# Cisco Guide to Harden Cisco IOS Devices

Introduction

# Prerequisites Requirements

Requirements Components Used Conventions

#### Secure Operations

Monitor Cisco Security Advisories and Responses Leverage Authentication, Authorization, and Accounting Centralize Log Collection and Monitoring Use Secure Protocols When Possible Gain Traffic Visibility with NetFlow Configuration Management

#### Management Plane

General Management Plane Hardening Limiting Access to the Network with Infrastructure ACLs Securing Interactive Management Sessions Using Authentication, Authorization, and Accounting Fortifying the Simple Network Management Protocol Logging Best Practices Cisco IOS Software Configuration Management

#### Control Plane

General Control Plane Hardening Limiting CPU Impact of Control Plane Traffic Securing BGP Securing Interior Gateway Protocols Securing First Hop Redundancy Protocols

#### Data Planc

General Data Plane Hardening
Filtering Transit Traffic with Transit ACLs
Anti-Spoofing Protections
Limiting CPU Impact of Data Plane Traffic
Traffic Identification and Traceback
Access Control with VLAN Maps and Port Access Control Lists
Using Private VLANs
Conclusion

## Related Information

#### Introduction

This document contains information to help you secure your Cisco IOS® system devices, which increases the overall security of your network. Structured around the three planes into which functions of a network device can be categorized, this document provides an overview of each included feature and references to related documentation.

The three functional planes of a network, the management plane, control plane, and data plane, each provide different functionality that needs to be protected.

# **Cisco Guide To Harden Cisco Ios Devices**

**Wendell Odom** 

#### **Cisco Guide To Harden Cisco Ios Devices:**

Implementing Cisco IOS Network Security (IINS 640-554) Foundation Learning Guide Catherine Paguet, 2012-11-29 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 the Foundation Learning Guide Series offered by Cisco Press 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 Category Cisco Certification Covers CCNA Security IINS exam 640 554 CCNA Cyber Ops SECOPS 210-255 Official Cert Guide Omar Santos, Joseph Muniz, 2017-06-08 This is the eBook version

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Fundamentals of IP security Implementing IPsec site to site VPNs Implementing SSL remote access VPNs using Cisco ASA Securing Layer 2 technologies Network Foundation Protection NFP Securing the management plane on Cisco IOS devices Securing the data plane Securing routing protocols and the control plane Understanding firewall fundamentals Implementing Cisco IOS zone based firewalls Configuring basic firewall policies on Cisco ASA Cisco IPS fundamentals Mitigation technologies for e mail and web based threats Mitigation technologies for endpoint threats CCNA Security 210 260 Official Cert Guide is part of a recommended learning path from Cisco that includes simulation and hands on training from authorized Cisco Learning Partners and self study products from Cisco Press To find out more about instructor led training e learning and hands on instruction offered by authorized Cisco Learning Partners worldwide please visit http www cisco com web learning index html CCNA Routing and Switching 200-120 Official Cert Guide Library Wendell Odom, 2013-05-10 Cisco Press is the Official publisher for the New CCENT or see instructions in back pages of your eBooks Best selling author and expert instructor Wendell Odom shares preparation hints and test taking tips helping you identify areas of weakness and improve both your conceptual knowledge and hands on skills This complete study package includes A test preparation routine proven to help you pass the exams Do I Know This Already guizzes which enable you to decide how much time you need to spend on each section Chapter ending and part ending exercises which help you drill on key concepts you must know thoroughly Troubleshooting sections which help you master the complex scenarios you will face on the exam A free copy of the CCNA ICND1 and ICND2 Network Simulator Lite software complete with meaningful lab exercises that help you hone your hands on skills with the command line interface for routers and switches More than 150 minutes of personal video mentoring from the author Final preparation chapters which guide you through tools and resources to help you craft your review and test taking strategies Study plan suggestions and templates to help you organize and optimize your study time These official study guides help you master all the topics on the CCNA exams including Networking fundamentals Ethernet LANs and switches IPv4 addressing and subnetting Operating Cisco routers Configuring OSPF ACLs and NAT IPv6 fundamentals implementation and troubleshooting LAN switching IPv4 routing VPNs OSPF and EIGRP configuration and troubleshooting Wide area networks and Frame Relay Network management Well regarded for its level of detail study plans assessment features challenging review questions and exercises video instruction and hands on labs these official study guides help you master the concepts and techniques that ensure your exam success Wendell Odom CCIE No 1624 is the most respected author of Cisco networking books in the world His past titles include books on the entry level Cisco certifications CCENT and CCNA the more advanced CCNP and the industry renowned CCIE His books are known for their technical depth and accuracy Wendell has worked as a network engineer consultant instructor course developer and book author and he has produced videos software and blogs related to Cisco certifications Includes 26 free CCNA Network Simulator labs ICND1 1 Configuring IP Addresses I 2 Configuring IP Addresses II 3 Connected Routes 4 Static Routes I 5 Static Routes II 6 Subnet

