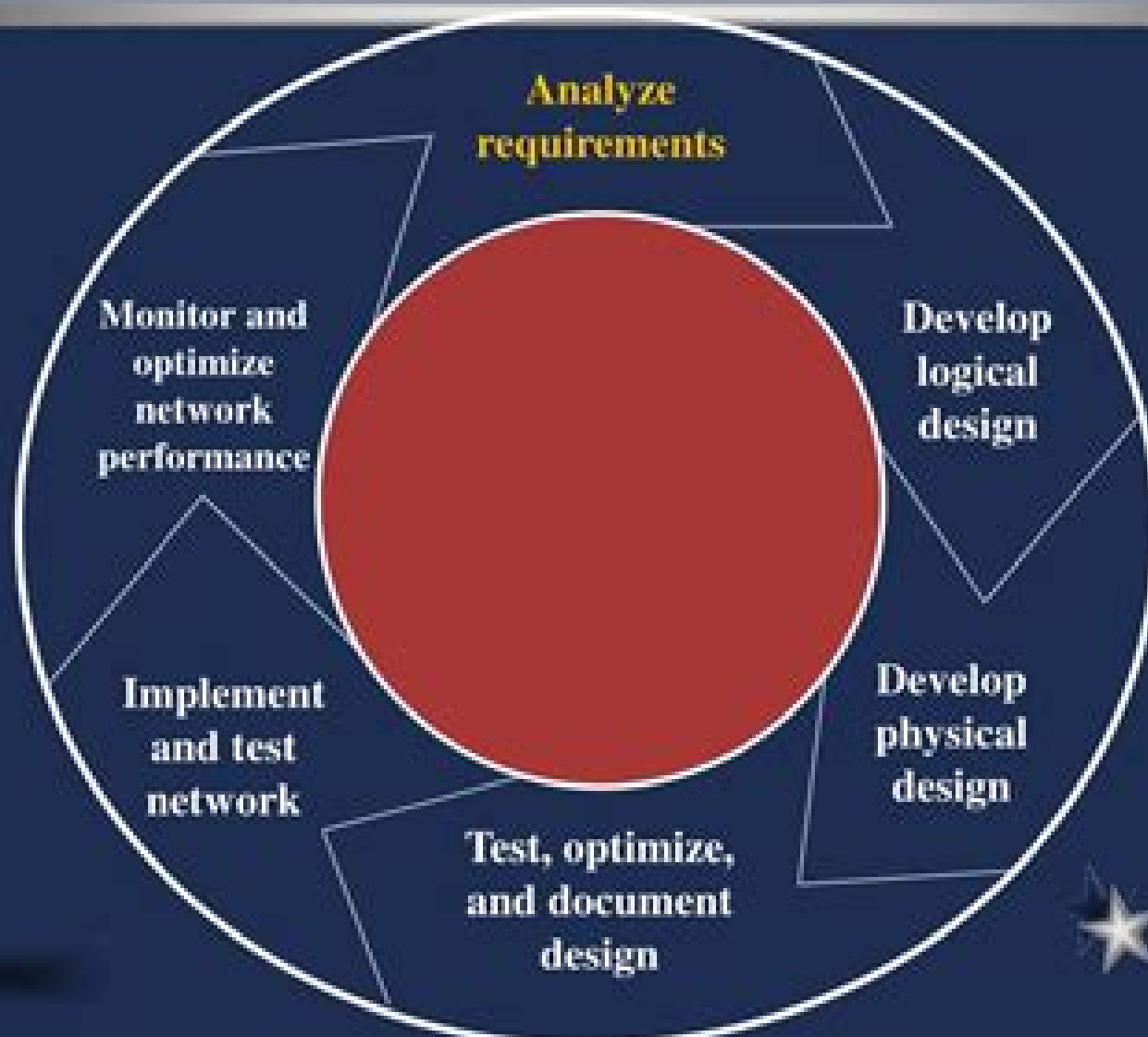


Top-Down Network Design Steps



Top Down Network Design Top Down Network Design

Sean Wilkins



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Top-down Network Design Priscilla Oppenheimer, 2004 A systems analysis approach to enterprise network design Master techniques for checking the health of an existing network to develop a baseline for measuring performance of a new network design Explore solutions for meeting QoS requirements including ATM traffic management IETF controlled load and guaranteed services IP multicast and advanced switching queuing and routing algorithms Develop network designs that provide the high bandwidth and low delay required for real time applications such as multimedia distance learning and videoconferencing Identify the advantages and disadvantages of various switching and routing protocols including transparent bridging Inter Switch Link ISL IEEE 802.1Q IGRP EIGRP OSPF and BGP4 Effectively incorporate new technologies into enterprise network designs including VPNs wireless networking and IP Telephony *Top Down Network Design* Second Edition is a practical and comprehensive guide to designing enterprise networks that are reliable secure and manageable Using illustrations and real world examples it teaches a systematic method for network design that can be applied to campus LANs remote access networks WAN links and large scale internetworks You will learn to analyze business and technical requirements examine traffic flow and QoS requirements and select protocols and technologies based on performance goals You will also develop an understanding of network performance factors such as network utilization throughput accuracy efficiency delay and jitter Several charts and job aids will help you apply a top down approach to network design This Second Edition has been revised to include new and updated material on wireless networks virtual private networks VPNs network security network redundancy modularity in network designs dynamic addressing for IPv4 and IPv6 new network design and management tools Ethernet scalability options including 10 Gbps Ethernet Metro Ethernet and Long Reach Ethernet and networks that carry voice and data traffic *Top Down Network Design* Second Edition has a companion website at <http://www.topdownbook.com> which includes updates to the book links to white papers and supplemental information about design resources 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

Top-Down Network Design Priscilla Oppenheimer, 2010-08-24 Objectives The purpose of *Top Down Network Design* Third Edition is to help you design networks that meet a customer's business and technical goals Whether your customer is another department within your own company or an external client this book provides you with tested processes and tools to help you understand traffic flow protocol behavior and internetworking technologies After completing