

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

**For Cisco™
ASA
&
Routers**

Cisco™ VPN Configuration Guide



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

networkstraining.com

Vpn Configuration Guide For Cisco Routers Asa Firewalls

**David Hucaby,Dave Garneau,Anthony
J. Sequeira**



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 **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

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

Implementing Cisco IP Routing (ROUTE) Foundation Learning Guide Diane Teare,2010 Implementing Cisco IP Routing ROUTE Foundation Learning Guide is ideal for certification candidates who are seeking a tool to learn all the topics covered in the ROUTE 642 902 exam Book Jacket

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your skills in network security and explore advanced security technologies

Key Features

Enhance your skills in network security by learning about Cisco's device configuration and installation

Unlock the practical aspects of CCNA security to secure your devices

Explore tips and tricks to help you achieve the CCNA Security 210-260 Certification

Book Description

With CCNA Security certification a network professional can demonstrate the skills required to develop security infrastructure recognize threats and vulnerabilities to networks and mitigate security threats

The CCNA Security 210-260 Certification Guide will help you grasp the fundamentals of network security and prepare you for the Cisco CCNA Security Certification exam

You'll begin by getting a grip on the fundamentals of network security and exploring the different tools available

Then you'll see how to securely manage your network devices by implementing the AAA framework and configuring different management plane protocols

Next you'll learn about security on the data link layer by implementing various security toolkits

You'll be introduced to various firewall technologies and will understand how to configure a zone-based firewall on a Cisco IOS device

You'll configure a site-to-site VPN on a Cisco device and get familiar with different types of VPNs and configurations

Finally you'll delve into the concepts of IPS and endpoint security to secure your organization's network infrastructure

By the end of this book you'll be ready to take the CCNA Security Exam 210-260

What you will learn

Grasp the fundamentals of network security

Configure routing protocols to secure network devices

Mitigate different styles of security attacks using Cisco devices

Explore the different types of firewall technologies

Discover the Cisco ASA functionality and gain insights into some advanced ASA configurations

Implement IPS on a Cisco device and understand the concept of endpoint security

Who this book is for

CCNA Security 210-260 Certification Guide can help you become a network security engineer a cyber security professional or a security administrator

You should have valid CCENT or CCNA Routing and Switching certification before taking your CCNA Security exam

[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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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

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Network Security First-step Thomas Thomas, Thomas M. Thomas, Donald Stoddard, 2012 Learn about network security including the threats and the ways a network is protected from them The book also covers firewalls viruses and virtual private networks

SSL Remote Access VPNs (Network Security) Qiang Huang, Jazib Frahim, 2008-06-10 SSL Remote Access VPNs An introduction to designing and configuring SSL virtual private networks Jazib Frahim CCIE No 5459 Qiang Huang CCIE No 4937 Cisco SSL VPN solutions formerly known as Cisco WebVPN solutions give you a flexible and secure way to extend networking resources to virtually any remote user with access to the Internet and a web browser Remote access based on SSL VPN delivers secure access to network resources by 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

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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

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