

Step-by-Step Configuration Tutorial Using the CLI

**For Cisco®
ASA
5500 & 5500-X
v8.x & v9.x**



Cisco® ASA Firewall Fundamentals - 3rd Edition



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

networkstraining.com

Cisco Asa Firewall Fundamentals 3rd Edition Step By Step

Andrew Mason



Cisco Asa Firewall Fundamentals 3rd Edition Step By Step :

Cisco ASA Firewall Fundamentals - 3rd Edition Harris Andrea, 2014-04-08 Covers the most important and common configuration scenarios and features which will put you on track to start implementing ASA firewalls right away **Cisco ASA** Jazib Frahim, Omar Santos, Andrew Ossipov, 2014-04-28 Cisco ASA All in One Next Generation Firewall IPS and VPN Services Third Edition Identify mitigate and respond to today's highly sophisticated network attacks Today network attackers are far more sophisticated relentless and dangerous In response Cisco ASA All in One Next Generation Firewall IPS and VPN Services has been fully updated to cover the newest techniques and Cisco technologies for maximizing end to end security in your environment Three leading Cisco security experts guide you through every step of creating a complete security plan with Cisco ASA and then deploying configuring operating and troubleshooting your solution Fully updated for today's newest ASA releases this edition adds new coverage of ASA 5500 X ASA 5585 X ASA Services Module ASA next generation firewall services EtherChannel Global ACLs clustering IPv6 improvements IKEv2 AnyConnect Secure Mobility VPN clients and more The authors explain significant recent licensing changes introduce enhancements to ASA IPS and walk you through configuring IPsec SSL VPN and NAT PAT You'll learn how to apply Cisco ASA adaptive identification and mitigation services to systematically strengthen security in network environments of all sizes and types The authors present up to date sample configurations proven design scenarios and actual debugs all designed to help you make the most of Cisco ASA in your rapidly evolving network Jazib Frahim CCIE No 5459 Routing and Switching Security Principal Engineer in the Global Security Solutions team guides top tier Cisco customers in security focused network design and implementation He architects develops and launches new security services concepts His books include Cisco SSL VPN Solutions and Cisco Network Admission Control Volume II NAC Deployment and Troubleshooting Omar Santos CISSP No 463598 Cisco Product Security Incident Response Team PSIRT technical leader leads and mentors engineers and incident managers in investigating and resolving vulnerabilities in Cisco products and protecting Cisco customers Through 18 years in IT and cybersecurity he has designed implemented and supported numerous secure networks for Fortune 500 companies and the U S government He is also the author of several other books and numerous whitepapers and articles Andrew Ossipov CCIE No 18483 and CISSP No 344324 is a Cisco Technical Marketing Engineer focused on firewalls intrusion prevention and data center security Drawing on more than 16 years in networking he works to solve complex customer technical problems architect new features and products and define future directions for Cisco's product portfolio He holds several pending patents Understand install configure license maintain and troubleshoot the newest ASA devices Efficiently implement Authentication Authorization and Accounting AAA services Control and provision network access with packet filtering context aware Cisco ASA next generation firewall services and new NAT PAT concepts Configure IP routing application inspection and QoS Create firewall contexts with unique configurations interfaces policies routing tables and administration Enable

integrated protection against many types of malware and advanced persistent threats APTs via Cisco Cloud Web Security and Cisco Security Intelligence Operations SIO Implement high availability with failover and elastic scalability with clustering Deploy troubleshoot monitor tune and manage Intrusion Prevention System IPS features Implement site to site IPsec VPNs and all forms of remote access VPNs IPsec clientless SSL and client based SSL Configure and troubleshoot Public Key Infrastructure PKI Use IKEv2 to more effectively resist attacks against VPNs Leverage IPv6 support for IPS packet inspection transparent firewalls and site to site IPsec VPNs

