

Introducing Network Design Concepts

Objectives

Upon completion of this chapter, you should be able to answer the following questions:

- What are the benefits of a hierarchical network design?
- What is the design methodology used by network designers?
- What are the design considerations for the core, distribution, and access layers?
- What are the design considerations for the network enterprise edge?
- What are the design considerations that must be met to support remote workers?
- What are the design considerations for supporting enterprise wireless and/or data center/server farms?

Key Terms

This chapter uses the following key terms. You can find the definitions in the Glossary.

Cisco Enterprise Architectures page 5

deterministic network page 5

top-down approach page 7

content networking page 8

storage networking page 8

network backbone page 9

virtual private networks (VPN) page 9

extranet page 9

multilayer switches page 11

load balancing page 11

Enhanced Interior Gateway Routing Protocol (EIGRP) page 11

Open Shortest Path First (OSPF) Protocol page 11

Spanning Tree Protocol (STP) page 11

full-mesh page 11

partial-mesh page 11

hot-swappable page 13

uninterruptible power supply (UPS) page 13

convergence time page 14

switch block page 17

Rapid Spanning Tree Protocol (RSTP) page 18

access control lists (ACL) page 19

dynamic ACL page 20

reflective ACL page 20

time-based ACL page 20

Intermediate System-to-Intermediate System (IS-IS) Protocol page 21

Power-over-Ethernet (PoE) page 23

failover page 24

network access control page 30

security policy page 30

server farms page 30

data centers page 30

storage-area networks (SAN) page 32

denial-of-service (DoS) page 32

demilitarized zone (DMZ) page 33

Rapid Spanning Tree Protocol Plus (RSTP+) page 34

wireless LAN (WLAN) page 34

Wired Equivalent Privacy (WEP) page 37

Wi-Fi Protected Access (WPA) page 37

service set identifier (SSID) page 37

cell-switched networks page 40

Asynchronous Transfer Mode (ATM) page 40

service level agreements (SLA) page 40

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TVC. ,1981-05 **Computer & Control Abstracts** ,1996 *Bibliography of Scientific and Industrial Reports* ,1971

SCTE Network Architecture and Design Course Society of Cable Telecommunications Engineers,Society of Cable Telecommunications Engineers Staff,2009 Networking Concepts and Technology Deepak Kakadia,Francesco DiMambro,2004 How to leverage Sun networking technologies both hardware and software in enterprise data centres to provide sophisticated IP services *Network Design* Teresa C. Piliouras,2004-12-28 There are hundreds of technologies and protocols used in telecommunications They run the full gamut from application level to physical level It is overwhelming to try to keep track of them *Network Design Second Edition Management and Technical Perspectives* is a broad survey of the major technologies and networking protocols and how they interr *Network Design* Teresa C. Piliouras,Kornel Terplan,1998-08-19 *Network Design* outlines the fundamental principles and analytical techniques used in designing data networks The text enables future managers and technical professionals to better understand and appreciate each other s perspective in the network design process Network managers will need a sound grounding in basic design principles to effectively manage plan and assess the plethora of new technologies and equipment available for designing networks They also must understand how requirements should be formulated and specified for design engineers Similarly network designers and engineers need a sound grounding in basic management principles to fully understand how organizational requirements best reflect design recommendations *Network Design* enables network management and design professionals to work together toward achieving their respective goals in the network design process It outlines basic techniques reviews major challenges and issues summarizes prevailing approaches and technologies describes the specification design and planning data network topologies and assesses specification and evaluation processes in designing and implementing data networks This excellent unique resource also Emphasizes principles and analytical approaches that work independent of specific implementation of technology Includes case studies to illustrate how basic principles can be applied to realistic network design problems considering both technical and management considerations Demystifies the design process describing the lingua franca of both managers and design engineers in common terms Provides a better understanding of the total network design process Network Design Basics for Cabling Professionals BICSI,2002-04-25 This heavily illustrated resource is part of BICSI s official training material for professional cabling professionals who want to learn how to design data systems as well as install them The book teaches by example breaking each task into bulleted steps Prepares telecom cabling professionals to enter the world of corporate IT Teaches industry standard practices and protocols Provides vendor neutral understanding of hardware and cabling technologies Clearly and simply explains standards and topologies at the technician level **Network Design, Second Edition** Teresa C. Piliouras,2004-12-28 There are hundreds of technologies and protocols used in telecommunications They run the full gamut from application level to physical level It is overwhelming to try to keep track of

