



# Cisco LAN Switching Fundamentals

The essential guide for understanding  
Ethernet switched networks

# Cisco Lan Switching Fundamentals

**KJ Lindholm-Leary**



## **Cisco Lan Switching Fundamentals:**

**Cisco LAN Switching Fundamentals** David Barnes,Basir Sakandar,2004 Learn the Basics of LAN Switching and study valuable network switching reference materials

**Cisco LAN Switching Fundamentals** David 6563,Basir 6040,2004 The essential guide for understanding Ethernet switched networks Understand various Ethernet technologies from 10BASE T to Gigabit Ethernet Learn about common switching modes paths and architectures Delve into the Cisco Catalyst switch architecture and examine the various Catalyst switch models including the 6000 6500 4500 and 3750 Become familiar with VLAN concepts including types of trunks VLAN Trunking Protocol VTP and private VLANs Understand Multilayer Switching MLS and the various hardware components that make MLS work Learn how to configure Cisco Catalyst switches in both native and hybrid mode Implement QoS on Cisco Catalyst switches Deploy multicast features and protocols including PIM IGMP snooping and CGMP Utilize data link layer features such as BPDU Guard BPDU Filter Root Guard Loop Guard RSTP and MST Evaluate design and configuration best practices Learn how to manage LANs and troubleshoot common problems

Local area networks LANs are becoming increasingly congested and overburdened because of a dramatic increase in traffic faster CPUs and operating systems and more network intensive applications Many organizations that use network and computing technology use LAN switching to take advantage of high speed traffic forwarding and improved performance of traditional Ethernet technologies that don t require costly wiring upgrades or time consuming host reconfiguration Cisco LAN Switching Fundamentals provides administrators of campus networks with the most up to date introduction to LAN switching within a traditional Ethernet environment Cisco LAN Switching Fundamentals presents an in depth look at modern campus network requirements It provides an easy to understand introduction to LAN switching best practices using Cisco Catalyst switches This book provides you with a wealth of details on the architecture operation and configuration of the Cisco Catalyst family of switches You learn about a wide range of topics including quality of service QoS multicast Rapid Spanning Tree Protocol RSTP Multiple Spanning Tree MST private virtual LANs VLANs and configuration using the native and hybrid software interfaces Design advice and configuration examples are discussed liberally throughout the book to provide you with the best perspective on effective deployment techniques Finally the book wraps up with a discussion of steps necessary to troubleshoot common problems and optimize LAN performance

[Cisco LAN Switching Configuration Handbook](#) Stephen McQuerry,David Jansen,David Hucaby,2009-06-16 Cisco LAN Switching Configuration Handbook Second Edition A concise reference for implementing the most frequently used features of the Cisco Catalyst family of switches Steve McQuerry CCIE No 6108 David Jansen CCIE No 5952 David Hucaby CCIE No 4594 Cisco LAN Switching Configuration Handbook Second Edition is a quick and portable reference guide to the most commonly used features that can be configured on Cisco Catalyst switches Written to be used across all Catalyst IOS platforms the book covers general use of Cisco IOS followed by a series of chapters that provide design and configuration guidelines Each chapter starts with common design overviews and then

describes the configuration of management features Coverage includes Layer 2 Layer 3 multicast high availability and traffic management configurations This book is organized by groups of common features with sections marked by shaded tabs for quick reference Information on each feature is presented in a concise format with background configuration and example components The format is organized for easy accessibility to commands and their proper usage saving you hours of research time From the first page the authors zero in on quick facts configuration steps and explanations of configuration options in each Cisco Catalyst switch feature The quick reference format allows you to easily locate just the information you need without having to search through thousands of pages of documentation helping you get your switches up and running quickly and smoothly Whether you are looking for a handy portable reference to more easily configure Cisco Catalyst switches in the field or you are preparing for CCNA CCNP or CCIE certification you will find Cisco LAN Switching Configuration Handbook Second Edition to be an essential resource Steve McQuerry CCIE No 6108 is a technical solutions architect with Cisco focused on data center solutions Steve works with enterprise customers in the midwestern United States to help them plan their data center architectures David Jansen CCIE No 5952 is a technical solutions architect TSA with Cisco focused on Data Center Architectures at Cisco David has more than 20 years of experience in the IT industry David Hucaby CCIE No 4594 is a lead network engineer for the University of Kentucky where he works with healthcare networks based on the Cisco Catalyst ASA PIX FWSM security and VPN product lines Implement switched campus network designs Configure switch prompts IP addresses passwords switch modules file management and administrative protocols Understand how Layer 3 interfaces are used in a switch Configure Ethernet Fast Ethernet Gigabit Ethernet and EtherChannel interfaces Implement VLANs trunking and VTP Operate configure and tune Spanning Tree Protocol STP Handle multicast traffic and interact with multicast routers Streamline access to server and firewall farms with accelerated server load balancing Deploy broadcast suppression user authentication port security and VLAN access lists Configure switch management features Implement QoS and high availability features Transport voice traffic with specialized voice gateway modules inline power and QoS features This book is part of the Networking Technology Series from Cisco Press which offers networking professionals valuable information for constructing efficient networks understanding new technologies and building successful careers [Cisco CallManager Best Practices](#) Salvatore Collora, Anne Smith, Ed Leonhardt, 2013-03-27 Delivers the proven solutions that make a difference in your Cisco IP Telephony deployment Learn dial plan best practices that help you configure features such as intercom group speed dials music on hold extension mobility and more Understand how to manage and monitor your system proactively for maximum uptime Use dial plan components to reduce your exposure to toll fraud Take advantage of call detail records for call tracing and accounting as well as troubleshooting Utilize the many Cisco IP Telephony features to enable branch site deployments Discover the best ways to install upgrade patch and back up CallManager Learn how backing up to remote media provides both configuration recovery and failure survivability IP telephony represents the future of

