Cisco IOS Switch Security Configuration Guide

Switch Security Guidance Activity
of the
Systems and Network Attack Center (SNAC)

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Date: 21 June 2004
Version: 1.0

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   Network Administrators Survival Guide Anand Deveriya,2006 The all in one practical guide to supporting Cisco networks using freeware tools   *Network Security First-step* Thomas Thomas,Thomas M. Thomas,Donald Stoddard,2012 Learn about network security including the threats and the ways a network is protected from them The book also covers firewalls viruses and virtual private networks   **Network Security Architectures** Sean Convery,2004 Using case studies complete with migration plans that show how to modify examples into your unique network this work takes the mystery out of network security by using proven examples of sound security best practices   IPv6 Security Scott Hogg,Eric Vyncke,2008-12-11 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   *Implementing Cisco IOS Network Security (IINS)* Catherine Paquet,2009-04-14 Implementing Cisco IOS Network Security IINS is a Cisco authorized self paced learning tool for CCNA Security foundation learning This book provides you with the knowledge needed to secure Cisco routers and switches and their associated networks By reading this book you will gain a thorough understanding of how to troubleshoot and monitor network devices to maintain integrity confidentiality and availability of data and devices as well as the technologies that Cisco uses in its security infrastructure This book focuses on the necessity of a comprehensive security policy and how it affects the posture of the network You will learn how to perform basic tasks to secure a small branch type office network using Cisco IOS security features available through the Cisco Router and Security Device Manager SDM web based graphical user interface GUI and through the command line interface CLI on Cisco routers and switches The author also provides when appropriate parallels with Cisco ASA appliances Whether you are preparing for CCNA Security certification or simply want to gain a better understanding of Cisco IOS security fundamentals you will benefit from the information provided in this book Implementing Cisco IOS Network Security IINS is part of a recommended learning path from Cisco that includes simulation 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 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   **Router Security Configuration Guide Supplement - Security for Ipv6 Routers** Ziring,2015-02-14 This document is only a guide to recommended security settings for Internet Protocol version 6 IPv6 routers particularly routers running Cisco Systems Internet Operating System IOS versions 12 3 through 12 4 and 12 4T It does not provide

comprehensive guidance the directions in this document should be used in conjunction with the NSA Router Security Configuration Guide 1 1c or later The advice in this document cannot replace well designed policy or sound judgment This supplement does not address site specific configuration issues Care must be taken when implementing the security steps specified in this document Ensure that all security steps and procedures chosen from this guide are thoroughly tested and reviewed prior to imposing them on an operational network   Cisco IOS 12.0 Network Security Cisco Systems, Inc,1999 Creating and maintaining secure network environments continues to be of utmost importance for administrators and engineers today Cisco IOS 12 0 Network Security is the definitive resource for both dial in and local users Through the use of real world examples you will discover the most current security technologies available and learn how to implement and support these technologies on a network   *Implementing Cisco IOS Network Security (IINS)* Catherine Paquet,2012 Implementing Cisco IOS Network Security IINS Foundation Learning Guide Second Edition Foundation learning for the CCNA Security IINS 640 554 exam Implementing Cisco IOS Network Security IINS Foundation Learning Guide Second Edition is a Cisco authorized self paced learning tool for CCNA Security 640 554 foundation learning This book provides you with the knowledge needed to secure Cisco networks By reading this book you will gain a thorough understanding of how to develop a security infrastructure recognize threats and vulnerabilities to networks and mitigate security threats This book focuses on using Cisco IOS routers to protect the network by capitalizing on their advanced features as a perimeter router firewall intrusion prevention system and site to site VPN device The book also covers the use of Cisco Catalyst switches for basic network security the Cisco Secure Access Control System ACS and the Cisco Adaptive Security Appliance ASA You learn how to perform basic tasks to secure a small branch office network using Cisco IOS security features available through web based GUIs Cisco Configuration Professional and the CLI on Cisco routers switches and ASAs Whether you are preparing for CCNA Security certification or simply want to gain a better understanding of Cisco IOS security fundamentals you will benefit from the information provided in this book Implementing Cisco IOS Network Security IINS Foundation Learning Guide Second Edition is part of a recommended learning path from Cisco that includes simulation and hands on training from authorized Cisco Learning Partners and self study products from Cisco Press To find out more about instructor led training e learning and hands on instruction offered by authorized Cisco Learning Partners worldwide please visit www cisco com go authorizedtraining Develop a comprehensive network security policy to counter threats against information security Secure borderless networks Learn how to use Cisco IOS Network Foundation Protection NFP and Cisco Configuration Professional CCP Securely implement the management and reporting features of Cisco IOS devices Deploy Cisco Catalyst Switch security features Understand IPv6 security features Plan threat control strategies Filter traffic with access control lists Configure ASA and Cisco IOS zone based firewalls Implement intrusion prevention systems IPS and network address translation NAT Secure connectivity with site to site IPsec VPNs and remote access VPNs This volume is in

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Operating System IOS versions 11 and 12 It is not meant to replace well designed policy or sound judgement This guide does not address site specific configuration issues Care must be taken when implementing the security steps specified in this guide Ensure that all security steps and procedures chosen from this guide are thoroughly tested and reviewed prior to imposing them on an operational network   **Network Security 1 and 2 Companion Guide** Antoon W. Rufi,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   **Implementing Cisco IOS Network Security (Iins)** Catherine Paquet,2009-04-01 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 The only authorized study guide for the new CCNA Security IINS Exam official foundation learning for every candidate Comprehensive content developed in conjunction with the Cisco certification team developers of the official CCNA Security IINS courses and exams Easy to understand and packed with visuals and configuration examples will be useful both to exam candidates and to IT managers with day to day security responsibilities Includes an extensive set of self assessment review questions Implementing Cisco IOS Network Security IINS exam is the first step towards the CCNA Security and Cisco Qualified Specialist certifications that can help network professionals move into the lucrative field of network security Implementing Cisco IOS Network Security IINS Exam 640 553

