

Implementing Secure Solutions with Virtual Private Networks

Durée: 180 Jours **Réf de cours: SVPN** **Version: 1.0** **Méthodes d'apprentissage: E-learning**

Résumé:

The Implementing Secure Solutions with Virtual Private Networks (SVPN) 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.

Associated Certifications: CCNP Security, Cisco Certified Specialist - Network Security VPN Implementation

Associated Exams: 300-730 SVPN

Duration: This is the elearning equivalent of a 5 day ILT course.

Public visé:

Network engineers responsible for selecting, designing and deploying secure solutions using VPNs

Objectifs pédagogiques:

- **After completing 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

Pré-requis:

Attendees should meet the following prerequisites:

- Familiarity with the various Cisco router and firewall command modes
- Experience navigating and managing Cisco routers and firewalls
- Clear understanding of the benefits of site-to-site and Remote Access VPN options
- CCNA - Mettre en oeuvre et administrer des solutions réseaux Cisco
- SCOR - Mettre en oeuvre et gérer les solutions de sécurité Cisco

Test et certification

Recommended as preparation for the following exams:

- **300-730** - Implementing Secure Solutions with Virtual Private Networks (SVPN) exam.
After you pass the **300-730 SVPN** exam, you will earn the Cisco® Certified Specialist - Network Security VPN Implementation certification and satisfy the concentration exam requirement for the CCNP Security certification.

Contenu:

Introducing VPN Technology Fundamentals

- Role of VPNs in Network Security
- VPNs and Cryptography

Implementing Site-to-Site VPN Solutions

- Site-to-Site VPN Solutions Overview
- Cisco IOS VPN Point-to-Point Solutions
- Cisco ASA VPN Point-to-Point Solutions
- Cisco IOS VTI Point-to-Point Solutions
- Cisco DMVPN Solutions

Implementing Cisco Internetwork Operating System (Cisco IOS®) Site-to-Site FlexVPN Solutions

- Overview of the Cisco FlexVPN Solution
- Point-to-Point Flex VPN
- Hub-and-Spoke FlexVPN
- Spoke-to-Spoke FlexVPN

Implement Cisco IOS Group Encrypted Transport (GET) VPN Solutions

- Overview of Cisco GET VPN Solution
- Configure GET VPN

Implementing Cisco AnyConnect VPNs

- Remote Access Overview
- Design Remote Access Solutions
- Basic Cisco AnyConnect VPN on Cisco ASA
- Advanced Cisco AnyConnect TLS VPN on Cisco ASA
- Advanced AAA in Cisco AnyConnect VPNs
- Cisco AnyConnect IKEv2 VPNs

Implementing Clientless VPNs

- Remote Access Overview
- Design Remote Access Solutions
- Clientless TLS VPN Overview
- Basic Cisco AnyConnect TLS VPN on Cisco ASA
- Application Access in Cisco ASA Clientless VPN
- Advanced AAA in Clientless VPN

Labs

- Explore IPsec Technologies
- Implement and Verify Cisco IOS Point-to-Point VPN
- Implement and Verify Cisco Adaptive Security Appliance (ASA) Point-to-Point VPN
- Implement and Verify Cisco IOS Virtual Tunnel Interface (VTI) VPN
- Implement and Verify Dynamic Multipoint VPN (DMVPN)
- Troubleshoot DMVPN
- Implement and Verify FlexVPN with Smart Defaults
- Implement and Verify Point-to-Point FlexVPN
- Implement and Verify Hub and Spoke FlexVPN
- Implement and Verify Spoke-to-Spoke FlexVPN
- Troubleshoot Cisco IOS FlexVPN
- Implement and Verify AnyConnect Transport Layer Security (TLS) VPN on ASA
- Implement and Verify Advanced Authentication, Authorization, and Accounting (AAA) on AnyConnect VPN
- Implement and Verify Clientless VPN on ASA