

Wireshark Lab: NAT

SOLUTION

Supplement to *Computer Networking: A Top-Down Approach*, 6th ed., J.F. Kurose and K.W. Ross

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In this lab, we'll investigate the behavior of the NAT protocol. This lab will be different from our other Wireshark labs, where we've captured a trace file at a single Wireshark measurement point. Because we're interested in capturing packets at both the input and output sides of the NAT device, we'll need to capture packets at two locations. Also, because many students don't have easy access to a NAT device or to two computers on which to take Wireshark measurements, this isn't a lab that is easily done "live" by a student. Therefore in this lab, you will use Wireshark trace files that we've captured for you. Before beginning this lab, you'll probably want to review the material on NAT section 4.4 in the text.¹

1. NAT Measurement Scenario

In this lab, we'll capture packets from a simple web request from a client PC in a home network to a `www.google.com` server. Within the home network, the home network router provides a NAT service, as discussed in Chapter 4.

Figure 1 shows our Wireshark trace-collection scenario. As in our other Wireshark labs, we collect a Wireshark trace on the client PC in our home network. This file is called `NAT_home_side`². Because we are also interested in the packets being sent by the NAT router into the ISP, we'll collect a second trace file at a PC (not shown) tapping into the link from the home router into the ISP network, as shown in Figure 1. (The hub device



Figure 1: NAT trace collection scenario

¹ All references to the text in this lab are to *Computer Networking: A Top-down Approach*, 5th edition.

² Download the zip file <http://gaia.cs.umass.edu/wireshark-labs/wireshark-traces.zip> and extract the files need for this lab.

Solutions Computer Networking 6th Edition

Anura Guruge, Lisa Gaetta



Solutions Computer Networking 6th Edition:

Information Security Management Handbook, Sixth Edition Harold F. Tipton, Micki Krause, 2007-05-14 Considered the gold standard reference on information security the Information Security Management Handbook provides an authoritative compilation of the fundamental knowledge skills techniques and tools required of today's IT security professional Now in its sixth edition this 3200 page 4 volume stand alone reference is organized under the CISSP Common Body of Knowledge domains and has been updated yearly Each annual update the latest is Volume 6 reflects the changes to the CBK in response to new laws and evolving technology *Computer Networking Problems and Solutions* Russ White, Ethan Banks, 2017-12-06 Master Modern Networking by Understanding and Solving Real Problems Computer Networking Problems and Solutions offers a new approach to understanding networking that not only illuminates current systems but prepares readers for whatever comes next Its problem solving approach reveals why modern computer networks and protocols are designed as they are by explaining the problems any protocol or system must overcome considering common solutions and showing how those solutions have been implemented in new and mature protocols Part I considers data transport the data plane Part II covers protocols used to discover and use topology and reachability information the control plane Part III considers several common network designs and architectures including data center fabrics MPLS cores and modern Software Defined Wide Area Networks SD WAN Principles that underlie technologies such as Software Defined Networks SDNs are considered throughout as solutions to problems faced by all networking technologies This guide is ideal for beginning network engineers students of computer networking and experienced engineers seeking a deeper understanding of the technologies they use every day Whatever your background this book will help you quickly recognize problems and solutions that constantly recur and apply this knowledge to new technologies and environments Coverage Includes Data and networking transport Lower and higher level transports and interlayer discovery Packet switching Quality of Service QoS Virtualized networks and services Network topology discovery Unicast loop free routing Reacting to topology changes Distance vector control planes link state and path vector control Control plane policies and centralization Failure domains Securing networks and transport Network design patterns Redundancy and resiliency Troubleshooting Network disaggregation Automating network management Cloud computing Networking the Internet of Things IoT Emerging trends and technologies Fundamentals of Computer Networks Matthew N. O. Sadiku, Cajetan M. Akujuobi, 2022-08-29 This textbook presents computer networks to electrical and computer engineering students in a manner that is clearer more interesting and easier to understand than other texts All principles are presented in a lucid logical step by step manner As much as possible the authors avoid wordiness and giving too much detail that could hide concepts and impede overall understanding of the material Ten review questions in the form of multiple choice objective items are provided at the end of each chapter with answers The review questions are intended to cover the little tricks which the examples and end of chapter

problems may not cover They serve as a self test device and help students determine how well they have mastered the chapter

