

Chris Ellis

Networking JumpStart For Busy People

Vol III - IPSec-based VPNs

Part of the Networking JumpStart Video Series

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Approximate duration: 1.25 hours

Defining a VPN—A look at the various VPN models including Frame Relay, MPLS, PPTP, L2TP (voluntary and compulsory modes), and IPSec.

IPSec from 5000 feet—Main features of IPSec: Encryption, Authentication, Key Management, and Security Associations.

A Primer on Encryption—Hacking encrypted messages; IPSec encryption based on XOR (the Exclusive-Or); Symmetrical vs. Asymmetrical keys.

AH Protocol Details—Authentication Header's main functions, MDs compared to MACs and HMACs; Inside the AH header; Authentication protocols SHA-1, MD5.

ESP Protocol Details—ESP's main functions; ESP header & trailer details; Encryption protocols DES, 3DES, AES.

Transport Mode Operations—Portions of IP datagram authenticated in Transport mode; Portions of IP datagram encrypted in Transport mode.

Tunnel Mode Operations—Portions of IP datagram authenticated in Tunnel mode; Portions of IP datagram encrypted in Tunnel mode.

Internet Key Exchange—An overview to IKE; The Diffie-Hellman method algorithm explained; IKE Security Associations (SAs)

Creating Secure Tunnels—IKE Phase I-Main Mode; Establishing an IKE SA; IKE Phase II-Quick Mode; Split tunnels; IKE Aggressive Mode: advantages and disadvantages.

Yes, I want to JumpStart today!

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- Video \$249 + \$11 shipping = \$260
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