

Cisco® Implementing Cisco® Secure Mobility Solutions v1.0 (SIMOS)

Course Overview

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This is a 5-day class

Implementing Cisco Secure Mobility Solutions (SIMOS) v1.0 is a course that is part of the curriculum path leading to the Cisco Certified Network Professional Security (CCNP Security) certification. This course is designed to prepare network security engineers with the knowledge and skills they need to protect data traversing a public or shared infrastructure such as the Internet by implementing and maintaining Cisco VPN solutions.



Who Should Attend

Network Security Engineers

Course Objectives

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 IPsec VPNs. Implement and maintain endpoint security and dynamic access policies (DAP).

Other Prerequisites

Cisco Certified Network Associate (CCNA) certification
Cisco Certified Network Associate (CCNA) Security certification
Knowledge of Microsoft Windows operating system

Course Outline

1 Course Introduction

2 Fundamentals of VPN Technologies and Cryptography

Lesson 1: The Role of VPNs in Network Security
Lesson 2: VPNs and Cryptography

3 Deploying Secure Site-to-Site Connectivity Solutions

Lesson 1: Introducing Cisco Secure Site-to-Site Connectivity Solutions
Lesson 2: Deploying Point-to-Point IPsec VPNs on the Cisco ASA
Lesson 3: Deploying Cisco IOS VTI-Based Point-to-Point IPsec VPNs
Lesson 4: Deploying Cisco IOS DMVPNs

4 Deploying Cisco IOS Site-to-Site Flex VPN Solutions

Lesson 1: Introducing Cisco FlexVPN Solution
Lesson 2: Deploying Point-to-Point IPsec VPNs Using Cisco IOS FlexVPN
Lesson 3: Deploying Hub-and-Spoke IPsec VPNs Using Cisco IOS FlexVPN
Lesson 4: Deploying Spoke-to-Spoke IPsec VPNs Using Cisco IOS FlexVPN



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5 Deploying Clientless SSL VPN

Lesson 1: Clientless SSL VPN Overview
Lesson 2: Deploying Basic Cisco Clientless SSL VPN
Lesson 3: Deploying Application Access in Clientless SSL VPN
Lesson 4: Deploying Advanced Authentication in Clientless SSL VPN

6 Deploying AnyConnect VPN for Remote Access

Lesson 1 Overview of Cisco AnyConnect VPNs
Lesson 2 Deploying Basic Cisco AnyConnect SSL VPN on Cisco ASA
Lesson 3 Deploying Advanced Cisco AnyConnect SSL VPN on Cisco ASA
Lesson 4 Deploying Cisco AnyConnect IPsec/IKEv2 VPNs
Lesson 5 Deploying Advanced Authentication, Authorization, and Accounting in Cisco AnyConnect VPNs

7 Deploying Endpoint Security and Dynamic Access Policies & Lab Guide

Lesson 1: Implementing Host Scan
Lesson 2: Implementing DAP for SSL VPNs