# Vpns Illustrated Tunnels Vpns And Ipsec

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virtual private networks vpns based on the internet instead of the traditional leased lines offer organizations of all sizes the promise of a low cost secure electronic network however using the internet to carry sensitive information can present serious privacy and security problems by explaining how vpns actually work networking expert jon snader shows software engineers and network administrators how to use tunneling authentication and encryption to create safe effective vpns for any environment using an example driven approach vpns illustrated explores how tunnels and vpns function by observing their behavior on the wire by learning to read and interpret various network traces such as those produced by tcpdump readers will be able to better understand and troubleshoot vpn and network behavior specific topics covered include block and stream symmetric ciphers such as aes and rc4 and asymmetric ciphers such as rsa and eigamal message authentication codes including hmacs tunneling technologies based on gtunnel ssl protocol for building network to network vpns ssh protocols as drop in replacements for telnet ftp and the bsd r

commands lightweight vpns including vtun cipe tinc and openvpn ipsec including its authentication header ah protocol encapsulating security payload esp and ike the key management protocol packed with details the text can be used as a handbook describing the functions of the protocols and the message formats that they use source code is available for download and an appendix covers publicly available software that can be used to build tunnels and analyze traffic flow vpns illustrated gives you the knowledge of tunneling and vpn technology you need to understand existing vpn implementations and successfully create your own

network security firewalls and vpns third edition provides a unique in depth look at the major business challenges and threats that are introduced when an organization s network is connected to the public internet

identifies how to secure local and internet communications with a vpn

the book is intended for the undergraduate and postgraduate students of computer science and engineering and information technology and the students of master of computer applications the purpose of this book is to introduce this subject as a comprehensive text which is self contained and covers all the aspects of network security each chapter is divided into sections and subsections to facilitate design of the curriculum as per the academic needs the text contains numerous examples and illustrations that enhance conceptual clarity each chapter has set of problems at the end of chapter that inspire the reader to test his understanding of the subject answers to most of the problems are given at the end of the book key features the subject matter is illustrated with about 200 figures and numerous examples at every stage of learning the list of recommended books technical articles and standards is included chapter wise at the end of the book an exhaustive glossary and a list of frequently used acronyms are also given the book is based on the latest versions of the protocols tls ike ipsec s mime kerberos x 509 etc

develop and implement an effective end to end security program today s complex world of mobile platforms cloud computing and ubiquitous data access puts new security demands on every it professional information security the complete reference second edition previously titled network security the complete reference is the only comprehensive book that offers vendor neutral details on all aspects of information protection with an eye toward the evolving threat landscape thoroughly revised and expanded to cover all aspects of modern information security from concepts to details this edition provides a one stop reference equally applicable to the beginner and the seasoned professional find out how to build a holistic security program based on proven methodology risk analysis compliance and business needs you ll learn how to successfully protect data networks computers and applications in depth chapters cover data protection encryption information rights management network security intrusion detection and prevention unix and windows security virtual and cloud security secure application development disaster recovery forensics and real world attacks and countermeasures included is an extensive security glossary as well as standards based references this is a great resource for professionals and students alike understand security concepts and building blocks identify vulnerabilities and mitigate risk optimize authentication and authorization use irm and encryption to protect unstructured data defend storage devices databases and software protect network routers switches and firewalls secure vpn wireless voip and pbx infrastructure design intrusion detection and prevention systems develop secure windows java and mobile applications perform incident response and forensic analysis

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annotation the first complete guide to the installation operation and management of virtual private networks vpn a fast growing technology framework that lets organizations use the internet as their own private network shows how all the pieces of vpn architecture fit together encryption authentication special network security considerations and more takes readers step by step through vpn implementation troubleshooting maintenance and ongoing security

solve all your networking problems and improve overall performance using this detailed guide to atm and ip technologies you ll get full coverage of circuits multiplexing switching frame relay bridging routing signaling and much more this practical guide also covers atm hardware software and high layer protocols

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introduction datacommunications information theory introduction to local area networks internet protocols

a complete guide to designing accessing maintaining and securing trusted internet sites explains clearly internet security issues and provides tested solutions to security risks gives readers an over the shoulder look at security professionals designing assessing and securing internet sites case studies are used to illustrate the concepts and methods discussed by the authors internet site security moves from high level architecture and concepts to a proven methodology for securing a site details are provided with regard to specific risks so that everyone concerned with the sites security can learn to clearly see them and make accurate assessments of potential solutions

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