this book you will be equipped to design enterprise networks that meet a customer's requirements for functionality capacity performance availability scalability affordability security and manageability Audience This book is for you if you are an internetworking professional responsible for designing and maintaining medium to large sized enterprise networks If you are a network engineer architect or technician who has a working knowledge of network

protocols and technologies this book will provide you with practical advice on applying your knowledge to internetwork design This book also includes useful information for consultants systems engineers and sales engineers who design corporate networks for clients In the fast paced presales environment of many systems engineers it often is difficult to slow down and insist on a top down structured systems analysis approach Wherever possible this book includes shortcuts and assumptions that can be made to speed up the network design process Finally this book is useful for undergraduate and graduate students in computer science and information technology disciplines Students who have taken one or two courses in networking theory will find Top Down Network Design Third Edition an approachable introduction to the engineering and business issues related to developing real world networks that solve typical business problems Changes for the Third Edition Networks have changed in many ways since the second edition was published Many legacy technologies have disappeared and are no longer covered in the book In addition modern networks have become multifaceted providing support for numerous bandwidth hungry applications and a variety of devices ranging from smart phones to tablet PCs to high end servers Modern users expect the network to be available all the time from any device and to let them securely collaborate with coworkers friends and family Networks today support voice video high definition TV desktop sharing virtual meetings online training virtual reality and applications that we can t even imagine that brilliant college students are busily creating in their dorm rooms As applications rapidly change and put more demand on networks the need to teach a systematic approach to network design is even more important than ever With that need in mind the third edition has been retooled to make it an ideal textbook for college students The third edition features review questions and design scenarios at the end of each chapter to help students learn top down network design To address new demands on modern networks the third edition of Top Down Network Design also has updated material on the following topics Network redundancy Modularity in network designs The Cisco SAFE security reference architecture The Rapid Spanning Tree Protocol RSTP Internet Protocol version 6 IPv6 Ethernet scalability options including 10 Gbps Ethernet and Metro Ethernet Network design and management tools

