



Security Leaders ⌚ 5.5 hours of content | **Exam**

1. Windows Fundamentals & Security

- Introduction to Windows and Enterprise Services
 - Active Directory
 - DHCP
 - File Server and Storage Services
 - WSUS (Windows Server Update Services)
- Workgroup vs Domain
 - User types in Windows
- Windows Security Architecture
 - LSA, SRM, SAM
- Deep Dive into Active Directory
 - BitLocker and Full Disk Encryption
- PowerShell and CMD
 - System Management & Automation
 - Use in Defense and Offense
- Access Control Lists (ACL)
 - ACE, DACL, Permissions and Practical Use
- Exam: Windows

2. Linux Fundamentals

- History of Linux and Linus Torvalds
- Security Differences Between Linux and Windows
- Linux File System Hierarchy (FSH)
 - Basic Structure
 - Directory Hierarchy
 - Permissions and Roles
- Basic Linux Commands (Demo)
- Exam: Linux

3. Linux Fundamentals

- Introduction to Networking
 - Basic Networking Concepts
 - Peer-to-Peer vs Client-Server
- Protocols and Models
 - OSI Model: Application, Presentation, Session, Transport, Network, Data Link, Physical
 - TCP/IP Model
 - TCP vs UDP
- Key Protocols:
 - ARP
 - ICMP
- Networking Devices:
 - Hub, Switch, Router
- Ports and Sockets
- Exam: Network Fundamentals

4. Information Security Essentials

- Introduction to Information Security
 - Threats to Individuals and Organizations
- Theoretical Models:
 - CIA Triad
 - IAAA Model
- Information Types and Information Systems
- Importance of Methodological Security Work
- Case Study
- Attacker Profile: Types of Hackers
- Exam: Information Security

5. Attack Techniques

- Malware Overview
 - Types of Common Malware
- Penetration Techniques
 - External and Internal
- Denial-of-Service (DoS) Attacks
- Data Protection and Maintenance in Organizations
- Exam: Attack Techniques

6. Network Security & Defensive Technologies

- Principles of Secure Architecture
- Cryptography Basics
- Defensive Systems:
 - WAF, IDS, IPS
 - VPN, Endpoint Security, DLP
- Extended Discussion on DLP
- Email Protection with DMARC
- Security Monitoring and Automation Systems:
 - SIEM
 - SOAR
- Exam: Network Security

7. Offensive Cybersecurity

- Understanding Security Vulnerabilities
- Introduction to Kali Linux
- Wi-Fi Network Attacks
- Brute Force Attacks
- Infrastructure Attacks
- Privilege Escalation Techniques
- Exam: Offensive Cyber Security

8. Course Summary

- Final Exam: Windows
- Recap and Key Takeaways