Firewall Fundamentals Wes Noonan, Ido Dubrawsky, 2006-06-02 The essential guide to understanding and using firewalls to protect personal computers and your network An easy to read introduction to the most commonly deployed network security device Understand the threats firewalls are designed to protect against Learn basic firewall architectures practical deployment scenarios and common management and troubleshooting tasks Includes configuration deployment and management checklists Increasing reliance on the Internet in both work and home environments has radically increased the vulnerability of computing systems to attack from a wide variety of threats Firewall technology continues to be the most prevalent form of protection against existing and new threats to computers and networks A full understanding of what firewalls can do how they can be deployed to maximum effect and the differences among firewall types can make the difference between continued network integrity and complete network or computer failure Firewall Fundamentals introduces readers to firewall concepts and explores various commercial and open source firewall implementations including Cisco Linksys and Linux allowing network administrators and small office home office computer users to effectively choose and configure their devices Firewall Fundamentals is written in clear and easy to understand language and helps novice users understand what firewalls are and how and where they are used It introduces various types of firewalls first conceptually and then by explaining how different firewall implementations actually work It also provides numerous implementation examples demonstrating the use of firewalls in both personal and business related scenarios and explains how a firewall should be installed and configured Additionally generic firewall troubleshooting methodologies and common management tasks are clearly defined and explained

Understanding the Cisco ASA Firewall Jimmy Larsson, 2016 This is a best practices course on how to set up manage and troubleshoot firewalls and VPNs using the Cisco ASA Adaptive Security Appliance Drawing on his 15 years of experience implementing Cisco firewalls instructor Jimmy Larsson shows you the actual hands on commands and configurations he uses in real life situations The course is targeted at first time Cisco ASA users and those with some ASA experience looking to fill the gaps in their knowledge Larsson recommends that learners have access to a Cisco firewall in order to practice the methods covered in the course Gain the practical knowledge required to set up and manage Cisco firewalls and VPNs Explore ASA hardware models CLI basics and core firewall configuration practices Acquire a thorough understanding of how network address translation works Learn basic and advanced methods for configuring the AnyConnect client VPN solution Discover how to configure

manage and troubleshoot site to site VPN tunnels Understand packet capture and how to use troubleshooting tools like Packet Tracer Get exposed to advanced methods for enhancing firewall functionality Jimmy Larsson runs Secyourity AB a network security company focused on Cisco based security products and solutions He s been in IT since 1990 working for companies such as ATEA and LAN Assistans He s certified in Cisco CCNA Routing Switching CCNA Security CCNP Routing Switching CCNP Security Check Point CCSE and ISC2 CISSP in Information Security Cisco ASA Jazib Frahim,Omar Santos,2009-12-29 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 For organizations of all sizes the Cisco ASA product family offers powerful new tools for maximizing network security Cisco ASA All in One Firewall IPS Anti X and VPN Adaptive Security Appliance Second Edition is Cisco s authoritative practitioner s guide to planning deploying managing and troubleshooting security with Cisco ASA Written by two leading Cisco security experts this book presents each Cisco ASA solution in depth offering comprehensive sample configurations proven troubleshooting methodologies and debugging examples Readers will learn about the Cisco ASA Firewall solution and capabilities secure configuration and troubleshooting of site to site and remote access VPNs Intrusion Prevention System features built into Cisco ASA s Advanced Inspection and Prevention Security Services Module AIP SSM and Anti X features in the ASA Content Security and Control Security Services Module CSC SSM This new edition has been updated with detailed information on the latest ASA models and features Everything network professionals need to know to identify mitigate and respond to network attacks with Cisco ASA Includes detailed configuration examples with screenshots and command line references Covers the ASA 8.2 release Presents complete troubleshooting methodologies and architectural references **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 review and practice to help ensure you are fully prepared for your certification exam Master Cisco CCNP Security FIREWALL 642 618 exam topics Assess your knowledge with chapter opening quizzes Review key concepts with exam preparation tasks This is the eBook edition of the CCNP Security FIREWALL 642 618 Official Cert Guide This eBook does not include the companion CD ROM with practice exam that comes with the print edition CCNP Security FIREWALL 642 618 Official Cert Guide presents you with an organized test preparation routine through the use of proven series elements and techniques Do I Know This Already quizzes open each chapter and enable you to decide how much time you need to spend on each section Exam topic lists make referencing easy Chapter ending Exam Preparation Tasks help you drill on key concepts you must know thoroughly CCNP Security FIREWALL 642 618 Official Cert Guide focuses specifically on the objectives for the Cisco CCNP Security FIREWALL exam Expert networking consultants Dave Hucaby Dave Garneau and Anthony Sequeira share preparation hints and test taking tips helping you identify areas of weakness and improve both your conceptual knowledge and hands on skills

