

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

Rodrigues, Joel J.P.C.



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 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 Master the intricacies of Amazon Web Services and efficiently prepare for the SAA C02 Exam with this comprehensive study guide AWS Certified Solutions Study Guide Associate SAA C02 Exam Third Edition comprehensively and efficiently prepares you for the SAA C02 Exam The study guide contains robust and effective study tools that will help you succeed on the exam The guide grants you access to the regularly updated Sybex online learning environment and test bank which contains hundreds of test questions bonus practice exams electronic flashcards and a glossary of key terms In this study guide accomplished and experienced authors Ben Piper and David Clinton show you how to Design resilient architectures Create high performing architectures Craft secure applications and architectures Design cost optimized architectures Perfect for anyone who hopes to begin a new career as an Amazon Web Services cloud professional the study guide also belongs on the bookshelf of any existing AWS professional who wants to brush up on the fundamentals of their profession **Designing Networks and Services for the Cloud** Huseni Saboowala,Muhammad Abid,Sudhir Modali,2013 Designing Networks and Services for the Cloud Delivering business grade cloud applications and services A rapid easy to understand approach to 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,Siamäk 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 developments in UMTS technology Includes brand new sections on the IP Multimedia Subsystem and High Speed Downlink Packet Access according to 3GPP Release 5 specifications Contains heavily revised sections on the evolution from GSM to UMTS Multi access the UMTS Radio Access Network the UMTS Core Network and services Includes updated versions on services in the UMTS environment security in the UMTS environment and UMTS protocols Illustrates all points

with cutting edge practical examples gleaned from the authors research and training at the forefront of UMTS The illustrative hands on approach will appeal to operators equipment vendors systems designers developers and marketing professionals who require comprehensive practical information on the latest developments in UMTS This second edition will also benefit students and researchers in the field of mobile networking [AWS Certified Solutions Architect Study Guide with Online Labs](#) Ben Piper,David Clinton,2021-04-13 Virtual hands on learning labs allow you to apply your technical skills in realistic environments So Sybex has bundled AWS labs from XtremeLabs with our popular AWS Certified Solutions Architect Study Guide to give you the same experience working in these labs as you prepare for the Certified Solutions Architect Exam that you would face in a real life application These labs in addition to the book are a proven way to prepare for the certification and for work as an AWS Solutions Architect This is your opportunity to take the next step in your career by expanding and validating your skills on the AWS Cloud AWS has been the frontrunner in cloud computing products and services and the UPDATED AWS Certified Solutions Architect Study Guide Third Edition for the Associate SAA C02 Exam will get you fully prepared This study guide covers exam concepts and provides key review of exam topics including Designing resilient architectures Designing high performing architectures Designing secure applications and architectures Designing cost optimized architectures If you are looking to take the AWS Certified Solutions Architect Associate exam this guide is what you need for comprehensive content and robust study tools that will help you gain the edge on exam day and throughout your career Readers will have access to Sybex s superior online interactive learning environment and test bank including hundreds of test questions practice exams electronic flashcards and a glossary of key terms And included with this version of the book XtremeLabs virtual labs that run from your browser The registration code is included with the book and gives you 6 months of unlimited access to XtremeLabs AWS Certified Solutions Architect Labs with 12 unique lab modules based on the book If you are unable to register your lab PIN code please contact Wiley customer support for a replacement PIN code **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 narrative and practical insights readers will gain a deep understanding of TCP IP s fundamental concepts protocols addressing schemes and routing mechanisms Delving into the art of socket programming the book provides a solid foundation for building robust network applications Readers will explore the intricacies of client server communication uncover advanced techniques for optimizing performance and ensuring reliability and delve into the

principles of scalability resilience and security in network application design Furthermore the book investigates emerging trends and technologies that are shaping the future of networking including the adoption of IPv6 the implementation of software defined networking SDN and the integration of artificial intelligence AI and machine learning ML for network management and optimization Whether you are a seasoned network engineer a budding programmer or simply an individual seeking to expand your knowledge of this foundational technology this book will serve as an invaluable resource Its comprehensive coverage engaging narrative and practical insights will empower you to design implement and manage robust and efficient networks enabling you to thrive in the ever evolving landscape of digital communication Unleash the power of TCP IP and become a master of modern networking with this comprehensive guide If you like this book write a review on google books

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Microsoft Azure Architect Technologies and Design Complete Study Guide Benjamin Perkins,William Panek,2021-01-13 Become a proficient Microsoft Azure solutions architect Azure certifications are critical to the millions of IT professionals Microsoft has certified as MCSE and MCSA in Windows Server in the last 20 years All of these professionals need to certify in key Azure exams to stay current and advance in their careers Exams AZ 303 and AZ 304 are the key solutions architect exams that experienced Windows professionals will find most useful at the intermediate and advanced points of their careers Microsoft Azure Architect Technologies and Design Complete Study Guide Exams AZ 303 and AZ 304 covers the two critical Microsoft Azure exams that intermediate and advanced Microsoft IT professionals will need to show proficiency as their organizations move to the Azure cloud Understand Azure Set up your Microsoft Cloud network Solve real world problems Get the confidence to pass the exam By learning all of these things plus using the Study Guide review questions and practice exams the reader will be ready to take the exam and perform the job with confidence

