

SECURITY OPERATIONS

CENTER SEPCIALISTS

Security Operations Center (SOC) Specialists are cybersecurity professionals who monitor, detect, and respond to threats in real-time. They analyze security alerts, investigate incidents, and implement countermeasures to protect an organization's IT infrastructure. Using SIEM tools like Splunk or IBM QRadar, they correlate data to identify breaches and vulnerabilities. SOC Specialists play a critical role in maintaining an organization's security posture and ensuring rapid incident response.

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. Security Operations Centre Specialist | SOC

- Risk Management and Security
- Cyber Threats and Attack Patterns
- Incidents, Events and logging
- Security Incident and Recovery with SIEM
- Advanced Threat Detection and Analysis
- Security Event Response and Resolution

6. Splunk Fundamentals

- Introduction to Splunk
- Installing and Configuring Splunk
- Searching and Reporting in Splunk
- Indexing and Data
- Splunk Search Language (SPL)
- Creating Dashboards and Visualization
- Alerts and Notification
- Splunk Administration and Security
- Splunk App Development
- Splunk Enterprise Security

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