SCOR – CCNP Security

Zetlan Technologies

Online Course

Course Modules

1. **Security Concepts**
   - Explain common threats against on-premises, hybrid, etc.,
     - o 1.1.a On-premises: viruses, trojans, DoS/DDoS attcks, phishng, etc
     - o 1.1.b Cloud: data breaches, insecure APIs, DoS/DDoS, etc
   - Compare common security vulnerabilities
   - Describe functions of the cryptography components
   - Compare site-to-site and remote access VPN deployment types
   - Describe security intelligence authoring, sharing, & consumption
   - Ctrls usd to protect against phishing & social engineering attacks
   - Explain North Bound & South Bound APIs in the SDN architecture
   - Explain Cisco DNA Center APIs for network provisioning, etc.,
   - Basic Python scripts used to call Cisco Security appliances APIs

2. **Endpoint Protection and Detection**
   - Compare Endpt Protection Pltfrms (EPP) & Endpoint Detection
   - Config endpoint antimalware protectn using Cisco Secure Endpt
   - Config & verify outbreak control and quarantines to limit infection
   - Describe justifications for endpoint-based security
   - The value of endpt device mngmnt & asset inventory systems
   - Describe the uses & importance of a multifactor authentication
   - Endpoint posture assessment solns to ensure endpoint security
   - Explain the importance of an endpoint patching strategy

3. Network Security

- Compare ntwrk security solns that provide intrusion prevention
- Deployment models of network security solns & architectures
- The components, & benefits of NetFlow & Flexible NetFlow rcrds
- Configure and verify network infrastructure security methods
  - o Layer 2 methods Layer 2 and port security; DHCP snooping; etc
  - o Device hardening of network infrastructure security devices
- Segmentation, access control policies, AVC, URL filtering, etc
- Implement management options for network security solutions
- AAA for device and network access such as TACACS+ and RADIUS
- Secure ntwrk mngmnt of perimeter security & infrastrcture dvice
- Configure and verify site-to-site and remote access VPN
  - o Site-to-site VPN using Cisco routers and IOS
  - o Remote access VPN usg Cisco AnyConnect Secure Mobility client
  - o Debug commands to view IPsec tunnel establishment & tshootg

4. Securing the cloud

- Identify security solutions for cloud environments
  - o Public, private, hybrid, and community clouds
  - o Cloud service models: SaaS, PaaS, IaaS (NIST 800-145)
- Compare security responsibility for the diff cloud service models
  - o Patch management in the cloud
  - o Security assessment in the cloud
- Describe the concept of DevSecOps (CI/CD pipeline, etc)
- Implement application and data security in cloud environments
- Security capabilities, deployment models, and policy managemnt
- Configure cloud logging and monitoring methodologies
- Describe application and workload security concepts

5. Content Security

- Implement traffic redirection and capture methods for web proxy
- Describe web proxy identity and authentication
- Com…ponts& benefits of on-premises, hybrid, & cloudbased email
- Config & verify web and email security deployment methods
- Configure and verify email security features like SPAM filtering
- Verify Cisco Umbrella Secure Internet Gateway and web security
- Dscrb the components, capabilities, & benefits of Cisco Umbrella
- Configure and verify web security controls on Cisco Umbrella

6. **Secure Network Access, Visibility, and Enforcement**
   - Identity management and secure network access concepts
   - Configure and verify network access control mechanisms
   - Describe network access with CoA
   - Describe the benefits of device compliance and application cntrl
   - Explain exfiltration techniques (DNS tunnelling, HTTPS, email, etc)
   - Describe the benefits of network telemetry
   - Components, & benefits of these security products and solutions
      o Cisco Secure Network Analytics
      o Cisco Secure Cloud Analytics
      o Cisco pxGrid
      o Cisco Umbrella Investigate
      o Cisco Cognitive Intelligence
      o Cisco Encrypted Traffic Analytics
      o Cisco Secure Client Network Visibility Module (NVM)

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