

CYBER FORENSICS

ANALYSIS PROGRAM

Cyber Forensics Analysis involves investigating digital devices and networks to uncover, analyze, and preserve evidence of cybercrimes. Forensic experts use specialized tools to recover deleted files, trace malware, and analyze logs for legal or incident response purposes. The process follows strict protocols to maintain data integrity and chain of custody. Cyber forensics is crucial for solving cyberattacks, data breaches, and insider threats.

For More Information



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1. Networking Essentials

- Introduction to Computer Network
- Network Topologies and Type
- IP Addressing
- Subnet Mask, Subnetting and CIDR
- VLSM, Wild Card, Summarization
- Networking Models
- OSI Model
- Networking Device, Cabling, Network Simulator Tools
- ARP and ICMP
- Packet Flow
- Routing - Static and Dynamic
- Static Routing - Next HOP IP & Exit Interface
- Dynamic Routing - RIP, EIGRP, & OSPF
- Remote Service Configuration
- DHCP Configuration
- ACLs
- Switching
- L2 Protocols - CDP, VLAN, STP, DTP, VTP
- Ether Channel
- Port Security

2. Kali Linux

- Introduction to Linux
- Setting up Lab
- Exploring Kali
- Sudo Overview
- Navigating the File System
- Basic Commands
- Creating, Viewing and Editing Text Files
- Managing Users and Group
- File Privileges / Permissions
- Linux Networking
- Process Management
- Services and Demons
- Log Analysis
- Archiving Files
- Debain Package Management
- Road Ahead - Towards Penetration Testing

3. Python Programming

- Introduction
- Set up
- Variables and Data Types
- Numbers
- String Formatting
- Booleans and Operators
- Tuples
- Lists
- Dictionaries
- Sets
- Conditionals
- Loops
- Reading and Writing Files
- User Input
- Exception and Error Handling
- Comprehensions
- Function and Code Reuse
- Lambdas
- The Python Package Manner
- Python Virtual Environment
- Introduction to Sys
- Introduction to Requests
- Introduction to Pwntools
- Projects

4. Ethical Hacking

- Networking Refresher
- Linux Refresher
- Introduction to Information Security
- Introduction to Ethical Hacking
- Foot printing / Information Gathering
- Scanning
- Enumeration
- Vulnerability Analysis
- System Hacking
- Malware and Threats
- Sniffing
- Social Engineering
- Denial of Service
- Session Hijacking
- IDS, IPS, and Firewalls
- Hacking Web Servers
- Hacking Web Applications
- SQL Injection
- Hacking Wireless Network
- Hacking Mobile Platforms
- Introduction to IOT
- Introduction to Cloud Computing
- Cryptography and Steganography

5. Digital Forensics

- Introduction to computer Forensics
- Digital Investigation and analysis
- Concepts of Hard disk and File System
- Evidence Duplication and Extraction
- Counter Anti forensics Strategies
- Windows forensics Analysis
- Linux Forensics Analysis
- Mac Forensics Analysis
- Network Forensics Analysis
- Web Breach Forensics
- Dark Web forensics Analysis
- Data repository forensics
- Cloud Forensics and Analysis
- Email forensics and Investigation
- Malware Analysis
- Mobile Forensics and Analysis
- IOT Forensics and Analysis

6. Threat Hunting

- Introduction to Threat Hunting
- Introduction to Malware
- Mitre
- Cyber Threats
- Cyber Kill Chain Methodology
- Event IDS, Logging and SIem
- Requirements, Planning, direction and review
- Data Collection and Processing
- Data Analysis Intelligence Reporting

7. Incident Handler & Reporting

- Introduction & Process to Incident Handling & Response
- Proactive digital investigation preparedness & First Response
- Cyber Threat Handling and Mitigation
- Network Security Incident Response and Countermeasure
- Email Security Management
- Web App threat Response & Remediation
- Cloud Security Incident Management
- Insider risk management and responses

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