Cisco Ios Switch Security Configuration Guide

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How to Configure Port Security on a Cisco Switch *11.6.1 Packet Tracer - Switch Security Configuration* 11.6.2 Lab - Switch Security Configuration Simplifying Cisco Catalyst Switch Port Security *How to Configure SSH on a Cisco Router or Switch* ~~11.6.2 Lab - Switch Security Configuration~~ ~~Cisco Switch Port Security Packet Tracer Demonstration - Part 1~~ *Port-Security Configuration 11.6.1 Packet Tracer - Switch Security Configuration* 11.6.1 Packet Tracer - Switch Security Configuration (CCNAv7 200-301) ~~Port Security Configuration(Violation Restrict)~~ Port Security | CCNA 200-301 Basic Switch Configuration | Switch Basic Configuration | Cisco Switch Assign IP Address ~~Setup SSH on Cisco IOS~~ VLAN Trunking Protocol (VTP) Explained | Version 1 \u0026 2 Download

Cisco IOS images and use in GNS3 Basic Switch Configuration SRWE - 11.6.1 PT - SWITCH SECURITY CONFIGURATION CCNAv7 - 11.6.2 Lab Switch Security Configuration - By VeryTutos Cisco IOS Router Basic Configuration **Port-Security Theory \u0026 Operations Configuring Remote Access - Telnet \u0026 SSH 5.2.2.7 Packet Tracer - Configuring Switch Port Security** Cisco layer 2 switching and Port Security **Cisco IOS Basics 001 - The Initial Configuration Dialog Walkthrough** How to Secure Cisco Routers and Switches (webinar) FREE CCNA Lab 003: Basic Router Security Configuration 3 How to Configure VRF (Virtual Routing and Forwarding) on Cisco IOS **11.6.1 Packet Tracer - Switch Security Configuration How to Cisco Switch Configuration** Cisco Ios Switch Security Configuration
Security Configuration Guide, Cisco IOS Release 15.2 (2)E (Catalyst 2960-X Switch) Finding Feature Information. Your software release may not support all the features documented in this module. For... Restrictions for Configuring the Switch for SSH. The following are restrictions for ...

Security Configuration Guide, Cisco IOS Release 15.2(2)E ...
Procedure Step 1. Enables privileged EXEC mode. Enter your password if prompted. Step 2. Enters global configuration mode. Step 3. Enables AAA. Step 4. Creates a login authentication method list. To create a default list that is used when a named list is not... Step 5. Enters line configuration ...

Security Configuration Guide, Cisco IOS XE Gibraltar 16.12 ...
Procedure Step 1. Enables privileged EXEC mode. Enter your password, if prompted. Step 2. Enters global configuration mode. Step 3. Device (config)# enable secret 9 9sMLBsTFXLnnHTk$0L82 Defines a new password or changes an existing password... Step 4. Encryption prevents the password from being ...

Security Configuration Guide, Cisco IOS XE Gibraltar 16.12 ...
Sample configuration files for two different models of Cisco switches are included that combine most of the countermeasures in this guide. Finally, a security checklist for Cisco switches summarizes the countermeasures. Checklist Role: Ethernet LAN Switch; Known Issues: Not provided. Target Audience:

NCP - Checklist Cisco IOS Switch Security Configuration Guide
Security Configuration Guide, Cisco IOS XE Fuji 16.9.x (Catalyst 9300 Switches) Chapter Title. Configuring Secure Shell (SSH) PDF - Complete Book (8.33 MB) PDF - This Chapter (1.11 MB) View with Adobe Reader on a variety of devices

Security Configuration Guide, Cisco IOS XE Fuji 16.9.x ...
Use the crypto key generate rsa global configuration mode command to enable the SSH server on the switch and generate an RSA key pair. When generating RSA keys, the administrator is prompted to enter a modulus length. Cisco recommends a minimum modulus size of 1024 bits (refer to the sample configuration in Figure 2-12).

Switch Security: Management and ... - Cisco Press
DETAILED STEPS Step 1. Enables privileged EXEC mode. Enter the password if prompted. Step 2. Enters the global configuration mode. Step 3. Device (config)# interface GigabitEthernet 1/0/1 Identifies the MACsec interface, and enters interface... Step 4. Device (config-if)# switchport access vlan 1 ...