Material is presented in a concise manner focusing on increasing your understanding and retention of exam topics Well regarded for its level of detail assessment features comprehensive design scenarios and challenging review questions and exercises this official study guide helps you master the concepts and techniques that will enable you to succeed on the exam the first time 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 ASA service modules CCNP Security FIREWALL 642 618 Official Cert Guide 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

Cisco ASA Jazib 5459,Jazib Frahim,Omar Santos,2009 For organizations of all sizes the Cisco ASA product family offers powerful new tools for maximizing network security Cisco ASA All in One Firewall IPS Anti X and VPN Adaptive Security Appliance Second Edition is Cisco s authoritative practitioner s guide to planning deploying managing and troubleshooting security with Cisco ASA Written by two leading Cisco security experts this book presents each Cisco ASA solution in depth offering comprehensive sample configurations proven troubleshooting methodologies and debugging examples Readers will learn about the Cisco ASA Firewall solution and capabilities secure configuration and troubleshooting of site to site and remote access VPNs Intrusion Prevention System features built into Cisco ASA s Advanced Inspection and Prevention Security Services Module AIP SSM and Anti X features in the ASA Content Security and Control Security Services Module CSC SSM This new edition has been updated with detailed information on the latest ASA models and features Everything network professionals need to know to identify mitigate and respond to network attacks with Cisco ASA Includes detailed configuration examples with screenshots and command line references Covers the ASA 8.2 release Presents complete troubleshooting methodologies and architectural references

Cisco ASA for Accidental Administrators Don R. Crawley,2015-03-04 Cisco ASA for Accidental Administrators is a major update to the previous Accidental Administrator ASA book This new edition is packed with 48 easy to follow hands on exercises to help you build a working firewall configuration from scratch Based on software version 9.x it continues as the most straight forward approach to learning how to configure the Cisco ASA Security Appliance filled with practical tips and secrets learned from years of teaching and consulting on the ASA There is no time wasted on boring theory The essentials are covered in chapters on installing backups and restores remote administration VPNs DMZs usernames transparent mode static NAT port address translation access lists DHCP password recovery logon banners AAA authentication authorization and accounting filtering content and more Inside this concise step by step guide you ll find How to backup and restore software images and configurations How to configure different types of VPNs including AAA authentication The secrets to successfully building

and implementing access lists All this information is presented in a straight forward style that you can understand and use right away The idea is for you to be able to sit down with your ASA and build a working configuration in a matter of minutes Of course some of the more advanced configs may take a little longer but even so you ll be able to get it done in a minimal amount of time

The accidental administrator™ : Cisco ASA security appliance ; a step-by-step configuration guide Don R. Crawley,2010-08-03 There is a newer version of this book updated for software version 9 x and later Look for ISBN 978 0983660750 This version is appropriate for software versions 8 3 and 8 4 The Accidental Administrator Cisco ASA Step by Step Configuration Guide is packed with 56 easy to follow hands on exercises to help you build a working firewall configuration from scratch It s the most straight forward approach to learning how to configure the Cisco ASA Security Appliance filled with practical tips and secrets learned from years of teaching and consulting on the ASA There is no time wasted on boring theory The essentials are covered in chapters on installing backups and restores remote administration VPNs DMZs usernames transparent mode static NAT port address translation access lists DHCP password recovery logon banners AAA authentication authorization and accounting filtering content and more This book is based on software version 8 3 1 All this information is presented in a straightforward style that you can understand and use right away The idea is for you to be able to sit down with your ASA and build a working configuration in a matter of minutes Of course some of the more advanced configs may take a little longer but even so you ll be able to get it done in a minimal amount of time

