Hacking Exposed Cisco Networks Cisco Security Secrets Solutions

Hacking Exposed Cisco Networks Cisco Security Secrets Solutions Hacking Exposed Unlocking Cisco Network Security Secrets Solutions The world of Cisco networking is vast and complex a powerful engine driving global communication and data flow But this power comes with responsibility and unfortunately vulnerability This blog post delves into the common vulnerabilities exploited in Cisco networks reveals the secrets hackers use to infiltrate them and provides practical solutions to bolster your security Well keep things conversational offering actionable steps you can take today to protect your network Understanding the Landscape Common Cisco Network Vulnerabilities Before diving into solutions lets understand the threats Hackers target Cisco networks for various reasons often exploiting known weaknesses These include Default Credentials Many devices ship with default usernames and passwords This is a gaping security hole easily exploited by attackers Imagine it as leaving your front door unlocked an invitation for trouble Outdated FirmwareSoftware Cisco regularly releases updates patching vulnerabilities Ignoring these updates leaves your network vulnerable to known exploits Think of it like driving a car with faulty brakes Weak Authentication Poor password policies lack of multifactor authentication MFA and insecure protocols all create weak points for attackers to exploit A strong password is like a sturdy lock while MFA adds a secondary key for extra protection Misconfigured Devices Improperly configured firewalls routers and switches can inadvertently open pathways for malicious activity This is akin to leaving a window open inviting intruders inside Unpatched Vulnerabilities Zeroday exploits previously unknown vulnerabilities and known exploits that havent been patched are significant threats Staying uptodate with security advisories is crucial Visualizing the Attack 2 Insert image here A flowchart depicting a typical attack path showing steps like gaining initial access via default credentials escalating privileges and achieving lateral movement within the network Use clear concise labels This image illustrates a typical attack sequence Notice how a seemingly small vulnerability like default credentials can escalate into a significant breach HowTo Securing Your Cisco Network Practical Steps Now lets move to the crucial part securing your network Heres a breakdown of actionable steps 1 Change Default Credentials This is the single most important step Immediately change the default usernames and passwords on all your Cisco

devices including routers switches and firewalls Use strong unique passwords for each device 2 Enable Strong Authentication Implement multifactor authentication MFA wherever possible This adds an extra layer of security making it significantly harder for attackers to gain access even if they obtain your password 3 Regular Firmware Updates Set up automatic firmware updates for all your Cisco devices This ensures youre always running the latest security patches Check Ciscos website regularly for security advisories and critical updates 4 Implement Strict Access Control Lists ACLs ACLs control network traffic restricting access to specific devices and services Properly configured ACLs can prevent unauthorized access and limit the impact of a successful breach 5 Regular Security Audits Conduct regular security audits to identify vulnerabilities and misconfigurations This proactive approach helps prevent potential attacks before they happen Tools like Cisco SecureX can help automate these tasks 6 Intrusion DetectionPrevention Systems IDSIPS Deploy IDSIPS to monitor network traffic for malicious activity These systems can detect and prevent attacks in realtime 7 Network Segmentation Divide your network into smaller isolated segments This limits the impact of a breach preventing attackers from easily moving laterally across your network 8 Security Information and Event Management SIEM A SIEM system collects and analyzes security logs from various sources providing valuable insights into potential threats and security incidents Example Securing a Cisco Router 3 Lets take a practical example To secure a Cisco router youd follow these steps 1 Access the routers configuration Connect to the routers console or via SSH using a secure connection 2 Change the default password Use the enable command then configure terminal and then the username password command 3 Configure SSH access Disable telnet and enable SSH for secure remote access 4 Configure ACLs Create ACLs to restrict access to specific network resources Consult Cisco documentation for detailed ACL configuration 5 Enable logging Configure logging to record all significant events for later analysis Key Takeaways Proactive Security is Crucial Dont wait for a breach to happen Implement the security measures discussed above proactively Regular Updates are Essential Keeping your Cisco devices updated with the latest firmware is critical to patching vulnerabilities Strong Authentication is Paramount MFA significantly strengthens your networks security posture Network Segmentation Limits Impact Dividing your network into smaller segments reduces the damage caused by a successful attack Frequently Asked Questions FAQs 1 Q What is the best way to detect a Cisco network breach A Regular security audits SIEM systems and intrusion detectionprevention systems IDSIPS are crucial for detecting breaches Monitoring logs for unusual activity is also essential 2 Q How often should I update my Cisco device firmware A Ideally you should apply updates as soon as they are released especially critical security patches Check Ciscos website regularly

