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Threat Management

Cybersecurity Analysts

- Cybersecurity roles and responsibilities
- Frameworks and security controls
- Risk evaluation
- Penetration testing processes

Reconnaissance techniques

- The kill chain
- Open source intelligence
- Social engineering
- Topology discovery
- Service discovery
- OS fingerprinting

Security appliances

- Configuring firewalls
- Intrusion detection and prevention
- Configuring IDS
- Malware threats
- Configuring anti-virus software
- Sysinternals
- Enhanced mitigation experience toolkit

Logging and analysis

- Packet capture
- Packet capture tools
- Monitoring tools
- Log review and SIEM
- SIEM data outputs
- SIEM data analysis
- Point-in-time data analysis

Vulnerability Management

Managing vulnerabilities

- Vulnerability management requirements
- Asset inventory

- Data classification
- Vulnerability management processes
- Vulnerability scanners
- Microsoft baseline security analyzer
- Vulnerability feeds and SCAP
- Configuring vulnerability scans
- Vulnerability scanning criteria
- Exploit frameworks

Remediating vulnerabilities

- Analyzing vulnerability scans
- Remediation and change control
- Remediating host vulnerabilities
- Remediating network vulnerabilities
- Remediating virtual infrastructure vulnerabilities

Secure software development

- Software development life cycle
- Software vulnerabilities
- Software security testing
- Interception proxies
- Web application firewalls
- Source authenticity
- Reverse engineering

Cyber Incident Response

Incident response

- Incident response processes
- Threat classification
- Incident severity and prioritization
- Types of data

Forensics tools

- Digital forensics investigations
- Documentation and forms
- Digital forensics crime scenes
- Digital forensics kits
- Image acquisition
- Password cracking
- Analysis utilities

Incident analysis and recovery

- Analysis and recovery frameworks
- Analyzing network symptoms
- Analyzing host symptoms
- Analyzing data exfiltration
- Analyzing application symptoms

- Using sysinternals
- Containment techniques
- Eradication techniques
- Validation techniques
- Corrective actions

Security Architecture

Secure network design

- Network segmentation
- Blackholes, sinkholes, and honeypots
- System hardening
- Group policies and MAC
- Endpoint security

Managing identities and access

- Network access control
- Identity management
- Identity security issues
- Identity repositories
- Context-based authentication
- Single sign on and federation
- Exploiting identities
- Exploiting web browsers and applications

Security frameworks and policies

- Frameworks and compliance
- Reviewing security architecture
- Procedures and compensating controls
- Verifications and quality control
- Security policies and procedures
- Personnel policies and training

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