

Mikrotik Basic Setup Guide

MikroTik Security Guide, Second Edition, is the definitive guide to securing MikroTik RouterOS and RouterBOARD devices. It's built around industry best practices, legal and compliance standards, and lessons learned by the author during years of auditing and consulting engagements. Links to industry-standard best practices and STIG documentation are included to help enhance your MikroTik network security program. Topics include physical and wireless security, locking down IP services, managing users, configuring firewalls, segmentation with VLANs, and more. Chapters include simple to follow descriptions of how and why steps are performed, and easy copy-paste commands you can run directly on your RouterOS devices. Many of the topics included in the guide also correspond with MikroTik's MTCNA certification outline, so it's great for on-the-job use and professional development.

Provides instructions on how to build low-cost telecommunications infrastructure. Topics covered range from basic radio physics and network design to equipment and troubleshooting, a chapter on Voice over IP (VoIP), and a selection of four case studies from networks deployed in Latin America. The text was written and reviewed by a team of experts in the field of long distance wireless networking in urban, rural, and remote areas. Contents: 1) Where to Begin. 2) A Practical Introduction to Radio Physics. 3) Network Design. 4) Antennas & Transmission Lines. 5) Networking Hardware. 6) Security & Monitoring. 7) Solar Power. 8) Building an Outdoor Node. 9) Troubleshooting. 10) Economic Sustainability. 11) Case Studies. See the website for translations, including French, Spanish, Portuguese, Italian, Arabic, and others, and additional case studies, training course material, and related information

Complete Administrator's User Guide to daloRADIUS Platform. daloRADIUS is an advanced RADIUS web platform aimed at managing hotspots and general-purpose ISP deployments. It features user management, graphical reporting, accounting, and integration with GoogleMaps for geo-locating. daloRADIUS integrates with FreeRADIUS's database to provide centralized management and control for RADIUS deployments. Those who would find daloRADIUS to be of use are most notably RADIUS operators and administrators, network and systems administrators, integration engineers and NOC departments. Companies or individuals running hotspot captive portals or remote access technologies such as VPNs are likely to find daloRADIUS a great fit to manage their users database records.

Switching, Routing, and Wireless Essentials (CCNA v7) Companion Guide is designed as a portable desk reference to use anytime, anywhere to reinforce the material from the Switching, Routing, and Wireless Essentials 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 250 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. 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 with dozens of exercises from the online course identified throughout the book with this icon. Packet Tracer Activities -- Explore and visualize networking concepts using Packet Tracer exercises interspersed throughout the chapters and provided in the accompanying Labs & Study Guide book. Videos -- Watch the videos embedded within the online course. Hands-on Labs -- Work through all the course labs and additional Class Activities that are included in the course and published in the separate Labs & Study Guide. Part of the Cisco Networking Academy Series from Cisco Press, books in this series support and complement the Cisco Networking Academy curriculum.

Multicast is a topic that was never clear to many network engineers when deploying it on MikroTik RouterOS. As this topic is very important, I have decided to write a book about Multicast where I explain in details about it and I apply it directly on LABS. You may have already noticed that there is a lack of resources about Multicast on MikroTik if you search on the web, that is why my book can be a reference for anyone who would like to implement Multicast using MikroTik products. I hope you will enjoy the book, and in case you have any suggestion(s) please feel free to contact me on my email address available in my book.

Covers the most important and common configuration scenarios and features which will put you on track to start implementing ASA firewalls right away.

From Charles M. Kozierek, the creator of the highly regarded www.pcguides.com, comes The TCP/IP Guide. This completely up-to-date, encyclopedic reference on the TCP/IP protocol suite will appeal to newcomers and the seasoned professional alike. Kozierek details the core protocols that make TCP/IP internetworks function and the most important classic TCP/IP applications, integrating IPv6 coverage throughout. Over 350 illustrations and hundreds of tables help to explain the finer points of this complex topic. The book's personal, user-friendly writing style lets readers of all levels understand the dozens of protocols and technologies that run the Internet, with full coverage of PPP, ARP, IP, IPv6, IP NAT, IPSec, Mobile IP, ICMP, RIP, BGP, TCP, UDP, DNS, DHCP, SNMP, FTP, SMTP, NNTP, HTTP, Telnet, and much more. The TCP/IP Guide is a must-have addition to the libraries of internetworking students, educators, networking professionals, and those working toward certification.

