

Step-by-Step Configuration Tutorial Using the CLI

For Cisco®
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Cisco® ASA Firewall Fundamentals - 3rd Edition



By: Harris Andrea
(CCNA, CCNP, CCSP)

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Cisco Asa Firewall Fundamentals 3rd Edition Step By Step

Richard A. Deal



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

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

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

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

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

The Complete Cisco VPN Configuration Guide Richard A. Deal, 2006 Safari Books Online enabled P 4 of cover

Cisco Next-Generation Security Solutions Omar Santos, Panos Kampanakis, Aaron Woland, 2016-07-06 Network threats are emerging and changing faster than ever before Cisco Next Generation Network Security technologies give you all the visibility and control you need to anticipate and meet tomorrow's threats wherever they appear Now three Cisco network security experts introduce these products and solutions and offer expert guidance for planning deploying and operating them The authors present authoritative coverage of Cisco ASA with FirePOWER Services Cisco Firepower Threat Defense FTD Cisco Next Generation IPS appliances the Cisco Web Security Appliance WSA with integrated Advanced Malware Protection AMP Cisco Email Security Appliance ESA with integrated Advanced Malware Protection AMP Cisco AMP ThreatGrid Malware Analysis and Threat Intelligence and the Cisco Firepower Management Center FMC You'll find everything you need to succeed easy to follow configurations application case studies practical triage and troubleshooting methodologies and much more Effectively respond to changing threat landscapes and attack continuums Design Cisco ASA with FirePOWER Services and Cisco Firepower Threat Defense FTD solutions Set up configure and troubleshoot the Cisco ASA FirePOWER Services module and Cisco Firepower Threat Defense Walk through installing AMP Private Clouds Deploy Cisco AMP for Networks and configure malware and file policies Implement AMP for Content Security and configure File Reputation and File Analysis Services Master Cisco AMP for Endpoints including custom detection application control and policy management Make the most of the AMP ThreatGrid dynamic malware analysis engine Manage Next Generation Security Devices with the Firepower Management Center FMC Plan implement and configure Cisco Next Generation IPS including performance and redundancy Create Cisco Next Generation IPS custom reports and analyses Quickly identify the root causes of security problems

Cisco CyberOps Associate CBROPS 200-201 Official Cert Guide Omar Santos, 2020-11-23 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 CyberOps Associate CBROPS 200 201 exam topics Assess your knowledge with chapter opening quizzes Review key concepts with exam preparation tasks This is the eBook edition of the Cisco CyberOps Associate CBROPS 200 201 Official Cert Guide This eBook does not include access to the companion website with practice exam that comes with the print edition Cisco CyberOps Associate CBROPS 200 201 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 Cisco CyberOps Associate CBROPS 200 201 Official Cert Guide focuses specifically on the Cisco CBROPS exam objectives Leading Cisco technology expert Omar Santos shares 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 Cisco CyberOps Associate CBROPS 200 201 exam including Security concepts Security monitoring Host based analysis Network intrusion analysis Security policies and procedures

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 Tecnol gico de Aeron utica 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 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 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

Cisco Firepower Threat Defense (FTD) Nazmul Rajib, 2017-11-21 The authoritative visual guide to Cisco Firepower Threat Defense FTD This is the definitive guide to best practices and advanced troubleshooting techniques for the Cisco flagship Firepower Threat Defense FTD system running on Cisco ASA platforms Cisco Firepower security appliances Firepower eXtensible Operating System FXOS and VMware virtual appliances Senior Cisco engineer Nazmul Rajib draws on unsurpassed experience supporting and training Cisco Firepower engineers worldwide and presenting detailed knowledge of Cisco Firepower deployment tuning and troubleshooting Writing for cybersecurity consultants service providers channel partners and enterprise or government security professionals he shows how to deploy the Cisco Firepower next generation security technologies to protect your network from potential cyber threats and how to use Firepower s robust command line tools to investigate a wide variety of technical issues Each consistently organized chapter contains definitions of keywords operational flowcharts architectural diagrams best practices configuration steps with detailed screenshots verification tools troubleshooting techniques and FAQs drawn directly from issues raised by Cisco customers at the Global Technical Assistance Center TAC Covering key Firepower materials on the CCNA Security CCNP Security and CCIE Security exams this guide also includes end of chapter quizzes to help candidates prepare Understand the operational architecture of the Cisco Firepower NGFW NGIPS and AMP technologies Deploy FTD on ASA platform and Firepower appliance running FXOS Configure and troubleshoot Firepower Management Center FMC Plan and deploy FMC and FTD on VMware virtual appliance Design and implement the Firepower management network on FMC and FTD Understand and apply Firepower licenses and register FTD with FMC Deploy FTD in Routed Transparent Inline Inline Tap and Passive Modes Manage traffic flow with detect only block trust and bypass operations Implement rate limiting and analyze quality of service QoS Blacklist suspicious IP addresses via Security Intelligence Block DNS queries to the malicious domains Filter URLs based on category risk and reputation Discover a network and implement application visibility and control AVC Control file transfers and block malicious files using advanced malware protection AMP Halt cyber attacks using Snort based intrusion rule Masquerade an internal host s original IP address using Network Address Translation NAT Capture traffic and obtain troubleshooting files for advanced analysis Use command line tools to identify status trace packet flows analyze logs and debug messages

