

OSINT Investigation Advanced

Course code: GOC611

OSINT Investigation Advanced is an advanced course focused on techniques, methodologies, and analytical thinking that enable participants to uncover connections, reconstruct digital traces, and obtain information that is not readily accessible. Participants will learn how to combine different intelligence disciplines and sources, from WEBINT and SOCMINT through GEOINT and IMINT to blockchain transaction analysis, and use them as one interconnected investigative process. The course is based on a practical approach, precise methodology, manual techniques, and the use of specialized tools. The goal is not simply to know where to look for information, but to understand how to obtain it, verify its accuracy, connect it with other findings, and use individual pieces of information to reach relevant conclusions. Participants will learn how to approach investigations systematically and work with digital traces from the first lead through to the final finding. The course builds on the knowledge and skills acquired in the GOC60 – OSINT investigation course and takes them to an advanced level. It is designed to help participants move beyond standard information searching and develop the ability to conduct systematic and in-depth digital investigations.

Who is the course for

The course is designed for anyone who already has basic experience with OSINT and wants to take their skills to an advanced level. It is particularly suitable for OSINT analysts, investigative journalists, security specialists, cybersecurity professionals, red teamers, forensic investigators, fraud and financial crime investigators, attorneys, compliance specialists, analysts, investigators, and other professionals who need to systematically collect, verify, and connect information from publicly available sources as part of their work.

The course is led by professional OSINT investigator Pavel Prochorov (lecturer bio: <https://www.osintinvestigation.cz>), who will take you beyond commonly available techniques and show you how to work with digital traces whose true significance may not be immediately apparent. You will learn how to uncover hidden connections, link seemingly unrelated pieces of information, and approach investigations systematically, from the first lead to the final finding.

What we will teach you

- work with advanced OSINT methodology and develop effective investigative procedures for complex cases
- use advanced techniques to uncover information and technical connections hidden behind web services
- conduct advanced investigations and connect digital traces across social networks and community platforms
- locate people, objects, and places using advanced GEOINT and IMINT techniques and effectively work with satellite imagery and other visual data
- manually trace Bitcoin and Ethereum transactions and analyze the flow of funds on the blockchain
- use specialized tools for blockchain analysis and smart contract investigation
- identify information that is not normally available through standard user interfaces and work with technical and historical data
- combine different sources, platforms, and investigative disciplines to create a comprehensive picture of the investigated case
- apply the acquired knowledge in practice through real-world practical assignments

Required skills

- Knowledge at the level of the GOC60 course.
- Participants should be able to independently search for, obtain, verify, and perform basic analysis of information from publicly available sources and understand the fundamental principles of OSINT investigation.
- Participants who are unsure about their skill level or are just beginning with OSINT are advised to complete GOC60 first.

Course Outline

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OSINT Investigation Advanced

Introduction

- OSINT mindset and analytical thinking in real-world cases
- OSIF and OSINT-V
- Multi-INT – combining different intelligence disciplines

Methodology

- Tools, extensions, and applications for effective investigative work
- Configuration of a Kali Linux virtual environment
- Fundamentals of working in the terminal and the most important commands
- Modern OSINT tools using the Kali Linux terminal
- Practical assignments for students

WEBINT

- Advanced investigation of websites and deanonymization of their operators
- Passive techniques for red team reconnaissance
- Active techniques for red team reconnaissance
- Special techniques for identifying hidden information
- Practical demonstration led by the instructor
- Practical assignment for students

SOCMINT

- Identifying information that is not normally available through the frontend
- Investigations on the Telegram platform
- Special techniques for identifying digital traces on selected social networks and community websites (TikTok, Instagram, Threads, Strava, Mastodon, BlueSky, Discord, Snapchat, Reddit, Steam, and others)

CRYPTO Investigation

- Basic principles of blockchains and cryptocurrencies
- Principles of blockchain investigation
- Manual analysis and tracing of Bitcoin transactions
- Analysis and tracing of Bitcoin transactions using specialized tools
- Manual analysis and tracing of Ethereum transactions
- Analysis and tracing of Ethereum transactions using specialized tools
- Basic principles of smart contracts
- Investigation and analysis of smart contracts
- Practical assignments for students

GEOINT and IMINT

- Advanced techniques for locating places from photographs and videos
- Analysis of satellite and aerial imagery
- Geolocation analysis based on terrain, objects, and other visual elements
- Determining the time a photograph or video was taken using shadow analysis
- Practical investigation demonstration led by the instructor
- Practical assignments for students

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