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VPN - Virtual Private Network How GRE Tunnels Work / VPN Tunnels Part 1

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ABOUT THE BOOK Cisco Virtual Internet Routing Lab (VIRL) is a software tool to build and run network simulations without the need for physical hardware. The VIRL Book guides you through installing, configuring and using VIRL on Windows, Mac OSX, VMware ESXi and Cloud environments. The book is written for students who are studying for CCNA, CCNP and CCIE certification exams, training and learning about network technologies. This book is also for IT networking professionals who want to mock up production network, test network changes, and test new features without risking downtime. FOR NETWORK ENGINEERS The real-world network topology examples in this book show users step-by-step the key techniques when working in VIRL building best practice configuration of each network device. Observe how the network and servers work together in a practical manner. Study the behavior and
apply the knowledge to setting up real-world network infrastructure. Download free sample network topology projects on www.virlbook.com and get started today! FOR INSTRUCTORS AND STUDENTS The certification-oriented network examples guide students through building, configuring and troubleshooting a network often appears in the exams. The book also helps Cisco Networking Academy instructors to teach, and students to learn and build successful IT careers. Students will gain good understanding and knowledge building network simulations to practice while pursuing IT networking certifications. SAMPLE NETWORK TOPOLOGIES Topology 1: VLAN, Trunking, STP and Ether-Channel (CCNA) Topology 2: Configuring EIGRP IPv4 and IPv6 (CCNA) Topology 3: Configuring OSPF IPv4 and IPv6 (CCNA) Topology 4: Configuring IOS NAT/PAT (CCNA) Topology 5: Configuring ASA With Multiple DMZ Networks (Security) Topology 6: Configuring L2TP Over IPSec VPN on Cisco ASA (Security) Topology 7: Configuring Automatic ISP Failover (WAN, BGP) Topology 8: Configuring DMVPN With IPSec and EIGRP Overlay (CCIE) Topology 9: Configuring MPLS VPN, VRF, OSPF and BGP (CCIE) Download at virlbook.com

A comprehensive introduction to all facets of MPLS theory and practice Helps networking professionals choose the suitable MPLS application and design for their network Provides MPLS theory and relates to basic IOS configuration examples The Fundamentals Series from Cisco Press launches the basis to readers for understanding the purpose, application, and management of technologies MPLS has emerged as the new networking layer for service providers throughout the world. For many service providers and enterprises MPLS is a way of delivering new applications on their IP networks, while consolidating data and voice networks.
MPLS has grown to be the new default network layer for service providers and is finding its way into enterprise networks as well. This book focuses on the building blocks of MPLS (architecture, forwarding packets, LDP, MPLS and QoS, CEF, etc.). This book also reviews the different MPLS applications (MPLS VPN, MPLS Traffic Engineering, Carrying IPv6 over MPLS, AToM, VPLS, MPLS OAM etc.). You will get a comprehensive overview of all the aspects of MPLS, including the building blocks, its applications, troubleshooting and a perspective on the future of MPLS.

