IPsec Virtual Private Network Fundamentals

An introduction to VPNs

James Henry Carmouche, CCIE® No. 6085

Ipsec Virtual Private Network Fundamentals James Henry Carmouche

Carmouche

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  IPSec Virtual Private Network Fundamentals James Henry Carmouche,2006-07-19 An introduction to designing and configuring Cisco IPsec VPNs Understand the basics of the IPsec protocol and learn implementation best practices Study up to date IPsec design incorporating current Cisco innovations in the security and VPN marketplace Learn how to avoid common pitfalls related to IPsec deployment Reinforce theory with case studies configuration examples showing how IPsec maps to real world solutions IPsec Virtual Private Network Fundamentals provides a basic working knowledge of IPsec on various Cisco routing and switching platforms It provides the foundation necessary to understand the different components of Cisco IPsec implementation and how it can be successfully implemented in a variety of network topologies and markets service provider enterprise financial government This book views IPsec as an emerging requirement in most major vertical markets explaining the need for increased information authentication confidentiality and non repudiation for secure transmission of confidential data The book is written using a layered approach starting with basic explanations of why IPsec was developed and the types of organizations relying on IPsec to secure data transmissions It then outlines the basic IPsec ISAKMP fundamentals that were developed to meet demand for secure data transmission The book covers the design and implementation of IPsec VPN architectures using an array of Cisco products starting with basic concepts and proceeding to more advanced topics including high availability solutions and public key infrastructure PKI Sample topology diagrams and configuration examples are provided in each chapter to reinforce the fundamentals expressed in text and to assist readers in translating concepts into practical deployment scenarios Additionally comprehensive case studies are incorporated throughout to map topics to real world solutions   IPv6 Fundamentals Rick Graziani,2017-06-06 Organizations are increasingly transitioning to IPv6 the next generation protocol for defining how devices of all kinds communicate over networks Now fully updated IPv6 Fundamentals offers a thorough friendly and easy to understand introduction to the knowledge and skills you need to deploy and operate IPv6 networks Leading networking instructor Rick Graziani explains all the basics simply and clearly step by step providing all the details you ll need to succeed You ll learn why IPv6 is necessary how it was created how it works and how it has become the protocol of choice in environments ranging from cloud to mobile and IoT Graziani thoroughly introduces IPv6 addressing configuration options and routing protocols including EIGRP for IPv6 and OSPFv3 traditional configuration and with address families Building on this coverage he then includes more in depth information involving these protocols and processes This edition contains a completely revamped discussion of deploying IPv6 in your network including IPv6 IPv4 integration dynamic address allocation and understanding IPv6 from the perspective of the network and host You ll also find improved coverage of key topics such as Stateless Address Autoconfiguration SLAAC DHCPv6 and the advantages of the solicited node multicast address Throughout Graziani presents command syntax for Cisco IOS Windows Linux and Mac OS as well as many examples diagrams configuration tips and

