

# INFOSOFT IT SOLUTIONS

Training | Projects | Placements

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## *Cisco CCIE Security*

### + Concepts and Threats

- Overview of network security principles
- Common threats and vulnerabilities
- Defense-in-depth and Zero Trust security models

### Secure Access

- AAA (Authentication, Authorization, and Accounting)
- Cisco Identity Services Engine (ISE) deployment
- BYOD (Bring Your Own Device) and guest access

### VPN Technologies

- IPsec VPN fundamentals
- SSL/TLS VPNs (AnyConnect)
- DMVPN (Dynamic Multipoint VPN) and FlexVPN

### Secure Routing and Switching

- Routing protocol security (OSPF, EIGRP, BGP)
- VLAN and STP security considerations
- Network segmentation and isolation techniques

## **Next-Generation Firewalls (NGFW)**

- Cisco Firepower Threat Defense (FTD) deployment
- NGFW features (AMP, URL filtering, intrusion prevention)
- Integration with Cisco Firepower Management Center (FMC)

## **Intrusion Prevention Systems (IPS)**

- Cisco IPS deployment and configuration
- Signature tuning and customization
- Threat intelligence and anomaly detection

## **Content Security**

- Cisco Email Security Appliance (ESA)
- Cisco Web Security Appliance (WSA)
- Web filtering and anti-malware technologies

## **Endpoint Security Solutions**

- Cisco Advanced Malware Protection (AMP) for Endpoints
- Host-based intrusion prevention systems (HIPS)
- Endpoint detection and response (EDR)

## **Advanced Threat Protection**

- Threat hunting and response strategies
- Security Operations Center (SOC) fundamentals
- Incident response and forensic analysis

## **Secure Network Access Control**

- Network segmentation and micro-segmentation
- Role-based access control (RBAC) and policy enforcement
- NAC (Network Access Control) integration

## **Security Policies and Compliance**

- Regulatory compliance (GDPR, HIPAA, PCI DSS)
- Security policy development and enforcement
- Auditing and reporting in security operations

## **Network Security Design and Architecture**

- Designing secure network infrastructures
- Security considerations for cloud and hybrid environments
- Secure SDN (Software-Defined Networking) principles

## **Security Automation and Orchestration**

- Security automation frameworks (Python scripting, APIs)
- Cisco Threat Response (CTR) and integration with other tools
- Orchestration platforms (Cisco SecureX, SOAR)

## **Security Monitoring and Analysis**

- Network visibility and monitoring tools (NetFlow, Syslog)
- Security event correlation and analysis
- Threat intelligence platforms and feeds

## **Case Studies and Real-World Scenarios**

- Real-world security deployment challenges and solutions
- Industry-specific case studies
- Design considerations for specific business requirements