



SECURITY

Cisco Secure Firewall Services Module (FWSM)

Cisco Secure Firewall Services Module Fwsm

SJ Ball



Cisco Secure Firewall Services Module Fwsm:

Cisco Secure Firewall Services Module (FWSM) Ray Blair,Arvind Durai,2008-08-29 This is the eBook of the printed book and may not include any media website access codes or print supplements that may come packaged with the bound book The Firewall Services Module FWSM is a high performance stateful inspection firewall that integrates into the Cisco 6500 switch and 7600 router chassis The FWSM monitors traffic flows using application inspection engines to provide a strong level of network security The FWSM defines the security parameter and enables the enforcement of security policies through authentication access control lists and protocol inspection The FWSM is a key component to anyone deploying network security Cisco Secure Firewall Services Module FWSM covers all aspects of the FWSM The book provides a detailed look at how the FWSM processes information as well as installation advice configuration details recommendations for network integration and reviews of operation and management This book provides you with a single source that comprehensively answers how and why the FWSM functions as it does This information enables you to successfully deploy the FWSM and gain the greatest functional benefit from your deployment Practical examples throughout show you how other customers have successfully deployed the FWSM By reading this book you will learn how the FWSM functions the differences between the FWSM and the ASA Security Appliance how to implement and maintain the FWSM the latest features of the FWSM and how to configure common installations 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 Secure Firewall Services Module (FWSM) Ray Blair,Arvind Durai,2008

Cisco Secure Firewall Services Module (FWSM). CCIE No. 7050 Ray Blair,2008 *CCSP Complete Study Guide* Todd Lammle,Wade Edwards,Tom Lancaster,Justin Menga,Eric Quinn,Jason Rohm,Carl Timm,Bryant G. Tow,2006-07-14 The Most Comprehensive and Current CCSP Self Study Solution on the Market Here s the comprehensive and economical self study solution that will provide you with the knowledge and skills needed to approach the CCSP exams with confidence This Study Guide was developed to meet the exacting requirements of today s certification candidates In addition to the consistent and accessible instructional approach that has earned Sybex the reputation as the leading publisher for certification study guides this book provides Clear and concise information on securing Cisco internetworks Practical examples and insights drawn from real world experience Leading edge exam preparation software including a testing engine and electronic flashcards And of course you ll find in depth coverage of all official objectives for all five exams required for the CCSP 642 501 Securing Cisco IOS Networks 642 511 Cisco Secure VPN 642 521 Cisco Secure PIX Firewall Advanced 642 531 Cisco Secure Intrusion Detection System 642 541 Cisco SAFE Implementation Note CD ROM DVD and other supplementary materials are not included as part of eBook file CCSP: Secure PIX and Secure VPN Study Guide Wade Edwards,Tom Lancaster,Eric Quinn,Jason Rohm,Bryant G. Tow,2006-02-20 Here s the book you need to prepare for Cisco s Secure PIX Firewall CSPFA

and Secure VPN CSVPN exams This two in one Study Guide provides In depth coverage of all exam topics Practical information on implementing Cisco s Secure PIX and Secure VPN technologies Hundreds of challenging review questions Leading edge exam preparation software including a test engine and electronic flashcards Authoritative coverage of all exam objectives including Secure PIX Firewall Translations and Connections Access Control Lists and Content Filtering Object Grouping Advanced Protocol Handling Attack Guards Intrusion Detection and Shunning Authentication Authorization and Accounting Failover Cisco PIX Device Manager Enterprise PIX Firewall Management and Maintenance Firewall Services Module Secure VPN VPN and IPSec Technology Overview VPN 3000 Concentrator Series Hardware Remote Access with Pre shared Keys and Digital Certificates IPSec Software Client Firewalls Software Client Auto Initiation Hardware Client Configuration Network Client Backup and Load Balancing Software Auto Update Configuring for the IPSec Over UDP and IPSec Over TCP LAN to LAN with Pre Shared Keys NAT and Digital Certificates Note CD ROM DVD and other supplementary materials are not included as part of eBook file