Security Configuration Guide, Cisco IOS XE Fuji 16.9.x ...
Catalyst 2960-X Switch Security Configuration Guide, Cisco IOS Release 15.0 (2)EX. Preface. Using the Command-Line Interface. Security Features Overview. Preventing Unauthorized Access. Controlling Switch Access with Passwords and Privilege Levels.

Configuring TACACS+. Configuring RADIUS. Configuring Local Authentication and Authorization.

Catalyst 2960-X Switch Security Configuration Guide, Cisco ...
Catalyst 2960-X Switch Security Configuration Guide, Cisco IOS Release 15.0(2)EX . Chapter ...

Catalyst 2960-X Switch Security Configuration Guide, Cisco ...
It provides guidelines, procedures, and configuration examples. To practice and learn to configure port security on Cisco switch, just download the port security packet tracer lab or create your own lab and follow the switch port security configuration guideline. Download Switch Port Security Configuration Packet Tracer Lab.

How to Configure Switch Port Security on Cisco Switches ...
Basic IOS Security Configuration. The following lessons and case studies are dedicated to basic Cisco IOS Software security configuration methods and are grouped into several scenarios, variations of which you are likely to encounter in the CCIE Security lab exam or in real life. Lesson 15-1: Configuring Passwords, Privileges, and Logins

Basic IOS Security Configuration > Basic Cisco IOS ...
Port-security + 802.1X/MAB (Interface Configuration) Port-security feature allows one to tie the MAC address of the endpoint to the switch port for security purposes, but it does not play well with 802.1X.

Top Ten mis-configured Cisco IOS Switch settings for ISE ...
1) Your switch interface must be L2 as "port security" is configure on an access interface.You can make your L3 switch port to an access interface by using the "switchport" command. 2) Then you need to enable port security by using the "switchport port-security" command.

How to configure port security on Cisco Catalyst switches ...
Cisco Switch IOS-XE CIS Security Configuration Benchmark Hi, I am looking for CIS Security Configuration Benchmark for Cisco Switch WS-C3650-24TS-L , with IOX-XE cat3k_caa-universalk9.SPA.03.06.06.E.152-2.E6.bin.

Cisco Switch IOS-XE CIS Security Config... - Cisco Community
The switch must be connected to a Cisco secure Access Control System (ACS) and RADIUS authentication, authorization, and accounting (AAA) must be configured for Web authentication. If appropriate, you must enable ACL download.

Cisco Content Hub - IEEE 802.1X Auth Fail VLAN
Overview This document, Security Configuration Benchmark for Cisco IOS, provides prescriptive guidance for establishing a secure configuration posture for Cisco Router running Cisco IOS version 15.0M. This guide was tested against Cisco IOS IP Advanced IP Services v15.0.1 as installed by c880data-universalk9-mz.150-1.M4.bin.

CIS Cisco IOS 15 Benchmark - New Net Technologies
By default, the Cisco Software Checker includes results only for vulnerabilities that have a Critical or High Security Impact Rating (SIR). To include results for Medium SIR vulnerabilities, customers can use the Cisco Software Checker on Cisco.com and check the Medium check box in the drop-down list under Impact Rating when customizing a search.. For a mapping of Cisco IOS XE Software ...

Cisco Security Advisory: Cisco IOS and IOS XE Software ...
A vulnerability in the PROFINET feature of Cisco IOS Software and Cisco IOS XE Software could allow an unauthenticated, adjacent attacker to cause an affected device to crash and reload, resulting in a denial of service (DoS) condition on the device. The

vulnerability is due to insufficient processing logic for crafted PROFINET packets that are sent to an affected device. An attacker could ...

Routing and Switching Essentials Companion Guide is the official supplemental textbook for the Routing and Switching Essentials course in the Cisco® Networking Academy® CCNA® Routing and Switching curriculum. This course describes the architecture, components, and operations of routers and switches in a small network. You learn how to configure a router and a switch for basic functionality. By the end of this course, you will be able to configure and troubleshoot routers and switches and resolve common issues with RIPv1, RIPv2, single-area and multi-area OSPF, virtual LANs, and inter-VLAN routing in both IPv4 and IPv6 networks. The Companion Guide is designed as a portable desk reference to use anytime, anywhere to reinforce the material from the course and organize your time. The book's features help you focus on important concepts to succeed in this course: Chapter objectives–Review core concepts by answering the focus questions listed at the beginning of each chapter. Key terms–Refer to the lists of networking vocabulary introduced and highlighted in context in each chapter. Glossary–Consult the comprehensive Glossary with more than 200 terms. Summary of Activities and Labs–Maximize your study time with this complete list of all associated practice exercises at the end of each chapter. Check Your Understanding–Evaluate your readiness with the end-of-chapter questions that match the style of questions you see in the online course quizzes. The answer key explains each answer. Related Title: Routing and Switching Essentials Lab Manual How To–Look for this icon to study the steps you need to learn to perform certain tasks. Interactive Activities–Reinforce your understanding of topics by doing all the exercises from the online course identified throughout the book with this icon. Videos–Watch the videos