telecommunications a converged data and voice infrastructure boasting greater flexibility and more cost effective scalability than traditional telephony Having access to proven best practices developed in the field by Cisco IP Telephony experts helps you ensure a solid successful deployment Cisco CallManager Best Practices offers best practice solutions for CallManager and related IP telephony components such as IP phones gateways and applications Written in short to the point sections this book lets you explore the tips tricks and lessons learned that will help you plan install configure back up restore upgrade patch and secure Cisco CallManager the core call processing component in a Cisco IP Telephony deployment You ll also discover the best ways to use services and parameters directory integration call detail records management and monitoring applications and more Customers inspired this book by asking the same questions time after time How do I configure intercom What s the best way to use partitions and calling search spaces How do I deploy CallManager regionally on my WAN What do all those services really do How do I know how many calls are active How do I integrate CallManager with Active Directory Years of expert experiences condensed for you in this book enable you to run a top notch system while enhancing the performance and functionality of your IP telephony deployment **TCP/IP First-Step** Mark A. Sportack,2005 Designed as a first step into the world of TCP IP networking this reader friendly guide employs real world practices to help readers understand the practical benefits of the TCP IP suite Includes information on the concept of packetized data transfer open networking reference models and standards bodies Cisco CCIE Fundamentals ,1998 It is impossible to understand the history of modern Europe without some knowledge of the Weimar Republic The brief fourteen year period of democracy between the Treaty of Versailles and the advent of the Third Reich was marked by unstable government economic crisis and hyperinflation and the rise of extremist political movements At the same time however a vibrant cultural scene flourished which continues to influence the international art world through the aesthetics of Expressionism and the Bauhaus movement In the fields of art literature theatre cinema music and architecture not to mention science Germany became a world leader during the 1920s while her perilous political and economic position ensured that no US or European statesman could afford to ignore her Incorporating original research and a synthesis of the existing historiography this book will provide students and a general readership with a clear and concise introduction to the history of the first German Republic Selecting MPLS VPN Services Christopher S. Lewis,Steve Pickavance,2006 A guide to using and defining MPLS VPN services Analyze strengths and weaknesses of TDM and Layer 2 WAN services Understand the primary business and technical issues when evaluating IP MPLS VPN offerings Describe the IP addressing routing load balancing convergence and services capabilities of the IP VPN Develop enterprise quality of service QoS policies and implementation guidelines Achieve scalable support for multicast services Learn the benefits and drawbacks of various security and encryption mechanisms Ensure proper use of services and plan for future growth with monitoring and reporting services Provide remote access Internet access and extranet connectivity to the VPN supported intranet Provide a clear and concise set of steps to plan and execute a network

migration from existing ATM Frame Relay leased line networks to an IP VPN IP MPLS VPNs are compelling for many reasons For enterprises they enable right sourcing of WAN services and yield generous operational cost savings For service providers they offer a higher level of service to customers and lower costs for service deployment Migration comes with challenges however Enterprises must understand key migration issues what the realistic benefits are and how to optimize new services Providers must know what aspects of their services give value to enterprises and how they can provide the best value to customers Selecting MPLS VPN Services helps you analyze migration options anticipate migration issues and properly deploy IP MPLS VPNs Detailed configurations illustrate effective deployment while case studies present available migration options and walk you through the process of selecting the best option for your network Part I addresses the business case for moving to an IP MPLS VPN network with a chapter devoted to the business and technical issues you should review when evaluating IP MPLS VPN offerings from major providers Part II includes detailed deployment guidelines for the technologies used in the IP MPLS VPN 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

