IINS - IMPLEMENTING CISCO IOS NETWORK SECURITY 3.0

Course Code: 3342

Prepare for the CCNA Security IINS 210-260 exam.

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In this course, you will learn about the design, implementation, and monitoring of a comprehensive security policy using Cisco IOS security features and technologies as examples. You will also learn about security controls of Cisco IOS devices as well as a functional introduction to the Cisco Adaptive Security Appliance (ASA). This course enables you to perform basic tasks to secure a network using Cisco IOS security features, which are available through web-based GUIs on the Cisco ASA, and the command-line interface (CLI) on Cisco routers and switches.

Site-to-site virtual private network (VPN) configuration is covered on both the Cisco IOS and the Cisco ASA. Modern malware examples are included in this course as are cryptographic techniques using stronger hashing and encryption algorithms. Current versions of Cisco IOS, Cisco ASA, and Cisco AnyConnect are featured.

This course supports a certification that is a DoD Approved 8570 Baseline Certification and meets DoD 8140/8570 training requirements.

What You’ll Learn

- Common network security concepts
- Secure routing and switching infrastructure
- Deploy basic authentication, authorization, and accounting services
- Deploy basic firewalling services
• Deploy basic site-to-site and remote access VPN services
• Advanced security services such as intrusion protection, content security and identity management
• Develop a comprehensive network security policy to counter threats against information security
• Configure routers with Cisco IOS software security features, including management and reporting functions
• Bootstrap the Cisco ASA Firewall for use in a production network
• Configure the Cisco ASA Firewall for remote access to a Secure Sockets Layer (SSL) VPN
• Configure a Cisco IOS zone-based firewall (ZBF) to perform basic security operations on a network
• Configure site-to-site VPNs using Cisco IOS features
• Configure security features on IOS switches to mitigate various Layer 2 and Layer 3 attacks
• How a network can be compromised using freely available tools
• Implement line passwords, and enable passwords and secrets
• Examine authentication, authorization, and accounting (AAA) concepts and features using the local database as well as Cisco Secure ACS 5.2
• Configure packet filtering on the perimeter router

Who Needs to Attend
• Network designers
• Network, systems, and security engineers
• Network and security managers

Prerequisites
• Working knowledge of the Windows operating system
• Working knowledge of Cisco IOS networking and concepts
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CLASSROOM LIVE $2,771 USD 5 days

Classroom Live Outline

1. Security Concepts
   • Threatscape
   • Threat defense technologies
   • Security policy and basic security architectures
   • Cryptographic technologies

2. Secure Network Devices
   • Implementing AAA
   • Management protocols and systems
   • Securing the control plane

3. Layer 2 Security
   • Securing Layer 2 infrastructures
   • Securing Layer 2 protocols

4. Firewall
   • Firewall technologies
   • Introducing the Cisco ASA v9.2
   • Cisco ASA access control and service policies
   • Cisco IOS zone based firewall

5. VPN
   • IPsec technologies
   • Site-to-site VPN
   • Client-based remote access VPN
   • Clientless remote access VPN

6. Advanced Topics
   • Intrusion detection and protection
   • Endpoint protection
• Content security
• Advanced network security architectures

Classroom Live Labs

Lab 1: Exploring Cryptographic Technologies
Lab 2: Configure and Verify AAA
Lab 3: Configuration Management Protocols
Lab 4: Securing Routing Protocols
Lab 5: VLAN Security and ACLs on Switches
Lab 6: Port Security and Private VLAN Edge
Lab 7: Securing DHCP, ARP, and STP
Lab 8: Explore Firewall Technologies
Lab 9: Cisco ASA Interfaces and NAT
Lab 10: Access Control Using the Cisco ASA
Lab 11: Exploring Cisco IOS Zone-Based Firewall
Lab 12: Explore IPsec Technologies
Lab 13: IOS-Based Site-to-Site VPN
Lab 1: ASA-Based Site-to-Site VPN
Lab 14: Remote Access VPN: ASA and AnyConnect
Lab 15: Clientless Remote Access VPN
Lab 16: Configure AAA and Secure Remote Administration
Lab 17: Configure Secure Network Management Protocols
Lab 18: Configure Secure EIGRP Routing
Lab 19: Configure Secure Layer 2 Infrastructure
Lab 20: Configure DHCP Snooping and STP Protection
Lab 21: Configure Interfaces and NAT on the Cisco ASA
Lab 22: Configure Network Access Control with the Cisco ASA
Lab 23: Configure Site-to-Site VPN on IOS
Lab 24: Configure AnyConnect Remote Access VPN on ASA
Lab 25: Configure Clientless SSL VPN on the ASA
Dec 2 - 6, 2019 | 8:30 AM - 4:30 PM | WASHINGTON, DC
Feb 3 - 7, 2020 | 8:30 AM - 4:30 PM | RESEARCH TRIANGLE PARK, NC
Mar 2 - 6, 2020 | 8:30 AM - 4:30 PM | SAN JOSE, CA
Mar 9 - 13, 2020 | 8:30 AM - 4:30 PM | WASHINGTON, DC
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VIRTUAL CLASSROOM LIVE $2,771 USD 5 days

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Jan 13 - 17, 2020 | 8:30 AM - 4:30 PM EST
Jan 20 - 24, 2020 | 8:30 AM - 4:30 PM EST
Jan 27 - 31, 2020 | 9:30 AM - 5:30 PM EST
Feb 3 - 7, 2020 | 8:30 AM - 4:30 PM EST
Feb 24 - 28, 2020 | 8:30 AM - 4:30 PM EST
Mar 2 - 6, 2020 | 11:30 AM - 7:30 PM EST
Mar 9 - 13, 2020 | 8:30 AM - 4:30 PM EST
Mar 16 - 20, 2020 | 9:30 AM - 5:30 PM EST
Mar 23 - 27, 2020 | 8:30 AM - 4:30 PM EST
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| ON-DEMAND | $1,000 USD |

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PRIVATE GROUP TRAINING 5 days

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