This exploration helps them understand potential vulnerabilities and how to counteract them.

NETWORK SECURITY

Module 1: Advanced Networking

This module explores various attacking frameworks, providing an invaluable perspective on potential cyber threats. This knowledge helps learners to identify and address network vulnerabilities effectively.

Network Security Fundamentals
Principles of Network Security
Packet Tracer
Subnetting
Network Protocols
DHCP
SMB, SMB2
LLMNR
NBNS
Frameworks
Enumeration
Exploitation
Pass-The-Hash (PTH)
Responder
Collecting Information
Cracking Passwords

Module 2: Active Directory

In this module, learners gain a comprehensive understanding of domain setup, including critical domain protocols and how they function. Moreover, it also covers domain events, providing insights into the various activities that can occur within a domain. This knowledge equips learners to manage and secure network domains effectively.

Domain Setup
Domain Installation
Domain Services
Domain Protocols
Kerberos
LDAP
Domain Events

Module 3: PowerShell

This module focuses on the extensive capabilities of PowerShell in managing a Windows environment. It guides learners through essential PowerShell commands and illustrates methods for efficient enumeration.

PowerShell Commands
PowerShell Text Manipulation
PowerShell Event Logs
PowerShell Enumeration

Module 4: Domain Exploitation

This module begins by scanning techniques to identify vulnerabilities, followed by enumeration methods for further probing. The course then delves into exploitation techniques to leverage these vulnerabilities and finally explores post-exploitation tactics.

Scanning
Enumerating
Rpcclient
Exploitation
Msfconsole
Impacket
CrackMapExec
Post Exploitation
Mimikatz
PSexec
Golden Tickets
Domain Security

Module 5: Cryptography

This module imparts knowledge of encryption techniques used in cybersecurity.

Encryptions
Classic Encryptions
Modern Encryptions

ZX Offensive | LEVEL: 4 | DURATION: 10-12 weeks (self-paced) / 40h (trainer-led)