*LAN Switching and Wireless, CCNA Exploration Companion Guide* Wayne Lewis, 2008-04-28 LAN Switching and Wireless CCNA Exploration Companion Guide Wayne Lewis Ph D LAN Switching and Wireless CCNA Exploration Companion Guide is the official supplemental textbook for the LAN Switching and Wireless course in the Cisco Networking Academy CCNA Exploration curriculum version 4 This course provides a comprehensive approach to learning the technologies and protocols needed to design and implement a converged switched network The Companion Guide written and edited by a Networking Academy instructor is designed as a portable desk reference to use anytime anywhere The book s features reinforce the material in the course to help you focus on important concepts and organize your study time for exams New and improved features help you study and succeed in this course Chapter objectives Review core concepts by answering the questions listed at the beginning of each chapter Key terms Refer to the updated lists of networking vocabulary introduced and turn to the highlighted terms in context in each chapter Glossary Consult the all new comprehensive glossary with more than 190 terms Check Your Understanding questions and answer key Evaluate your readiness with the updated end of chapter questions that match the style of questions you see on the online course quizzes The answer key explains each answer Challenge questions and activities Strive to ace more challenging review questions and activities designed to prepare you for the complex styles of questions you might see on the CCNA exam The answer key explains each answer Wayne Lewis is the Cisco Academy Manager for the Pacific Center for Advanced Technology Training PCATT based at Honolulu Community College How To Look for this icon to study the steps that you need to learn to perform certain tasks Packet Tracer Activities Explore networking concepts in activities interspersed throughout some chapters using Packet Tracer v4.1 developed by Cisco The files for these activities are on the accompanying CD ROM Also available for the LAN Switching and Wireless

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**Exams** Syngress Media, Inc,1999      **MCSE Administering Exchange 2000 Server Study Guide (Exam 70-224)** Shane Clawson,Richard Lockett,2001 This study guide is the book to which readers can trust their careers Based on thousands of hours of classroom experience through Global Knowledge this guide features more practice exam questions than any other study It includes warnings based on postexam research and it s developed and review by master MCSEs 75 illustrations

**CCNA** David Minutella,Jeremy Cioara,Heather Stevenson,2006 Master an in depth knowledge of the topics on the new CCNA 640 801 certification while preparing for exam success      *Cisco LAN Switching (CCIE Professional Development series)* Kennedy Clark,Kevin Hamilton,1999-08-26 This is the eBook version of the printed book If the print book includes a CD ROM this content is not included within the eBook version The most complete guide to Cisco Catalyst r switch network design operation and configuration Master key foundation topics such as high speed LAN technologies LAN segmentation bridging the Catalyst command line environment and VLANs Improve the performance of your campus network by utilizing effective Cisco Catalyst design configuration and troubleshooting techniques Benefit from the most comprehensive coverage of Spanning Tree Protocol including invaluable information on troubleshooting common Spanning Tree problems Master trunking concepts and applications including ISL 802 1Q LANE and MPOA Understand when and how to utilize Layer 3 switching techniques for maximum effect Understand Layer 2 and Layer 3 switching configuration with the Catalyst 6000 family including coverage of the powerful MSFC Native IOS Mode Cisco LAN Switchingprovides the most comprehensive coverage of the best methods for designing utilizing and deploying LAN switching devices and technologies in a modern campus network Divided into six parts this book takes you beyond basic switching concepts by providing an array of proven design models practical implementation solutions and troubleshooting strategies Part I discusses important foundation issues that provide a context for the rest of the book including Fast and Gigabit Ethernet routing versus switching the types of Layer 2 switching the Catalyst command line environment and VLANs Part II presents the most detailed discussion of Spanning Tree Protocol in print including common problems troubleshooting and enhancements such as PortFast UplinkFast BackboneFast and PVST Part III examines the critical issue of trunk connections the links used to carry multiple VLANs through campus networks Entire chapters are dedicated to LANE and MPOA Part IV addresses advanced features such as Layer 3 switching VTP and CGMP and IGMP Part V covers real world campus design and implementation issues allowing you to benefit from the collective advice of many LAN switching experts Part VI discusses issues specific to the Catalyst 6000 6500 family of switches including the powerful Native IOS Mode of Layer 3 switching Several features in Cisco LAN Switchingare designed to reinforce concepts covered in the book and to help you prepare for the CCIE exam In addition to the practical discussion of advanced switching issues this book also contains case studies that highlight real world design implementation and management issues as well as chapter ending review questions and exercises This book is part of the Cisco CCIE Professional Development Series from Cisco Press which offers expert level instruction on network design

deployment and support methodologies to help networking professionals manage complex networks and prepare for CCIE exams

**Cisco LAN Switching Configuration Handbook** Mcquerry,2009

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