Zero 7 Loopback Interfaces 8 Subnet ID Calculation 9 IPv4 Address Rejection 10 IPv4 Route Selection 11 Subnetting and Addressing Configuration Scenario 12 Static Routing Configuration Scenario 13 Network Discovery Troubleshooting Scenario ICND2 1 EIGRP Serial Configuration I 2 EIGRP Serial Configuration II 3 EIGRP Serial Configuration III 4 EIGRP Frame Relay Configuration I 5 EIGRP Frame Relay Configuration II 6 EIGRP Route Tuning I 7 EIGRP Route Tuning II 8 EIGRP Neighbors II 9 EIGRP Neighbors III 10 EIGRP Configuration Scenario I 11 EIGRP Configuration Scenario II 12 EIGRP Metric Manipulation Configuration Scenario 13 Path Troubleshooting Scenario CCENT and CCNA Network Simulator Lite minimum system requirements Microsoft Windows XP SP2 SP3 Windows Vista 32 bit 64 bit with SP1 Windows 7 32 bit 64 bit or Windows 8 32 bit 64 bit Mac OS X 10 6 10 7 or 10 8 Intel Pentium III 1GHz or faster processor Windows or Intel Core Duo 1 83GHz or faster processor Mac 512 MB RAM 1 GB recommended 1 5 GB hard disk space 32 bit color depth at 1024 x 768 resolution Adobe Acrobat Reader version 8 0 or higher Other applications installed during installation Adobe AIR 3 6 0 Captive JRE 6 Cisco CCNA Routing and Switching 200-120 Official Cert Guide Library Wendell Odom, 2013 Cisco Press is the official publisher for the New CCENT CCNA Routing and Switching Certifications The New Edition of the Best Selling two book value priced CCNA Official Cert Guide Library includes Updated Content New Exercises 8 Practice Exams and 150 Minutes of Video Training PLUS the CCENT and CCNA Network Simulator Lite Editions with 26 Free Network Simulator Labs CCNA 200 120 Official Cert Guide Library is a comprehensive review and package for the latest CCNA exams The two books contained in this package CCENT CCNA ICND1 100 101 Official Cert Guide and CCNA ICND2 200 101 Official Cert Guide present complete reviews and a more challenging and realistic preparation experience The books have been fully updated to refresh the content for the latest CCNA exam topics and enhance certain key topics that are critical for exam success Best selling author and expert instructor Wendell Odom shares preparation hints and test taking tips helping you identify areas of weakness and improve both your conceptual knowledge and hands on skills These official study guides help you master all the topics on the CCNA exams including Networking fundamentals Ethernet LANs and switches IPv4 addressing and subnetting Operating Cisco routers Configuring OSPF ACLs and NAT IPv6 fundamentals implementation and troubleshooting LAN switching IPv4 routing VPNs OSPF and EIGRP configuration and troubleshooting Wide area networks and Frame Relay Network management Well regarded for its level of detail study plans assessment features challenging review questions and exercises video instruction and hands on labs these official study guides help you master the concepts and techniques that ensure your exam success CCNA 200 120 Official Cert Guide Library 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 1587143879 9781587143878 CCNA Routing and Switching 200 120 Official Cert Guide Library 1 e Package consists of 0131357549 9780131357549 TWO INCH MYLAR CLEAR WAFER SEAL 0133372006 9780133372007 Empty Slipcase for Exam 29 Cert Library 1587143739 9781587143731 CCNA Routing and Switching ICND2 200 101 Official

