Learning Services

Cisco Training on Demand

Implementing Cisco Secure Mobility Solutions (SIMOS)

Overview
Implementing Cisco® Secure Mobility Solutions (SIMOS) Version 1.0 is a Cisco Training on Demand course. It provides you with the knowledge and skills to protect data traversing a public or shared infrastructure, such as the Internet, by implementing and maintaining Cisco VPN solutions. You also gain hands-on experience with configuring and troubleshooting remote access and site-to-site VPN solutions using Cisco adaptive security appliances (ASA) and Cisco IOS® routers.

Interested in purchasing this course in volume at discounts for your company? Contact ctod-sales@cisco.com.

Duration
The SIMOS Cisco Training on Demand course is a self-paced course based on the 5-day instructor-led training version. It consists of 20 sections of instructor video and text totaling more than 9 hours of instruction along with interactive activities, 15 hands-on lab exercises, content review questions, and challenge questions.

Target Audience
The primary audiences for this course are those preparing for the 300-209 SIMOS exam and network security engineers.
Objectives
After completing this course, you should be able to:

- Describe the various VPN technologies and deployments, as well as the cryptographic algorithms and protocols that provide VPN security
- Implement and maintain Cisco site-to-site VPN solutions
- Implement and maintain Cisco FlexVPN in point-to-point, hub-and-spoke, and spoke-to-spoke IPsec VPNs
- Implement and maintain Cisco clientless SSL VPNs
- Implement and maintain Cisco AnyConnect SSL and IP security (IPsec) VPNs
- Implement and maintain endpoint security and dynamic access policies (DAPs)

Course Prerequisites
The knowledge and skills recommended before attending this course are:

- Cisco CCNA® certification
- Cisco CCNA Security certification
- Knowledge of Microsoft Windows operating system

Course Outline
- Course Introduction
- Section 1: The Role of VPNs in Network Security
- Section 2: VPNs and Cryptography
- Section 3: Introducing Cisco Secure Site-to-Site Connectivity Solutions
- Section 4: Deploying Point-to-Point IPsec VPNs on the Cisco ASA
- Section 5: Deploying Cisco IOS VTI-Based Point-to-Point IPsec VPNs
- Section 6: Deploying Cisco IOS DMVPNs
- Section 7: Introducing Cisco FlexVPN Solution
- Section 8: Deploying Point-to-Point IPsec VPNs using Cisco IOS FlexVPN
- Section 9: Deploying Hub-and-Spoke IPsec VPNs using Cisco IOS FlexVPN
- Section 10: Deploying Spoke-to-Spoke IPsec VPNs using Cisco IOS FlexVPN
- Section 11: Clientless SSL VPN Overview
- Section 12: Deploying Basic Cisco Clientless SSL VPN on Cisco ASA
- Section 13: Deploying Application Access in Cisco ASA Clientless SSL VPN
- Section 14: Deploying Advanced Authentication and Authorization in Clientless SSL VPN
- Section 15: Deploying Basic Cisco AnyConnect SSL VPN on Cisco ASA
- Section 16: Deploying Advanced Cisco AnyConnect SSL VPN on Cisco ASA
- Section 17: Deploying Advanced Authentication and Authorization in Cisco AnyConnect VPNs
- Section 18: Deploying Cisco AnyConnect IPSec/IKEv2 VPNs
- Section 19: Implementing Host Scan
- Section 20: Implementing DAP for SSL VPNs
Labs Outline

This course contains 15 hands-on lab exercises.

**Figure 1.** Topology for All Labs in Implementing Cisco Secure Mobility Solutions

The labs included in this course are:

- Discovery Lab 4.11: Implement Site-to-Site Secure Connectivity on Cisco ASA
- Discovery Lab 5.9: Implement Cisco IOS Static VTI Point-to-Point Tunnel
- Discovery Lab 6.12: Implement DMVPN
- Discovery Lab 8.12: Implement Site-to-Site VPN with Cisco IOS FlexVPN using Smart Defaults
- Discovery Lab 8.13: Implement Site-to-Site Secure Connectivity Using Cisco IOS FlexVPN
- Discovery Lab 8.14: Configure Site-to-Site FlexVPN with Asymmetric Authentication
- Discovery Lab 9.9: Implement Hub-to-Spoke Secure Connectivity Using Cisco IOS Flex VPN
- Discovery Lab 10.7: Implement Spoke-to-Spoke Secure Connectivity Using Cisco IOS Flex VPN
- Discovery Lab 12.10: Implement ASA Basic Clientless SSL VPN
- Discovery Lab 13.14: Configure Application Access for Cisco ASA Clientless SSL VPN
- Discovery Lab 14.13: Implement Local and External AAA for Clientless SSL VPNs
- Discovery Lab 15.17: Implement ASA Basic AnyConnect SSL VPN
- Discovery Lab 17.18: Configure Advanced Authentication for Cisco AnyConnect SSL VPN
- Discovery Lab 18.8: Implement AnyConnect IPSec/IKEv2
- Discovery Lab 20.13: Implement Host Scan and DAP
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