

Cyber Warfare

Description

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

The course helps prepare for the certification exams GOSI (SANS) and CLOSINT (Mcafee).

Target Audience

This course targets mostly law-enforcement wanting to master the art of finding data around the internet.

Objectives

- Creating customized data collecting scripts
- Providing students with an all-source methodology
- Discovering techniques needed to generate highly relevant intelligence
- Understanding how to collect information from various social networks
- Exploring the Darknet for information bases

Module 1: Collecting with Linux

In this module, participants will learn to use Linux for collecting data from different sources. Students will also learn to gather information regarding domains in different parts of the world.

Linux Scripting

- Open-Source Intelligence
- Becoming Anonymous
- Building your Lab
- Virtual Private Network (VPN)
- Proxy Layer
- Working with VPS
- DNS Leakage Testing
- Reconnaissance of an Organization

Module 2: OSINT Tools and Search Engines

Students will get to know practical tools and search engines they will handle to collect data throughout this module. They will deepen their understanding of various information sources and will focus on gathering data from social networks.

OSINT Tools

- Online Tools and Frameworks
- Introduction to Basic Bash Scripting and Automation
- Extracting Information from Major Social Networks
- Extracting Metadata and Geolocation

Module 3: Advanced OSINT Scripting

Students will become familiar with a wider and more advanced array of OSINT tools and search engines in this module. They will understand how to use metadata and maximize the use of different filtering and customization options for searching. Students will gain the capabilities of identifying further information that may not be disclosed in a standard Google search.

OSINT Tools In-Depth

- About Crawlers
- SpiderFoot
- Maltego
- Recon-NG
- Mapping
- Openrefine
- Foca
- SearchCode

Module 4: Darknet Automation

The Darknet is considered the most prominent source of huge amounts of relevant information that is not accessible through the usual network. During this module, participants will learn to use the Darknet, pinpoint the information they are looking for, collect it, use avatars, purchase databases with sensitive information, and activate different automated tools for browsing and extracting information from the Darknet.

Darknet Overview

- How Crawlers Operate
- Creating URLs Crawlers
- Creating Darknet Crawlers
- Freenet
- Understanding Cryptocurrency Marketing
- Bitcoin
- Wallets