Solutions

Architect's Handbook Saurabh Shrivastava, Neelanjali Srivastav, 2020-03-21 From fundamentals and design patterns to the different strategies for creating secure and reliable architectures in AWS cloud learn everything you need to become a successful solutions architect Key Features Create solutions and transform business requirements into technical architecture with this practical guide Understand various challenges that you might come across while refactoring or modernizing legacy applications Delve into security automation DevOps and validation of solution architecture Book Description Becoming a solutions architect gives you the flexibility to work with cutting edge technologies and define product strategies This handbook takes you through the essential concepts design principles and patterns architectural considerations and all the latest technology that you need to know to become a successful solutions architect This book starts with a quick introduction to the fundamentals of solution architecture design principles and attributes that will assist you in understanding how solution architecture benefits software projects across enterprises You ll learn what a cloud migration and application modernization framework looks like and will use microservices event driven cache based and serverless patterns to design robust architectures You ll then explore the main pillars of architecture design including performance scalability cost optimization security operational excellence and DevOps Additionally you ll also learn advanced concepts relating to big data machine learning and the Internet of Things IoT Finally you ll get to grips with the documentation of architecture design and the soft skills that are necessary to become a better solutions architect By the end of this book you ll have learned techniques to create an efficient architecture design that meets your business requirements What you will learn Explore the various roles of a solutions architect and their involvement in the enterprise landscape Approach big data processing machine learning and IoT from an architect s perspective and understand how they fit into modern architecture Discover different solution architecture patterns such as event driven and microservice patterns Find ways to keep yourself updated with new technologies and enhance your skills Modernize legacy applications with the help of cloud integration Get to grips with choosing an appropriate strategy to reduce cost Who this book is for This book is for software developers system engineers DevOps engineers architects and team leaders working in the information technology industry who aspire to become solutions architect professionals A good understanding of the software development process and general programming experience with any language will be useful 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 have 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, seismic 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

Network Security Technologies and Solutions (CCIE Professional Development Series) Yusuf Bhaiji, 2008-03-20 CCIE Professional Development Network Security Technologies and Solutions A comprehensive all in one reference for Cisco network security Yusuf Bhaiji CCIE No 9305 Network Security Technologies and Solutions is a comprehensive reference to the most cutting edge security products and methodologies available to networking professionals today This book helps you understand and implement current state of the art network security technologies to ensure secure communications throughout the network infrastructure With an easy to follow approach this book serves as a central repository of security knowledge to help you implement end to end security solutions and provides a single source of knowledge covering the entire range of the Cisco network security portfolio The book is divided into five parts mapping to Cisco security technologies and solutions perimeter security identity security and access management data privacy security monitoring and security management Together all these elements enable dynamic links between customer security policy user or host identity and network infrastructures With this definitive reference you can gain a greater understanding of the solutions available and learn how to build integrated secure networks in today's modern heterogeneous networking environment This book is an excellent resource for those seeking a comprehensive reference on mature and emerging security tactics and is also a great study guide for the CCIE Security exam Yusuf's extensive experience as a mentor and advisor in the security technology field

has honed his ability to translate highly technical information into a straight forward easy to understand format If you re looking for a truly comprehensive guide to network security this is the one Steve Gordon Vice President Technical Services Cisco Yusuf Bhajji CCIE No 9305 R S and Security has been with Cisco for seven years and is currently the program manager for Cisco CCIE Security certification He is also the CCIE Proctor in the Cisco Dubai Lab Prior to this he was technical lead for the Sydney TAC Security and VPN team at Cisco Filter traffic with access lists and implement security features on switches Configure Cisco IOS router firewall features and deploy ASA and PIX Firewall appliances Understand attack vectors and apply Layer 2 and Layer 3 mitigation techniques Secure management access with AAA Secure access control using multifactor authentication technology Implement identity based network access control Apply the latest wireless LAN security solutions Enforce security policy compliance with Cisco NAC Learn the basics of cryptography and implement IPsec VPNs DMVPN GET VPN SSL VPN and MPLS VPN technologies Monitor network activity and security incident response with network and host intrusion prevention anomaly detection and security monitoring and correlation Deploy security management solutions such as Cisco Security Manager SDM ADSM PDM and IDM Learn about regulatory compliance issues such as GLBA HIPPA and SOX This book is part of the Cisco CCIE Professional Development Series from Cisco Press which offers expert level instr

Network Chapter 8 Solutions: Bestsellers in 2023 The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the captivating narratives that have charmed audiences this year. Network Chapter 8 Solutions : Colleen Hoover "It Ends with Us" This poignant tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Network Chapter 8 Solutions : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and thrilling novel that will keep you wondering until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

https://crm.avenza.com/data/virtual-library/Documents/Phonograph_Restoration_And_Repair.pdf

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