Top-Down Network Design, Third Edition Priscilla Oppenheimer,2010 Top Down Network Design Third Edition Priscilla Oppenheimer A systems analysis approach to enterprise network design The authoritative book on designing networks that align with business goals Top Down Network Design Third Edition is a practical and comprehensive guide to designing enterprise networks that are reliable secure and scalable The book uses a top down approach to help you focus first on applications and user requirements before selecting devices cabling and other technologies to implement the network The book takes you through an explanation of how to design networks that align with business goals so that the network can keep pace with changing user requirements This new edition provides a comprehensive look at enterprise network design and the different modules of an enterprise network Using illustrations and real world examples the book covers campus network design wireless networks remote access and wide area connectivity You learn how to analyze business and technical

requirements and select topologies and technologies that are based on that analysis A major focus is on security as network users become more mobile You also develop an understanding of network performance factors and methods for building reliable networks that can scale as traffic loads increase This Third Edition includes updated and expanded material on wireless networks virtual private networks VPN network security network redundancy modularity in network designs dynamic addressing for IPv4 and IPv6 Ethernet scalability options including 10 Gbps Ethernet Metro Ethernet and Long Reach Ethernet and networks that carry voice and data traffic In addition you will learn how to build networks that can support real time video collaborative computing and social networking tools and that adhere to the Cisco SAFE Security Reference Architecture Every chapter now includes a set of essay questions and design scenarios to give you a chance to practice what you have learned The book also has a companion website at www.topdownbook.com which includes updates to the book links to white papers and supplemental information about design resources Learn a network design process that results in networks that perform well provide security and scale to meet growing demands for bandwidth Develop network designs that provide the high bandwidth and low delay required for real time applications such as multimedia distance learning videoconferencing

Developing IP Multicast Networks Beau Williamson, 2000 The definitive guide to designing and deploying Cisco IP multicast networks Clear explanations of the concepts and underlying mechanisms of IP multicasting from the fundamentals to advanced design techniques Concepts and techniques are reinforced through real world network examples each clearly illustrated in a step by step manner with detailed drawings Detailed coverage of PIM State Rules that govern Cisco router behavior In depth information on IP multicast addressing distribution trees and multicast routing protocols Discussions of the common multimedia applications and how to deploy them

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Developing IP Multicast Networks Volume I includes an in depth discussion of the PIM protocol used in Cisco routers and detailed coverage of the rules that control the creation and maintenance of Cisco mroute state entries The result is a comprehensive guide to the development and deployment of IP multicast networks using Cisco routers and switches

Top-Down Network Design, Second Edition Priscilla Oppenheimer, 2004

Security Sage's Guide to Hardening the Network Infrastructure Steven Andres, Brian Kenyon, Erik Pack Birkholz, 2004-05-05 This is the only computer book to focus completely on infrastructure security network devices protocols and architectures It offers unique coverage of network design so

administrators understand how they should design and protect their enterprises Network security publishing has boomed in the last several years with a proliferation of materials that focus on various elements of the enterprise This is the only computer book to focus completely on infrastructure security network devices protocols and architectures It offers unique coverage of network design so administrators understand how they should design and protect their enterprises Helps provide real practical solutions and not just background theory

Designing for Cisco Internetwork Solutions (DESGN) Foundation Learning Guide Sean Wilkins, 2011-07-25 Designing for Cisco Internetwork Solutions DESGN Foundation Learning Guide Third Edition Sean Wilkins Foundation learning for the CCDA DESGN 640 864 exam Designing for Cisco Internetwork Solutions DESGN Foundation Learning Guide Third Edition is a Cisco authorized self paced learning tool for CCDA foundation learning This book provides you with the knowledge needed to design enterprise networks By reading this book you will gain a thorough understanding of designing routed and switched network infrastructures and services involving LAN WAN and broadband access for businesses and organizations Designing for Cisco Internetwork Solutions DESGN Foundation Learning Guide Third Edition teaches you how to gather internetworking requirements identify solutions and design the network infrastructure and services to ensure basic functionality using the principles of hierarchical network design to structure and modularize a converged enterprise network design Specific topics include understanding the design methodology structuring and modularizing the network design designing the Enterprise Campus Enterprise Data Center Enterprise Edge and remote modules as needed designing an addressing plan and selecting suitable routing protocols designing basic voice transport across the network designing a basic wireless solution and evaluating security solutions Chapter ending review questions illustrate and help solidify the concepts presented in the book Whether you are preparing for CCDA certification or simply want to gain a better understanding of network design principles you will benefit from the foundation information presented in this book Designing for Cisco Internetwork Solutions DESGN Foundation Learning Guide Third Edition is part of a recommended learning path from Cisco that includes simulation and hands on training from authorized Cisco Learning Partners and self study products from Cisco Press To find out more about instructor led training e learning and hands on instruction offered by authorized Cisco Learning Partners worldwide please visit www.cisco.com/go/authorizedtraining Understand network design methodologies and the lifecycle of a network Learn how to structure and modularize network designs within the Cisco Network Architectures for the Enterprise Design basic campus and data center networks Build designs for remote connectivity with WAN technologies Examine IPv4 and IPv6 addressing schemes Select the appropriate routing protocols for various modules in the enterprise architecture Evaluate security solutions for the network Identify voice and video networking considerations Understand design technologies and considerations when implementing a controller based wireless network This book is in the Foundation Learning Guide Series These guides are developed together with Cisco as the only authorized self paced learning tools that help networking professionals build their