updated links to white papers and official RFCs for even deeper understanding Learn how IPv6 supports modern networks encompassing the cloud mobile IoT and gaming devices Compare IPv6 with IPv4 to see what has changed and what hasn t Understand and represent IPv6 addresses for unicast multicast and anycast environments Master all facets of dynamic IPv6 address allocation with SLAAC stateless DHCPv6 and stateful DHCPv6 Understand all the features of deploying IPv6 addresses in the network including temporary addresses and the privacy extension Improve operations by leveraging major enhancements built into ICMPv6 and ICMPv6 Neighbor Discovery Protocol Configure IPv6 addressing and Access Control Lists using a common topology Implement routing of IPv6 packets via static routing EIGRP for IPv6 and OSPFv3 Walk step by step through deploying IPv6 in existing networks and coexisting with or transitioning from IPv4   IPv6 Security Scott Hogg,Eric Vyncke,2008-12-11 IPv6 Security Protection measures for the next Internet Protocol As the world s networks migrate to the IPv6 protocol networking professionals need a clearer understanding of the security risks threats and challenges this transition presents In IPv6 Security two of the world s leading Internet security practitioners review each potential security issue introduced by IPv6 networking and present today s best solutions IPv6 Security offers guidance for avoiding security problems prior to widespread IPv6 deployment The book covers every component of today s networks identifying specific security deficiencies that occur within IPv6 environments and demonstrating how to combat them The authors describe best practices for identifying and resolving weaknesses as you maintain a dual stack network Then they describe the security mechanisms you need to implement as you migrate to an IPv6 only network The authors survey the techniques hackers might use to try to breach your network such as IPv6 network reconnaissance address spoofing traffic interception denial of service and tunnel injection The authors also turn to Cisco products and protection mechanisms You learn how to use Cisco IOS and ASA firewalls and ACLs to selectively filter IPv6 traffic You also learn about securing hosts with Cisco Security Agent 6 0 and about securing a network with IOS routers and switches Multiple examples are explained for Windows Linux FreeBSD and Solaris hosts The authors offer detailed examples that are consistent with today s best practices and easy to adapt to virtually any IPv6 environment Scott Hogg CCIE No 5133 is Director of Advanced Technology Services at Global Technology Resources Inc GTRI He is responsible for setting the company s technical direction and helping it create service offerings for emerging technologies such as IPv6 He is the Chair of the Rocky Mountain IPv6 Task Force Eric Vyncke Cisco Distinguished System Engineer consults on security issues throughout Europe He has 20 years experience in security and teaches security seminars as a guest professor at universities throughout Belgium He also participates in the Internet Engineering Task Force IETF and has helped several organizations deploy IPv6 securely Understand why IPv6 is already a latent threat in your IPv4 only network Plan ahead to avoid IPv6 security problems before widespread deployment Identify known areas of weakness in IPv6 security and the current state of attack tools and hacker skills Understand each high level approach to securing IPv6 and learn when to use each Protect service provider networks

perimeters LANs and host server connections Harden IPv6 network devices against attack Utilize IPsec in IPv6 environments Secure mobile IPv6 networks Secure transition mechanisms in use during the migration from IPv4 to IPv6 Monitor IPv6 security Understand the security implications of the IPv6 protocol including issues related to ICMPv6 and the IPv6 header structure Protect your network against large scale threats by using perimeter filtering techniques and service provider focused security practices Understand the vulnerabilities that exist on IPv6 access networks and learn solutions for mitigating each This security book is part of the Cisco Press Networking Technology Series Security titles from Cisco Press help networking professionals secure critical data and resources prevent and mitigate network attacks and build end to end self defending networks Category Networking Security Covers IPv6 Security **Fusion of Smart, Multimedia and Computer Gaming Technologies** Dharmendra Sharma,Margarita Favorskaya,Lakhmi C. Jain,Robert J. Howlett,2015-02-11 This monograph book is focused on the recent advances in smart multimedia and computer gaming technologies The Contributions include Smart Gamification and Smart Serious Games Fusion of secure IPsec based Virtual Private Network mobile computing and rich multimedia technology Teaching and Promoting Smart Internet of Things Solutions Using the Serious game Approach Evaluation of Student Knowledge using an e Learning Framework The iTEC Eduteka 3D Virtual Worlds as a Fusion of Immersing Visualizing Recording and Replaying Technologies Fusion of multimedia and mobile technology in audio guides for Museums and Exhibitions from Bluetooth Push to Web Pull The book is directed to researchers students and software developers working in the areas of education and information technologies *IPsec Virtual Private Network Fundamentals* Carmouche,1900 This is the eBook version of the printed book If the print book includes a CD ROM this content is not included within the eBook version An introduction to designing and configuring Cisco IPsec VPNs Understand the basics of the IPsec protocol and learn implementation best practices Study up to date IPsec design incorporating current Cisco innovations in the security and VPN marketplace Learn how to avoid common pitfalls related to IPsec deployment Reinforce theory with case studies configuration examples showing how IPsec maps to real world solutions IPsec Virtual Private N The British National Bibliography Arthur James Wells,2007 Data Mining, Intrusion Detection, Information Assurance, and Data Networks Security ... ,2007 **IPsec Virtual Private Network Fundamentals** ,2007 **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 technologies routing restrictions capacity PKI authentication availability and more **IKEv2 IPsec Virtual Private Networks** Graham Bartlett. Amjad Inamdar,2016

