



LAN Switch Security: What Hackers Know About Your Switches (Networking Technology: Security)

Eric Vyncke, Christopher Paggen

Download now

[Click here](#) if your download doesn't start automatically

LAN Switch Security: What Hackers Know About Your Switches (Networking Technology: Security)

Eric Vyncke, Christopher Paggen

LAN Switch Security: What Hackers Know About Your Switches (Networking Technology: Security)

Eric Vyncke, Christopher Paggen

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 VRRP
- 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.

 [Download LAN Switch Security: What Hackers Know About Your ...pdf](#)

 [Read Online LAN Switch Security: What Hackers Know About You ...pdf](#)

Download and Read Free Online LAN Switch Security: What Hackers Know About Your Switches (Networking Technology: Security) Eric Vyncke, Christopher Paggen

From reader reviews:

Debra Yarbrough:

Book is to be different for every single grade. Book for children right up until adult are different content. We all know that that book is very important usually. The book LAN Switch Security: What Hackers Know About Your Switches (Networking Technology: Security) has been making you to know about other know-how and of course you can take more information. It is very advantages for you. The reserve LAN Switch Security: What Hackers Know About Your Switches (Networking Technology: Security) is not only giving you far more new information but also to become your friend when you truly feel bored. You can spend your current spend time to read your book. Try to make relationship with the book LAN Switch Security: What Hackers Know About Your Switches (Networking Technology: Security). You never truly feel lose out for everything should you read some books.

Robert Sanders:

Reading a book to become new life style in this 12 months; every people loves to study a book. When you read a book you can get a great deal of benefit. When you read guides, you can improve your knowledge, due to the fact book has a lot of information into it. The information that you will get depend on what types of book that you have read. If you need to get information about your review, you can read education books, but if you want to entertain yourself you can read a fiction books, such us novel, comics, and soon. The LAN Switch Security: What Hackers Know About Your Switches (Networking Technology: Security) provide you with a new experience in studying a book.

Kevin Mabry:

Many people spending their time frame by playing outside using friends, fun activity with family or just watching TV the entire day. You can have new activity to spend your whole day by studying a book. Ugh, you think reading a book can definitely hard because you have to accept the book everywhere? It fine you can have the e-book, getting everywhere you want in your Touch screen phone. Like LAN Switch Security: What Hackers Know About Your Switches (Networking Technology: Security) which is obtaining the e-book version. So , why not try out this book? Let's notice.

Nicole Powell:

This LAN Switch Security: What Hackers Know About Your Switches (Networking Technology: Security) is completely new way for you who has fascination to look for some information as it relief your hunger of knowledge. Getting deeper you onto it getting knowledge more you know otherwise you who still having bit of digest in reading this LAN Switch Security: What Hackers Know About Your Switches (Networking Technology: Security) can be the light food for yourself because the information inside this book is easy to get by anyone. These books create itself in the form which is reachable by anyone, sure I mean in the e-book application form. People who think that in e-book form make them feel tired even dizzy this guide is the

answer. So there is no in reading a book especially this one. You can find actually looking for. It should be here for anyone. So , don't miss the item! Just read this e-book variety for your better life along with knowledge.

**Download and Read Online LAN Switch Security: What Hackers Know About Your Switches (Networking Technology: Security)
Eric Vyncke, Christopher Paggen #GFD7CZ2V5X6**

Read LAN Switch Security: What Hackers Know About Your Switches (Networking Technology: Security) by Eric Vyncke, Christopher Paggen for online ebook

LAN Switch Security: What Hackers Know About Your Switches (Networking Technology: Security) by Eric Vyncke, Christopher Paggen Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read LAN Switch Security: What Hackers Know About Your Switches (Networking Technology: Security) by Eric Vyncke, Christopher Paggen books to read online.

Online LAN Switch Security: What Hackers Know About Your Switches (Networking Technology: Security) by Eric Vyncke, Christopher Paggen ebook PDF download

LAN Switch Security: What Hackers Know About Your Switches (Networking Technology: Security) by Eric Vyncke, Christopher Paggen Doc

LAN Switch Security: What Hackers Know About Your Switches (Networking Technology: Security) by Eric Vyncke, Christopher Paggen Mobipocket

LAN Switch Security: What Hackers Know About Your Switches (Networking Technology: Security) by Eric Vyncke, Christopher Paggen EPub