

Solutions to Chapter 8

8.1. The IP header checksum only verifies the integrity of IP header. Discuss the pros and cons of doing the checksum on the header part versus on the entire packet.

Solution:

Error checking in the header is more important because the packet is routed according to the header information. In addition, the delivery of the data at the destination to the higher layers also requires the header information. Thus error checking of the header protects against misdelivery of the information. Restricting the error checking to the header also simplifies the implementation in the nodes, requires less checksum bits, and prevents unnecessary packet discard. Some higher layers can tolerate some data errors, and higher layers also have the option of performing retransmission.

8.2. Identify the address class of the following IP addresses: 200.58.20.165; 128.167.23.20; 16.196.128.50; 50.156.10.10; 250.10.24.96.

Solution:

An IP address has a fixed length of 32 bits, where the most significant bits identify the particular class. Therefore, to identify the address class we need to convert the dotted-decimal notation back into its binary counterpart, and compare the binary notation to the class prefixes shown in Figure 8.5 in the text. (Recall that the dotted-decimal notation was devised to communicate addresses more readily to other people. In this notation, the 32 bits are divided into four groups of 8 bits – separated by periods – and then converted to their decimal counterpart.) The first few bits (shown in red) of the address can be used to determine the class.

2^7	2^6	2^5	2^4	2^3	2^2	2^1	2^0
128	64	32	16	8	4	2	1

200.58.20.165

11001000.00111010.00010100.10100101

Class C

128.167.23.20

10000000.10100111.00010111.00010100

Class B

16.196.128.50

00010000.11000100.10000000.00110010

Class A

150.156.10.10

10010110.10011100.00001010.00001010

Class B

250.10.24.96

11111010.00001010.00011000.01100000

Class E

Network Chapter 8 Solutions

CH Cherryholmes



Network Chapter 8 Solutions:

Cisco Network Design Solutions for Small-medium Businesses Peter Rybaczyk, 2005 Master the design and deployment of small and medium sized business networks **Active and Programmable Networks for Adaptive Architectures and Services** Syed Asad Hussain, 2006-12-15 Most conventional networks are passive with only basic traffic monitoring management routing and congestion control At best they can be called reactive Deploying new functions and integrating new standards into these architectures is difficult due to the rigid embedding of software and hardware into the network components Active and Program Technological Advancements and the Impact of Actor-Network Theory Tatnall, Arthur, 2014-06-30 Actor Network Theory ANT has existed as a topic of interest among social theorists for decades Due to the prevalence of technology in modern society discussions over the influence of actor network theory on the changing scope of technology can assist in facilitating further research and scientific thought Technological Advancements and the Impact of Actor Network Theory focuses on cross disciplinary research as well as examples of the use of actor network theory in a variety of fields including medicine education business engineering environmental science computer science and social science This timely publication is well suited for reference use by academicians researchers upper level students and theorists *Queueing Networks and Markov Chains* Gunter Bolch, Stefan Greiner, Hermann de Meer, Kishor S. Trivedi, 2006-04-27 Critically acclaimed text for computer performance analysis now in its second edition The Second Edition of this now classic text provides a current and thorough treatment of queueing systems queueing networks continuous and discrete time Markov chains and simulation Thoroughly updated with new content as well as new problems and worked examples the text offers readers both the theory and practical guidance needed to conduct performance and reliability evaluations of computer communication and manufacturing systems Starting with basic probability theory the text sets the foundation for the more complicated topics of queueing networks and Markov chains using applications and examples to illustrate key points Designed to engage the reader and build practical performance analysis skills the text features a wealth of problems that mirror actual industry challenges New features of the Second Edition include Chapter examining simulation methods and applications Performance analysis applications for wireless Internet J2EE and Kanban systems Latest material on non Markovian and fluid stochastic Petri nets as well as solution techniques for Markov regenerative processes Updated discussions of new and popular performance analysis tools including ns 2 and OPNET New and current real world examples including DiffServ routers in the Internet and cellular mobile networks With the rapidly growing complexity of computer and communication systems the need for this text which expertly mixes theory and practice is tremendous Graduate and advanced undergraduate students in computer science will find the extensive use of examples and problems to be vital in mastering both the basics and the fine points of the field while industry professionals will find the text essential for developing systems that comply with industry standards and regulations *Mobile Networks and Cloud Computing*