How prepared are you to build fast and efficient web applications? This eloquent book provides what every web developer should know about the network, from fundamental limitations that affect performance to major innovations for building even more powerful browser applications—including HTTP 2.0 and XHR improvements, Server-Sent Events (SSE), WebSocket, and WebRTC. Author Ilya Grigorik, a web performance engineer at Google, demonstrates performance optimization best practices for TCP, UDP, and TLS protocols, and explains unique wireless and mobile

network optimization requirements. You'll then dive into performance characteristics of technologies such as HTTP 2.0, client-side network scripting with XHR, real-time streaming with SSE and WebSocket, and P2P communication with WebRTC. Deliver superlative TCP, UDP, and TLS performance Speed up network performance over 3G/4G mobile networks Develop fast and energy-efficient mobile applications Address bottlenecks in HTTP 1.x and other browser protocols Plan for and deliver the best HTTP 2.0 performance Enable efficient real-time streaming in the browser Create efficient peer-to-peer videoconferencing and low-latency applications with real-time WebRTC transports

Pick up where certification exams leave off. With this practical, in-depth guide to the entire network infrastructure, you'll learn how to deal with real Cisco networks, rather than the hypothetical situations presented on exams like the CCNA. Network Warrior takes you step by step through the world of routers, switches, firewalls, and other technologies based on the author's extensive field experience. You'll find new content for MPLS, IPv6, VoIP, and wireless in this completely revised second edition, along with examples of Cisco Nexus 5000 and 7000 switches throughout. Topics include: An in-depth view of routers and routing Switching, using Cisco Catalyst and Nexus switches as examples SOHO VoIP and SOHO wireless access point design and configuration Introduction to IPv6 with configuration examples Telecom technologies in the data-networking world, including T1, DS3, frame relay, and MPLS Security, firewall theory, and configuration, as well as ACL and authentication Quality of Service (QoS), with an emphasis on low-latency queuing (LLQ) IP address allocation, Network Time Protocol (NTP), and device failures

Run your own Minecraft server: take total control of your Minecraft experience! What's more fun than playing multiplayer Minecraft? Running your own Minecraft server. Now there's a complete, up-to-date guide to doing just that—even if you have no networking or server experience! Best-selling tech author Timothy L. Warner covers all you need to know, from the absolute basics to cutting-edge customization. You'll learn from crystal-clear, step-by-step instructions designed for today's newest Minecraft servers. Warner guides you through prepping your computer and network...installing a basic server and powerful third-party alternatives...welcoming and managing users...protecting against griefing and other attacks...adding powerful plug-ins and mods...using easy subscription hosting services...giving your users a truly awesome game experience. This book's #1 goal is to help you have more fun with Minecraft. But you'll also master practical skills for a well-paid technology career! Gain deep multiplayer Minecraft knowledge for running your server well Configure your computer to reliably host Minecraft Control your server through the Minecraft Server console Connect users, communicate with them, and set rules they must follow Master basic networking skills for improving server uptime and performance Safeguard your server and users, and prevent griefing Simplify complicated mods with integrated modpacks and launchers Run on the Realms public cloud—let Minecraft worry about maintenance and security Evaluate and choose a third-party hosting provider Customize your spawn "lobby" to help new users find their way Support multiple worlds and teleportation Earn cash with ads, sponsorships, cosmetic upgrades, or VIP access Minecraft is a trademark of Mojang Synergies / Notch Development AB. This book is not affiliated with or sponsored by Mojang Synergies / Notch Development AB. Timothy L. Warner is the author of Hacking Raspberry Pi and The Unauthorized Guide to iPhone, iPad, and iPod Repair: A DIY Guide to Extending the Life of Your iDevices!. He is a tech professional who has helped thousands of people become more proficient with technology in business and education. He holds the CompTIA A+ Computer Technician credential and 20 other technical certifications. As Director of Technology for a progressive high school, he created and managed a self-servicing warranty repair shop for all of its Apple hardware. Now an author/evangelist for Pluralsight, he shares Windows PowerShell scripting knowledge at 2minutepowershell.com.

Networking with MikroTikMTCNA Study Guide

Written by Jacek Artymiak, a frequent contributor to ONLamp.com, Building Firewalls with OpenBSD and PF is the first and only print publication devoted solely to the subject of the pf packet filter used in OpenBSD, FreeBSD, and NetBSD operating systems. Topics covered include: firewall design, ruleset syntax, packet normalization (scrubbing), packet redirection (masquerading), packet filtering, bandwidth management (ALTQ), load balancing, and more. The author maintains a web site and a mailing list for the readers of his book.