embedded within the online course. Packet Tracer Activities–Explore and visualize networking concepts using Packet Tracer exercises interspersed throughout the chapters. Hands-on Labs–Work through all the course labs and additional Class Activities that are included in the course and published in the separate Lab Manual.

As a network administrator, auditor or architect, you know the importance of securing your network and finding security solutions you can implement quickly. This succinct book departs from other security literature by focusing exclusively on ways to secure Cisco routers, rather than the entire network. The rational is simple: If the router protecting a network is exposed to hackers, then so is the network behind it. Hardening Cisco Routers is a reference for protecting the protectors. Included are the following topics: The importance of router security and where routers fit into an overall security plan Different router configurations for various versions of Cisco?s IOS Standard ways to access a Cisco router and the security implications of each Password and privilege levels in Cisco routers Authentication, Authorization, and Accounting (AAA) control Router warning banner use (as recommended by the FBI) Unnecessary protocols and services commonly run on Cisco routers SNMP security Anti-spoofing Protocol security for RIP, OSPF, EIGRP, NTP, and BGP Logging violations Incident response Physical security Written by Thomas Akin, an experienced Certified Information Systems Security Professional (CISSP) and Certified Cisco Academic Instructor (CCAI), the book is well organized, emphasizing practicality and a hands-on approach. At the end of each chapter, Akin includes a Checklist that summarizes the hardening techniques discussed in the chapter. The Checklists help you double-check the configurations you have been instructed to make, and serve as quick references for future security procedures.Concise and to the point, Hardening Cisco Routers supplies you with all the tools necessary to turn a potential

vulnerability into a strength. In an area that is otherwise poorly documented, this is the one book that will help you make your Cisco routers rock solid.

Thoroughly revised and expanded, this second edition adds sections on MPLS, Security, IPv6, and IP Mobility and presents solutions to the most common configuration problems.

While several publishers (including O'Reilly) supply excellent documentation of router features, the trick is knowing when, why, and how to use these features There are often many different ways to solve any given networking problem using Cisco devices, and some solutions are clearly more effective than others. The pressing question for a network engineer is which of the many potential solutions is the most appropriate for a particular situation. Once you have decided to use a particular feature, how should you implement it? Unfortunately, the documentation describing a particular command or feature frequently does very little to answer either of these questions.Everybody who has worked with Cisco routers for any length of time has had to ask their friends and co-workers for example router configuration files that show how to solve a common problem. A good working configuration example can often save huge amounts of time and frustration when implementing a feature that you've never used before. The Cisco Cookbook gathers hundreds of example router configurations all in one place.As the name suggests, Cisco Cookbook is organized as a series of recipes. Each recipe begins with a problem statement that describes a common situation that you might face. After each problem statement is a brief solution that shows a sample router configuration or script that you can use to resolve this particular problem. A discussion section then describes the solution, how it works, and when you should or should not use it. The chapters are organized by the feature or protocol discussed. If you are looking for information on a particular feature such as NAT, NTP or SNMP,

you can turn to that chapter and find a variety of related recipes. Most chapters list basic problems first, and any unusual or complicated situations last.The Cisco Cookbook will quickly become your "go to" resource for researching and solving complex router configuration issues, saving you time and making your network more efficient. It covers: Router Configuration and File Management Router Management User Access and Privilege Levels TACACS+ IP Routing RIP EIGRP OSPF BGP Frame Relay Queueing and Congestion Tunnels and VPNs Dial Backup NTP and Time DLSw Router Interfaces and Media Simple Network Management Protocol Logging Access Lists DHCP NAT Hot Standby Router Protocol IP Multicast

A helpful guide on all things Cisco Do you wish that the complex topics of routers, switches, andnetworking could be presented in a simple, understandablepresentation? With Cisco Networking All-in-One For Dummies,they are! This expansive reference is packed with all theinformation you need to learn to use Cisco routers and switches todevelop and manage secure Cisco networks. Thisstraightforward-by-fun guide offers expansive coverage of Cisco andbreaks down intricate subjects such as networking, virtualization,and database technologies into easily digestible pieces. Drills down complex subjects concerning Cisco networking intoeasy-to-understand, straightforward coverage Shares best practices for utilizing Cisco switches and routersto implement, secure, and optimize Cisco networks Reviews Cisco networking solutions and products, securing Cisconetworks, and optimizing Cisco networks Details how to design and implement Cisco networks Whether you're new to Cisco networking products and services oran experienced professional looking to refresh your knowledge aboutCisco, this For Dummies guide provides you with thecoverage, solutions, and best practices you need.