Cert Guide 1587143852 9781587143854 CCENT CCNA ICND1 100 101 Official Cert Guide CCDE Study Guide Marwan Al-shawi,2015-10-01 The authoritative business driven study resource for the tough CCDE Practical Exam CCDE Study Guide is written and reviewed by CCDE engineers and helps you to both improve your design skills and to study for and pass the CCDE exam Network design is an art combining broad technology knowledge and experience This book covers a broad number of technologies protocols and design options and considerations that can bring these aspects together and show how they can be used and thought about based on different requirements and business goals Therefore this book does not attempt to teach foundational technology knowledge instead each section Highlights discusses and compares the limitations and advantages of the different design options in terms of scalability performance flexibility availability complexity security and so on to simplify the job and help you understand what technology protocol or design options should be selected and why based on the business or application requirements or to fix a broken design that need to be optimized Covers design aspects of different protocols and technologies and how they map with different requirements Highlights drivers toward using these technologies whether it is intended for enterprise or service provider network depending on the topic and technology Using a business driven approach CCDE Study Guide helps you analyze business and technical requirements and develop network designs that are based on these business needs and goals taking into account both the technical and non technical design constraints The various scenario based design examples discussed in this book will help you craft design approaches and requirements analysis on such topics as converged enterprise network architectures service provider network architectures and data centers The book also addresses high availability IPv6 multicast QoS security and network management design considerations presenting you with an in depth evaluation of a broad range of technologies and environments Whether you are preparing for the CCDE exam or simply wish to gain better insight into the art of network design in a variety of environments this book helps you learn how to think like an expert network designer as well as analyze and compare the different design options principles and protocols based on different design requirements Master a business driven approach to designing enterprise service provider and data center networks Analyze the design impact of business functional and application requirements Learn from scenario based examples including converged enterprise networks service provider networks and cloud based data centers Overcome design limitations and fix broken designs Review design options and considerations related to Layer 2 and Layer 3 control plane protocols Build designs that accommodate new services and applications Consider design options for modern campus networks including network virtualization Design WAN edge and Internet edge blocks in enterprise networks Review the architectural elements of a service provider grade network Plan MPLS VPN network environments including L2VPN and L3VPN Interconnect different networks or routing domains Design traditional virtualized and cloud based data center networks Interconnect dispersed data center networks to protect business continuity Achieve appropriate levels of operational uptime and network resiliency Integrate IPv6 multicast QoS security and