them Network Design Second Edition Management and Technical Perspectives is a broad survey of the major technologies and networking protocols and how they interrelate integrate migrate substitute and segregate functionality It presents fundamental issues that managers and engineers should be focused upon when designing a telecommunications strategy and selecting technologies and bridges the communication gap that often exists between managers and technical staff involved in the design and implementation of networks For managers this book provides comprehensive technology overviews case studies and tools for decision making requirements analysis and technology evaluation It provides guidelines templates checklists and recommendations for technology selection and configuration outsourcing disaster recovery business continuity and security The book cites free information so you can keep abreast of important developments Engineers benefit from a review of the major technologies and protocols up and down the OSI protocol stack and how they relate to network design strategies Topics include Internet standards protocols and implementation client server and distributed networking value added networking services disaster recovery and business continuity technologies legacy IBM mainframe technologies and migration to TCP IP and MANs WANs and LANs For engineers wanting to peek under the technology covers Network Design provides insights into the mathematical underpinnings and theoretical basis for routing network design reliability and performance analysis This discussion covers star tree backbone mesh and access networks The volume also analyzes the commercial tools and approaches used in network design planning and management

Local Area Network Design
Andrew Hopper, Steven Temple, Robin Williamson, 1986 *Network Design* Gilbert Held, 2000-05-31 Never has the need for reliable internetworking been greater yet with networks now comprising differing operating systems hardware and software achieving a reliable network has never been more complex Network planners and managers face a multitude of difficult decisions decisions made even more difficult by the need for knowledge from a variety of sources

Practical Network Design Techniques
Gilbert Held, S. Ravi Jagannathan, 2004-06-11 The authors of Practical Network Design Techniques Second Edition A Complete Guide for WANs and LANs build upon the popular first edition by combining pre existing network design fundamentals with new material on LAN devices and topologies wireless local networks and LAN internetworking issues This new edition has two parts The first part covers

Network Analysis, Architecture, and Design
James D. McCabe, 2010-07-26 Traditionally networking has had little or no basis in analysis or architectural development with designers relying on technologies they are most familiar with or being influenced by vendors or consultants However the landscape of networking has changed so that network services have now become one of the most important factors to the success of many third generation networks It has become an important feature of the designer's job to define the problems that exist in his network choose and analyze several optimization parameters during the analysis process and then prioritize and evaluate these parameters in the architecture and design of the system Network Analysis Architecture and Design Third Edition uses a systems methodology approach to teaching these concepts which views the network and the environment it impacts as part

of the larger system looking at interactions and dependencies between the network and its users applications and devices This approach matches the new business climate where customers drive the development of new services and the book discusses how networks can be architected and designed to provide many different types of services to customers With a number of examples analogies instructor tips and exercises this book works through the processes of analysis architecture and design step by step giving designers a solid resource for making good design decisions With examples guidelines and general principles McCabe illuminates how a network begins as a concept is built with addressing protocol routing and management and harmonizes with the interconnected technology around it Other topics covered in the book are learning to recognize problems in initial design analyzing optimization parameters and then prioritizing these parameters and incorporating them into the architecture and design of the system This is an essential book for any professional that will be designing or working with a network on a routine basis Substantially updated design content includes ad hoc networks GMPLS IPv6 and mobile networking Written by an expert in the field that has designed several large scale networks for government agencies universities and corporations Incorporates real life ideas and experiences of many expert designers along with case studies and end of chapter exercises

Networks Steven T. Karris,2004 Written for students and working professionals this text provides a detailed description of wired and wireless computer networks bus architectures interfaces protocols standards Bluetooth and Wi Fi technologies and networking devices This text includes an introduction to Simple Networks Management Protocol SNMP all three versions and Remote Monitoring RMON I II

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

Telecommunications Network Design Algorithms Aaron Kershenbaum,1993 Presenting many of the algorithms and techniques fundamental to the design and analysis of computer networks this text focuses on algorithms which are applicable across many networking architectures rather than on specific technologies The book concentrates on network design and methodologies for developing voice and data networks It includes pseudo code descriptions of the algorithms and their component functions and data structures The text also provides algorithms via a software tool included in the solutions manual to the text for graphical displays of networks written in C for IBM PCs and compatibles