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SWITCH Foundation Learning Guide is ideal for certification candidates who are seeking a tool to learn all the topics covered in the SWITCH 642 813 exam Serves as the official book for the Cisco Networking Academy CCNP SWITCH course Provides a thorough presentation of the fundamentals of multilayer switched network design Explains the implementation of the design features such as VLAN Spanning Tree and inter VLAN routing in the multilayer switched environment Explains how to implement high availability technologies and techniques Covers security features in a switched network Presents self assessment review questions chapter topics summaries command syntax explanations network diagrams and configuration examples to facilitate effective studying This book is in the Foundation Learning Guide Series These guides are developed together with Cisco as the only authorized self paced learning tools that help networking professionals build their understanding of networking concepts and prepare for Cisco certification exams **Cisco LAN Switching Configuration Handbook** Stephen McQuerry,David Jansen,David Hucaby,2009-06-16 Cisco LAN Switching Configuration Handbook Second Edition A concise reference for implementing the most frequently used features of the Cisco Catalyst family of switches Steve McQuerry CCIE No 6108 David Jansen CCIE No 5952 David Hucaby CCIE No 4594 Cisco LAN Switching Configuration Handbook Second Edition is a quick and portable reference guide to the most commonly used features that can be configured on Cisco Catalyst switches Written to be used across all Catalyst IOS platforms the book covers general use of Cisco IOS followed by a series of chapters that provide design and configuration guidelines Each chapter starts with common design overviews and then describes the configuration of management features Coverage includes Layer 2 Layer 3 multicast high availability and traffic management configurations This book is organized by groups of common features with sections marked by shaded tabs for quick reference Information on each feature is presented in a concise format with background configuration and example components The format is organized for easy accessibility to commands and their proper usage saving you hours of research time From the first page the authors zero in on quick facts configuration steps and explanations of configuration options in each Cisco Catalyst switch feature The quick reference format allows you to easily locate just the information you need without having to search through thousands of pages of documentation helping you get your switches up and running quickly and smoothly Whether you are looking for a handy portable reference to more easily configure Cisco Catalyst switches in the field or you are preparing for CCNA CCNP or CCIE certification you will find Cisco LAN Switching Configuration Handbook Second Edition to be an essential resource Steve McQuerry CCIE No 6108 is a technical solutions architect with Cisco focused on data center solutions Steve works with enterprise customers in the midwestern United States to help them plan their data center architectures David Jansen CCIE No 5952 is a technical solutions architect TSA with Cisco focused on Data Center Architectures at Cisco David has more than 20 years of experience in the IT industry 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 Implement switched campus network designs

Configure switch prompts IP addresses passwords switch modules file management and administrative protocols Understand how Layer 3 interfaces are used in a switch Configure Ethernet Fast Ethernet Gigabit Ethernet and EtherChannel interfaces Implement VLANs trunking and VTP Operate configure and tune Spanning Tree Protocol STP Handle multicast traffic and interact with multicast routers Streamline access to server and firewall farms with accelerated server load balancing Deploy broadcast suppression user authentication port security and VLAN access lists Configure switch management features Implement QoS and high availability features Transport voice traffic with specialized voice gateway modules inline power and QoS features This book is part of the Networking Technology Series from Cisco Press which offers networking professionals valuable information for constructing efficient networks understanding new technologies and building successful careers   CCSP Self-Study John Roland,Cisco Press Staff,2004 Cisco authorized self study book for CCSP 642 501 foundation learning Identify the lineup of Cisco Systems network security products and enumerate the components of a complete security policy Use Cisco Secure ACS for Windows and Cisco Secure ACS for UNIX to implement TACACS and RADIUS AAA support in Cisco router networks Configure AAA support on perimeter Cisco routers and Cisco IOS Firewalls Implement standard practices to secure administrative access and disable unused router protocols services and interfaces Use AutoSecure to configure security parameters on Cisco routers Configure Cisco IOS Firewalls for CBAC Authentication Proxy and AAA support Configure and manage Cisco IOS IDS router signatures and audit rules Monitor Cisco IOS IDS routers using Security Monitor or Syslog servers Configure IPSec VPN tunnels on Cisco routers using preshared keys or RSA signatures Configure Cisco routers to use IPSec with Network Address Translation Use Security Device Manager and Router Management Center to configure and manage Cisco IOS VPN and Cisco IOS Firewall policies Mitigate common router security threats with access control lists ACLs CCSP Self Study Securing Cisco IOS Networks SECUR is a complete reference for security practices protocols software and equipment that work on or in conjunction with Cisco IOS equipment to provide layers of security to networks In addition to acting as a key study aid for the CCSP SECUR 642 501 exam this book will be an invaluable theory and configuration guide for years to come CCSP Self Study Securing Cisco IOS Networks SECUR is a Cisco authorized self paced learning tool that helps you gain mastery over all security techniques and technologies including newer topics such as Cisco Easy VPN and Security Device Manager SDM Chapter overviews bring you quickly up to speed on technologies you can use to secure your network Configuration examples are designed to show you how to make Cisco IOS devices secure and unique chapter ending review questions test your knowledge Whether you are seeking a reference guide to working with Cisco IOS security or a study guide for the 642 501 exam CCSP Self Study Securing Cisco IOS Networks SECUR is the reference you are looking for CCSP Self Study Securing Cisco IOS Networks SECUR 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

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