CCNA Security 210-260 Official Cert Guide Omar Santos, John Stuppi, 2015-09-01 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 CCNA Security 210 260 Official Cert Guide exam topics Assess your knowledge with chapter opening quizzes Review key concepts with exam preparation tasks This is the eBook edition of the CCNA Security 210 260 Official Cert Guide This eBook does not include the companion CD ROM with practice exam that comes with the print edition CCNA Security 210 260 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 CCNA Security 210 260 Official Cert Guide focuses specifically on the objectives for the Cisco CCNA Security exam Networking Security experts Omar Santos and John Stuppi 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 CCNA Security exam including Networking security concepts Common security threats Implementing AAA using IOS and ISE Bring Your Own Device BYOD Fundamentals of VPN technology and cryptography Fundamentals of IP security Implementing IPsec site to site VPNs Implementing SSL remote access VPNs using Cisco ASA Securing Layer 2 technologies Network Foundation Protection NFP Securing the management plane on Cisco IOS devices Securing the data plane Securing routing protocols and the control plane Understanding firewall fundamentals Implementing Cisco IOS zone based firewalls Configuring basic firewall policies on Cisco ASA Cisco IPS fundamentals Mitigation technologies for e mail and web based threats Mitigation technologies for endpoint threats CCNA Security 210 260 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 <http://www.cisco.com/web/learning/index.html>

CCNA 200-301 Official Cert Guide, Volume 2 Wendell Odom, 2019-12-10 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 This book combined with CCNA 200 301 Official Cert Guide Volume 1 covers all the exam topics on the CCNA 200 301 exam Master Cisco CCNA 200 301 exam topics Assess your knowledge with chapter opening quizzes Review key concepts with exam preparation tasks This is the eBook edition of CCNA 200 301 Official Cert Guide Volume 2 This eBook does not include access to the Pearson Test Prep practice exams that comes with the print edition CCNA 200 301 Official Cert Guide Volume 2 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 CCNA 200 301 Official Cert Guide Volume 2 from Cisco Press enables you to succeed on the exam the first time and is the only self study resource approved by Cisco Best selling author Wendell Odom shares preparation hints and test taking tips helping you identify areas of weakness and improve both your conceptual knowledge and hands on skills This complete study package includes A test preparation routine proven to help you pass the exams Do I Know This Already quizzes which enable you to decide how much time you need to spend on each section Chapter ending Key Topic tables which help you drill on key concepts you must know thoroughly A free copy of the CCNA 200 301 Network Simulator Volume 2 Lite software complete with meaningful lab exercises that help you hone your hands on skills with the command line interface for routers and switches Links to a series of hands on config labs developed by the author Online interactive practice exercises that help you enhance your knowledge More than 50 minutes of video mentoring from the author An online interactive Flash Cards application to help you drill on Key Terms by chapter A final preparation chapter which guides you through tools and resources to help you craft your review and test taking strategies Study plan suggestions and templates to help you organize and optimize your study time Well regarded for its level of detail study plans assessment features hands on labs and challenging review questions and exercises this official study guide helps you master the concepts and techniques that ensure your exam success CCNA 200 301 Official Cert Guide Volume 2 combined with CCNA 200 301 Official Cert Guide Volume 1 walk you through all the exam topics found in the Cisco 200 301 exam Topics covered in Volume 2 include IP access control lists Security services IP services Network architecture Network automation Companion Website The companion website contains CCNA Network Simulator Lite software practice exercises 50 minutes of video training and other study resources See the Where Are the Companion Files on the last page of your eBook file for instructions on how to access In addition to the wealth of content this new edition includes a series of free hands on exercises to help you master several real world configuration activities These exercises can be performed on the CCNA 200 301 Network Simulator Lite Volume 2 software included for free on the companion website that accompanies this book

The Basics of Hacking and Penetration Testing Patrick Engebretson,2013-06-24 The Basics of Hacking and Penetration Testing Second Edition serves as an introduction to the steps required to complete a penetration test or perform an ethical hack from beginning to end The book teaches students how to properly utilize and interpret the results of the modern day hacking tools required to complete a penetration test It provides a simple and clean explanation of how to effectively utilize these tools along with a four step methodology for conducting a penetration test or hack thus equipping students with the know how required to jump start their careers and gain a better understanding of offensive security Each chapter contains hands on examples and exercises that are designed to teach learners how to interpret results and utilize those results in later phases Tool coverage includes Backtrack Linux Google reconnaissance MetaGooFil dig Nmap Nessus Metasploit Fast Track Autopwn Netcat and Hacker Defender rootkit This is complemented by PowerPoint slides for use in class This book is an ideal resource for security consultants beginning InfoSec professionals and students Each chapter contains hands on examples and exercises that are designed to teach you how to interpret the results and utilize those results in later phases Written by an author who works in the field as a Penetration Tester and who teaches Offensive Security Penetration Testing and Ethical Hacking and Exploitation classes at Dakota State University Utilizes the Kali Linux distribution and focuses on the seminal tools required to complete a penetration test

Guide to Cisco Routers Configuration Mohammed Alani,2012-07-04 This work provides a guide to the configuration of Cisco routers from tasks for beginners to advanced operations A collection of detailed how to instructions are presented which will be of use to all professionals and students who engage with Cisco routers in the field or in the lab The guide starts with the simple step by step task of connecting the router and performing basic configuration before building up to complex and sensitive operations such as router IOS upgrade and Site to Site VPNs

Cisco Firewalls Alexandre Matos da Silva Pires de Moraes, 2011 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 Tecnol gico de Aeron utica 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

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

CCNP Security Virtual Private Networks SVPN 300-730 Official Cert Guide Joseph Muniz, James Risler, Steven Chimes, 2021-12-07

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