Network Security Technologies and Solutions (CCIE Professional Development Series) Yusuf Bhaiji, 2008-03-20 CCIE Professional Development Network Security Technologies and Solutions A comprehensive all in one reference for Cisco network security Yusuf Bhaiji CCIE No 9305 Network Security Technologies and Solutions is a comprehensive reference to the most cutting edge security products and methodologies available to networking professionals today This book helps you understand and implement current state of the art network security technologies to ensure secure communications throughout the network infrastructure With an easy to follow approach this book serves as a central repository of security knowledge to help you implement end to end security solutions and provides a single source of knowledge covering the entire range of the Cisco network security portfolio The book is divided into five parts mapping to Cisco security technologies and solutions perimeter security identity security and access management data privacy security monitoring and security management Together all these elements enable dynamic links between customer security policy user or host identity and network infrastructures With this definitive reference you can gain a greater understanding of the solutions available and learn how to build integrated secure networks in today s modern heterogeneous networking environment This book is an excellent resource for those seeking a comprehensive reference on mature and emerging security tactics and is also a great study guide for the CCIE Security exam Yusuf s extensive experience as a mentor and advisor in the security technology field has honed his ability to translate highly technical information into a straight forward easy to understand format If you re looking for a truly comprehensive guide to network security this is the one Steve Gordon Vice President Technical Services Cisco Yusuf Bhaiji CCIE No 9305 R S and Security has been with Cisco for seven years and is currently the program manager for Cisco CCIE Security certification He is also the CCIE Proctor in the Cisco Dubai Lab Prior to this he was technical lead for the Sydney TAC Security and VPN team at Cisco Filter traffic with access lists and implement security features on switches Configure Cisco IOS router firewall features and

deploy ASA and PIX Firewall appliances Understand attack vectors and apply Layer 2 and Layer 3 mitigation techniques Secure management access with AAA Secure access control using multifactor authentication technology Implement identity based network access control Apply the latest wireless LAN security solutions Enforce security policy compliance with Cisco NAC Learn the basics of cryptography and implement IPsec VPNs DMVPN GET VPN SSL VPN and MPLS VPN technologies Monitor network activity and security incident response with network and host intrusion prevention anomaly detection and security monitoring and correlation Deploy security management solutions such as Cisco Security Manager SDM ADSM PDM and IDM Learn about regulatory compliance issues such as GLBA HIPPA and SOX This book is part of the Cisco CCIE Professional Development Series from Cisco Press which offers expert level instr

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

Hacking Exposed Cisco Networks Andrew Vladimirov, Konstantin Gavrilenko, Andrei Mikhailovsky, 2006-01-06 Here is the first book to focus solely on Cisco network hacking security auditing and defense issues Using the proven Hacking Exposed methodology this book shows you how to locate and patch system vulnerabilities by looking at your Cisco network through the eyes of a hacker The book covers device specific and network centered attacks and defenses and offers real world case studies

Network Security 1 and 2 Companion Guide Antoon W. Ruffi, 2006 The only authorized Companion Guide for the Cisco Networking Academy Program The Network Security 1 and 2 Companion Guide is designed as a portable desk reference to be used with version 2 0 of the Cisco Networking Academy Program curriculum The author reinforces the material in the two courses to help you to focus on important concepts and to organize your study time for exams This book covers the overall security process based on security policy design and management with an emphasis on security technologies products and solutions The book also focuses on security appliance and secure router design installation configuration and maintenance The first section of this book covers authentication authorization and accounting AAA implementation using routers and security appliances and securing the network at both Layer 2 and Layer 3 of the OSI reference model The second section of this book covers intrusion prevention system IPS implementation using routers and security appliances and virtual private network VPN implementation using routers and security appliances New and improved features help you study and succeed in this course Chapter objectives Review core concepts by answering the questions at the beginning of each chapter Key terms Note the networking vocabulary to be introduced and refer to the highlighted terms in context in that chapter Scenarios and setup sequences Visualize real life situations with details about the problem and the solution Chapter Summaries Review a synopsis of the chapter as a study aid Glossary Consult the all new glossary with more than 85 terms Check Your Understanding questions and answer key Evaluate your readiness to move to the next chapter with the updated end of chapter questions The answer appendix explains each answer Lab References Stop when you see this icon and perform the related labs in the online curriculum Companion CD ROM The CD ROM includes Interactive Media Elements More than 95 activities that visually demonstrate some of the topics in the course Additional Resources Command reference and materials to enhance your experience with the curriculum

Firewall Fundamentals Wesley J. Noonan, Ido Dubrawsky, 2006 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