Explore the benefits of VMware vSphere 6.7 to provide a powerful, flexible, and secure virtual infrastructure, and secure apps. Next, you'll pick up on how to enhance your infrastructure with high-performance storage access, such as remote direct memory access (RDMA) and Persistent Key Features Design, deploy and manage VMware vSphere virtual data centers Implement monitoring and security of VMware workloads with ease Explore tips and techniques for designing a robust virtual infrastructure Book Description vSphere 6.7 is the latest release of VMware's industry-leading virtual cloud platform. By understanding how to manage, secure, and scale apps with vSphere 6.7, you can easily run even the most demanding of workloads. This Learning Path begins with an overview of the features of the vSphere 6.7 suite. You'll learn how to plan and design a virtual infrastructure. You'll also gain insights into best practices to efficiently configure, manage, and secure apps. Next, you'll pick up on how to enhance your infrastructure with high-performance storage access, such as remote direct memory access (RDMA) and Persistent memory. The book will even guide you in securing your network with security features, such as encrypted vMotion and VM-level encryption. Finally, by learning how to apply Proactive High Availability and Predictive Distributed Resource Scheduler (DRS), you'll be able to achieve enhanced computing, storage, network, and management capabilities for your virtual data center. By the end of this Learning Path, you'll be able to build your own VMware vSphere lab that can run high workloads. This Learning Path includes content from the following Packt products: VMware vSphere 6.7 Data Center Design Cookbook - Third Edition by Mike Brown and Hersey Cartwright Mastering VMware vSphere 6.7 - Second Edition by Martin Gavanda, Andrea Mauro, Karel Novak, and Paolo Valsecchi What you will learn Understand how to patch, upgrade, and manage a virtual environment with vSphere 6.7 Identify key factors related to a vSphere design Mitigate security risks and meet compliance requirements in a vSphere design Create a vSphere conceptual design by identifying technical and business requirements Map the logical resource design into the physical vSphere design Create professional vSphere design documentation Who this book is for This Learning Path is for administrators, infrastructure engineers, consultants, and architects who want to design virtualized data center environments using VMware vSphere 6.x (or previous versions of vSphere and the supporting components). Basic knowledge of VMware vSphere is required to get the most out of this Learning Path.

The comprehensive, hands-on guide for resolving IP routing problems Understand and overcome common routing problems associated with BGP, IGRP, EIGRP, OSPF, IS-IS, multicasting, and RIP, such as route installation, route advertisement, route redistribution, route summarization, route flap, and neighbor relationships Solve complex IP routing problems through methodical,

easy-to-follow flowcharts and step-by-step scenario instructions for troubleshooting Obtain essential troubleshooting skills from detailed case studies by experienced Cisco TAC team members Examine numerous protocol-specific debugging tricks that speed up problem resolution Gain valuable insight into the minds of CCIE engineers as you prepare for the challenging CCIE exams As the Internet continues to grow exponentially, the need for network engineers to build, maintain, and troubleshoot the growing number of component networks has also increased significantly. IP routing is at the core of Internet technology and expedient troubleshooting of IP routing failures is key to reducing network downtime and crucial for sustaining mission-critical applications carried over the Internet. Though troubleshooting skills are in great demand, few networking professionals possess the knowledge to identify and rectify networking problems quickly and efficiently. Troubleshooting IP Routing Protocols provides working solutions necessary for networking engineers who are pressured to acquire expert-level skills at a moment's notice. This book also serves as an additional study aid for CCIE candidates. Authored by Cisco Systems engineers in the Cisco Technical Assistance Center (TAC) and the Internet Support Engineering Team who troubleshoot IP routing protocols on a daily basis, Troubleshooting IP Routing Protocols goes through a step-by-step process to solving real-world problems. Based on the authors' combined years of experience, this complete reference alternates between chapters that cover the key aspects of a given routing protocol and chapters that concentrate on the troubleshooting steps an engineer would take to resolve the most common routing problems related to a variety of routing protocols. The book provides extensive, practical coverage of BGP, IGRP, EIGRP, OSPF, IS-IS, multicasting, and RIP as run on Cisco IOS Software network devices. Troubleshooting IP Routing Protocols offers you a full understanding of invaluable troubleshooting techniques that help keep your network operating at peak performance. Whether you are looking to hone your support skills or to prepare for the challenging CCIE exams, this essential reference shows you how to isolate and resolve common network failures and to sustain optimal network operation. This book is part of the Cisco CCIE Professional Development Series, which offers expert-level instruction on network design, deployment, and support methodologies to help networking professionals manage complex networks and prepare for CCIE exams.

