CYBERIUM ARENA



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