understanding of networking concepts and prepare for Cisco certification exams IP Quality of Service Srinivas Vegesna, 2001 The complete resource for understanding and deploying IP quality of service for Cisco networks Learn to deliver and deploy IP QoS and MPLS based traffic engineering by understanding QoS fundamentals and the need for IP QoS The Differentiated Services QoS architecture and its enabling QoS functionality The Integrated Services QoS model and its enabling QoS functions ATM Frame Relay and IEEE 802.1p 802.1Q QoS technologies and how they work with IP QoS MPLS and MPLS VPN QoS and how they work with IP QoS MPLS traffic engineering Routing policies general IP QoS functions and other miscellaneous QoS information Quality of service QoS technologies provide networks with greater reliability in delivering applications as well as control over access delay loss content quality and bandwidth IP QoS functions are crucial in today's scalable IP networks These networks are designed to deliver reliable and differentiated Internet services by enabling network operators to control network resources and use Network planners designers and engineers need a thorough understanding of QoS concepts and features to enable their networks to run at maximum efficiency and to deliver the new generation of time critical multimedia and voice applications IP Quality of Service serves as an essential resource and design guide for anyone planning to deploy QoS services in Cisco networks Author Srinivas Vegesna provides complete coverage of Cisco IP QoS features and functions including case studies and configuration examples The emphasis is on real world application going beyond conceptual explanations to teach actual deployment IP Quality of Service is written for internetworking professionals who are responsible for designing and maintaining IP services for corporate intranets and for service provider network infrastructures If you are a network engineer architect manager planner or operator who has a rudimentary knowledge of QoS technologies this book will provide you with practical insights on what you need to consider when designing and implementing various degrees of QoS in the network Because incorporating some measure of QoS is an integral part of any network design process IP Quality of Service applies to all IP networks corporate intranets service provider networks and the Internet *Top Down Network Design 2nd Edition* Oppenheimer P, *Enhanced IP Services for Cisco Networks* Donald C. Lee, 1999 Learn how to manage and deploy the latest IP services in Cisco centric networks Understand VPN security concepts confidentiality integrity origin authentication non repudiation anti replay perfect forward secrecy Deploy quality of service technologies to protect your mission critical applications Find out how IPsec technology works and how to configure it in IOS Learn how to set up a router as a firewall and intrusion detection system Gain efficient use of your IP address space with NAT VLSM IP unnumbered Solve real world routing problems with redistribution route filtering summarization policy routing Enable authentication authorization and accounting AAA security services with RADIUS and TACACS servers Enhanced IP Services for Cisco Networks is a guide to the new enabling and advanced IOS services that build more scalable intelligent and secure networks You will learn the technical details necessary to deploy quality of service and VPN technologies as well as improved security and advanced routing features These services will allow you to securely

extend the network to new frontiers protect your network from attacks and enhance network transport with application level prioritization This book offers a practical guide to implementing IPsec the IOS Firewall and IOS Intrusion Detection System Also included are advanced routing principles and quality of service features that focus on improving the capability of your network A good briefing on cryptography fully explains the science that makes VPNs possible Rather than being another routing book this is a guide to improving your network s capabilities by understanding and using the sophisticated features available to you in Cisco s IOS software