The ultimate command reference for configuring Cisco "RM"

routers and switches. This guide presents the common elements of complex configurations for Cisco "RM" routers, switches, and firewalls in an intuitive, easy-to-reference format.

Harden perimeter routers with Cisco firewall functionality and features to ensure network security Detect and prevent denial of service (DoS) attacks with TCP Intercept, Context-Based Access Control (CBAC), and rate-limiting techniques Use Network-Based Application Recognition (NBAR) to detect and filter unwanted and malicious traffic Use router authentication to prevent spoofing and routing attacks Activate basic Cisco IOS filtering features like standard, extended, timed, lock-and-key, and reflexive ACLs to block various types of security threats and attacks, such as spoofing, DoS, Trojan horses, and worms Use black hole routing, policy routing, and Reverse Path Forwarding (RPF) to protect against spoofing attacks Apply stateful filtering of traffic with CBAC, including dynamic port mapping Use Authentication Proxy (AP) for user authentication Perform address translation with NAT, PAT, load distribution, and other methods Implement stateful NAT (SNAT) for redundancy Use Intrusion Detection System (IDS) to protect against basic types of attacks Obtain how-to instructions on basic logging and learn to easily interpret results Apply IPSec to provide secure connectivity for site-to-site and remote access connections Read about many, many more features of the IOS firewall for mastery of router security The Cisco IOS firewall offers you the feature-rich functionality that you've come to expect from best-of-breed firewalls: address translation, authentication, encryption, stateful filtering, failover, URL content filtering, ACLs, NBAR, and many others. Cisco Router Firewall Security teaches you how to use the Cisco IOS firewall to enhance the security of your perimeter routers and, along the way, take advantage of the flexibility and scalability that is part of the Cisco IOS Software package. Each chapter in Cisco Router Firewall Security addresses an important component of perimeter router security. Author

Richard Deal explains the advantages and disadvantages of all key security features to help you understand when they should be used and includes examples from his personal consulting experience to illustrate critical issues and security pitfalls. A detailed case study is included at the end of the book, which illustrates best practices and specific information on how to implement Cisco router security features. Whether you are looking to learn about firewall security or seeking how-to techniques to enhance security in your Cisco routers, Cisco Router Firewall Security is your complete reference for securing the perimeter of your network. 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.

Improve operations and agility in any data center, campus, LAN, or WAN Today, the best way to stay in control of your network is to address devices programmatically and automate network interactions. In this book, Cisco experts Ryan Tischer and Jason Gooley show you how to do just that. You'll learn how to use programmability and automation to solve business problems, reduce costs, promote agility and innovation, handle accelerating complexity, and add value in any data center, campus, LAN, or WAN. The authors show you how to create production solutions that run on or interact with Nexus NX-OS-based switches, Cisco ACI, Campus, and WAN technologies.You'll learn how to use advanced Cisco tools together with industry-standard languages and platforms, including Python, JSON, and Linux. The authors demonstrate how to support dynamic application environments, tighten links between apps and infrastructure, and make DevOps work better. This book will be an indispensable resource for network and cloud designers, architects, DevOps engineers, security specialists, and every professional who wants to build or operate high-efficiency networks. Drive more value through programma-

bility and automation, freeing resources for high-value innovation Move beyond error-prone, box-by-box network management Bridge management gaps arising from current operational models Write NX-OS software to run on, access, or extend your Nexus switch Master Cisco's powerful on-box automation and operation tools Manage complex WANs with NetConf/Yang, ConfD, and Cisco SDN Controller Interact with and enhance Cisco Application Centric Infrastructure (ACI) Build self-service catalogs to accelerate application delivery Find resources for deepening your expertise in network automation