Cisco A Beginner's Guide, Fifth Edition Toby Velte,Anthony Velte,2013-09-05 Cisco networking essentials made easy Get a solid foundation in Cisco products and technologies from this fully updated bestseller Covering the latest solutions Cisco A Beginner s Guide Fifth Edition shows you step by step how to design build and manage custom networks Learn how to configure hardware use IOS commands set up wireless networks and secure your systems You ll also get tips on preparing for Cisco certification exams Brand new voice and social networking features Cisco TelePresence the cloud based Cisco Unified Computing System and more are fully covered in this practical resource Understand Cisco networking and Internet basics Connect and configure routers and switches Work with TCP IP Wi Fi and Ethernet technologies Maintain your network through IOS and IOS XR Handle security using firewalls Adaptive Security Appliances SecureX TrustSec and other tools Virtualize hardware and migrate resources to a private cloud Manage wireless networks with Aironet and Airespace Deliver VoIP video and social networking services Design administer and tune a Cisco enterprise network Identify and repair performance issues and bottlenecks

Self-defending Networks Duane De Capite,2007

Protect your network with self regulating network security solutions that combat both internal and external threats Provides an overview of the security components used to design proactive network security Helps network security professionals understand what the latest tools and techniques can do and how they interact Presents detailed information on how to use integrated management to increase security Includes a design guide with step by step implementation instructions Self Defending Networks The Next Generation of Network Security helps networking professionals understand how to deploy an end to end integrated network security solution It presents a clear view of the various components that can be used throughout the network to not only monitor traffic but to allow the network itself to become more proactive in preventing and mitigating network attacks This security primer provides unique insight into the entire range of Cisco security solutions showing what each element is capable of doing and how all of the pieces work together to form an end to end Self Defending Network While other books tend to focus on individual security components providing in depth configuration guidelines for various devices and technologies Self Defending Networks instead presents a high level overview of the entire range of technologies and techniques that comprise the latest thinking in proactive network security defenses This book arms network security professionals with the latest information on the comprehensive suite of Cisco security tools and techniques Network Admission Control Network Infection Containment Dynamic Attack Mitigation DDoS Mitigation Host Intrusion Prevention

and Integrated Security Management are all covered providing the most complete overview of various security systems It focuses on leveraging integrated management rather than including a device by device manual to implement self defending networks

IT Security Interviews Exposed Chris Butler, 2007 Technology professionals seeking higher paying security jobs need to know security fundamentals to land the job and this book will help Divided into two parts how to get the job and a security crash course to prepare for the job interview Security is one of today s fastest growing IT specialties and this book will appeal to technology professionals looking to segue to a security focused position Discusses creating a resume dealing with headhunters interviewing making a data stream flow classifying security threats building a lab building a hacker s toolkit and documenting work The number of information security jobs is growing at an estimated rate of 14 percent a year and is expected to reach 2.1 million jobs by 2008

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

CCSP Cisco Secure PIX Firewall Advanced Exam Certification Guide Greg Bastien, Earl Carter, Christian Degu, 2005 Official self study test preparation guide for the Cisco CSPFA 642-521 exam Coverage of the CSPFA topics enables you to fill your knowledge gaps before the exam date You ll learn about The comprehensive line of Cisco PIX Firewall products and the technology and features central to each one Transport protocols Network Address Translation NAT and Port Address Translation PAT Reporting tool use and administration using Firewall MC Using access control lists and URL filtering Attack guards and intrusion detection Cisco Firewall Services Module FWSM deployment and configuration Concepts and configurations that support failovers Enabling