This book describes the essential components of the SCION secure Internet architecture, the first architecture designed foremost for strong security and high availability. Among its core features, SCION also provides route control, explicit trust information, multipath communication, scalable quality-of-service guarantees, and efficient forwarding. The book includes functional specifications of the network elements, communication protocols among these elements, data structures, and configuration files. In particular, the book offers a specification of a working prototype. The authors provide a comprehensive description of the main design features for achieving a secure Internet architecture. They facilitate the reader throughout, structuring the book so that the technical detail gradually increases, and supporting the text with a glossary, an index, a list of abbreviations, answers to frequently asked questions, and special highlighting for examples and for sections that explain important research, engineering, and deployment features. The book is suitable for researchers, practitioners, and graduate students who are interested in network security.

Unleash the benefits of VMware vSphere 6.7 to provide a powerful, flexible and secure digital infrastructure Key Features Deep dive into areas like management, security, scalability, availability and more with vSphere 6.7 Design, deploy and manage VMware vSphere virtual datacenters Implement monitoring and security of VMware workloads with ease Book Description vSphere 6.7 is the latest release of VMware's industry-leading, virtual cloud platform. It allows organisations to move to hybrid cloud computing by enabling them to run, manage, connect and secure applications in a common operating environment. This up-to-date, 2nd edition provides complete coverage of vSphere 6.7. Complete with step-by-step explanations of essential concepts, practical examples and self-assessment questions, you will begin with an overview of the products, solutions and features of the vSphere 6.7 suite. You'll learn how to design and plan a virtual infrastructure and look at the workflow and installation of components. You'll gain insight into best practice configuration, management and security. By the end the book you'll be able to build your own VMware vSphere lab that can run even the most demanding of workloads. What you will learn Explore the immense functionality of vSphere 6.7 Design, manage and administer a virtualization environment Get tips for the VCP6-DCV and VCIX6-DCV exams Understand how to implement different migration techniques across different environments Explore vSphere 6.7's powerful capabilities for patching, upgrading and managing the configuration of virtual environments. Understand core vSphere components Master resource management, disaster recovery, troubleshooting, monitoring and security Who this book is for This book is for Administrators, Infrastructure Engineers, Architects, and Consultants with basic knowledge of VMware vSphere.

The Ubiquiti Routing And Switching Manual is a must have for the entry level Routing Student who may be new to the Ubiquiti Routing Operating System. A detailed look at both the theoretical overview and the actual working commands, with detailed step by step instructions on setting up both Switches and Routers. Configuration walk through for VLANs and setting up static and dynamic routing. Targeted for the beginner, this book will help you with basic configurations, and will offer lots of advice along the way.

Manage your network resources with FreeRADIUS by mastering authentication, authorization and accounting.

Learn Cacti and design a robust Network Operations Center.

A fast, hands-on introduction to offensive hacking techniques Hands-On Hacking teaches readers to see through the eyes of their adversary and apply hacking techniques to better understand real-world risks to computer networks and data. Readers will benefit from the author's years of experience in the field hacking into computer networks and ultimately training others in the art of cyber-attacks. This book holds no punches and explains the tools, tactics and procedures used by ethical hackers and criminal crackers alike. We will take you on a journey through a hacker's perspective when focused on the computer infrastructure of a target company, exploring how to access the servers and data. Once the information gathering stage is complete, you'll look for flaws and their known exploits—including tools developed by real-world government financed state-actors. • An introduction to the same hacking techniques that malicious hackers will use against an organization • Written by infosec experts with proven history of publishing vulnerabilities and highlighting security flaws • Based on the tried and tested material used to train hackers all over the world in the art of breaching networks • Covers the fundamental basics of how computer networks are inherently vulnerable to attack, teaching the student how to apply hacking skills to uncover vulnerabilities We cover topics of breaching a company from the external network perimeter, hacking internal enterprise systems and web application vulnerabilities. Delving into the basics of exploitation with real-world practical examples, you won't find any hypothetical academic only attacks here. From start to finish this book will take the student through the steps necessary to breach an organization to improve its security. Written by world-renowned cybersecurity experts and educators, Hands-On Hacking teaches entry-level professionals seeking to learn ethical

hacking techniques. If you are looking to understand penetration testing and ethical hacking, this book takes you from basic methods to advanced techniques in a structured learning format.