Convergence for Progressive Services and Applications Rodrigues, Joel J.P.C.,2013-11-30 Recent technology trends involving the combination of mobile networks and cloud computing have offered new chances for mobile network providers to use specific carrier cloud services These advancements will enhance the utilization of the mobile cloud in industry and corporate settings Mobile Networks and Cloud Computing Convergence for Progressive Services and Applications is a fundamental source for the advancement of knowledge application and practice in the interdisciplinary areas of mobile network and cloud computing By addressing innovative concepts and critical issues this book is essential for researchers practitioners and students interested in the emerging field of vehicular wireless networks **Programmable Networks for IP Service**

Deployment Alex Galis,2004 Today programmable networks are being viewed as the solution for the fast flexible and dynamic deployment of new telecommunications network services At the vanguard of programmable network research is the Future Active IP Networks FAIN project The authors of this book discuss their research in FAIN so you can get on the inside track to tomorrow s technology Moreover the book provides you with detailed guidelines for designing managed IP programmable networks *Future Networks, Services and Management* Mehmet Toy,2021-11-24 This book describes the

networks applications services of 2030 and beyond their management Novel end to end network and services architectures using cloud wired wireless and space technologies to support future applications and services are presented The book ties key concepts together such as cloud space networking network slicing AI ML edge computing burst switching and optical computing in achieving end to end automated future services Expected future applications services and network and data center architectures to support these applications and services in the year 2030 and beyond along with security routing QoS and management architecture and capabilities are described The book is written by recognized global experts in the field from both industry and academia *AWS Certified Solutions Architect Study Guide* Ben Piper,David Clinton,2020-11-26

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delivering a secure resilient easy to manage SLA driven cloud experience Designing Networks and Services for the Cloud helps you understand the design and architecture of networks and network services that enable the delivery of business grade cloud services Drawing on more than 40 years of experience in network and cloud design validation and deployment the authors demonstrate how networks spanning from the Enterprise branch HQ and the service provider Next Generation Networks NGN to the data center fabric play a key role in addressing the primary inhibitors to cloud adoption security performance and management complexity The authors first review how virtualized infrastructure lays the foundation for the delivery of cloud services before delving into a primer on clouds including the management of cloud services Next they explore key factors that inhibit enterprises from moving their core workloads to the cloud and how advanced networks and network services can help businesses migrate to the cloud with confidence You ll find an in depth look at data center networks including virtualization aware networks virtual network services and service overlays The elements of security in this virtual fluid environment are discussed along with techniques for optimizing and accelerating the service delivery The book dives deeply into cloud aware service provider NGNs and their role in flexibly connecting distributed cloud resources ensuring the security of provider and tenant resources and enabling the optimal placement of cloud services The role of Enterprise networks as a critical control point for securely and cost effectively connecting to high performance cloud services is explored in detail before various parts of the network finally come together in the definition and delivery of end to end cloud SLAs At the end of the journey you preview the exciting future of clouds and network services along with the major upcoming trends If you are a technical professional or manager who must design implement or operate cloud or NGN solutions in enterprise or service provider environments this guide will be an indispensable resource Understand how virtualized data center infrastructure lays the groundwork for cloud based services Move from distributed virtualization to IT as a service via automated self service portals Classify cloud services and deployment models and understand the actors in the cloud ecosystem Review the elements requirements challenges and opportunities associated with network services in the cloud Optimize data centers via network segmentation virtualization aware networks virtual network services and service overlays Systematically secure cloud services Optimize service and application performance Plan and implement NGN infrastructure to support and accelerate cloud services Successfully connect enterprises to the cloud Define and deliver on end to end cloud SLAs Preview the future of cloud and network services

UMTS Networks Heikki Kaaranen,Ari Ahtiainen,Lauri Laitinen,Siamak Naghian,Valtteri Niemi,2005-07-08 Building on the success of the first edition UMTS Networks second edition allows readers to continue their journey through UMTS up to the latest 3GPP standardization phase Release 5 Containing revised updated and brand new material it provides a comprehensive view on the UMTS network architecture and its latest developments Accompanied by numerous illustrations the practical approach of the book benefits from the authors pioneering research and training in this field Provides a broad yet detailed overview of the latest worldwide

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TCP/IP Mastery: Proven Strategies for Building High-Performance Networks Pasquale De Marco, 2025-05-16 In a world increasingly interconnected mastering TCP IP has become a necessity for anyone seeking to harness the power of networking technologies This comprehensive guide meticulously crafted for an American audience unveils the intricacies of TCP IP empowering readers with the knowledge and skills to navigate the complexities of modern networks Drawing inspiration from the highly acclaimed book Effective TCP IP Programming 44 Tips to Improve Your Network Programs this new volume embarks on a fresh journey offering a distinct perspective and a wealth of original content Through its engaging

