

INFOSOFT IT SOLUTIONS

Training | Projects | Placements

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CompTIA Security+

Threats, Attacks, and Vulnerabilities

- **Types of Malware**
 - Viruses, worms, Trojans, ransomware, spyware, adware
- **Common Attack Techniques**
 - Social engineering, phishing, shoulder surfing, malware, brute force, zero-day attacks
- **Vulnerability Assessment Tools**
 - Scanners, sniffers, penetration testing tools

Technologies and Tools

- **Networking Concepts**
 - OSI model, TCP/IP protocols, ports and protocols, network topologies
- **Network Security**
 - Firewalls, IDS/IPS, VPNs, proxies, NAC, network segmentation
- **Wireless Security**
 - Authentication methods, encryption protocols, security configurations

Architecture and Design

- **Secure Network Design**
 - DMZ, VLANs, NAT, subnetting, zoning
- **Secure Systems Design**
 - Hardware and firmware security, BIOS/UEFI settings, secure configurations
- **Cloud and Virtualization Security**
 - Virtualization security, cloud deployment models, shared responsibility model

Identity and Access Management

- **Authentication**
 - Factors (biometric, tokens, certificates), methods (single sign-on, federation)
- **Access Control**
 - DAC, MAC, RBAC, principle of least privilege, ACLs

Risk Management

- **Risk Assessment**
 - Threat assessment, vulnerability assessment, risk calculation
- **Incident Response**
 - Incident response process, incident handling procedures, chain of custody

Cryptography and PKI

- **Cryptography Fundamentals**
 - Symmetric and asymmetric encryption, hashing algorithms, digital signatures
- **Public Key Infrastructure (PKI)**

- Certificate authorities, key escrow, key management, trust models

Security Operations

- **Security Monitoring**
 - Log management, SIEM, anomaly detection
- **Incident Response**
 - Incident handling, forensics, chain of custody
- **Disaster Recovery and Business Continuity**
 - Backup strategies, redundancy, continuity planning

Compliance and Legal

- **Legal and Regulatory Requirements**
 - Data privacy laws, intellectual property laws, compliance frameworks (GDPR, HIPAA, PCI DSS)
- **Security Policies, Procedures, and Awareness**
 - Policy development, user training, security awareness programs