With increased use of Internet connectivity and less reliance on private WAN networks, virtual private networks (VPNs) provide a much-needed secure method of transferring critical information. As Cisco Systems integrates security and access features into routers, firewalls, clients, and concentrators, its solutions become ever more accessible to companies with networks of all sizes. The Complete Cisco VPN Configuration Guide contains detailed explanations of all Cisco VPN products, describing how to set up IPsec and Secure Sockets Layer (SSL) connections on any type of Cisco device, including concentrators, clients, routers, or Cisco PIX and Cisco ASA security appliances. With copious configuration examples and troubleshooting scenarios, it offers clear information on VPN implementation designs. - A complete resource for understanding VPN components and VPN design issues - Learn how to employ state-of-the-art VPN connection types and implement complex VPN configurations on Cisco devices, including routers, Cisco PIX and Cisco ASA security appliances, concentrators, and remote access clients - Discover troubleshooting tips and techniques from real-world scenarios based on the author's vast field experience - Filled with relevant configurations you
The essential reference for security pros and CCIE Security candidates: identity, context sharing, encryption, secure connectivity and virtualization Integrated Security Technologies and Solutions – Volume II brings together more expert-level instruction in security design, deployment, integration, and support. It will help experienced security and network professionals manage complex solutions, succeed in their day-to-day jobs, and prepare for their CCIE Security written and lab exams. Volume II focuses on the Cisco Identity Services Engine, Context Sharing, TrustSec, Application Programming Interfaces (APIs), Secure Connectivity with VPNs, and the virtualization and automation sections of the CCIE v5 blueprint. Like Volume I, its strong focus on interproduct integration will help you combine formerly disparate systems into seamless, coherent, next-generation security solutions. Part of the Cisco CCIE Professional Development Series from Cisco Press, it is authored by a team of CCIEs who are world-class experts in their Cisco security disciplines, including co-creators of the CCIE Security v5 blueprint. Each chapter starts with relevant theory, presents configuration examples and applications, and concludes with practical troubleshooting. Review the essentials of Authentication, Authorization, and Accounting (AAA) Explore the RADIUS and TACACS+ AAA protocols, and administer devices with them Enforce basic network access control with the Cisco Identity Services Engine (ISE) Implement sophisticated ISE profiling, EzConnect, and Passive Identity features Extend network access with BYOD support, MDM integration, Posture Validation, and Guest Services Safely share context with ISE, and implement pxGrid and Rapid Threat Containment Integrate ISE with Cisco FMC, WSA, and
other devices Leverage Cisco Security APIs to increase control and flexibility Review Virtual Private Network (VPN) concepts and types Understand and deploy Infrastructure VPNs and Remote Access VPNs Virtualize leading Cisco Security products Make the most of Virtual Security Gateway (VSG), Network Function Virtualization (NFV), and microsegmentation

In the five years since the first edition of this classic book was published, Internet use has exploded. The commercial world has rushed headlong into doing business on the Web, often without integrating sound security technologies and policies into their products and methods. The security risks--and the need to protect both business and personal data--have never been greater. We've updated Building Internet Firewalls to address these newer risks. What kinds of security threats does the Internet pose? Some, like password attacks and the exploiting of known security holes, have been around since the early days of networking. And others, like the distributed denial of service attacks that crippled Yahoo, E-Bay, and other major e-commerce sites in early 2000, are in current headlines. Firewalls, critical components of today's computer networks, effectively protect a system from most Internet security threats. They keep damage on one part of the network--such as eavesdropping, a worm program, or file damage--from spreading to the rest of the network. Without firewalls, network security problems can rage out of control, dragging more and more systems down. Like the bestselling and highly respected first edition, Building Internet Firewalls, 2nd Edition, is a practical and detailed step-by-step guide to designing and installing firewalls and configuring Internet services to work with a firewall. Much expanded to include Linux and Windows coverage, the second edition describes: Firewall technologies: packet filtering, proxying, network address
translation, virtual private networks Architectures such as screening routers, dual-homed hosts, screened hosts, screened subnets, perimeter networks, internal firewalls Issues involved in a variety of new Internet services and protocols through a firewall Email and News Web services and scripting languages (e.g., HTTP, Java, JavaScript, ActiveX, RealAudio, RealVideo) File transfer and sharing services such as NFS, Samba Remote access services such as Telnet, the BSD "r" commands, SSH, BackOrifice 2000 Real-time conferencing services such as ICQ and talk Naming and directory services (e.g., DNS, NetBT, the Windows Browser) Authentication and auditing services (e.g., PAM, Kerberos, RADIUS); Administrative services (e.g., syslog, SNMP, SMS, RIP and other routing protocols, and ping and other network diagnostics) Intermediary protocols (e.g., RPC, SMB, CORBA, IIOP) Database protocols (e.g., ODBC, JDBC, and protocols for Oracle, Sybase, and Microsoft SQL Server) The book's complete list of resources includes the location of many publicly available firewall construction tools.

