



## CYBERIUM ARENA — SIMULATOR —



# SYLLABUS PENETRATION TESTING

## MAIN FEATURES

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### 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

Penetration tests help find flaws in the system to take appropriate security measures to protect the data and maintain functionality. This training focuses on running a penetration testing and take on the complex task of effectively targeting and planning a penetration in a traditionally secured environment.

## MODULES

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### Module 1: Collecting Information

#### Passive Information Gathering

- Monitoring Personal and Corporate Blogs
- Collecting Employees Personal Information
- Harvesting Organization Emails
- Shodan Search Engine

#### Active Information Gathering

- Nmap Scanning
- Services Versions
- NSE Scripting

### Module 2: Enumeration

#### Service Enumeration

- DNS Enumeration
- DHCP Enumeration
- SMB Enumeration
- Network Traffic

#### Identifying Vulnerability and Exploits

- NSE Enumeration
- Vulnerabilities Detection Methods
- Automating the Scanning

### Module 3: Exploitation

#### Attack Vectors

- Brute-Forcing Services
- Metasploit
- Working with Exploits
- Meterpreter
- Social Engineering

### Module 4: Post Exploitation

#### Post Exploitation

- Configuring Payloads
- Analyzing Local Exploits
- Privilege Escalation
- Using the Meterpreter Modules
- Social Engineering