"Shows readers how to create and manage virtual networks on a PC using the popular open-source platform GNS3, with tutorial-based explanations"--

This introduction to networking on Linux now covers firewalls, including the use of ipchains and Netfilter, masquerading, and accounting. Other new topics in this second edition include Novell (NCP/IPX) support and INN (news administration).

The ultimate preparation guide for the unique CEH exam. The CEH v10: Certified Ethical Hacker Version 10 Study Guide is your ideal companion for CEH v10 exam preparation. This comprehensive, in-depth review of CEH certification requirements is designed to help you internalize critical information using concise, to-the-point explanations and an easy-to-follow approach to the material. Covering all sections of the exam, the discussion highlights essential topics like intrusion detection, DDoS attacks, buffer overflows, and malware creation in detail, and puts the concepts into the context of real-world scenarios. Each chapter is mapped to the corresponding exam objective for easy reference, and the Exam Essentials feature helps you identify areas in need of further study. You also get access to online study tools including chapter review questions, full-length practice exams, hundreds of electronic flashcards, and a glossary of key terms to help you ensure full mastery of the exam material. The Certified Ethical Hacker is one-of-a-kind in the cybersecurity sphere, allowing you to delve into the mind of a hacker for a unique perspective into penetration testing. This guide is your ideal exam preparation resource, with specific coverage of all CEH objectives and plenty of practice material. Review all CEH v10 topics systematically Reinforce critical skills with hands-on exercises Learn how concepts apply in real-world scenarios Identify key proficiencies prior to the exam The CEH certification puts you in professional demand, and satisfies the Department of Defense's 8570 Directive for all Information Assurance government positions. Not only is it a highly-regarded credential, but it's also an expensive exam—making the stakes even higher on exam day. The CEH v10: Certified Ethical Hacker Version 10 Study Guide gives you the intense preparation you need to pass with flying colors.

Network programming has always been a demanding task. With full-featured and well documented libraries all the way up the stack, Python makes network programming the enjoyable experience it should be. Starting with a walkthrough of today's major networking protocols, with this book you'll learn how to employ Python for network programming, how to request and retrieve web resources, and how to extract data in major formats over the Web. You'll utilize Python for e-mailing using different protocols and you'll interact with remote systems and IP and DNS networking. As the book progresses, socket programming will be covered, followed by how to design servers and the pros and cons of multithreaded and event-driven architectures. You'll develop practical client-side applications, including web API clients, e-mail clients, SSH, and FTP. These applications will also be implemented through existing web application frameworks.

Security Onion is a free and open source Linux distribution for threat hunting, enterprise security monitoring, and log management. It includes Elasticsearch, Logstash, Kibana, Suricata, Zeek, Wazuh, CyberChef, and many other security tools. This documentation will give you an overview of installation, configuration, and usage of Security Onion and its components. Don't miss the inspiring foreword by Richard Bejtlich! Proceeds go to the Rural Technology Fund! This book covers the following Security Onion topics: Getting Started Security Onion Console (SOC) Analyst VM Network Visibility Host Visibility Logs Updating Accounts Services Customizing for Your Environment Tuning Tricks and Tips Utilities Many folks have asked for a printed version of our official online documentation and we're excited to provide that! Whether you work on airgapped networks or simply want a portable desk reference, this is what you've been asking for! Q&A What is Security Onion? Security Onion is a free and open source Linux distribution for threat hunting, enterprise security monitoring, and log management. It includes Elasticsearch, Logstash, Kibana, Snort, Suricata, Zeek, Wazuh, CyberChef, and many other security tools. Security Onion was started by Doug Burks in 2008. Who is Doug Burks? Doug Burks started Security Onion as a free and open source project in 2008 and then founded Security Onion Solutions, LLC in 2014. What is Security Onion Solutions? Doug Burks started Security Onion Solutions, LLC in 2014. Security Onion Solutions is the only official provider of training, professional services, and hardware appliances for Security Onion. Who wrote this book? Security Onion Solutions is the primary author and maintainer of this documentation. Some content has been contributed by members of our community. Thanks to all the folks who have contributed to this documentation over the years! The inspiring foreword was written by Richard Bejtlich! What is the difference between this book and the online documentation? This book is the online documentation formatted specifically for print. It also includes an inspiring foreword by Richard Bejtlich that is not available anywhere else! Finally, proceeds go to the Rural Technology Fund! Who should get this book? Security Onion users who work on airgapped networks or simply want a portable reference that requires no Internet connection and no batteries! Also anyone who wants to donate to a worthy cause like Rural Technology Fund!

