

**Step-by-Step Configuration
of Cisco VPNs Using the CLI**

**For Cisco™
ASA
&
Routers**

Cisco™ VPN Configuration Guide



**By: Harris Andrea
(CCNA, CCNP, CCSP)**

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Vpn Configuration Guide For Cisco Routers Asa Firewalls

Cisco Networking Academy

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Vpn Configuration Guide For Cisco Routers Asa Firewalls:

Cisco VPN Configuration Guide Harris Andrea, 2014-07-23 Become an expert in Cisco VPN technologies with this practical and comprehensive configuration guide Learn how to configure IPSEC VPNs site to site hub and spoke remote access SSL VPN DMVPN GRE VTI etc This book is packed with step by step configuration tutorials and real world scenarios to implement VPNs on Cisco ASA Firewalls v8 4 and above and v9 x and on Cisco Routers It is filled with raw practical concepts around 40 network diagrams to explain the scenarios troubleshooting instructions 20 complete configurations on actual devices and much more Both beginners and experts will find some golden nuggets inside this practical guide Every Cisco Networking Professional in this planet will have to configure some kind of VPN sooner or later in his her professional career This VPN Guide therefore will be a great reference for years to come Some of the topics covered include the following Policy Based IPSEC and Route Based VPNs Comparison and Applications Practical Applications of each VPN Technology Configuration of Site to Site Hub and Spoke and Remote Access IPSEC VPNs on Cisco Routers Configuration of Route Based VPNs using GRE Static VTI Dynamic VTI Configuration of Dynamic Multipoint VPN DMVPN on Cisco Routers Configuration of PPTP VPNs on Cisco Routers Configuration of Site to Site and Hub and Spoke IPSEC VPNs including IKEv2 IPSEC on Cisco ASA Firewalls Configuration of Remote Access IPSEC VPN and Anyconnect SSL VPN on Cisco ASA Firewalls VPN Authentication using Active Directory RSA Server and external AAA Server PLUS MUCH MORE In addition to the most popular VPN topologies and scenarios the book contains also some special cases for which you will not find information easily anywhere else Some special cases and scenarios included in the book VPNs with sites having dynamic public IP address Implementations of hub and spoke together with remote access VPNs on the same device Using Dynamic Routing Protocols EIGRP to make VPNs on Routers more scalable Spoke to Spoke communication via the Hub Site using VPN Hairpinning on ASA Remote Access users to communicate with Spoke sites via the Hub using VPN Hairpinning on ASA Site to Site IPSEC VPN with duplicate subnets on the two sites IPSEC VPN Failover with backup ISP *CCNA Security Study Guide* Troy McMillan, 2018-01-05 Cisco has announced big changes to its certification program As of February 24 2020 all current certifications will be retired and Cisco will begin offering new certification programs The good news is if you re working toward any current CCNA certification keep going You have until February 24 2020 to complete your current CCNA If you already have CCENT ICND1 certification and would like to earn CCNA you have until February 23 2020 to complete your CCNA certification in the current program Likewise if you re thinking of completing the current CCENT ICND1 ICND2 or CCNA Routing and Switching certification you can still complete them between now and February 23 2020 Lay the foundation for a successful career in network security CCNA Security Study Guide offers comprehensive review for Exam 210 260 Packed with concise explanations of core security concepts this book is designed to help you successfully prepare for the exam Expert instruction guides you through critical concepts relating to secure network infrastructure access

