

Top-Down Network Design, Third Edition

Priscilla Oppenheimer

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Top Down Network Design 3rd Edition

Andrew G. Mason



Top Down Network Design 3rd Edition:

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

The Handbook of Computer Networks, Distributed Networks, Network Planning, Control, Management, and New Trends and Applications Hossein Bidgoli, 2008 The Handbook of Computer Networks is the third set of reference books from leading author and Professor of Management Information Systems at California State University Bakersfield Hossein Bidgoli The Handbook of Computer Networks is designed to arm researchers practitioners students and managers with in depth understanding of this important and fast growing field in its broadest scope and in an applied and functional framework Each volume incorporates state of the art core information and networking topics practical applications and coverage of the emerging issues in the computer networking and data communications fields *Forthcoming Books*

Rose Arny, 2004 **The Irwin Handbook of Telecommunications Management** James Harry Green, 2001-03-22 Information and Solutions for Today's Telecommunications Systems Regardless of your industry you will find James Harry Green's The Irwin Handbook of Telecommunications Management Third Edition an authoritative how to solutions manual for every telecommunications management question Now comprehensively revised and updated this classic resource provides hands on techniques for understanding today's major technological changes and incorporating them into your organization's telecom strategy Covering the entire spectrum of 21st century telecommunications the Handbook makes it easy to locate understand and implement Long range planning feasibility analysis and forecasting The selection and management of telecom equipment and services writing and evaluating responses to RFPs managing long distance services and more Management of a telecom facility including PBX and key telephone equipment automatic call distributors voice processing equipment local area networks and Internets wide area networks convergence and video and audio conferencing equipment Specific techniques for effective cost containment Telecommunications operations from fraud and disaster prevention to

project management quality control security and more **Troubleshooting Campus Networks** Priscilla Oppenheimer, Joseph Bardwell, 2002-07-29 All network designers and administrators want their campus LANs to run efficiently This book provides tips and techniques for using protocol analyzers and other tools to recognize problems for both Cisco and multiprotocol traffic patterns Focuses on troubleshooting problems that arise from the Cisco routers inter operating with many other network protocols Covers both legacy and cutting edge technologies Authors are respected in the field for their teaching and training development skills in network troubleshooting *DCN: Designing Cisco Networks* Thomas M. Thomas, Erik Freeland, Michael Coker, Donald A. Stoddard, 2002-12-06 The demand for certified networking professionals that have experience with Cisco products and Cisco based networks has never been higher Written in conjunction with CCprep com the premier Cisco certification training Website DCN Designing Cisco Networks gives you full curriculum based coverage to help you study for the CCDA exam and succeed as a Cisco professional Comprehensive thorough and reliable this is the only book you ll need for both preparing for the CCDA exam and as a helpful on the job desk reference **Business Management of Telecommunications** Heinrich M. Schoening, 2005 With the increasing necessity of today s use of telecommunications technologies businesses need to manage their telecommunications machines effectively to derive the benefits of telecommunication technology This book provides readers with the knowledge to develop both strong business management and technology skills necessary to become successful telecommunications managers Combines both topics of business management and technology management skills by using business management tools and techniques to manage a company s telecommunications function thereby maximizing benefits and minimizing associated costs A reference manual for individuals working in the telecommunications field **Top-Down Network Design, Second Edition** Priscilla Oppenheimer, 2004 **LDAP System Administration** Gerald Carter, 2003 Be more productive and make your life easier That s what LDAP System Administration is all about System administrators often spend a great deal of time managing configuration information located on many different machines usernames passwords printer configurations email client configurations and network filesystem configurations to name a few LDAPv3 provides tools for centralizing all of the configuration information and placing it under your control Rather than maintaining several administrative databases NIS Active Directory Samba and NFS configuration files you can make changes in only one place and have all your systems immediately see the updated information Practically platform independent this book uses the widely available open source OpenLDAP 2 directory server as a premise for examples showing you how to use it to help you manage your configuration information effectively and securely OpenLDAP 2 ships with most Linux distributions and Mac OS X and can be easily downloaded for most Unix based systems After introducing the workings of a directory service and the LDAP protocol all aspects of building and installing OpenLDAP plus key ancillary packages like SASL and OpenSSL this book discusses Configuration and access control Distributed directories replication and referral Using OpenLDAP to replace NIS Using

OpenLDAP to manage email configurations Using LDAP for abstraction with FTP and HTTP servers Samba and Radius Interoperating with different LDAP servers including Active Directory Programming using Net LDAP If you want to be a master of your domain LDAP System Administration will help you get up and running quickly regardless of which LDAP version you use After reading this book even with no previous LDAP experience you ll be able to integrate a directory server into essential network services such as mail DNS HTTP and SMB CIFS 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 **Designing ISP Architectures** John V. Nguyen,2002 Architectural decisions are crucial to the success of any ISP because they will determine the cost effectiveness flexibility and scalability of the infrastructure used to deliver services Designing ISP Architectures is a start to finish best practices guide to effective ISP architectural design and implementation Leading ISP architect and consultant John V Nguyen uses a running case study to cover every step of the process formulating design requirements establishing an architectural model creating and documenting both logical and physical designs selecting components and implementing the architecture you ve defined Nguyen demonstrates how to create platform independent architectures that can support rapid growth in subscribership ongoing new product introductions low cost operation and effective management Along the way he identifies key tradeoffs and limitations offering practical guidance architects can use to optimize ISP infrastructure for any marketplace or application portfolio For every IT architect consultant and network professional responsible for designing or implementing ISP architectures **Data Network Design** Darren L. Spohn,Tina Brown,Scott Grau,2002 This work details the process and technologies needed to successfully design a data network in today s marketplace It covers new technologies that have entered the market such as voice over packet offerings and dense wavelength division multiplexing Also covered are chapters on Optical Networking SONET WDM and DWDM and International Networks including VPNs **The British National Bibliography** Arthur James Wells,2009 *The Handbook of Computer Networks, Key Concepts, Data Transmission, and Digital and Optical Networks* Hossein Bidgoli,2008 A complete and in depth introduction to computer networks and networking In this first volume of The Handbook of Computer Networks readers will get a complete overview of the key concepts of computers networks data transmission and digital and optical networks Providing a comprehensive examination

of computer networks the book is designed for both undergraduate students and professionals working in a variety of computer network dependent industries With input from over 270 experts in the field the text offers an easy to follow progression through each topic and focuses on fields and technologies that have widespread application in the real world

Invitation to Computer Science G. Michael Schneider, Judith L. Gersting, 2006 This new edition of Invitation to Computer Science follows the breadth first guidelines recommended by CC2001 to teach computer science topics from the ground up The authors begin by showing that computer science is the study of algorithms the central theme of the book then move up the next five levels of the hierarchy hardware virtual machine software applications and ethics Utilizing rich pedagogy and a consistently engaging writing style Schneider and Gersting provide students with a solid grounding in theoretical concepts as well as important applications of computing and information technology A laboratory manual and accompanying software is available as an optional bundle with this text **American Book Publishing Record**, 2004

Proceedings of the ... International Computer Music Conference, 2005 **Top Down Network Design 2nd Edition** Oppenheimer P,

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