This ultra-cool volume invites readers to tap into your inner geek and build seventeen ultra-cool wireless devices including a solar powered access point, a wireless picture frame that dynamically changes its own photos, and even a wireless car-to-car audio and video system With a few simple tools, some off-the-shelf parts, and this book, readers will be creating wireless devices they never thought were possible-toys that certainly can't be found at the local computer store Written by the cofounder and members of the Southern California Wireless Users Group, this book provides readers with hands-on instruction and insider tips and tricks from those who are on the bleeding edge of wireless technology New addition to the ExtremeTech line of books-books for serious technophiles

This book is the definitive guide on the OSSEC Host-based Intrusion Detection system and frankly, to really use OSSEC you are going to need a definitive guide. Documentation has been available since the start of the OSSEC project but, due to time constraints, no formal book has been created to outline the various features and functions of the OSSEC product. This has left very important and powerful features of the product undocumented...until now! The book you are holding will show you how to install and configure OSSEC on the operating system of your choice and provide detailed examples to help prevent and mitigate attacks on your systems. -- Stephen Northcutt OSSEC determines if a host has been compromised in this manner by taking the equivalent of a picture of the host machine in its original, unaltered state. This

"picture" captures the most relevant information about that machine's configuration. OSSEC saves this "picture" and then constantly compares it to the current state of that machine to identify anything that may have changed from the original configuration. Now, many of these changes are necessary, harmless, and authorized, such as a system administrator installing a new software upgrade, patch, or application. But, then there are the not-so-harmless changes, like the installation of a rootkit, trojan horse, or virus. Differentiating between the harmless and the not-so-harmless changes determines whether the system administrator or security professional is managing a secure, efficient network or a compromised network which might be funneling credit card numbers out to phishing gangs or storing massive amounts of pornography creating significant liability for that organization. Separating the wheat from the chaff is by no means an easy task. Hence the need for this book. The book is co-authored by Daniel Cid, who is the founder and lead developer of the freely available OSSEC host-based IDS. As such, readers can be certain they are reading the most accurate, timely, and insightful information on OSSEC. * Nominee for Best Book Bejtlich read in 2008! *

<http://taosecurity.blogspot.com/2008/12/best-book-bejtlich-read-in-2008.html> • Get Started with OSSEC Get an overview of the features of OSSEC including commonly used terminology, pre-install preparation, and deployment considerations. • Follow Step-by-Step Installation Instructions Walk through the installation process for the "local", "agent", and "server" install types on some of the most popular operating systems available. • Master Configuration Learn the basic configuration options for your install type and learn how to monitor log files, receive remote messages, configure email notification, and configure alert levels. • Work With Rules Extract key information from logs using decoders and how you can leverage rules to alert you of strange occurrences on your network. • Understand System Integrity Check and Rootkit Detection Monitor binary executable files, system configuration files, and the Microsoft Windows registry. • Configure Active Response Configure the active response actions you want and bind the actions to specific rules and sequence of events. • Use the OSSEC Web User Interface Install, configure, and use the community-developed, open source web interface available for OSSEC. • Play in the OSSEC VMware Environment Sandbox • Dig Deep into Data Log Mining Take the "high art of log analysis to the next level by breaking the dependence on the lists of strings or patterns to look for in the logs.

