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#### **Course Modules**

#### 1. Perimeter Security and Intrusion Prevention

- Deployment modes on Cisco ASA and Cisco FTD
  - o Routed
  - o Transparent
  - o Single
  - o Multi-context
  - o Multi-instance
- Firewall features on Cisco ASA and FTD
  - o NAT
  - o Application inspection
  - o Traffic zones
  - o Policy-based routing
  - o Traffic redirection to service modules
  - o Identity firewall
- Security features on Cisco IOS/IOS XE
  - Application awareness
  - o Zone-based firewall
  - o NAT
- Cisco FMC features
  - o Alerting
  - o Logging
  - o Reporting
  - o Dynamic objects

### **Course Modules**

- Cisco NGIPS deployment modes
  - o In-line
  - o Passive
  - o TAP
- Cisco NGFW features
  - o SSL inspection
  - o User identity
  - o Geolocation
  - o AVC
- Detect and mitigate common types of attacks
  - o DoS/DDoS
  - o Evasion techniques
  - o Spoofing
  - o Man-in-the-middle
  - o Botnet
- Clustering & high avlablty features on Cisco ASA & Cisco FTD

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- Policies and rules for traffic control on Cisco ASA & Cisco FTD
- •Routg protocols securty on Cisco IOS, Cisco ASA,& Cisco FTD
- Network connectivity through Cisco ASA and Cisco FTD
- Correlation and remediation rules on Cisco FMC

#### 2. Secure Connectivity and Segmentation

- Cisco AnyConnect client-based, remote-access VPN tchnlgs
- Cisco IOS CA for VPN authentication
- FlexVPN, DMVPN, and IPsec L2L tunnels
- VPN high availability methods
  - o Cisco ASA VPN clustering
  - o Dual-hub DMVPN deployments
- Infrastructure segmentation methods
  - o VLAN
  - o PVLAN
  - o GRE
  - o VRF-Lite
- Micro segmentation with Cisco Trust Sec using SFT and SXP

#### 3. Security Infrastructure

- Device hardening techniques & cntrl plane protection methods
  - o CoPP
  - o IP source routing
  - o iACLs
- Management plane protection techniques
  - o CPU
  - o Memory thresholding
  - o Securing device access

- Data plane protection techniques
  - o uRPF
  - o QoS
  - o RTBH
- Layer 2 security techniques
  - o DAI
  - o IPDT
  - o STP security
  - o Port security
  - o DHCP snooping
  - o RA Guard
  - o VACL
- Wireless security technologies
  - o WPA
  - o WPA2
  - o WPA3
- o TKIP
- o AES
- Monitoring protocols
  - o NetFlow/IPFIX/NSEL
  - o SNMP
  - o SYSLOG
  - o RMON
  - o eStreamer

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- Security features to comply with organizational security policies
  - o ISO 27001
  - o RFC 2827
  - o PCI-DSS
- Cisco SAFE model to validate network security design
- Interaction with network devices through APIs usg basc Python
  - o REST API requests and responses
  - ☑ HTTP action verbs, error codes, cookies, headers

  - o Data encoding formats
  - **ISON**

  - **⊠ YAML**
- Cisco DNAC Northbound APIs use cases
  - o Authentication and authorization
  - o Network discovery
  - o Network device
  - o Network host

#### 4. Identity Management, Infrmtn Exchange, & Access Control

- Cisco ISE scalability using multiple nodes and personas
- Cisco switches and Cisco Wireless LAN Controllers
- Cisco devices for administrative access with Cisco ISE
- AAA for network access with 802.1X and MAB using Cisco ISE
- Guest lifecycle management using Cisco ISE and Cisco WLC
- BYOD on-boarding and network access flows
- Cisco ISE integration with external identity sources
  - o LDAP
  - o AD
  - o External RADIUS
- Provisioning Cisco AnyConnect with Cisco ISE and Cisco ASA
- Posture assessment with Cisco ISE
- Endpoint profiling using Cisco ISE & Cisco network infrastrctr
- Integration of MDM with Cisco ISE
- Certification-based authentication using Cisco ISE
- Authentication methods
  - o EAP Chaining and TEAP
  - o MAR
- Identity mapping on Cisco ASA, Cisco ISE, Cisco WSA, & FTD
- PxGrid integration between security devices Cisco WSA,etc
- Integration of Cisco ISE with multifactor authentication
- Access ctrl & single sign-on using Cisco DUO secrty tchnology
- Cisco IBNS 2.0 (C3PL) for authentication, access control, etc

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#### 5. Advanced Threat Protection and Content Security

- Cisco AMP for networks, Cisco AMP for endpoints, & AMP
- Detect, analyze, and mitigate malware incidents
- Perform packet capture and analysis using Wireshark, etc
- Cloud security
  - o DNS proxy through Cisco Umbrella virtual appliance
  - o DNS security policies in Cisco Umbrella
  - o RBI policies in Cisco Umbrella
  - o CASB policies in Cisco Umbrella
  - o DLP policies in Cisco Umbrella
- Web filtering, user identification, and Application Visibility etc

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- WCCP redirection on Cisco devices
- Email security features
  - o Mail policies
  - o DLP
  - o Quarantine
  - o Authentication
  - o Encryption
- HTTP decryption on Cisco FTD, Cisco WSA, & Umbrella
- Cisco SMA for centralized content security management:









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