for advisories 3 Q Are there any free tools to help secure my Cisco network A While many tools are commercial some opensource tools can help with specific tasks like network scanning and vulnerability analysis However rely on official Cisco documentation and tools for comprehensive security management 4 Q What should I do if I suspect my Cisco network has been compromised A Immediately disconnect affected devices from the network to contain the breach Initiate your incident response plan gather logs and contact cybersecurity professionals or law 4 enforcement if necessary 5 Q How can I stay updated on the latest Cisco security threats A Regularly check the Cisco website for security advisories subscribe to security newsletters and follow industry experts on social media and blogs for the latest updates By understanding the vulnerabilities implementing the solutions and staying informed you can significantly enhance the security of your Cisco network and protect your valuable data and systems Remember security is an ongoing process not a onetime event Continuous vigilance and adaptation are key to staying ahead of the curve

Hacking Exposed Cisco NetworksCisco Wireless LAN SecurityCisco Network SecuritySecurity Threat Mitigation and ResponseImplementing Cisco IOS Network Security (IINS)Network Security AuditingSecurity Monitoring with Cisco Security MARSManaging Cisco Network SecurityNetwork Security Technologies and Solutions (CCIE Professional Development Series)Integrated Security Technologies and Solutions – Volume IIEnd-to-End Network SecurityCisco Network Security Troubleshooting HandbookMastering Cisco NetworksSelf-defending NetworksCisco ASAIPv6 SecurityCisco Security Professional's Guide to Secure Intrusion Detection SystemsSecuring the Borderless NetworkCCSP: Securing Cisco IOS Networks Study GuideCisco Secure Internet Security Solutions Andrew Vladimirov Krishna Sankar James Pike Dale Tesch Catherine Paquet Chris Jackson Gary Halleen Syngress Yusuf Bhaiji Aaron Woland Omar Santos Hoda Barrett Williams Duane De Capite Jazib Frahim Scott Hogg Syngress Tom Gillis Todd Lammle Andrew G. Mason

Hacking Exposed Cisco Networks Cisco Wireless LAN Security Cisco Network Security Security Threat Mitigation and Response Implementing Cisco IOS Network Security (IINS) Network Security Auditing Security Monitoring with Cisco Security MARS Managing Cisco Network Security Network Security Technologies and Solutions (CCIE Professional Development Series) Integrated Security Technologies and Solutions – Volume II End-to-End Network Security Cisco Network Security Troubleshooting Handbook Mastering Cisco Networks Self-defending Networks Cisco ASA IPv6 Security Cisco Security Professional's Guide to Secure Intrusion Detection Systems Securing the Borderless Network CCSP: Securing Cisco IOS Networks Study Guide Cisco Secure Internet Security Solutions *Andrew Vladimirov*

Krishna Sankar James Pike Dale Tesch Catherine Paquet Chris Jackson Gary Halleen Syngress Yusuf Bhaiji Aaron Woland Omar Santos Hoda Barrett Williams Duane De Capite Jazib Frahim Scott Hogg Syngress Tom Gillis Todd Lammle Andrew G. Mason

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

secure a wireless local area network with guidance from cisco systems experts showing how to use tools such as security checklists design templates and other resources to ensure wlan security this book illustrates security basics standards and vulnerabilities and provides examples of architecture design and best practices

finally there s a single source for practical hands on guidance on implementing and configuring every aspect of cisco network security including pix firewalls ipsec and intrusion detection cisco network security covers virtually every topic that cisco covers in its 2 200 network security course but with greater detail and more reference material leading network security consultant james pike offers step by step guidance for implementing and configuring every key cisco security product the first book to provide start to finish coverage of working with cisco s market leading pix firewalls cisco network security also provides hands on practical information on deploying ipsec that contrasts with the theoretical discussions found in some competitive books coverage also includes installing and configuring cisco s secure ids net ranger intrusion detection tools performing vulnerability scanning with cisco secure scanner and controlling access with cisco secure access control system for all cisco technical professionals who are responsible for network security including system and network administrators intermediate to senior level network technicians and technical managers

