

CompTIA Security+



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Online Course



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Course Modules

1. Understanding Threats, Attacks, and Vulnerabilities

- Introduction to Security Concepts
- Security Fundamentals
- Security Terms
- Identifying Threat Actors and Vectors
- Actors and Threats
- Hackers
- Actor Attributes
- Attack Vectors
- Information Gathering
- Intelligence Sources
- Research Sources
- Understanding Vulnerabilities
- Vulnerability Fundamentals
- Security Impacts
- Vulnerability Types
- Understanding Attack Types
- Attack Types
- Understanding Malware Types
- Attacking Passwords and User Credentials
- Physical Attacks
- Other Attack Types
- Identifying Social Engineering Techniques
- Social Engineering Principles
- Phishing



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2. Analysing Attacks

- Security Assessment Tools and Techniques
- Understanding Assessments
- Threat Hunting
- Vulnerability Scanning
- Syslog and SIEM
- SIEM Components
- Application Attacks
- Privilege Escalation
- Cross-Site Scripting
- Injections
- Application Attack Issues
- Session Attacks
- Additional Attacks
- Introduction to Network Attacks
- Wireless Network Attacks
- Layer 2 Attacks
- Service Attacks
- Demo - DNS Poisoning
- Malicious Code
- Penetration Testing
- Environment Types
- Pentesting Concepts
- Network Reconnaissance



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3. Architecture and Design

- Enterprise Security Architecture
- Enterprise Standardization Needs
- Configuration Management
- Data Protection
- Additional Security Concepts
- Disaster Recovery
- Deception and Disruption
- Designing Authentication and Authorization
- Authentication and Authorization
- Authentication Methods
- Authentication Technologies
- Biometrics
- Multifactor Authentication
- Designing Resiliency
- Resiliency and Cybersecurity
- Redundancy Concepts
- Backup Concepts
- Additional Resiliency Options
- Cloud and Virtualization Concepts
- Cloud Models
- Cloud Types
- Cloud Service Providers
- Additional Cloud Concepts
- Cloud Computing Security
- Securing Application Development and Deployment
- Application Development Environments



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4. Physical and System Security

- Physical Security Controls
- Importance of Physical Controls
- Standard Controls
- Security Monitoring
- Security Personnel
- Secure Areas
- Secure Data Destruction
- Data Destruction Software
- Securing Embedded and Specialized Systems
- Embedded Systems
- Specialized Systems
- Additional System Types
- Communication Considerations
- Constraints



5. Incident Response and Forensics

- Incident Response Policies and Procedures
- Incident Response Plans
- Incident Response Process
- Attack Frameworks
- Examining IRPs
- Understanding Digital Forensics
- Introduction to Forensics
- Evidence Categories
- Documentation and Evidence
- Acquisition Concepts



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6. Cryptography

- Cryptographic Concepts
- Introduction to Cryptography
- Common Use Cases
- Integrity Verification
- Understanding Keys
- Crypto Limitations
- Quantum
- Additional Cryptographic Types
- Public Key Infrastructures
- Introduction to PKIs
- Certificate Authorities
- Certificates
- Certificate Verification
- Certificate Formats
- Implementing PKI



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6. Implementing Secure Networks

- Implement Secure Protocols
- Network Protocols
- Use Cases
- Application Layer Protocols
- IP Security
- Implement Secure Network Designs
- Network Segmentation
- High Availability
- Virtual Private Networks
- Secure Network Appliances
- Firewalls
- Configuring a Host-Based Firewall
- Additional Network Security Concepts
- Implementing Security in the Cloud
- Cloud Security Controls
- Cloud Storage Security
- Cloud Network Security
- Compute Security
- Additional Cloud Solutions
- Implement Wireless Security
- Cryptographic Protocols
- Authentication Protocols
- Authentication Methods
- Installation Considerations
- Implement Secure Mobile Solutions
- Deployment Models



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7. Implementing Secure Hosts and Identities

- Implement Authentication and Authorization Systems
- Understanding Identity
- Access Control Methods
- Demo - Role-Based Access Control
- Authentication Management
- Remote Access Authentication
- Authentication and Authorization Protocols
- Implement Identity and Account Management Controls
- Account Types
- Account Policies
- Configuring Account Policies
- Additional Identity Terms
- Implement Host and Application Security Solutions
- Endpoint Protection
- Client Level Protections
- Network Level Protections
- Boot Integrity
- Database Security
- System Hardening
- Application Security



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8. Operational Procedures

- Using Tools to Assess Security
- Network Reconnaissance and Discovery
- Network Tools
- Using Network Tools
- File Manipulation Tools
- Packet Capture and Relay
- Shell and Script Environments
- Forensics Tools
- Utilizing Data Sources for Investigation
- Vulnerability Scan Output
- SIEM Dashboards
- Log Files
- Additional Monitoring
- Applying Mitigation Techniques
- Reconfiguring Endpoint Solutions
- Configuration Changes
- Additional Mitigation Techniques



10. Governance, Risk, and Compliance

- Introduction to Control Types
- Security Controls
- Control Categories
- Control Types
- Understanding Governance
- Introduction to Governance
- Regulations and Standards
- Key Frameworks
- Benchmarks
- Data Loss Prevention (DLP)
- Implementing Security Policies
- Personnel-Based Policies
- Third-Party Risk Management
- Data
- Credential Policies
- Implementing Risk Management
- Risk Types
- Risk Management Strategies
- Risk Analysis
- Disasters
- Business Impact Analysis
- Compliance with Privacy and Sensitive Data
- Organizational Consequences
- Data Types
- Privacy Enhancing Technologies



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