IPSec VPN Design Vijay Bollapragada,Mohamed Khalid,Scott Wainner,2005-03-29 The definitive design and deployment guide for secure virtual private networks Learn about IPSec protocols and Cisco IOS IPSec packet processing Understand the differences between IPSec tunnel mode and transport mode Evaluate the IPSec features that improve VPN scalability and fault tolerance such as dead peer detection and control plane keepalives Overcome the challenges of working with NAT and PMTUD Explore IPSec remote access features including extended authentication mode configuration and digital certificates Examine the pros and cons of various IPSec connection models such as native IPSec GRE and remote access Apply fault tolerance methods to IPSec VPN designs Employ mechanisms to alleviate the configuration complexity of a large scale IPSec VPN including Tunnel End Point Discovery TED and Dynamic Multipoint VPNs DMVPN Add services to IPSec VPNs including voice and multicast Understand how network based VPNs operate and how to integrate IPSec VPNs with MPLS VPNs Among the many functions that networking technologies permit is the ability for organizations to easily and securely communicate with branch offices mobile users telecommuters and business partners Such connectivity is now vital to maintaining a competitive level of business productivity Although several technologies exist that can enable interconnectivity among business sites Internet based virtual private networks VPNs have evolved as the most effective means to link corporate network resources to remote employees offices and mobile workers VPNs provide productivity enhancements efficient and convenient remote access to network resources site to site connectivity a high level of security and tremendous cost savings IPSec VPN Design is the first book to present a detailed examination of the design aspects of IPSec protocols that enable secure VPN communication Divided into three parts the book provides a solid understanding of design and architectural

issues of large scale secure VPN solutions Part I includes a comprehensive introduction to the general architecture of IPSec including its protocols and Cisco IOS IPSec implementation details Part II examines IPSec VPN design principles covering hub and spoke full mesh and fault tolerant designs This part of the book also covers dynamic configuration models used to simplify IPSec VPN designs Part III addresses design issues in adding services to an IPSec VPN such as voice and multicast This part of the book also shows you how to effectively integrate IPSec VPNs with MPLS VPNs IPSec VPN Design provides you with the field tested design and configuration advice to help you deploy an effective and secure VPN solution in any environment This security book is part of the Cisco Press Networking Technology Series Security titles from Cisco Press help networking professionals secure critical data and resources prevent and mitigate network attacks and build end to end self defending networks   Guide to IPsec VPNs :. Sheila Frankel,2005   **Day One** Johan Andersson,2018-06   **Guide to IPsec VPNs** ,2002   **Guide to IPsec VPNs** Sheila Frankel,2005   *Implementing Cisco VPNs* Adam Quiggle,2001 Experienced network professionals can use this reader friendly handbook to prepare for the Cisco CCIE exam and to learn about Cisco VPNs   *Troubleshooting Virtual Private Networks* Mark Lewis,2004 Learn the troubleshooting techniques that every IT professional running a Virtual Private Network VPN must master Experience real world solutions through practice scenarios in each chapter An essential workplace reference guide for every VPN management site   **Cisco Secure Virtual Private Networks** Andrew G. Mason,2002 Based on the official instructor led training course of the same name in a self study product Cisco Secure Virtual Private Networks is a comprehensive results oriented book designed to give readers the knowledge to plan administer and maintain a Virtual Private Network VPN Readers are taught to accomplish several specific tasks including identifying the features functions and benefits of Cisco Secure VPN products identifying the component technologies implemented in Cisco Secure VPN products utilizing commands required to configure and test IPSec in Cisco IOS software and PIX Firewalls installing and configuring the Cisco VPN Client to create a secure tunnel to a Cisco VPN Concentrator and PIX Firewall configuring and verifying IPSec in the Cisco VPN Concentrator Cisco router and PIX Firewall and configuring the Cisco VPN Concentrator Cisco router and PIX Firewall for interoperability   **Pierre-Aristide Bréal** ,1965   **Comparing, Designing, and Deploying VPNs** Mark Lewis (CCIE.),2006 A detailed guide for deploying PPTP L2TPv2 L2TPv3 MPLS Layer 3 AToM VPLS and IPSec virtual private networks

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