Your easy-to-follow step-by-step guide to configuring a Cisco router from the ground up The Accidental Administrator: Cisco Router Step-by-Step Configuration Guide is packed with more than 30 easy-to-follow interactive exercises, loads of screen captures, and lots of step-by-step examples to help you build a working router from scratch. Easily the most straightforward approach to learning how to configure a Cisco router, this book is filled with practical tips and secrets learned from years of Don's teaching and consulting on Cisco network devices. As a bonus, you won't waste your time on boring theory. All the essentials are covered in chapters on installing, backups and restores, and TCP/IP. You'll learn the nitty-gritty on subnetting, remote administration, routing protocols, static routing, access-control lists, site-to-site VPNs, network address translation (NAT), DHCP, password recovery, and security. There's even an entire chapter on the new Internet Protocol version 6 (IPv6). Here's just some of what you'll find: How to configure and manage access lists How to set up a site-to-site VPN How to implement IPv6 All the information is presented in a straightforward style that you can understand and use right away. With The Accidental Administrator: Cisco Router Step-by-Step Configuration Guide you'll be able to sit down with your routers and build a working configuration in a matter of minutes. Of course, some of the more advanced configs may take a little longer, but even so, you'll be able to "get 'er done" in a minimal amount of time In addition, there are supporting videos and a supporting webpage to provide even more help and updated information.

Not long time ago, MikroTik has started introducing its switches to the market. After having a long record with MikroTik routers, the demand for MikroTik switches has increased a lot. For this reason, MikroTik made a complete course speaking only about switching. The course name is MikroTik Certified Switching Engineer (MTCSWE). This course has been introduced on the market in the year 2020, so it is a very new course. As switching on MikroTik is a new topic, there are not a lot of resources on the internet to cover all the Switching details, that's the reason why I have decided to build up a course to speak about MikroTik Switching in details. So, from 1 side, I cover all switching topics needed to be implemented in a production network and from the other side I make you prepared for the MTCSWE exam. Topics that will be included in this course are:-MTU-VLAN-STP-Link Aggregation-Port Isolation-L2 QOS-L2 Security-PoE-Tools-SwOS Of course in each of the topic there will be many sub-topics. I hope you will enjoy the book and in case you have any suggestion/advise, you can always contact me on info@mynetworktraining.com

Sidestep VoIP Catastrophe the Foolproof Hacking Exposed Way "This book illuminates how remote users can probe, sniff, and modify your phones, phone switches, and networks that offer VoIP services. Most importantly, the authors offer solutions to mitigate the risk of deploying VoIP technologies." --Ron Gula, CTO of Tenable Network Security Block debilitating VoIP attacks by learning how to look at your network and devices through the eyes of the malicious intruder. Hacking Exposed VoIP shows you, step-by-step, how online criminals perform reconnaissance, gain access, steal data, and penetrate vulnerable systems. All hardware-specific and network-centered security issues are covered alongside detailed countermeasures, in-depth examples, and hands-on implementation techniques. Inside, you'll learn how to defend against the latest DoS, man-in-the-middle, call flooding, eavesdropping, VoIP fuzzing, signaling and audio manipulation, Voice SPAM/SPIT, and voice phishing attacks. Find out how hackers footprint, scan, enumerate, and pilfer VoIP networks and hardware Fortify Cisco, Avaya, and Asterisk systems Prevent DNS poisoning, DHCP exhaustion, and ARP table manipulation Thwart number harvesting, call pattern tracking, and conversation eavesdropping Measure and maintain VoIP network quality of service and VoIP conversation quality Stop DoS and packet flood-based attacks from disrupting SIP proxies and phones Counter REGISTER hijacking, INVITE flooding, and BYE call teardown attacks Avoid insertion/mixing of malicious audio Learn about voice SPAM/SPIT and how to prevent it Defend against voice phishing

and identity theft scams

Intended for organisations needing to build an efficient and reliable enterprise network linked to the Internet, this second edition explains the current Internet architecture and shows how to evaluate service providers dealing with connection issues.

Networking with MikroTik: An MTCNA Study Guide is an introduction to the MikroTik network platform and an exploration of the MTCNA certification topics. Written by the author of the MikroTik Security Guide and the leading English-language MikroTik blog at ManitoNetworks.com, this book covers everything you need to get started with RouterOS. Topics include the following: Introduction to MikroTik RouterOS Software MikroTik Defaults Accessing MikroTik Routers Managing Users in RouterOS Configuring Interfaces Network Addresses Routing and Configuring Routes VPNs and Tunnels Queues Firewalls NAT Wireless and Wireless Security Troubleshooting Tools RouterOS Monitoring The Dude For any network administrators getting started with MikroTik, preparing to sit for the MTCNA exam, or just wanting to learn more of the ins-and-outs of RouterOS this is the book to get you started.

