



CYBERIUM ARENA

— SIMULATOR —



SYLLABUS

OSINT

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

Open-source intelligence (OSINT) covers the techniques and procedures practiced retrieving targeted information from open-source networks containing immense amounts of data. This course teaches participants how to collect and analyze information using every data source available. Students will be further exposed to collecting information from the Darknet, social networks, and other sources.

MODULES

Module 1: The Internet

Networking

- The Internet Structure
- The OSI Model
- The TCP/IP Model
- Network Devices
- Network Protocols
- Proxy Layer
- Virtual Private Network (VPN)
- DNS Leakage Testing

Domains and Organizations

- Extracting Details
- Collecting Information
- Reconnaissance of an Organization

Module 2: OSINT

Introduction to OSINT

- Building OSINT Plan
- Categorizing and Cataloging Information
- Organizing and Formatting Data

OSINT Tools

- Online Tools and Frameworks
- Extracting from Social Networks

Searching for Information

- Dive into Metadata
- Common Files Metadata
- Web Sites Metadata
- Types of OSINT Sources

Module 3: The DarkNet

Darknet Overview

- Understanding Global Internet Layers
- Surface Web and Deep Web
- Installing and Configuration TOR
- Darknet Search Engines
- Installation and Security Concerns
- Find Hidden Services
- Creating Hidden Services
- Analyzing Databases from the Darknet

Module 4: Automations

Automated OSINT

- How Crawlers Operate
- Creating URLs Crawlers
- Creating Darknet Crawlers
- Bitcoin and Wallets
- Validating Leaked Databases
- Analyzing Metadata