Communications Systems Management Handbook, Sixth Edition Anura Guruge, Lisa Gaetta, 1999-10-25 Just a decade ago many industry luminaries predicted the collapse of the centralized data center and IT structure In its place would be a more decentralized client server model built upon the Open Systems Interconnect OSI networking architecture However client server never fully realized all of its promises and OSI floundered Now instead of client server and OSI we have the Web based model and TCP IP Together Web oriented technologies i e browsers web servers HTML Java and TCP IP are completely changing how the enterprise views its network Instead of serving as primarily an internal utility the enterprise network is now a vital means of delivering products and services and of tying an enterprise more closely to its customers partners and suppliers The impact to the very structure of the enterprise network could not be more profound Providing extensive coverage of planning networking LANs systems management communications issues and trends Communications Systems Management Handbook 6th Edition is your most reliable source for solid dependable solutions to real world data communications problems The tips strategies and case studies provided do more than just save you time and money They also save your data communications network and with it your professional life This new edition of the Communications Systems Management Handbook provides you with detailed information on the different facets of change in the enterprise network Enterprise network architectures LAN and campus networking Remote access WAN Data centers Client and servers Security Network Management What s more the New Edition is dramatically restructured providing a more logical grouping of articles into discrete sections that bring focus to a particular enterprise networking topic In addition the content of this edition has been substantially updated Almost three quarters of the articles are new to this edition The common theme throughout the handbook is the change that the enterprise network is undergoing and how to manage it The handbook s generous use of illustrations simplifies the technical workings of networks and communications systems The comprehensive index makes it easy to find the topics you want and related topics And because each chapter is written by an expert with first hand experience in data communications no other book gives you such a full range of perspectives and explanations of the technical planning administrative personnel and budget challenges of the communication manager s job Covering everything from electronic commerce to multimedia from system design and cost allocation to Ethernet switches and the impact of virtual private networks this is your one stop source for the best most essential data communications expertise to be found anywhere The Communications Systems Management Handbook serves as an information tool for proven advice and methods on managing network services and costs creating networking solutions and preparing for advanced communications network technologies

The Essentials of Computer Organization and Architecture Linda Null, Julia Lobur, 2006
Computer Architecture Software Engineering **Resources in Education** , 1994-07 *Advanced Routing Protocols for Wireless Networks* Miguel Elias Mitre Campista, Rubinstein Marcelo Gonçalves Rubinstein, 2014-06-02 This text introduces

the principles of routing protocols and metrics as they affect wireless networking environments specifically in urban areas. Timely because of the recent rise in smart city life, this topic includes the consideration of ad hoc mesh vehicular sensor and delay tolerant networks. These approaches are each unique and author Miguel Mitre Campista provides a thorough but accessible explanation of their individual characteristics for engineers, computer scientists, IT professionals, and curious Internet users. Programs and Services National Library of Medicine (U.S.), *National Library of Medicine Programs and Services* National Library of Medicine (U.S.), National Library of Medicine (U.S.), 2000. *Wireless Multi-Access Environments and Quality of Service Provisioning: Solutions and Application* Muntean, Gabriel-Miro, Trestian, Ramona, 2012-01-31. This book serves as a vital resource for practitioners to learn about the latest research and methodology within the field of wireless technology covering important aspects of emerging technologies in the heterogeneous next generation network environment with a focus on wireless communications and their quality. Provided by publisher.

Computer Networking Essentials Debra Littlejohn Shinder, 2001. *Computer Networking Essentials* starts with an introduction to networking concepts. Readers learn computer networking terminology and history and then dive into the technical concepts involved in sharing data across a computer network. Distributed Computer Control System T. J. Harrison, 2014-05-19. *Distributed Computer Control Systems* Proceedings of the IFAC Workshop Tampa Florida U S A 24 October 1979 focuses on the design processes, methodologies, and applications of distributed computing systems. The selection first discusses the use of distributed control systems for facility energy management including space conditioning, control plant design, central plant control, and system design. The book then takes a look at programming distributed computer systems with higher level languages. Topics include design of an application programming language for distributed computing systems, realization of a suitable programming language for distributed computing systems, and optimal structure and capabilities of an automatic control system. The text focuses on the similarities and differences of distributed computer control systems, transaction processing as an efficient conceptual framework for comparing and understanding distributed systems, and multi-processor approach for the automation of quality control in an overall production control system. The selection also deals with transaction processing in distributed control systems, parallel processing for distributed computer control systems, and design and development of distributed control systems. The book is a vital source of data for readers interested in distributed computing. Networking Explained Michael Gallo, William M. Hancock PhD CISSP CISM, 2001-12-17. *Networking Explained 2e* offers a comprehensive overview of computer networking with new chapters and sections to cover the latest developments in the field including voice and data, wireless networking, multimedia networking, and network convergence. Gallo and Hancock provide a sophisticated introduction to their subject in a clear, readable format. These two top networking experts answer hundreds of questions about hardware, software, standards, and future directions in network technology. *Wireless networks, Convergence of voice and data, Multimedia networking* **InfoWorld**, 1997-04-07.

