

Implementing IPsec with Dynamic (DMVPN) and GET VPN's (GETVPN)

5 Day Course

Locations: Mex, D.F.

Date:

Who Needs to Attend

Individuals who possess a general networking background.

Targeted learners perform jobs in engineering support, development test engineering and other technical areas that may have a need to monitor and enhance security network

Prerequisites

Network professionals with a good working knowledge of TCP/IP protocols.

CCNA (recommended but not required).



Upon completing this course, the learner will be able to develop a comprehensive network security policy to counter threats against information security, configure routers on the network perimeter, configure site-to-site VPNs using DMVPN solution and configure site-to-site VPNs GET VPN Solution.

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1. Introduction to Network Security Principles

- Examining Network Security Fundamentals
- Examining Network Attack Methodologies
- The Principles of Defense in Depth
- Examining Operations Security
- Understanding and Developing a Comprehensive Network Security Policy
- Self-Defending Networks

2. Fundamentals of Cryptography

- Examining Cryptographic Services
- Examining Symmetric Encryption
- Examining Cryptographic Hashes and Digital Signatures
- Examining Asymmetric Encryption and PKI

3. Site-to-Site VPNs Overview

- Introducing IPsec
- IPsec Protocol Framework
- IKE Protocol
- Building a Site-to-Site IPsec VPN
- Configuring IPsec on a Site-to-Site VPN

4. Dynamic Multipoint VPN (DMVPN)

- DMVPN Design Overview
- DMVPN Design and Implementation
- Dual DMVPN Hub-and-Spoke
- Generic Routing Encapsulation
- Next Hop Resolution Protocol
- ISAKMP Policy Configuration
- IPsec Transform and Protocol Configuration
- NHRP Configuration
- Routing Protocol Configuration

5. Group Encrypted Transport VPN (GET VPN)

- Key GET VPN Benefits
- Technology Overview
- Tunnel Header Preservation
- GET VPN Solution Positioning
- GET VPN Solution Comparison
- Implementing GET VPN
- KS Configuration
- GM Configuration
- System Design
- ISAKMP IPsec
- Enterprise Deployment
- Common GET VPN Branch Deployment Features