management VPN encryption Firewalls intrusion prevention and more with complete coverage of the CCNA exam objectives Practical examples allow you to apply your skills in real world scenarios helping you transition effectively from learning to doing You also get access to the Sybex online learning environment featuring the tools you need to maximize your study time key terminology and flash cards allow you to study anytime anywhere while chapter tests and practice exams help you track your progress and gauge your readiness along the way The CCNA Security certification tests your knowledge of secure network installation monitoring and troubleshooting using Cisco security hardware and software solutions When you're ready to get serious about preparing for the exam this book gives you the advantage of complete coverage real world application and extensive learning aids to help you pass with confidence Master Cisco security essentials standards and core technologies Work through practical examples drawn from real world examples Track your progress with online study aids and self tests Develop critical competencies in maintaining data integrity confidentiality and availability Earning your CCNA Security certification validates your abilities in areas that define careers including network security administrator and network security support engineer With data threats continuing to mount the demand for this skill set will only continue to grow and in an employer's eyes a CCNA certification makes you a true professional CCNA Security Study Guide is the ideal preparation resource for candidates looking to not only pass the exam but also succeed in the field CCNA Security Study Guide Tim Boyles, 2010-06-29 A complete study guide for the new CCNA Security certification exam In keeping with its status as the leading publisher of CCNA study guides Sybex introduces the complete guide to the new CCNA security exam The CCNA Security certification is the first step towards Cisco's new Cisco Certified Security Professional CCSP and Cisco Certified Internetworking Engineer Security CCNA Security Study Guide fully covers every exam objective The companion CD includes the Sybex Test Engine flashcards and a PDF of the book The CCNA Security certification is the first step toward Cisco's new CCSP and Cisco Certified Internetworking Engineer Security Describes security threats facing modern network infrastructures and how to mitigate threats to Cisco routers and networks using ACLs Explores implementing AAA on Cisco routers and secure network management and reporting Shows how to implement Cisco IOS firewall and IPS feature sets plus site to site VPNs using SDM CD includes the Sybex Test Engine flashcards and the book in PDF format With hands on labs and end of chapter reviews CCNA Security Study Guide thoroughly prepares you for certification Note CD ROM DVD and other supplementary materials are not included as part of eBook file *Connecting Networks Companion Guide* Cisco Networking Academy, 2014-04-02 Connecting Networks Companion Guide is the official supplemental textbook for the Connecting Networks course in the Cisco Networking Academy CCNA Routing and Switching curriculum This course discusses the WAN technologies and network services required by converged applications in a complex network The course allows you to understand the selection criteria of network devices and WAN technologies to meet network requirements You will learn how to configure and troubleshoot network devices and resolve common issues with data link protocols You will

also develop the knowledge and skills needed to implement IPSec and virtual private network VPN operations in a complex network The Companion Guide is designed as a portable desk reference to use anytime anywhere to reinforce the material from the course and organize your time The book s features help you focus on important concepts to succeed in this course Chapter objectives Review core concepts by answering the focus questions listed at the beginning of each chapter Key terms Refer to the lists of networking vocabulary introduced and highlighted in context in each chapter Glossary Consult the comprehensive Glossary with 195 terms Summary of Activities and Labs Maximize your study time with this complete list of all associated practice exercises at the end of each chapter Check Your Understanding Evaluate your readiness with the end of chapter questions that match the style of questions you see in the online course quizzes The answer key explains each answer How To Look for this icon to study the steps you need to learn to perform certain tasks Interactive Activities Reinforce your understanding of topics with all the different exercises from the online course identified throughout the book with this icon Videos Watch the videos embedded within the online course Packet Tracer Activities Explore and visualize networking concepts using Packet Tracer exercises interspersed throughout the chapters Hands on Labs Work through all the course labs and Class Activities that are included in the course and published in the separate Lab Manual

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CCNP Security Firewall 642-617 Official Cert Guide Dave Hucaby,David Hucaby,David Garneau,Dave Garneau,Anthony Sequeira,2011 The official study guide helps you master all the topics on the CCNP Security Firewall exam including ASA interfaces IP connectivity ASA management Recording ASA activity Address translation Access control Proxy services Traffic inspection and handling Transparent firewall mode Virtual firewalls High availability and ASA service modules Page 4 of cover

Implementing Cisco IOS Network Security (IINS 640-554) Foundation Learning Guide Catherine Paquet,2012-11-29 Implementing Cisco IOS Network Security IINS Foundation Learning Guide Second Edition Foundation learning for the CCNA Security IINS 640 554 exam Implementing Cisco IOS Network Security IINS Foundation Learning Guide Second Edition is a Cisco authorized self paced learning tool for CCNA Security 640 554 foundation learning This book provides you with the knowledge needed to secure Cisco networks By reading this book you will gain a thorough understanding of how to develop a security infrastructure recognize threats and vulnerabilities to networks and mitigate security threats This book focuses on using Cisco IOS routers to protect the network by capitalizing on their advanced features as a perimeter router firewall intrusion prevention system and site to site VPN

device The book also covers the use of Cisco Catalyst switches for basic network security the Cisco Secure Access Control System ACS and the Cisco Adaptive Security Appliance ASA You learn how to perform basic tasks to secure a small branch office network using Cisco IOS security features available through web based GUIs Cisco Configuration Professional and the CLI on Cisco routers switches and ASAs Whether you are preparing for CCNA Security certification or simply want to gain a better understanding of Cisco IOS security fundamentals you will benefit from the information provided in this book