Firewall Fundamentals (Cisco Press). Noonan,2006 *CCNP Security Firewall 642-617 Quick Reference* Andrew Mason,2011 *Cisco ASA Configuration* Richard Deal,2009-08-24 Richard Deal s gift of making difficult technology concepts understandable has remained constant Whether it is presenting to a room of information technology professionals or writing books Richard s communication skills are unsurpassed As information technology professionals we are faced with overcoming challenges every day Cisco ASA Configuration is a great reference and tool for answering our challenges From the Foreword by Steve Marcinek CCIE 7225 Systems Engineer Cisco Systems A hands on guide to implementing Cisco ASA Configure and maintain a Cisco ASA platform to meet the requirements of your security policy Cisco ASA Configuration shows you how to control traffic in the corporate network and protect it from internal and external threats This comprehensive resource covers the latest features available in Cisco ASA version 8 0 and includes detailed examples of complex configurations and troubleshooting Implement and manage Cisco s powerful multifunction network adaptive security appliance with help from this definitive guide Configure Cisco ASA using the command line interface CLI and Adaptive Security Device Manager ASDM Control traffic through the appliance with access control lists ACLs and object groups Filter Java ActiveX and web content Authenticate and authorize connections using Cut through Proxy CTP Use Modular Policy Framework MPF to configure security appliance features Perform protocol and application inspection Enable IPSec site to site and remote access connections Configure WebVPN components for SSL VPN access Implement advanced

features including the transparent firewall security contexts and failover Detect and prevent network attacks Prepare and manage the AIP SSM and CSC SSM cards

Securing Your Business with Cisco ASA and PIX Firewalls Greg Abelar, 2005

Protect critical data and maintain uptime with Cisco ASDM and Cisco Security Agent Understand how attacks can impact your business and the different ways attacks can occur Learn about the defense in depth model for deploying firewall and host protection Examine navigation methods and features of Cisco ASDM Set up Cisco ASA PIX Firewall and ASDM hardware and software Use the Cisco ASDM startup wizard to safely connect your network to the Internet and securely add public devices such as mail and web servers to your network Authenticate firewall users and users of public web servers Filter traffic and protect your network from perimeter attacks Deploy Cisco Intrusion Prevention System IPS to provide more granular traffic inspection and proactive threat response Stop attacks launched at the desktop by deploying Cisco Security Agent Extend the defense in depth model to remote users through IPsec virtual private networks VPN Enhance your security posture through proper security management Understand the advanced features available in the Cisco PIX version 7 operating system Recover from software failure with Cisco PIX version 7

Many people view security as a black box voodoo technology that is very sophisticated and intimidating While that might have been true a few years ago vendors have been successful in reducing the complexity and bringing security to a point where almost anyone with a good understanding of technology can deploy network security

Securing Your Business with Cisco ASA and PIX Firewalls is an extension of the work to simplify security deployment This easy to use guide helps you craft and deploy a defense in depth solution featuring the newly released Cisco ASA and PIX version 7 as well as Cisco Security Agent host intrusion prevention software The book simplifies configuration and management of these powerful security devices by discussing how to use Cisco Adaptive Security Device Manager ASDM which provides security management and monitoring services through an intuitive GUI with integrated online help and intelligent wizards to simplify setup and ongoing management In addition informative real time and historical reports provide critical insight into usage trends performance baselines and security events Complete with real world security design and implementation advice this book contains everything you need to know to deploy the latest security technology in your network

