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Implementing Secure Solutions with Virtual Private Networks (SVPN) v1.0

Duration: 5 Days

Prerequisites:

To fully benefit from 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
- Clear understanding of the benefits of site-to-site and Remote Access VPN options

The following Cisco trainings can help you gain the knowledge you need to prepare for this training:

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

Course Description:

The Implementing Secure Solutions with Virtual Private Networks (SVPN) v1.0 training 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 training will prepare you for the 300-730 Implementing Secure Solutions with Virtual Private Networks (SVPN) exam. This training also earns you 40 Continuing Education (CE) credits towards recertification.

Course Objectives:

After taking this training, 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

Intended Audience:

This training is designed for professionals in the following job roles:

- Network security engineer
- CCNP Security candidate
- Channel Partner

Course Outline:

- Introducing VPN Technology Fundamentals
- Implementing Site-to-Site VPN Solutions
- Implementing Cisco Internetwork Operating System (Cisco IOS) Site-to-Site FlexVPN Solutions
- Implement Cisco IOS Group Encrypted Transport (GET) VPN Solutions
- Implementing Cisco AnyConnect VPNs
- Implementing Clientless VPNs

Lab outline

- 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 Cisco AnyConnect VPN
- Implement and Verify Clientless VPN on ASA

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