Handbook of Research on Redesigning the Future of Internet Architectures Boucadair, Mohamed, Jacquenet, Christian, 2015-05-31 As the volume of global Internet traffic increases the Internet is beginning to suffer from a broad spectrum of performance degrading infrastructural limitations that threaten to jeopardize the continued growth of new innovative services In answer to this challenge computer scientists seek to maintain the original design principles of the Internet while allowing for a more dynamic approach to the manner in which networks are designed and operated The Handbook of Research on Redesigning the Future of Internet Architectures covers some of the hottest topics currently being debated by the Internet community at large including Internet governance privacy issues service delivery automation advanced networking schemes and new approaches to Internet traffic forwarding and path computation mechanics Targeting students network engineers and technical strategists this book seeks to provide a broad and comprehensive look at the next wave of revolutionary ideas poised to reshape the very foundation of the Internet as we know it

EIGRP Network Design Solutions Ivan Pepelnjak, 2000 Annotation EIGRP Network Design Solutions uses case studies and real world configuration examples to help you gain an in depth understanding of the issues involved in designing deploying and managing EIGRP based networks It details proper designs that can be used to build large and scalable EIGRP based networks and documents possible ways each EIGRP feature can be used in network design implementation troubleshooting and monitoring BOOK JACKET Title Summary field provided by Blackwell North America Inc All Rights Reserved

How Local Area Networks Work David R. Kosiur, Jonathan Angel, 1995 Here s the first book to demystify LAN hardware and software Readers will learn exactly how to avoid the pitfalls of networking and exploit the opportunities From planning a new LAN to understanding today s new E mail and groupware applications to learning the seven tasks that must be performed regularly to keep a LAN running properly it s all here

Cisco Secure Virtual Private Networks Andrew G. Mason, 2002 Based on the official instructor led training course of the same name in a self study product Cisco Secure Virtual Private Networks is a comprehensive results oriented book designed to give readers the knowledge to plan administer and maintain a Virtual Private Network VPN Readers are taught to accomplish several specific tasks including identifying the features functions and benefits of Cisco Secure VPN products identifying the component technologies implemented in Cisco Secure VPN products utilizing commands required to configure and test IPsec in Cisco IOS software and PIX Firewalls installing and configuring the Cisco VPN Client to create a secure tunnel to a Cisco VPN Concentrator and PIX Firewall

configuring and verifying IPsec in the Cisco VPN Concentrator Cisco router and PIX Firewall and configuring the Cisco VPN Concentrator Cisco router and PIX Firewall for interoperability **CLSC Exam Certification Guide** Kevin Downes, Tim Boyles, 1999 The Cisco LAN Switch Configuration CLSC exam is one of the tests required for certification as a Cisco Certified Network Professional CCNP or Cisco Certified Design Professional CCDP When you're ready to test your skills complete your knowledge of the objectives and prepare for exam day you need the preparation tools found in CLSC Exam Certification Guide from Cisco Press **Opencable Architecture** Michael Adams, 2000 Learn how to bring digital TV data and interactivity to the television *Residential Broadband* George Abe, 2000 This comprehensive accessible resource organizes and puts into context the complexities and variables that characterize full scale deployment of residential broadband networks It's the only book that discusses cable xDSL wireless in home networking and carrier based internetworking software in an interrelated manner Topics include spread spectrum QoS and OpenCable *Local Area Networks* James E. Goldman, 1997 These days networks and information systems are more than just technological service segments of a company They are vital variables in the business equation This book takes a business first approach to networks focusing on how to analyze implement and manage local area networks Drawing on extensive case studies it provides a thorough examination of the business application data network and technology issues surrounding the successful implementation of local area network based client server systems It also provides working models readers can use to organize their own systems *Designing and Supporting Computer Networks* Kenneth D. Stewart, Aubrey Adams, E. Aubrey Adams, 2008 This authorized textbook for the final course of the Cisco Networking Academy CCNA Discovery curriculum is a portable reference that aligns 1:1 with the online course modules It also has numerous features to enhance learning and assist in concept retention Macworld Networking Handbook David R. Kosiur, Nancy E. H. Jones, 1992 A complete guide to Macintosh networking for the novice through expert with information on design installation and management of AppleTalk networks Plus connecting Macs to other platforms including PCs UNIX and DEC VAX Table of Contents Part One Introducing Networking Part Two Installing an AppleTalk Network Part Three Managing an AppleTalk Network Part Four Using an AppleTalk Network Part Five Working with Other Computer Platforms Appendixes Index

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