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CCT/CCNA Routing and Switching All-in-One Exam Guide (Exams 100-490 & 200-301) Glen E. Clarke, Richard Deal, 2021-01-01 This new All in One Exam Guide covers every topic on the current version of Cisco's CCT and CCNA exams Take the 2020 versions of the Cisco Certified Technician CCT and Cisco Certified Network Associate CCNA exams with complete confidence using the detailed information contained in this highly effective self study system Written by a pair of Cisco networking professionals and training experts CCT CCNA Routing and Switching All in One Exam Guide Exams 100-490 200-301 fully explains all subjects covered on both exams and contains practice questions that mirror those on the live test in tone format and content Beyond fully preparing you for the challenging exam the book also serves as a valuable on the job reference Covers all topics on both exams including Network fundamentals OSI model TCP/IP protocol suite Subnetting and VLSM Cisco device and IOS basics Cisco device management Switching Static and dynamic routing IP services and IPv6 Wireless Security fundamentals Implementing security on Cisco devices Automation and programmability

CCNP Security FIREWALL 642-618 Official Cert Guide David Hucaby, Dave Garneau, Anthony J. Sequeira, 2012-05-30 Trust the best selling Official Cert Guide series from Cisco Press to help you learn prepare and practice for exam success They are built with the objective of providing assessment

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Designing for Cisco Internetwork Solutions (DESGN) (Authorized CCDA Self-Study Guide) (Exam 640-863) Diane Teare, 2007-10-12 Authorized Self Study Guide Designing for Cisco Internetwork Solutions DESGN Second Edition Foundation learning for CCDA exam 640 863 Designing for Cisco Internetwork Solutions DESGN Second Edition is a Cisco authorized self paced learning tool for CCDA foundation learning This book provides you with the knowledge needed to design enterprise networks By reading this book you will gain a thorough understanding of designing routed and switched network infrastructures and services within a modular architecture In Designing for Cisco Internetwork Solutions DESGN Second Edition you will study a broad range of network design principles and guidelines You will learn about network design in the context of the Cisco Service Oriented Network Architecture SONA framework and the Cisco Enterprise Architecture Specific topics include campus and data center infrastructure remote connectivity IP addressing design routing protocol selection voice network design wireless network design and including security in your designs An ongoing case study plus chapter ending review questions illustrate and help

solidify the concepts presented in the book Whether you are preparing for CCDA certification or simply want to gain a better understanding of network design principles you will benefit from the foundation information presented in this book Designing for Cisco Internetwork Solutions DESGN Second Edition is part of a recommended learning path from Cisco that includes simulation and hands on training from authorized Cisco Learning Partners and self study products from Cisco Press To find out more about instructor led training e learning and hands on instruction offered by authorized Cisco Learning Partners worldwide please visit www.cisco.com/go/authorizedtraining Diane Teare is a professional in the networking training and e learning fields She has more than 20 years of experience in designing implementing and troubleshooting network hardware and software and has also been involved in teaching course design and project management She has extensive knowledge of network design and routing technologies and is an instructor with one of the largest authorized Cisco Learning Partners

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establishing an encrypted tunnel across the Internet using a broadband cable or DSL or ISP dialup connection SSL Remote Access VPNs provides you with a basic working knowledge of SSL virtual private networks on Cisco SSL VPN capable devices Design guidance is provided to assist you in implementing SSL VPN in existing network infrastructures This includes examining existing hardware and software to determine whether they are SSL VPN capable providing design recommendations and guiding you on setting up the Cisco SSL VPN devices Common deployment scenarios are covered to assist you in deploying an SSL VPN in your network SSL Remote Access VPNs gives you everything you need to know to understand design install configure and troubleshoot all the components that make up an effective secure SSL VPN solution