identify manage and counter security threats with the cisco security monitoring analysis and response system dale tesch greg abelar while it is commonly understood that deploying network security devices is critical to the well being of an organization s systems and data all too often companies assume that simply having these devices is enough to maintain the integrity of network resources to really provide effective protection for their networks organizations need to take the next step by closely examining network infrastructure host application and security events to determine if an attack has exploited devices on their

networks cisco security monitoring analysis and response system cisco security mars complements network and security infrastructure investment by delivering a security command and control solution that is easy to deploy easy to use and cost effective cisco security mars fortifies deployed network devices and security countermeasures empowering you to readily identify manage and eliminate network attacks and maintain compliance security threat mitigation and response helps you understand this powerful new security paradigm that reduces your security risks and helps you comply with new data privacy standards this book clearly presents the advantages of moving from a security reporting system to an all inclusive security and network threat recognition and mitigation system you will learn how cisco security mars works what the potential return on investment is for deploying cisco security mars and how to set up and configure cisco security mars in your network dealing with gigantic amounts of disparate data is the next big challenge in computer security if you re a cisco security mars user this book is what you ve been looking for marcus j ranum chief of security tenable security inc dale tesch is a product sales specialist for the cisco security mars product line for the cisco systems united states at security team dale came to cisco systems through the acquisition of protego networks in february 2005 since then he has had the primary responsibilities of training the cisco sales and engineering team on sim systems and cisco security mars and for providing advanced sales support to cisco customers greg abelar has been an employee of cisco systems since december 1996 he was an original member of the cisco technical assistance security team helping to hire and train many of the team s engineers he has held various positions in both the security architecture and security technical marketing engineering teams at cisco understand how to protect your network with a defense in depth strategy examine real world examples of cost savings realized by cisco security mars deployments evaluate the technology that underpins the cisco security mars appliance set up and configure cisco security mars devices and customize them for your environment configure cisco security mars to communicate with your existing hosts servers network devices security appliances and other devices in your network investigate reported threats and use predefined reports and queries to get additional information about events and devices in your network use custom reports and custom queries to generate device and event information about your network and security events learn firsthand from real world customer stories how cisco security mars has thwarted network attacks 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 cisco press security covers security threat mitigation

implementing cisco ios network security iins is a cisco authorized self paced learning tool for ccna security foundation learning this book provides you with the knowledge needed to secure cisco routers and switches and their associated networks by reading this book you will gain a thorough understanding of how to troubleshoot and monitor network devices to maintain integrity confidentiality and availability of data and devices as well as the technologies that cisco uses in its security infrastructure this book focuses on the necessity of a comprehensive security policy and how it affects the posture of the network you will learn how to perform basic tasks to secure a small branch type office network using cisco ios security features available through the cisco router and security device manager sdm web based graphical user interface gui and through the command line interface cli on cisco routers and switches the author also provides when appropriate parallels with cisco asa appliances whether you are preparing for ccna security certification or simply want to gain a better understanding of cisco ios security fundamentals you will benefit from the information provided in this book implementing cisco ios network security iins is part of a recommended learning path from cisco that includes simulation and hands on training from authorized cisco learning partners and self study products from cisco press to find out more about instructor led training e learning and hands on instruction offered by authorized cisco learning partners worldwide please visit cisco com go authorizedtraining develop a comprehensive network security policy to counter threats against information security configure routers on the network perimeter with cisco ios software security features configure firewall features including acls and cisco ios zone based policy firewalls to perform basic security operations on a network configure site to site vpns using cisco ios features configure ips on cisco network routers configure lan devices to control access resist attacks shield other network devices and systems and protect the integrity and confidentiality of network traffic this volume is in the certification self study series offered by cisco press books in this series provide officially developed self study solutions to help networking professionals understand technology implementations and prepare for the cisco career certifications examinations

this complete new guide to auditing network security is an indispensable resource for security network and it professionals and for the consultants and technology partners who serve them cisco network security expert chris jackson begins with a thorough overview of the auditing process including coverage of the latest regulations compliance issues and industry best practices the author then demonstrates how to segment security architectures into domains and measure security effectiveness through a comprehensive systems approach network security auditing thoroughly covers the use of both commercial and open

source tools to assist in auditing and validating security policy assumptions the book also introduces leading it governance frameworks such as cobit itil and iso 17799 27001 explaining their values usages and effective integrations with cisco security products

