A Technical Guide to
IPSec Virtual Private Networks

JAMES S. TILLER

Technical Guide To Ipsec Virtual Private Networks

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Technical Guide To Ipsec Virtual Private Networks:

    A Technical Guide to IPSec Virtual Private Networks James S. Tiller,2017-07-27 What is IPSec What s a VPN Why do the need each other Virtual Private Network VPN has become one of the most recognized terms in our industry yet there continuously seems to be different impressions of what VPNs really are and can become A Technical Guide to IPSec Virtual Private Networks provides a single point of information that represents hundreds or resources and years of experience with IPSec VPN solutions It cuts through the complexity surrounding IPSec and the idiosyncrasies of design implementation operations and security Starting with a primer on the IP protocol suite the book travels layer by layer through the protocols and the technologies that make VPNs possible It includes security theory cryptography RAS authentication IKE IPSec encapsulation keys and policies After explaining the technologies and their interrelationships the book provides sections on implementation and product evaluation A Technical Guide to IPSec Virtual Private Networks arms information security network and system engineers and administrators with the knowledge and the methodologies to design and deploy VPNs in the real world for real companies   IKEv2 IPsec Virtual Private Networks Graham Bartlett,Amjad Inamdar,2016-08-10 Create and manage highly secure Ipsec VPNs with IKEv2 and Cisco FlexVPN The IKEv2 protocol significantly improves VPN security and Cisco s FlexVPN offers a unified paradigm and command line interface for taking full advantage of it Simple and modular FlexVPN relies extensively on tunnel interfaces while maximizing compatibility with legacy VPNs Now two Cisco network security experts offer a complete easy tounderstand and practical introduction to IKEv2 modern IPsec VPNs and FlexVPN The authors explain each key concept and then guide you through all facets of FlexVPN planning deployment migration configuration administration troubleshooting and optimization You ll discover how IKEv2 improves on IKEv1 master key IKEv2 features and learn how to apply them with Cisco FlexVPN IKEv2 IPsec Virtual Private Networks offers practical design examples for many common scenarios addressing IPv4 and IPv6 servers clients NAT pre shared keys resiliency overhead and more If you re a network engineer architect security specialist or VPN administrator you ll find all the knowledge you need to protect your organization with IKEv2 and FlexVPN Understand IKEv2 improvements anti DDoS cookies configuration payloads acknowledged responses and more Implement modern secure VPNs with Cisco IOS and IOS XE Plan and deploy IKEv2 in diverse real world environments Configure IKEv2 proposals policies profiles keyrings and authorization Use advanced IKEv2 features including SGT transportation and IKEv2 fragmentation Understand FlexVPN its tunnel interface types and IOS AAA infrastructure Implement FlexVPN Server with EAP authentication pre shared keys and digital signatures Deploy configure and customize FlexVPN clients Configure manage and troubleshoot the FlexVPN Load Balancer Improve FlexVPN resiliency with dynamic tunnel source backup peers and backup tunnels Monitor IPsec VPNs with AAA SNMP and Syslog Troubleshoot connectivity tunnel creation authentication authorization data encapsulation data encryption and overlay routing Calculate IPsec overhead and fragmentation Plan your IKEv2 migration hardware VPN

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private networking in a series of articles published over five years ago and in the intervening years this has become a very hot topic with the technology being increasing deployed by companies Virtual Private Networking by Gilbert Held covers the technology and the theory but also shows readers through numerous examples how to use the technology

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