Securing Your Business with Cisco ASA and PIX Firewalls provides you with complete step by step processes for using Cisco ASDM in conjunction with Cisco Security Agent to ensure that your security posture is strong enough to stand up against any network or host attack whether sourced from the Internet or from inside your own network

Firewalls are a critical part of any integrated network security strategy and books such as this will help raise awareness of both the threats inherent in today's open heterogeneous internetworking environments and the solutions that can be applied to make the Internet a safer place

Martin E Hellman professor emeritus of Electrical Engineering Stanford University and co inventor of public key cryptography 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 Cisco ASA, PIX, and FWSM Firewall Handbook David Hucaby, 2007-08-09

Cisco ASA PIX and FWSM Firewall Handbook Second Edition is a guide for the most commonly implemented features of the popular Cisco firewall security solutions Fully updated to cover the latest firewall releases this book helps you to quickly and easily configure integrate and manage the entire suite of Cisco firewall products including ASA PIX and the Catalyst Firewall Services Module FWSM Organized by families of features this book helps you get up to speed quickly and efficiently on topics such as file management building connectivity controlling access firewall management increasing availability with failover load balancing logging and verifying operation Sections are marked by shaded tabs for quick reference and information on each feature is presented in a concise format with background configuration and example components Whether you are looking for an introduction to the latest ASA PIX and FWSM devices or a complete reference for making the most out of your Cisco firewall deployments Cisco ASA PIX and FWSM Firewall Handbook Second Edition helps you achieve maximum protection of your network resources Many books on network security and firewalls settle for a discussion focused primarily on concepts and theory This book however goes well beyond these topics It covers in tremendous detail the information every network and security administrator needs to know when configuring and managing market leading firewall products from Cisco Jason Nolet Vice President of Engineering Security Technology Group Cisco David Hucaby CCIE No 4594 is a lead network engineer for the University of Kentucky where he works with health care networks based on the Cisco Catalyst ASA FWSM and VPN product lines He was one of the beta reviewers of the ASA 8 0 operating system software Learn about the various firewall models user interfaces feature sets and configuration methods Understand how a Cisco firewall inspects traffic Configure firewall interfaces routing IP addressing services and IP multicast support Maintain security contexts and flash and configuration files manage users and monitor firewalls with SNMP Authenticate authorize and maintain accounting records for firewall users Control access through the firewall by implementing transparent and routed firewall modes address translation and traffic shunning Define security policies that identify and act on various types of traffic with the Modular Policy Framework Increase firewall availability with firewall failover operation Understand how firewall load balancing works Generate firewall activity logs and learn how to analyze the contents of the log Verify firewall operation and connectivity and observe data passing through a firewall Configure Security Services Modules such as the Content Security Control CSC module and the Advanced Inspection Processor AIP module 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 Cisco ASA 8 0 PIX 6 3 and FWSM 3 2 version firewalls Cisco ASA and PIX Firewall Handbook Dave Hucaby, 2005

The complete guide to the most popular Cisco PIX ASA FWSM and IOS firewall security features Learn about the various firewall models user interfaces feature sets and configuration methods Understand how a Cisco firewall inspects traffic