Do you want to learn Mikrotik RouterOS from Scratch and by easy to follow examples? The Mikrotik RouterOS is here for you to achieve that, just by reading the description and short description of the topic and then practice with laboratories. Do you have a Mikrotik lying around and want to know what all the noise about this excellent and affordable networking equipment brand is all about? Want to get comfortable with the Operating System and learn it from the inside out to then take any of the Mikrotik training classes and get certified? Learn from the very basic such as accessing the device for the first time and build up knowledge and expertise, create a MikroTik based network for home or office, learn and deploy DHCP Server and Client services, implement a firewall to secure your network, setup a Wireless Access Point or client device, learn and implement static and dynamic routing, setup you own VPN (client and server), The Mikrotik RouterOS Workbook will fill the gaps that you might have, it will become your companion when setting up or diagnosing Mikrotik networks. No need to have a physical RouterBOARD at hand, you can even learn using virtual environments (except wireless section).

This step-by-step, highly visual text provides a comprehensive introduction to managing and maintaining computer hardware and software. Written by best-selling author and educator Jean Andrews, A+ Guide to IT Technical Support, 9th Edition closely integrates the CompTIA+ Exam objectives to prepare you for the 220-901 and 220-902 certification exams. The new Ninth Edition also features extensive updates to reflect current technology, techniques, and industry standards in the dynamic, fast-paced field of PC repair and information technology. Each chapter covers both core concepts and advanced topics, organizing material to facilitate practical application and encourage you to learn by doing. The new edition features more coverage of updated hardware, security, virtualization, new coverage of cloud computing, Linux and Mac OS, and increased emphasis on mobile devices.

Supported by a wide range of supplemental resources to enhance learning with Lab Manuals, CourseNotes online labs and the optional MindTap that includes online labs, certification test prep and interactive exercises and activities, this proven text offers students an ideal way to prepare for success as a professional IT support technician and administrator. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

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This new edition has been fully revised and updated to include extensive information on the ARM Cortex-M4 processor, providing a complete up-to-date guide to both Cortex-M3 and Cortex-M4 processors, and which enables migration from various processor architectures to the exciting world of the Cortex-M3 and M4. This book presents the background of the ARM architecture and outlines the features of the processors such as the instruction set, interrupt-handling and also demonstrates how to program and utilize the advanced features available such as the Memory Protection Unit (MPU). Chapters on getting started with IAR, Keil, gcc and CooCox ColIDE tools help beginners develop program codes. Coverage also includes the important areas of software development such as using the low power features, handling information input/output, mixed language projects with assembly and C, and other advanced topics. Two new chapters on DSP features and CMSIS-DSP software libraries, covering DSP fundamentals and how to write DSP software for the Cortex-M4 processor, including examples of using the CMSIS-DSP library, as well as useful information about the DSP capability of the Cortex-M4 processor A new chapter on the Cortex-M4 floating point unit and how to use it A new chapter on using embedded OS (based on CMSIS-RTOS), as well as details of processor features to support OS operations Various debugging techniques as well as a troubleshooting guide in the appendix topics on software porting from other architectures A full range of easy-to-understand examples, diagrams and quick reference appendices

Prepare for the new Certified Ethical Hacker version 8 exam with this Sybex guide Security professionals remain in high demand. The Certified Ethical Hacker is a one-of-a-kind certification designed to give the candidate a look inside the mind of a hacker. This study guide provides a concise, easy-to-follow approach that covers all of the exam objectives and includes numerous examples and hands-on exercises. Coverage includes cryptography, footprinting and reconnaissance, scanning networks, enumeration of services, gaining access to a system, Trojans, viruses, worms, covert channels, and much more. A companion website includes additional study tools, including practice exam and chapter review questions and electronic flashcards. Security remains the fastest growing segment of IT, and CEH certification provides unique skills The CEH also satisfies the Department of Defense's 8570 Directive, which requires all Information Assurance government positions to hold one of the approved certifications This Sybex study guide is perfect for candidates studying on their own as well as those who are taking the CEHv8 course Covers all the exam objectives with an easy-to-follow approach Companion website includes practice exam questions, flashcards, and a

searchable Glossary of key terms CEHv8: Certified Ethical Hacker Version 8 Study Guide is the book you need when you're ready to tackle this challenging exam Also available as a set, Ethical Hacking and Web Hacking Set, 9781119072171 with The Web Application Hacker's Handbook: Finding and Exploiting Security Flaws, 2nd Edition.

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