Jazib Frahim CCIE No 5459 is currently working as a technical leader in the Worldwide Security Services Practice of the Cisco Advanced Services for Network Security He is responsible for guiding customers in the design and implementation of their networks with a focus on network security He holds two CCIEs one in routing and switching and the other in security Qiang Huang CCIE No 4937 is a product manager in the Cisco Campus Switch System Technology Group focusing on driving the security and intelligent services roadmap for market leading modular Ethernet switching platforms During his time at Cisco Qiang has played an important role in a number of technology groups including the Cisco TAC security and VPN team where he was responsible for trouble shooting complicated customer deployments in security and VPN solutions Qiang has extensive knowledge of security and VPN technologies and experience in real life customer deployments Qiang holds CCIE certifications in routing and switching security and ISP Dial Understand remote access VPN technologies such as Point to Point Tunneling Protocol PPTP Internet Protocol Security IPsec Layer 2 Forwarding L2F Layer 2 Tunneling L2TP over IPsec and SSL VPN Learn about the building blocks of SSL VPN including cryptographic algorithms and SSL and Transport Layer Security TLS Evaluate common design best practices for planning and designing an SSL VPN solution Gain insight into SSL VPN functionality on Cisco Adaptive Security Appliance ASA and Cisco IOS routers Install and configure SSL VPNs on Cisco ASA and Cisco IOS routers Manage your SSL VPN deployment using Cisco Security Manager 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 SSL VPNs

Implementing Cisco IOS Network Security (IINS) Catherine Paquet, 2009-04-14 Implementing Cisco IOS Network Security IINS is a Cisco authorized self paced learning tool for CCNA Security foundation learning This book provides you with the knowledge needed to secure Cisco routers and switches and their associated networks By reading this book you will gain a thorough understanding of how to troubleshoot and monitor network devices to maintain integrity confidentiality and availability of data and devices as well as the technologies that Cisco uses in its security infrastructure This book focuses on the necessity of a comprehensive security policy and how it affects the posture of the network You will learn how to perform basic tasks to secure a small branch type office network using Cisco IOS security features available

through the Cisco Router and Security Device Manager SDM web based graphical user interface GUI and through the command line interface CLI on Cisco routers and switches The author also provides when appropriate parallels with Cisco ASA appliances Whether you are preparing for CCNA Security certification or simply want to gain a better understanding of Cisco IOS security fundamentals you will benefit from the information provided in this book Implementing Cisco IOS Network Security IINS is part of a recommended learning path from Cisco that includes simulation and hands on training from authorized Cisco Learning Partners and self study products from Cisco Press To find out more about instructor led training e learning and hands on instruction offered by authorized Cisco Learning Partners worldwide please visit www.cisco.com/go/authorizedtraining Develop a comprehensive network security policy to counter threats against information security Configure routers on the network perimeter with Cisco IOS Software security features Configure firewall features including ACLs and Cisco IOS zone based policy firewalls to perform basic security operations on a network Configure site to site VPNs using Cisco IOS features Configure IPS on Cisco network routers Configure LAN devices to control access resist attacks shield other network devices and systems and protect the integrity and confidentiality of network traffic This volume is in the Certification Self Study Series offered by Cisco Press Books in this series provide officially developed self study solutions to help networking professionals understand technology implementations and prepare for the Cisco Career Certifications examinations

Designing and Building Enterprise DMZs Hal Flynn, 2006-10-09 This is the only book available on building network DMZs which are the cornerstone of any good enterprise security configuration It covers market leading products from Microsoft Cisco and Check Point One of the most complicated areas of network technology is designing planning implementing and constantly maintaining a demilitarized zone DMZ segment This book is divided into four logical parts First the reader will learn the concepts and major design principles of all DMZs Next the reader will learn how to configure the actual hardware that makes up DMZs for both newly constructed and existing networks Next the reader will learn how to securely populate the DMZs with systems and services The last part of the book deals with troubleshooting maintaining testing and implementing security on the DMZ The only book published on Network DMZs on the components of securing enterprise networks This is the only book available on building network DMZs which are the cornerstone of any good enterprise security configuration It covers market leading products from Microsoft Cisco and Check Point Provides detailed examples for building Enterprise DMZs from the ground up and retro fitting existing infrastructures

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