Appropriate for a first course on computer networking, this textbook describes the architecture and function of the application, transport, network, and link layers of the internet protocol stack, then examines audio and video networking applications, the underpinnings of encryption and network security, and the key issues of network management. Th

This book will help you increase your understanding of potential threats, learn how to apply practical mitigation options, and react to attacks quickly. It will teach you the skills and knowledge you need to design, develop, implement, analyze, and maintain networks and
network protocols.--[book cover].

Prepare for Cisco CCNA Routing and Switching 200-120 exam success with this Cisco Exam Cram from Pearson IT Certification, a leader in IT. Cisco CCNA Routing and Switching 200-120 Exam Cram is the perfect study guide to help you pass the Cisco CCNA 200-120 exam, providing coverage and practice questions for every exam topic. The book contains an extensive set of preparation tools such as exam objective mapping; a self-assessment section that helps you evaluate your motivations and exam readiness; concise, easy-to-read exam topic overviews; Exam Alerts that highlight key concepts; bullet lists and summaries for easy review; Cram Savers, Cram Quizzes, and chapter-ending practice questions that help you assess your knowledge and test your understanding; Notes that indicate areas of concern or specialty training; Tips to help you build a better foundation of knowledge and an extensive glossary of terms and acronyms. The book also contains the extremely useful Cram Sheet tear-out that represents a collection of the most difficult-to-remember facts and numbers you should memorize before taking the test. Complementing all these study tools is the powerful Pearson IT Certification Practice Test software, complete with hundreds of exam-realistic practice questions. This assessment software offers you a wealth of customization option and reporting features, allowing you to test your knowledge in study mode, practice exam mode, or flash card mode. Covers the critical information you''ll need to know to score higher on your CCNA exam! Identify the protocols that operate at specific OSI layers Learn the details of custom subnetting with IPv4 Understand and implement IPv6 Connect, configure, and manage Cisco routers and switches Set up security for routers and switches Create VLANs and set
up switch-to-switch trunk links Filter traffic from one network to another with access control lists (ACLs) Deploy Network Address Translation (NAT) and IOS router DHCP services Learn to predict and verify Spanning Tree Protocol (STP) Configure and verify OSPFv2, OSPFv3, and EIGRP Leverage redundancy protocols including HSRP and GLBP Implement WAN technologies including PPP, HDLC, and Frame Relay Troubleshoot switches and routers, including routing protocols Companion CD The companion CD contains a digital edition of the Cram Sheet and the powerful Pearson IT Certification Practice Test engine, complete with hundreds of exam-realistic questions. The assessment engine offers you a wealth of customization options and reporting features, laying out a complete assessment of your knowledge to help you focus your study where it is needed most. Pearson IT Certification Practice Test minimum system requirements: Windows XP (SP3), Windows Vista (SP2), Windows 7, or Windows 8; Microsoft .NET Framework 4.0 Client; Pentium-class 1GHz processor (or equivalent); 512MB RAM; 650MB disk space plus 50MB for each downloaded practice exam; access to the Internet to register and download your practice exams Mike Valentine has been in the IT field for 16 years, focusing on network design and implementation. He is a Cisco Certified Systems Instructor (#31461) and specializes in Cisco Unified Communications instruction as well as CCNA and CCNP courses. His accessible, humorous, and effective teaching style has demystified Cisco for hundreds of students since he began teaching in 2002. Keith Barker, CCIE No. 6783 R/S & Security, is a 27-year veteran of the networking industry. He currently works at CBT Nuggets. His past experience includes EDS, Blue Cross, Paramount Pictures, and KnowledgeNET, and he has delivered CCIE-level training for several years.
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build effective defenses Investigate and analyze attacks to inform defense strategy The Network Security Test Lab is your complete, essential guide.

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