Configure firewall interfaces routing IP addressing services and IP multicast support Maintain security contexts and Flash and configuration files manage users and monitor firewalls with SNMP Authenticate authorize and maintain accounting records for firewall users Control access through the firewall by implementing transparent and routed firewall modes address translation traffic filtering user authentication content filtering application inspection and traffic shunning Increase firewall availability with firewall failover operation Understand how firewall load balancing works Generate firewall activity logs and learn how to analyze the contents of the log Verify firewall operation and connectivity and observe data passing through a firewall Control access and manage activity on the Cisco IOS firewall Configure a Cisco firewall to act as an IDS sensor Every organization has data facilities and workflow processes that are critical to their success As more organizations make greater use of the Internet defending against network attacks becomes crucial for businesses Productivity gains and returns on company investments are at risk if the network is not properly defended Firewalls have emerged as the essential foundation component in any network security architecture Cisco ASA and PIX Firewall Handbook is a guide for the most commonly implemented features of the popular Cisco Systems firewall security solutions This is the first book to cover the revolutionary Cisco ASA and PIX version 7 security appliances This book will help you quickly and easily configure integrate and manage the entire suite of Cisco firewall products including Cisco ASA PIX version 7 and 6 3 the Cisco IOS router firewall and the Catalyst Firewall Services Module FWSM Organized by families of features this book helps you get up to speed quickly and efficiently on topics such as file management building connectivity controlling access firewall management increasing availability with failover load balancing logging and verifying operation Shaded thumbtabs mark each section for quick reference and each section provides information in a concise format with background configuration and example components Each section also has a quick reference table of commands that you can use to troubleshoot or display information about the features presented Appendixes present lists of well known IP protocol numbers ICMP message types and IP port numbers that are supported in firewall configuration commands and provide a quick reference to the many logging messages that can be generated from a Cisco PIX ASA FWSM or IOS firewall Whether you are looking for an introduction to the firewall features of the new ASA security appliance a guide to configuring firewalls with the new Cisco PIX version 7 operating system or a complete reference for making the most out of your Cisco ASA PIX IOS and FWSM firewall deployments Cisco ASA and PIX Firewall Handbook helps you achieve maximum protection of your network resources Many books on network security and firewalls settle for a discussion focused primarily on concepts and theory This book however goes well beyond these topics It covers in tremendous detail the information every network and security administrator needs to know when co

Cisco Firewalls Alexandre M.S.P. Moraes, 2011-06-06 Cisco Firewalls Concepts design and deployment for Cisco Stateful Firewall solutions In this book Alexandre proposes a totally different approach to the important subject of firewalls Instead of just presenting configuration models he uses a set of carefully crafted examples

to illustrate the theory in action A must read Luc Billot Security Consulting Engineer at Cisco Cisco Firewalls thoroughly explains each of the leading Cisco firewall products features and solutions and shows how they can add value to any network security design or operation The author tightly links theory with practice demonstrating how to integrate Cisco firewalls into highly secure self defending networks Cisco Firewalls shows you how to deploy Cisco firewalls as an essential component of every network infrastructure The book takes the unique approach of illustrating complex configuration concepts through step by step examples that demonstrate the theory in action This is the first book with detailed coverage of firewalling Unified Communications systems network virtualization architectures and environments that include virtual machines The author also presents indispensable information about integrating firewalls with other security elements such as IPS VPNs and load balancers as well as a complete introduction to firewalling IPv6 networks Cisco Firewalls will be an indispensable resource for engineers and architects designing and implementing firewalls security administrators operators and support professionals and anyone preparing for the CCNA Security CCNP Security or CCIE Security certification exams Alexandre Matos da Silva Pires de Moraes CCIE No 6063 has worked as a Systems Engineer for Cisco Brazil since 1998 in projects that involve not only Security and VPN technologies but also Routing Protocol and Campus Design IP Multicast Routing and MPLS Networks Design He coordinated a team of Security engineers in Brazil and holds the CISSP CCSP and three CCIE certifications Routing Switching Security and Service Provider A frequent speaker at Cisco Live he holds a degree in electronic engineering from the Instituto Tecnológico de Aeronáutica ITA Brazil Create advanced security designs utilizing the entire Cisco firewall product family Choose the right firewalls based on your performance requirements Learn firewall configuration fundamentals and master the tools that provide insight about firewall operations Properly insert firewalls in your network's topology using Layer 3 or Layer 2 connectivity Use Cisco firewalls as part of a robust secure virtualization architecture Deploy Cisco ASA firewalls with or without NAT Take full advantage of the classic IOS firewall feature set CBAC Implement flexible security policies with the Zone Policy Firewall ZPF Strengthen stateful inspection with antispoofing TCP normalization connection limiting and IP fragmentation handling Use application layer inspection capabilities built into Cisco firewalls Inspect IP voice protocols including SCCP H 323 SIP and MGCP Utilize identity to provide user based stateful functionality Understand how multicast traffic is handled through firewalls Use firewalls to protect your IPv6 deployments 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 [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

