

SVPN

Implementing Secure Solutions with Virtual Private Networks

40 horas

Security

Cisco

Cisco Continuing Education Credits

40 CE Credits

INTRODUÇÃO

The Implementing Secure Solutions with Virtual Private Networks (SVPN) v1.0 course teaches you how to implement, configure, monitor, and support enterprise Virtual Private Network (VPN) solutions. Through a combination of lessons and hands-on experiences you will acquire the knowledge and skills to deploy and troubleshoot traditional Internet Protocol Security (IPsec), Dynamic Multipoint Virtual Private Network (DMVPN), FlexVPN, and remote access VPN to create secure and encrypted data, remote accessibility, and increased privacy.

This course will prepare you for the 300-730 Implementing Secure Solutions with Virtual Private Networks (SVPN) exam.

The 300-730 SVPN exam certifies your knowledge and skills related to implementing secure remote communications with Virtual Private Network (VPN) solutions including secure communications, architectures, and troubleshooting.

After you pass 300-730 SVPN exam, you earn the Cisco® Certified Specialist - Network Security VPN Implementation and you satisfy the concentration exam requirement for this professional-level certification.

OBJETIVO DO CURSO

This course will help you:

- Acquire the knowledge and skills to enhance Internet privacy, speed, and performance using VPN technologies;
- Gain hands-on experience using the tools to ensure the best practices VPN data security;
- Prepare for the 300-730 SVPN exam.

After taking this course, you should be able to:

- Introduce site-to-site VPN options available on Cisco router and firewalls;
- Introduce remote access VPN options available on Cisco router and firewalls;
- Review site-to-site and remote access VPN design options;
- Review troubleshooting processes for various VPN options available on Cisco router and firewalls.

PÚBLICO-ALVO

- Security or network professionals seeking knowledge to design, install, configure, operate, and support Cisco VPN Solutions;
- Professionals who need to prepare for the Cisco 300-730 certification exam.

PRÉ-REQUISITOS

Before taking this course, you should have the following knowledge and skills:

- Familiarity with the various Cisco router and firewall command modes;
- Experience navigating and managing Cisco routers and firewalls;
- Basic knowledge about site-to-site and Remote Access VPN options.

It is recommended that you have the knowledge covered by the training below:

- Implementing and Administering Cisco Solutions (CCNA®);
- Implementing and Operating Cisco Security Core Technologies (SCOR).

Course Introduction

Course Overview

Course Goal and Objectives

Introducing VPN Technology Fundamentals

Role of VPNs in Network Security

VPNs and Cryptography

Types of VPNs, their role in security, and cryptographic components

Implementing Site-to-Site VPN Solutions

Site-to-Site VPN Solutions Overview

Cisco IOS VPN Point-to-Point Solutions

Describe, implement, and troubleshoot basic point-to-point IPsec VPNs on Cisco IOS routers

Cisco ASA VPN Point-to-Point Solutions

Describe, implement, and troubleshoot point-to-point IPsec VPNs on Cisco ASAs

Cisco IOS VTI Point-to-Point Solutions

Describe, implement, and troubleshoot basic point-to-point IPsec VPNs on Cisco IOS routers

Cisco DMVPN Solutions

Describe, implement, and troubleshoot Cisco IOS DMVPNs

Implementing Cisco IOS Site-to-Site FlexVPN Solutions

Overview of the Cisco FlexVPN Solution

FlexVPN architecture, use cases, basic configuration, and key components

Cisco Point-to-Point FlexVPN

Describe and implement Cisco IOS VPN Point-to-Point VPNs

Cisco Hub-and-Spoke FlexVPN

Describe and implement Cisco IOS VPN Hub and Spoke VPNs

Cisco Spoke-to-Spoke FlexVPN

Describe and implement Cisco IOS VPN Spoke to Spoke VPNs

Implementing Cisco IOS GET VPN Solutions

Implement and verify GET VPN in enterprise/service provider environments

Overview of Cisco GET VPN Solution

Describe GET VPN benefits, technology, and protocols

Configure GET VPN

Describe and implement Cisco GET VPN solutions

Implementing Cisco AnyConnect VPNs

Implement, and maintain Cisco AnyConnect client-based SSL/IPsec VPNs on Cisco ASA

Remote Access Overview

Design Remote Access Solutions

Describe AnyConnect remote access solution options and best practices

Basic Cisco AnyConnect VPN on Cisco ASA

Configure, verify, and troubleshoot a basic Cisco AnyConnect SSL VPN on Cisco ASA

Advanced Cisco AnyConnect TLS VPN on Cisco ASA

Configure, verify, and troubleshoot advanced features of Cisco AnyConnect SSL VPNs

Advanced AAA in Cisco AnyConnect VPNs

Configure, verify, and troubleshoot advanced AAA in Cisco AnyConnect VPNs

Cisco AnyConnect IKEv2 VPNs

Implementing Clientless VPNs

Describe, implement, and troubleshoot Clientless remote access VPNs

Remote Access Clientless Overview

Design Remote Access Clientless Solutions

Describe remote access solution options and best practices

Clientless TLS VPN Overview

Describe clientless SSL and TLS protocol

Basic Cisco AnyConnect TLS VPN on Cisco ASA

Configure and verify baseline clientless SSL VPN remote-access on Cisco ASA

Application Access in Cisco ASA Clientless VPN

Deploy and manage advanced application-access features of a clientless Cisco SSL VPN

Advanced AAA in Clientless VPN

Deploy and manage advanced AAA features of a clientless Cisco SSL VPN.

Lab Outline

Lab 1: Explore IPsec Technologies

Lab 2: Implement and Verify Cisco IOS Point-to-Point VPN

Lab 3: Implement and Verify Cisco ASA Point-to-Point VPN

Lab 4: Implement and Verify Cisco IOS VTI VPN

Lab 5: Implement and Verify DMVPN

Lab 6: Troubleshoot DMVPN

Lab 7: Implement and Verify FlexVPN with Smart Defaults

Lab 8: Implement and Verify Point-to-Point FlexVPN

Lab 9: Implement and Verify Hub-and-Spoke FlexVPN

Lab 10: Implement and Verify Spoke-to-Spoke FlexVPN

Lab 11: Troubleshoot Cisco IOS FlexVPN

Lab 12: Implement and Verify Cisco AnyConnect TLS VPN on ASA

Lab 13: Implement and Verify Advanced AAA on Cisco AnyConnect VPN

Lab 14: Implement and Verify Clientless VPN on ASA