network management into your designs **CCNP and CCIE Security Core SCOR 350-701 Official Cert Guide Omar** Santos, 2023-11-09 Trust the best selling Official Cert Guide series from Cisco Press to help you learn prepare and practice for the CCNP and CCIE Security Core SCOR 350 701 exam Well regarded for its level of detail study plans assessment features and challenging review questions and exercises CCNP and CCIE Security Core SCOR 350 701 Official Cert Guide Second Edition helps you master the concepts and techniques that ensure your exam success and is the only self study resource approved by Cisco Expert author Omar Santos shares preparation hints and test taking tips helping you identify areas of weakness and improve both your conceptual knowledge and hands on skills This complete study package includes A test preparation routine proven to help you pass the exam Do I Know This Already quizzes which let you decide how much time you need to spend on each section Exam Topic lists that make referencing easy Chapter ending exercises which help you drill on key concepts you must know thoroughly The powerful Pearson Test Prep Practice Test software complete with hundreds of well reviewed exam realistic questions customization options and detailed performance reports A final preparation chapter which guides you through tools and resources to help you craft your review and test taking strategies Study plan suggestions and templates to help you organize and optimize your study time Content Update Program This fully updated second edition includes the latest topics and additional information covering changes to the latest CCNP and CCIE Security Core SCOR 350 701 exam Visit ciscopress com newcerts for information on annual digital updates for this book that align to Cisco exam blueprint version changes This official study guide helps you master all the topics on the CCNP and CCIE Security Core SCOR 350 701 exam including Network security Cloud security Content security Endpoint protection and detection Secure network access Visibility and enforcement Companion Website The companion website contains more than 200 unique practice exam questions practice exercises and a study planner Pearson Test Prep online system requirements Browsers Chrome version 73 and above Safari version 12 and above Microsoft Edge 44 and above Devices Desktop and laptop computers tablets running Android v8 0 and above or iPadOS v13 and above smartphones running Android v8 0 and above or iOS v13 and above with a minimum screen size of 4 7 Internet access required Pearson Test Prep offline system requirements Windows 11 Windows 10 Windows 8 1 Microsoft NET Framework 4 5 Client Pentium class 1 GHz processor or equivalent 512 MB RAM 650 MB disk space plus 50 MB for each downloaded practice exam access to the Internet to register and download exam databases Also available from Cisco Press for CCNP Advanced Routing study is the CCNP and CCIE Security Core SCOR 350 701 Official Cert Guide Premium Edition eBook and Practice Test Second Edition This digital only certification preparation product combines an eBook with enhanced Pearson Test Prep Practice Test This integrated learning package Enables you to focus on individual topic areas or take complete timed exams Includes direct links from each question to detailed tutorials to help you understand the concepts behind the questions Provides unique sets of exam realistic practice questions Tracks your performance and provides feedback on a module by module basis laying out a complete

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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 Intelligent** WAN (IWAN) Brad Edgeworth, David Prall, Jean Marc Barozet, Anthony Lockhart, Nir Ben-Dvora, 2016-11-04 The complete quide to Cisco IWAN features benefits planning and deployment Using Cisco Intelligent WAN IWAN businesses can deliver an uncompromised experience security and reliability to branch offices over any connection Cisco IWAN simplifies WAN design improves network responsiveness and accelerates deployment of new services Now there s an authoritative single source guide to Cisco IWAN all you need to understand it design it and deploy it for maximum value In Cisco Intelligent WAN IWAN leading Cisco experts cover all key IWAN technologies and components addressing issues ranging from visibility and provisioning to troubleshooting and optimization They offer extensive practical guidance on migrating to IWAN from your existing WAN infrastructure This guide will be indispensable for all experienced network professionals who support WANs are deploying Cisco IWAN solutions or use related technologies such as DMVPN or PfR Deploy Hybrid WAN connectivity to

increase WAN capacity and improve application performance Overlay DMVPN on WAN transport to simplify operations gain transport independence and improve VPN scalability Secure DMVPN tunnels and IWAN routers Use Application Recognition to support QoS Performance Routing PfR and application visibility Improve application delivery and WAN efficiency via PfR Monitor hub transit and branch sites traffic classes and channels Add application level visibility and per application monitoring to IWAN routers Overcome latency and bandwidth inefficiencies that limit application performance Use Cisco WAAS to customize each location s optimizations application accelerations and virtualization Smoothly integrate Cisco WAAS into branch office network infrastructure Ensure appropriate WAN application responsiveness and experience Improve SaaS application performance with Direct Internet Access DIA Perform pre migration tasks and prepare your current WAN for IWAN Migrate current point to point and multipoint technologies to IWAN

Decoding Cisco Guide To Harden Cisco Ios Devices: Revealing the Captivating Potential of Verbal Expression

In a time characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its ability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "Cisco Guide To Harden Cisco Ios Devices," a mesmerizing literary creation penned by way of a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring impact on our lives. In this appraisal, we shall explore the book is central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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