CYBERIUM ARENA

— SIMULATOR —

SYLLABUS

NETWORK SECURITY

MAIN FEATURES

Labs

The labs hold questions and tasks to support the training.

Book

The coursebooks accompany the lecturers and students alike in cybersecurity studies.

Scenarios

Provide participants possible situations from cybersecurity or cyberterrorism to solve.

Project

Trainees must complete a practical built-in project, produce defense and assault tools.

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Description

Network security is a broad term that covers multiple technologies, devices, and processes. During this program students discover security vulnerabilities across the network and the organization domain using different network hacking techniques.

MODULES

Module 1: Advanced Networking

Network Security Fundamentals
Principles of Network Security
Packet Tracer
Subnetting
Configuring your Network
Analyzing Network Protocols
Taking Advantage of Network Protocols

Module 2: Network Attacks

Analyzing the Network
Automations Using NMAP
Launching NSE to Detect Possible Vulnerabilities
Capturing Spoofed Data
Data Enumeration
Password Authentication
Attacking the Local Network

Module 3: Domain Attacks

Domain
Building an Organization Network
Setting DNS
Setting DHCP
Setting a Router
Configuring Policy
Connecting to the Domain
Network Authentication

Module 4: Mitigation

Network Components Hardening
Working with Events
Events with PowerShell
Static ARP and DHCP
Working with IPTables
Hardening Windows Server
Hardening Linux Services