cisco security monitoring analysis and response system mars is a next generation security threat mitigation system stm cisco security mars receives raw network and security data and performs correlation and investigation of host and network information to provide you with actionable intelligence this easy to use family of threat mitigation appliances enables you to centralize detect mitigate and report on priority threats by leveraging the network and security devices already deployed in a network even if the devices are from multiple vendors security monitoring with cisco security mars helps you plan a mars deployment and learn the installation and administration tasks you can expect to face additionally this book teaches you how to use the advanced features of the product such as the custom parser network admission control nac and global controller operations through the use of real world deployment examples this book leads you through all the steps necessary for proper design and sizing installation and troubleshooting forensic analysis of security events report creation and archiving and integration of the appliance with cisco and third party vulnerability assessment tools learn the differences between various log aggregation and correlation systems examine regulatory and industry requirements evaluate various deployment scenarios properly size your deployment protect the cisco security mars appliance from attack generate reports archive data and implement disaster recovery plans investigate incidents when cisco security mars detects an attack troubleshoot cisco security mars operation integrate cisco security mars with cisco security manager nac and third party devices manage groups of mars controllers with global controller operations 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

an in depth knowledge of how to configure cisco ip network security is a must for anyone working in today s internetworked world there s no question that attacks on enterprise networks are increasing in frequency and sophistication mike fuhrman cisco systems manager security consulting managing cisco network security second edition offers updated and revised information covering many of cisco s security products that provide protection from threats detection of network security incidents measurement of vulnerability and policy compliance and management of security policy across an extended organization these are the tools that network administrators have to mount defenses against threats chapters also

cover the improved functionality and ease of the cisco secure policy manger software used by thousands of small to midsized businesses and a special section on the cisco aironet wireless security solutions security from a real world perspective key coverage of the new technologies offered by the cisco including 500 series of cisco pix firewall cisco intrusion detection system and the cisco secure scanner revised edition of a text popular with ccip cisco certified internetwork professional students expanded to include separate chapters on each of the security products offered by cisco systems

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

the essential reference for security pros and ccie security candidates identity context sharing encryption secure connectivity and virtualization integrated security technologies and solutions volume ii brings together more expert level instruction in security design deployment integration and support it will help experienced security and network professionals manage complex solutions succeed in their day to day jobs and prepare for their ccie security written and lab exams volume ii focuses on the cisco identity services engine context sharing trustsec application programming interfaces apis secure connectivity with vpns and the virtualization and automation sections of the ccie v5 blueprint like volume i its strong focus on interproduct integration will help you combine formerly disparate systems into seamless coherent next generation security solutions part of the cisco ccie professional development series from cisco press it is authored by a team of ccies who are world class experts in their cisco security disciplines including co creators of the ccie security v5 blueprint each chapter starts with relevant theory presents configuration examples and applications and concludes with practical troubleshooting review the essentials of authentication authorization and accounting aaa explore the radius and tacacs aaa protocols and administer devices with them enforce basic network access control with the cisco identity services engine ise implement sophisticated ise profiling ezconnect and passive identity features extend network access with byod support mdm integration posture validation and guest services safely share context with ise and implement pxgrid and rapid threat containment integrate ise with cisco fmc wsa and other devices leverage cisco security apis to increase control and flexibility review virtual private network vpn concepts and types understand and deploy infrastructure vpns and remote access vpns virtualize leading cisco security products make the most of virtual security gateway vsg network function virtualization nfv and microsegmentation

end to end network security defense in depth best practices for assessing and improving network defenses and responding to security incidents omar santos information security