Network Design Fundamentals Shaun Lloyd Hummel,2013-02-01 Network Design Fundamentals teaches an effective methodology for network planning and design using relevant new technologies This reference guide explains principles methodologies and technologies using network design case studies The structured design methodology teaches all phases of a networking project The planning and design methodology presented is used to teach effective network planning design and implementation skills In the case study of a fictitious financial services company real

world issues and strategies are discussed Using the network design methodology readers learn how to review client requirements assess the network build the infrastructure recommend appropriate security and develop a network management strategy Readers will learn to develop a proof of concept plan make any modifications and write a design proposal In addition there is a discussion of how to implement the design with a proven implementation strategy Network Planning and Design Fundamentals Network Assessment Essentials Design and Performance Considerations Campus WAN Design Best Practices Detailed Protocol Selection Guide Network Resiliency and High Availability VPN Voice over Frame Relay E Commerce Tech Notes Explain Networking Concepts Security and Network Management Strategies Chapter Quizzes

Wide Area Network Design Robert Cahn,1998-05 As the cost of building and upgrading complex large scale networks skyrockets carefully crafted network designs become critical a savings of as little as 5% in your network can amount to tens of thousands of dollars per month Wide Area Network Design Concepts and Tools for Optimization provides the information you need to tackle the challenges of designing a network that meets your performance goals within the cost constraints of your organization If you are considering public service alternatives such as frame relay designing your own network with the tools provided in this book will empower you to estimate cost savings and evaluate bids from competing carriers Intended for network designers planners and architects this book enables you to estimate traffic flows and requirements in your network and explains how to use various algorithms to design a network which must meet these requirements Features Presents underlying design principles to help you understand emerging and future networking protocols and technologies Provides cost and traffic generators for estimating these parameters in your network Introduces the unique IncreMENTOR algorithm which can help avert disaster when the traffic flows in your network have changed

Computer Networks Natalia Olifer,Victor Olifer,2006 This is a comprehensive guide covering both the theory of basic networking technologies as well as practical solutions to networking problems Networking concepts explained plainly with emphasis on how networks work together Practical solutions backed up with examples and case studies Balance of topics reflects modern environments Instructor and Student book site support including motivational courseware

Network Analysis, Architecture, and Design James D. McCabe,2007 Traditionally networking has had little or no basis in analysis or architectural development with designers relying on technologies they are most familiar with or being influenced by vendors or consultants However the landscape of networking has changed so that network services have now become one of the most important factors to the success of many third generation networks It has become an important feature of the designer s job to define the problems that exist in his network choose and analyze several optimization parameters during the analysis process and then prioritize and evaluate these parameters in the architecture and design of the system Network Analysis Architecture and Design 3e uses a systems methodology approach to teaching these concepts which views the network and the environment it impacts as part of the larger system looking at interactions and dependencies between the network and its users applications and

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Table of Contents Introducing Network Design Concepts Scte

1. Understanding the eBook Introducing Network Design Concepts Scte
 - The Rise of Digital Reading Introducing Network Design Concepts Scte
 - Advantages of eBooks Over Traditional Books
2. Identifying Introducing Network Design Concepts Scte
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Introducing Network Design Concepts Scte
 - User-Friendly Interface
4. Exploring eBook Recommendations from Introducing Network Design Concepts Scte
 - Personalized Recommendations
 - Introducing Network Design Concepts Scte User Reviews and Ratings
 - Introducing Network Design Concepts Scte and Bestseller Lists
5. Accessing Introducing Network Design Concepts Scte Free and Paid eBooks
 - Introducing Network Design Concepts Scte Public Domain eBooks
 - Introducing Network Design Concepts Scte eBook Subscription Services
 - Introducing Network Design Concepts Scte Budget-Friendly Options
6. Navigating Introducing Network Design Concepts Scte eBook Formats

- ePub, PDF, MOBI, and More
 - Introducing Network Design Concepts Scte Compatibility with Devices
 - Introducing Network Design Concepts Scte Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Introducing Network Design Concepts Scte
 - Highlighting and Note-Taking Introducing Network Design Concepts Scte
 - Interactive Elements Introducing Network Design Concepts Scte
 8. Staying Engaged with Introducing Network Design Concepts Scte
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Introducing Network Design Concepts Scte
 9. Balancing eBooks and Physical Books Introducing Network Design Concepts Scte
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Introducing Network Design Concepts Scte
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Introducing Network Design Concepts Scte
 - Setting Reading Goals Introducing Network Design Concepts Scte
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Introducing Network Design Concepts Scte
 - Fact-Checking eBook Content of Introducing Network Design Concepts Scte
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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