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Energy Harvesting Deepti Agarwal,Kimmi Verma,Shabana Urooj,2022-09-28 Energy Harvesting Enabling IoT Transformations gives insight into the emergence of energy harvesting technology and its integration with IoT based applications The book educates the reader on how energy is harvested from different sources increasing the effectiveness efficiency and lifetime of IoT devices Discusses the technology and practices involved in energy harvesting for biomedical agriculture and automobile industries Compares the performance of IoT based devices with and without energy harvesting for different applications Studies the challenges and issues in the implementation of EH IoT Includes case studies on energy harvesting approach for solar thermal and RF sources Analyzes the market and business opportunities for entrepreneurs in the field of EH IoT This book is primarily aimed at graduates and research scholars in wireless sensor networks Scientists and R D workers in industry will also find this book useful CompTIA Security+ All-in-One Exam Guide, Sixth Edition (Exam SY0-601) Wm. Arthur Conklin,Greg White,2021-04-09 This fully updated study guide covers every topic on the current version of the CompTIA Security exam Get complete coverage of all objectives included on the CompTIA Security exam SY0 601 from this comprehensive resource Written by a team of leading information security experts this authoritative guide fully addresses the skills required to perform essential security functions and to secure hardware systems and software You ll find learning objectives at the beginning of each chapter exam tips practice exam questions and in depth explanations Designed to help you pass the exam with ease this definitive volume also serves as an essential on the job reference Covers all exam domains including Threats Attacks and Vulnerabilities Architecture and Design Implementation Operations and Incident Response Governance Risk and Compliance Online content includes 250 practice exam questions Test engine that provides full length practice exams and customizable quizzes by chapter or by exam domain **Storage Networking Protocol Fundamentals** James Long,2013-05-30 A comparative analysis of Ethernet TCP IP and Fibre Channel in the context of SCSI Introduces network administrators to the requirements of storage protocols Explains the operation of network protocols to storage administrators Compares and contrasts the functionality of Ethernet TCP IP and Fibre Channel Documents the details of the major protocol suites explains how they operate and identifies common misunderstandings References the original standards and specifications so you can get a complete understanding of each protocol Helps you understand the implications of network design choices Discusses advanced network functionality such as QoS security management and protocol analysis Corporations increasingly depend on computer and communication technologies to remain competitive in

the global economy Customer relationship management enterprise resource planning and e mail are a few of the many applications that generate new data every day Effectively storing managing and accessing that data is a primary business challenge in the information age Storage networking is a crucial component of the solution to meet that challenge Written for both storage administrators who need to learn more about networking and network administrators who need to learn more about storage Storage Networking Protocol Fundamentals is a concise introduction to storage networking protocols The book picks up where Storage Networking Fundamentals left off by focusing on the networking protocols that underlie modern open systems block oriented storage networks The first part of the book introduces you to the field of storage networking and the Open Systems Interconnection OSI reference model The second part compares networked storage technologies including iSCSI Small Computer Systems Interface over IP and Fibre Channel It also examines in detail each of the major protocol suites layer by layer within the OSI reference model The third part discusses advanced functionalities of these technologies such as quality of service QoS load balancing functions security management and protocol analysis You can read this book cover to cover or use it as a reference directly accessing the particular topics of interest to you Storage networking is a critical concept for today s businesses and this book provides a unique and helpful way to better understand it Storage networking is also continuously evolving and as such this book may be seen as an introduction to the information technology infrastructures of the future from the foreword by Claudio DeSanti vice chairman of the ANSI INCITS T11 Technical Committee

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Raisinghani, Mahesh,2016-02-29 The proliferation of technology has affected all aspects of human life yet the continuing possibilities of their effects on education have yet to be fully explored When viewed separately one may believe that only paltry solutions can be wrought from online and web based education however when applied and studied in a dynamic interactive sense these advancements may alter the very notion of learning and education Revolutionizing Education through Web Based Instruction is a comprehensive multi disciplinary exploration of the emerging digital opportunities available to educators This book presents contemporary theoretical frameworks as well as practical research findings that support the use of these new computer assisted teaching techniques The myriad of research based topics featured in this book allow for a thorough diverse discussion about education technology and the intersection therein This title is an invaluable resource for instructors students of education and researchers and professionals in the fields of knowledge management

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