practices have evolved from internet perimeter protection to an in depth defense model in which multiple countermeasures are layered throughout the infrastructure to address vulnerabilities and attacks this is necessary due to increased attack frequency diverse attack sophistication and the rapid nature of attack velocity all blurring the boundaries between the network and perimeter end to end network security is designed to counter the new generation of complex threats adopting this robust security strategy defends against highly sophisticated attacks that can occur at multiple locations in your network the ultimate goal is to deploy a set of security capabilities that together create an intelligent self defending network that identifies attacks as they occur generates alerts as appropriate and then automatically responds end to end network security provides you with a comprehensive look at the mechanisms to counter threats to each part of your network the book starts with a review of network security technologies then covers the six step methodology for incident response and best practices from proactive security frameworks later chapters cover wireless network security ip telephony security data center security and ipv6 security finally several case studies representing small medium and large enterprises provide detailed example configurations and implementation strategies of best practices learned in earlier chapters adopting the techniques and strategies outlined in this book enables you to prevent day zero attacks improve your overall security posture build strong policies and deploy intelligent self defending networks within these pages you will find many practical tools both process related and technology related that you can draw on to improve your risk mitigation strategies bruce murphy vice president world wide security practices cisco omar santos is a senior network security engineer at cisco omar has designed implemented and supported numerous secure networks for fortune 500 companies and the u s government prior to his current role he was a technical leader within the world wide security practice and the cisco technical assistance center tac where he taught led and mentored many engineers within both organizations guard your network with firewalls vpns and intrusion prevention systems control network access with aaa enforce security policies with cisco network admission control nac learn how to perform risk and threat analysis harden your network infrastructure security policies and procedures against security threats identify and classify security threats trace back attacks to their source learn how to best react to security incidents maintain visibility and control over your network with the save framework apply defense in depth principles to wireless networks ip telephony networks data centers and ipv6 networks 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 network security and incident response

unlock the full potential of your cisco network with mastering cisco networks the ultimate guide to network optimization and security this comprehensive ebook delves into the intricacies of cisco technologies equipping you with the tools and knowledge to maximize performance and ensure robust security across your network begin your journey by understanding the critical role of network performance and security within the digital landscape dive deep into cisco s core technologies and solutions and explore advanced routing protocols like ospf and bgp which are essential for high performance and secure connectivity transitioning to switching technologies you ll gain insights into vlan implementations stp optimization and advanced etherchannel integration discover how cisco s latest automation technologies including cisco dna center streamline network tasks and enhance efficiency with python scripting for those looking to boost wireless networks this ebook covers designing high performance wireless systems and implementing cutting edge security features learn how to prioritize network traffic effectively using quality of service qos fundamentals on cisco devices ensuring optimal performance for critical applications security remains a top priority and this guide covers advanced cisco security features such as firepower asa and the cisco identity services engine master vpn technologies to provide secure site to site and remote access solutions enhance your skills with practical chapters on network monitoring and management including snmp techniques systematic troubleshooting approaches and the latest tools used in the industry looking toward the future explore network design strategies to build scalable networks and prepare for future expansion case studies provide real world examples of how large enterprises and financial institutions boost performance and enhance security stay ahead with insights into emerging trends like software defined networking and the challenges of iot integration mastering cisco networks is your key to mastering the intricacies of cisco technologies securing your network and excelling in the ever evolving world of network engineering

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

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 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

ipv6 security protection measures for the next internet protocol as the world s networks migrate to the ipv6 protocol networking professionals need a clearer understanding of the security risks threats and challenges this transition presents in ipv6 security two of the world s leading internet security practitioners review each potential security issue introduced by ipv6 networking and present today s best solutions ipv6 security offers guidance for avoiding security problems prior to widespread ipv6 deployment the book covers every component of today s networks identifying specific security deficiencies that occur within ipv6 environments and demonstrating how to combat them the authors describe best practices for identifying and resolving weaknesses as you maintain a dual stack network then they describe the security mechanisms you need to implement as you migrate

to an ipv6 only network the authors survey the techniques hackers might use to try to breach your network such as ipv6 network reconnaissance address spoofing traffic interception denial of service and tunnel injection the authors also turn to cisco products and protection mechanisms you learn how to use cisco ios and asa firewalls and acls to selectively filter ipv6 traffic you also learn about securing hosts with cisco security agent 6 0 and about securing a network with ios routers and switches multiple examples are explained for windows linux freebsd and solaris hosts the authors offer detailed examples that are consistent with today s best practices and easy to adapt to virtually any ipv6 environment scott hogg ccie no 5133 is director of advanced technology services at global technology resources inc gtri he is responsible for setting the company s technical direction and helping it create service offerings for emerging technologies such as ipv6 he is the chair of the rocky mountain ipv6 task force eric vyncke cisco distinguished system engineer consults on security issues throughout europe he has 20 years experience in security and teaches security seminars as a guest professor at universities throughout belgium he also participates in the internet engineering task force ietf and has helped several organizations deploy ipv6 securely understand why ipv6 is already a latent threat in your ipv4 only network plan ahead to avoid ipv6 security problems before widespread deployment identify known areas of weakness in ipv6 security and the current state of attack tools and hacker skills understand each high level approach to securing ipv6 and learn when to use each protect service provider networks perimeters lans and host server connections harden ipv6 network devices against attack utilize ipsec in ipv6 environments secure mobile ipv6 networks secure transition mechanisms in use during the migration from ipv4 to ipv6 monitor ipv6 security understand the security implications of the ipv6 protocol including issues related to icmpv6 and the ipv6 header structure protect your network against large scale threats by using perimeter filtering techniques and service provider focused security practices understand the vulnerabilities that exist on ipv6 access networks and learn solutions for mitigating each 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 ipv6 security