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Convergence of Broadband, Broadcast, and Cellular Network Technologies Trestian, Ramona, 2014-04-30 In the ever evolving telecommunication industry technological improvements alone are not able to keep up with the significant growth of mobile broadband traffic As such new research on communications networks is necessary to keep up with rising

demand Convergence of Broadband Broadcast and Cellular Network Technologies addresses the problems of broadband broadcast and cellular coexistence including the increasing number of advanced mobile users and their bandwidth demands This book will serve as a link between academia and industry serving students researchers and industry professionals

Polymeric Liquids & Networks William W. Graessley, 2024-11-01 Polymeric Liquids Networks Dynamics and Rheology is the second part of a two volume treatise serving as a status report on a broad area of polymer science research It represents an effort to unify and consolidate the work of many polymer researchers from all over the world over the past 60 70 years Both books are based on the graduate courses taught by the author at Princeton and Northwestern The increasing need to apply new understandings about liquid structure to rheological behavior squeezed equilibrium aspects out of the rheology course and into another graduate course which eventually became the basis for Volume 1 Structure and Properties published in 2004 Volume 2 follows the original plan by building upon Volume 1 covering continuum background along with experimental observations then molecular theories and applications to such topics as solution properties long chain branching and structural heterodispersity Dynamics and Rheology aims to leave readers with a solid grounding in the principles that underlie the dynamics and rheological behavior of flexible chain polymer liquids and networks Readers will develop an informed intuitive understanding of the connections between polymeric structure and rheological response Theory experiment and simulation are woven together so as to leave the reader with a balanced grasp of the various areas including exposure to important unsolved puzzles The book will be a great resource for a range of academic researchers in chemistry physics materials science and chemical engineering [Building DMZs For Enterprise Networks](#) Syngress, 2003-08-04 This book covers what an administrator needs to plan out and integrate a DMZ into a network for small medium and Enterprise networks In most enterprises the perception is that a firewall provides a hardened perimeter However the security of internal networks and hosts is usually very soft In such an environment a non DMZ system that is offering services to the Internet creates the opportunity to leapfrog to other hosts in the soft interior of your network In this scenario your internal network is fair game for any attacker who manages to penetrate your so called hard perimeter There are currently no books written specifically on DMZs This book will be unique in that it will be the only book that teaches readers how to build a DMZ using all of these products ISA Server Check Point NG Cisco Routers Sun Servers and Nokia Security Appliances Dr Thomas W Shinder is the author of the best selling book on Microsoft s ISA Configuring ISA Server 2000 Customers of the first book will certainly buy this book [Challenges and Opportunities of Connected K-Covered Wireless Sensor Networks](#) Habib M. Ammari, 2009-08-10 Wireless sensor networks have received significant attention because of their important role and many conveniences in our lives Indeed the recent and fast advances in inexpensive sensor technology and wireless communications has made the design and development of large scale wireless sensor networks cost effective and appealing to a wide range of mission critical situations including civilian natural industrial and

military applications such as health and environmental monitoring seism monitoring industrial process automation and battlefields surveillance respectively A wireless sensor network consists of a large number of tiny low powered devices called sensors which are randomly or deterministically deployed in a field of interest while collaborating and coordinating for the successful accomplishment of their mission These sensors suffer from very scarce resources and capabilities such as bandwidth storage CPU battery power or energy sensing and communication to name a few with energy being the most critical one The major challenge in the design process of this type of network is mainly due to the limited capabilities of the sensors and particularly their energy which makes them unreliable This book aims to develop a reader's thorough understanding of the opportunities and challenges of k -covered wireless sensor networks where each point in a deployment field is covered or sensed by at least k sensors Following Ren Descartes most elegant methodology of dividing each difficulty into as many parts as might be possible and necessary to best solve it Discours de la Method 1637 this book presents a variety of theoretical studies based on percolation theory and computational geometry as well as protocols that lead to the design of a unified framework where connected k -coverage sensor scheduling and data routing and dissemination are jointly considered

Handbook of Research on Demand-Driven Web Services: Theory, Technologies, and Applications

Sun, Zhaohao, 2014-03-31 In the current technological world Web services play an integral role in service computing and social networking services This is also the case in the traditional FREG foods resources energy and goods services because almost all traditional services are replaced fully or partially by Web services Handbook of Research on Demand Driven Web Services Theory Technologies and Applications presents comprehensive and in depth studies that reveal the cutting edge theories technologies methodologies and applications of demand driven Web mobile and e business services This book provides critical perspectives for researchers and practitioners lecturers and undergraduate graduate students and professionals in the fields of computing business service management and government as well as a variety of readers from all the social strata

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