CCNP Security FIREWALL 642-617 Official Cert Guide David Hucaby,Dave Garneau,Anthony J. Sequeira,2011-09-19 This is the eBook version of the printed book The eBook does not contain the practice test software that accompanies the print book CCNP Security FIREWALL 642 617 Official Cert Guide is a best of breed Cisco exam study guide that focuses specifically on the objectives for the CCNP Security FIREWALL exam Senior security consultants and instructors David Hucaby Dave Garneau and Anthony Sequeira share preparation hints and test taking tips helping you identify areas of weakness and improve both your conceptual knowledge and hands on skills Material is presented in a concise manner focusing on increasing your understanding and retention of exam topics Learn prepare and practice for exam success Master CCNP Security FIREWALL 642 617 exam topics Assess your knowledge with chapter opening quizzes Review key concepts with exam preparation tasks CCNP Security FIREWALL 642 617 Official Cert Guide presents you with an organized test preparation routine through the use of proven series elements and techniques Do I Know This Already quizzes open each chapter and enable you to decide how much time you need to spend on each section Exam topic lists make referencing easy Chapter ending Exam Preparation Tasks help you drill on key concepts you must know thoroughly Well regarded for its level of detail assessment features and challenging review questions and exercises this official study guide helps you master the concepts and techniques that will enable you to succeed on the exam the first time CCNP Security FIREWALL 642 617 Official Cert Guide is part of a recommended learning

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Network Security with Netflow and IPFIX Omar Santos, 2015-09-08 A comprehensive guide for deploying configuring and troubleshooting NetFlow and learning big data analytics technologies for cyber security Today's world of network security is full of cyber security vulnerabilities incidents breaches and many headaches Visibility into the network is an indispensable tool for network and security professionals and Cisco NetFlow creates an environment where network administrators and security professionals have the tools to understand who what when where and how network traffic is flowing Network Security with NetFlow and IPFIX is a key resource for introducing yourself to and understanding the power behind the Cisco NetFlow solution Omar Santos a Cisco Product Security Incident Response Team PSIRT technical leader and author of numerous books including the CCNA Security 210-260 Official Cert Guide details the importance of NetFlow and demonstrates how it can be used by large enterprises and small to medium sized businesses to meet critical network challenges This book also examines NetFlow's potential as a powerful network security tool Network Security with NetFlow and IPFIX explores everything you need to know to fully understand and implement the Cisco Cyber Threat Defense Solution It also provides detailed configuration and troubleshooting guidance sample configurations with depth analysis of design scenarios in every chapter and detailed case studies with real life scenarios You can follow Omar on Twitter [santosomar](https://twitter.com/santosomar) NetFlow and IPFIX basics Cisco NetFlow versions and features Cisco Flexible NetFlow NetFlow Commercial and Open Source Software Packages Big Data Analytics tools and technologies such as Hadoop Flume Kafka Storm Hive HBase Elasticsearch Logstash Kibana ELK Additional Telemetry Sources for Big Data Analytics for Cyber Security Understanding big data scalability Big data analytics in the Internet of everything Cisco Cyber Threat Defense and NetFlow Troubleshooting NetFlow Real world case studies

CCNP Security FIREWALL 642-618 Quick Reference Anthony J. Sequeira, 2012-04-23 As a final exam preparation tool CCNP Security Firewall 642-618 Quick Reference provides a concise review of all objectives on the new CCNP Security Firewall exam 642-618 This eBook provides you with detailed graphical based information highlighting only the key topics in cram style format With this document as your guide you will review topics on firewall basics the ASA product family ASA configuration with

both the CLI and ASDM ASA access control ASA network integration AAA configuration and ASA HA This fact filled Quick Reference allows you to get all important information at a glance helping you to focus your study on areas of weakness and to enhance memory retention of essential exam concepts

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