cisco systems inc is the worldwide leader in networking for the internet and its intrusion detection systems line of products is making in roads in the ids market segment with major upgrades having happened in february of 2003 cisco security professional s guide to secure intrusion detection systems is a comprehensive up to date guide to the hardware and

software that comprise the cisco ids cisco security professional s guide to secure intrusion detection systems does more than show network engineers how to set up and manage this line of best selling products it walks them step by step through all the objectives of the cisco secure intrusion detection system course and corresponding exam that network engineers must pass on their way to achieving sought after ccsp certification offers complete coverage of the cisco secure intrusion detection systems exam csids 9e0 100 for ccsps

securing the borderless network reveals new techniques for securing advanced 2 0 virtualization mobility and collaborative applications today s new 2 0 virtualization mobility telepresence and collaborative applications offer immense potential for enhancing productivity and competitive advantage however they also introduce daunting new security issues many of which are already being exploited by cybercriminals securing the borderless network is the first book entirely focused on helping senior it decision makers understand manage and mitigate the security risks of these new collaborative technologies cisco security technology expert tom gillis brings together systematic timely decision making and technical guidance for companies of all sizes information and techniques for protecting collaborative systems without compromising their business benefits you ll walk through multiple scenarios and case studies from cisco webex conferencing to social networking to cloud computing for each scenario the author identifies key security risks and presents proven best practice responses both technical and nontechnical securing the borderless network reviews the latest cisco technology solutions for managing identity and securing networks content endpoints and applications the book concludes by discussing the evolution toward 3 0 applications and the cisco security vision for the borderless enterprise providing you with a complete security overview for this quickly evolving network paradigm

here s the book you need to prepare for exam 642 501 securing cisco ios networks secur this study guide provides in depth coverage of every secur exam objective practical information on cisco security solutions hundreds of challenging practice questions in the book and on the cd leading edge exam preparation software including a testing engine and electronic flashcards authoritative coverage of all exam objectives including basic cisco router security advanced aaa security for cisco router networks cisco router threat mitigation cisco ios firewall cbac configuration cisco ios firewall authentication proxy configuration cisco ios firewall ids configuration building basic ipsec using cisco routers building advanced ipsec vpns using cisco routers and certificate authorities configuring cisco remote access ipsec vpns managing enterprise vpn routers note cd rom dvd and other supplementary materials are not included as part of ebook file

annotation nbsp essential security strategies using cisco s complete solution to network security the only book to cover interoperability among the cisco secure product family to provide the holistic approach to internet security the first book to provide cisco proactive solutions to common internet threats a source of industry ready pre built configurations for the cisco secure product range cisco systems strives to help customers build secure internetworks through network design featuring its cisco secure product family at present no available publication deals with internet security from a cisco perspective cisco secure internet security solutions covers the basics of internet security and then concentrates on each member of the cisco secure product family providing a rich explanation with examples of the preferred configurations required for securing internet connections the cisco secure pix firewall is covered in depth from an architectural point of view to provide a reference of the pix commands and their use in the real world although cisco secure internet security solutions is concerned with internet security it is also viable to use in general network security scenarios nbsp andrew mason is the ceo of mason technologies limited a cisco premier partner in the u k whose main business is delivered through cisco consultancy focusing on internet security andrew has hands on experience of the cisco secure product family with numerous clients ranging from isps to large financial organizations currently andrew is leading a project to design and implement the most secure isp network in europe andrew holds the cisco ccnp and ccdp certifications nbsp mark newcomb is currently a consulting engineer at aurora consulting group in spokane washington mark holds ccnp and ccdp certifications mark has 4 years experience working with network security issues and a total of over 20 years experience within the networking industry mark is a frequent contributor and reviewer for books by cisco press mcgraw hill coriolis new riders and macmillan technical publishing

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