a secure virtual private network VPN Using Cisco PIX Device Manager to configure a firewall and create VPNs Becoming a CCSP distinguishes you as part of an exclusive group of experts ready to take on today's most challenging security tasks Administration of the Cisco PIX Firewall is a difficult and complex task critical for protecting a network certification learning what you need to know to pass the Cisco Secure PIX Firewall Advanced CSPFA exam will qualify you to keep your company's network safe while meeting business needs Each chapter of the CCSP Cisco Secure PIX Firewall Advanced Exam Certification Guide Second Edition tests your knowledge of the exam subjects through features such as quizzes sections that detail exam topics to master and summary sections that highlight essential subjects for quick reference and review Because experienced IT professionals agree that the most demanding portion of their jobs is troubleshooting the final section of this book includes scenarios dedicated to troubleshooting Cisco PIX Firewall configuration This includes a description of the problem a portion of the system configuration debug output and suggestions to help you resolve the issue practice exams that mimic the real testing environment focus on particular topic areas randomize answers for reusability track your progress and refer to the electronic text for review CCSP Cisco Secure PIX Firewall Advanced Exam Certification Guide Second Edition is part of a recommended learning path from Cisco Systems 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 Greg Bastien CCSP CISSP is the chief technical officer for Virtue Technologies Inc where he provides consulting services to various federal agencies and commercial clients Greg also holds a position as adjunct professor at Strayer University teaching networking and network security classes He completed his undergraduate and graduate degrees at Embry Riddle Aeronautical University while on active duty as a helicopter flight instructor in the US Army that is part of Consulting Engineering CE at Cisco Systems His duties involve performing security evaluations on numerous Cisco products and consulting with other teams within Cisco to help enhance the security of Cisco products Christian Abera Degu CCSP CISSP works as a senior network engineer for General Dynamics Network Systems Signal Solutions consulting with the US Federal Energy Regulatory commission Companion CD ROM This companion CD ROM contains a test bank with more than 100 practice exam questions unique to this book CD ROM test engine powered by www.boson.com Boson Software is a Cisco Learning Partner This volume is part of the Exam Certification Guide Series from Cisco Press Books in this series provide officially developed exam preparation materials that offer assessment review and practice to help Cisco Career Certification candidates identify weaknesses concentrate their study efforts and enhance their confidence as exam day nears

The British National Bibliography Arthur James Wells, 2009 **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 Firewall Technologies (Digital Short Cut) Andrew Mason, 2007-01-25 This is the eBook version of the printed book Cisco Firewall Technologies Digital Short Cut Andrew Mason ISBN 10 1 58705 329 2 ISBN 13 978 1 58705 329 0 Cisco Firewall Technologies provides you with a no nonsense easy to read guide to different

types of firewall technologies along with information on how these technologies are represented in the Cisco firewall product family. The main Cisco products covered are the IOS Firewall, the PIX Firewall, and the ASA. The majority of focus for the Short Cut will be on the ASA, and emphasis will be placed upon the latest functionality released in version 7.2. The Short Cut also provides a walkthrough for configuring the ASA using the Adaptive Security Device Manager (ASDM), the GUI management and configuration tool provided with the ASA. The Short Cut presents you with the background information and product knowledge to make qualified decisions about the type of firewall technology that best fits your working environment. This is a Cisco technology focused Short Cut, so the emphasis will be solely on Cisco firewall products.

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About the Author Andrew Mason CCIE No 7144 is a networking and security consultant based in the UK. He holds various industry certifications including CCIE, CISSP, and CEH. Andrew has 15 years experience in the IT industry working in Internet security for the past several years. He is involved daily in the design and implementation of security deployments for numerous clients based upon Cisco technology.

About the Technical Editor David Hucaby CCIE No 4594 is a lead network engineer for the University of Kentucky where he works with healthcare networks based on the Cisco Catalyst, ASA, PIX, FWSM, security, and VPN product lines. David was one of the beta reviewers of the PIX Firewall 7.0 operating system software. David has a B.S. and M.S. in electrical engineering from the University of Kentucky and has worked in the IT field for 19 years. He lives in Kentucky with his wife Marci and two daughters.

Chengdu ligong daxue xuebao, 2006

Cisco Products Source: Wikipedia, 2013-09

Please note that the content of this book primarily consists of articles available from Wikipedia or other free sources online.

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Excerpt

Cisco PIX

Private Internet eXchange is a popular IP firewall and network address translation (NAT) appliance. It was one of the first products in this market segment. In 2005, Cisco introduced the newer Adaptive Security Appliance (ASA) that inherited much of PIX features, and in 2008 announced PIX end of sale. The PIX technology is still sold in a blade, the FireWall Services Module (FWSM) for the Cisco Catalyst 6500 switch series and the 7600 Router series. PIX was originally conceived in early 1994 by John Mayes of Redwood City, California, and designed and coded by Brantley Coile of Athens, Georgia. The PIX name is derived from its creators' aim of creating the functional equivalent of an IP PBX to solve the

then emerging registered IP address shortage At a time when NAT was just being investigated as a viable approach they wanted to conceal a block or blocks of IP addresses behind a single or multiple registered IP addresses much as PBXs do for

The Enigmatic Realm of **Cisco Secure Firewall Services Module Fwsm**: Unleashing the Language is Inner Magic

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