Router Security Strategies: Securing IP Network Traffic Planes provides a compre-hensive approach to understand and implement IP traffic plane separation and protection on IP routers. This book details the distinct traffic planes of IP networks and the advanced techniques necessary to operationally secure them. This includes the data, control, management, and services planes that provide the infrastructure for IP networking. The first section provides a brief overview of the essential components of the Internet Protocol and IP networking. At the end of this section, you will understand the fundamental principles of defense in depth and breadth security as applied to IP traffic planes. Techniques to secure the IP data plane, IP control plane, IP management plane, and IP services plane are covered in detail in the second section. The final section provides case studies from both the enterprise network and the service provider network perspectives. In this way, the individual IP traffic plane security techniques reviewed in the second section of the book are brought together to help you create an integrated, comprehensive defense in depth and breadth security architecture. "Understanding and securing IP traffic planes are critical to the overall security posture of the IP infrastructure. The techniques detailed in this book provide protection and instrumentation enabling operators to understand and defend against attacks. As the vulnerability economy continues to mature, it is critical for both

vendors and network providers to collaboratively deliver these protections to the IP infrastructure." –Russell Smoak, Director, Technical Services, Security Intelligence Engineering, Cisco Gregg Schudel, CCIE® No. 9591, joined Cisco in 2000 as a consulting system engineer supporting the U.S. service provider organization. Gregg focuses on IP core network security architectures and technology for interexchange carriers and web services providers. David J. Smith, CCIE No. 1986, joined Cisco in 1995 and is a consulting system engineer supporting the service provider organization. David focuses on IP core and edge architectures including IP routing, MPLS technologies, QoS, infrastructure security, and network telemetry. Understand the operation of IP networks and routers Learn about the many threat models facing IP networks, Layer 2 Ethernet switching environments, and IPsec and MPLS VPN services Learn how to segment and protect each IP traffic plane by applying defense in depth and breadth principles Use security techniques such as ACLs, rate limiting, IP Options filtering, uRPF, QoS, RTBH, QPPB, and many others to protect the data plane of IP and switched Ethernet networks Secure the IP control plane with rACL, CoPP, GTSM, MD5, BGP and ICMP techniques and Layer 2 switched Ethernet-specific techniques Protect the IP management plane with password management, SNMP, SSH, NTP, AAA, as well as other VPN management, out-of-band management, and remote access management techniques Secure the IP services plane using recoloring, IP fragmentation control, MPLS label control, and other traffic classification and process control techniques 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.

Contrary to popular belief, Ethernet switches are not inherently secure. Security vulnerabilities in Ethernet switches are multiple:

from the switch implementation, to control plane protocols (Spanning Tree Protocol [STP], Cisco® Discovery Protocol [CDP], and so on) and data plane protocols, such as Address Routing Protocol (ARP) or Dynamic Host Configuration Protocol (DHCP). LAN Switch Security explains all the vulnerabilities in a network infrastructure related to Ethernet switches. Further, this book shows you how to configure a switch to prevent or to mitigate attacks based on those vulnerabilities. This book also includes a section on how to use an Ethernet switch to increase the security of a network and prevent future attacks. Divided into four parts, LAN Switch Security provides you with steps you can take to ensure the integrity of both voice and data traffic traveling over Layer 2 devices. Part I covers vulnerabilities in Layer 2 protocols and how to configure switches to prevent attacks against those vulnerabilities. Part II addresses denial-of-service (DoS) attacks on an Ethernet switch and shows how those attacks can be mitigated. Part III shows how a switch can actually augment the security of a network through the utilization of wirespeed access control list (ACL) processing and IEEE 802.1x for user authentication and authorization. Part IV examines future developments from the LinkSec working group at the IEEE. For all parts, most of the content is vendor independent and is useful for all network architects deploying Ethernet switches. After reading this book, you will have an in-depth understanding of LAN security and be prepared to plug the security holes that exist in a great number of campus networks. Use port security to protect against CAM attacks Prevent spanning-tree attacks Isolate VLANs with proper configuration techniques Protect against rogue DHCP servers Block ARP snooping Prevent IPv6 neighbor discovery and router solicitation exploitation Identify Power over Ethernet vulnerabilities Mitigate risks from HSRP and VRPP Stop information leaks with CDP, PaGP, VTP, CGMP and other Cisco ancillary protocols Understand and prevent DoS attacks against switches Enforce simple wirespeed security policies with ACLs Implement user authentication on a port base with IEEE 802.1x Use

new IEEE protocols to encrypt all Ethernet frames at wirespeed. 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.