Implementing Cisco Secure Mobility Solutions (CS-SIMOS) 1.0

Modality: Virtual Classroom

Duration: 3 Days

CLC: 28 Units

About this Course:

The content of this course is designed in a way that leads the students towards the preparation and pursuance of the Cisco Certified Network Professional Security (CCNP Security) certification. The course helps the network security engineers with the skills and expertise in order to secure the data traversing of a public or shared infrastructure such as internet, by employing and maintaining Cisco VPN solutions.

Students and professionals obtain a hands-on experience on the process of configuring and troubleshooting remote access and site-to-site VPN solutions through Cisco ASA adaptive security appliances and Cisco IOS routers.

This course is also pursued by students to prepare for the Cisco: 300-209 SIMOS exam.

This course is also a component of the below stated Boot Camps:

- CS-CCNP-Sec - 14-Day Official CCNP Security + CCNA Security Dual-Certification Boot Camp.

A professional Cisco Systems Network Security Engineer earns an average salary of **$91,175** per year.

Course Objectives:

- Explain the different kinds of VPN technologies and deployments along with the cryptographic algorithms and protocols that regulate the VPN security

- Execute and sustain the Cisco site-to-site VPN solutions

- Incorporate and continue the Cisco FlexVPN in point-to-point, hub-and-spoke, and spoke-to-spoke IPsec VPNs

- Execute and maintain Cisco clientless SSL VPNs

- Execute and sustain the Cisco AnyConnect SSL and IPsec VPNs

- Incorporate and continue the endpoint security and dynamic access policies (DAP)

Audience:

- Network security engineers

Prerequisites:

- Recommended pursuance of Cisco Certified Network Associate (CCNA®) certification

- Recommended pursuance of Cisco Certified Network Associate (CCNA®) Security certification

- An understanding about the Microsoft Windows operating system

Recommended Prerequisite Courses

- CS-CCNA-Sec CCNA Security Boot Camp: Implementing Cisco IOS Network Security (IINS) (CS-CCNA-Sec)

- CS-CCNP-Sec 14-Day Official CCNP Security + CCNA Security Dual-Certification Boot Camp (CS-CCNP-Sec)

Course Outline:

Lesson 1: Fundamentals of VPN Technologies and Cryptography
Lesson 2: Deploying Secure Site-to-Site Connectivity Solutions
Lesson 3: Deploying Cisco IOS Site-to-Site FlexVPN Solutions
Lesson 4: Deploying Basic Cisco Clientless SSL VPN
Lesson 5: Deploying Cisco AnyConnect VPNs
Lesson 6: Deploying Endpoint Security and Dynamic Access Policies
Hands-On Labs

- Lab 1: Implement Site-to-Site Secure Connectivity on the Cisco ASA
- Lab 2: Implement Cisco IOS Static VTI Point-to-Point Tunnel
- Lab 3: Implement DMVPN
- Lab 4: Implement Site-to-Site Secure Connectivity Using Cisco IOS FlexVPN
- Lab 5: Implement Hub-to-Spoke Secure Connectivity Using Cisco IOS Flex VPN
- Lab 6: Implement Spoke-to-Spoke Secure Connectivity Using Cisco IOS Flex VPN
- Lab 7: Implement ASA Basic Clientless SSL VPN
- Lab 8: Application Access Clientless SSL
- Lab 9: Advanced AAA Clientless SSL
- Lab 10: Implement ASA Basic AnyConnect SSL VPN
- Lab 11: Configure Advanced Cisco AnyConnect SSL VPN on Cisco ASA

- Lab 12: Configure Cisco AnyConnect IPsec/IKEv2 VPNs on Cisco ASA
- Lab 13: Configure Advanced Authentication for Cisco AnyConnect VPN on Cisco ASA
- Lab 14: Configure Hostscan and DAP for AnyConnect SSL VPNs

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