



Session Traversal Utilities For Nat

Arun Handa



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Network Address Translators Traversal Techniques and User Datagram Protocol Keep Alive Interval Optimization

Christopher Daniel Widmer, 2015 NAT traversal presents a challenge to Peer to Peer P2P applications as in many instances a third party is needed to help initiate communication between two hosts when one is behind one or more NAT devices Much work has gone into facilitating communication across NATs using various protocols and several standards have been developed to this end This thesis explores the advantages and disadvantages of several of these standards including protocols for interacting with the NAT device itself NAT Port Mapping Protocol NATP PMP Port Control Protocol PCP and Universal Plug and Play UPnP and those using an external server to obtain the external facing address and port mapping of a client Session Traversal Utilities for NAT STUN The results from a small series of performance tests are also described A common technique for maintaining connections through NATs is to use some form of keep alive message so that the connection mapping in the NAT device will not expire This thesis explores several existing methods for encoding and scheduling keep alive messages In addition it introduces a new state based technique STUN Calc Keep Alive as an extension of the STUN protocol for calculating an appropriate keep alive interval for a User Datagram Protocol UDP connection with the current network configuration and efficiently adapting to NAT mapping lifetime changes In addition to having the algorithm run on a dedicated connection two possible implementations for running the algorithm using a single channel or on the same connection as other application traffic are described

TCP/IP Illustrated Kevin R. Fall, W. Richard Stevens, 2012 TCP IP Illustrated Volume 1 Second Edition is a detailed and visual guide to today's TCP IP protocol suite Fully updated for the newest innovations it demonstrates each protocol in action through realistic examples from modern Linux Windows and Mac OS environments There's no better way to discover why TCP IP works as it does how it reacts to common conditions and how to apply it in your own applications and networks Building on the late W Richard Stevens classic first edition author Kevin R Fall adds his cutting edge experience as a leader in TCP IP protocol research updating the book to fully reflect the latest protocols and best practices He first introduces TCP IP's core goals and architectural concepts showing how they can robustly connect diverse networks and support multiple services running concurrently

SIP Security Dorgham Sisalem, John Floroiu, Jiri Kuthan, Ulrich Abend, Henning Schulzrinne, 2009-03-23 This book gives a detailed overview of SIP specific security issues and how to solve them While the standards and products for VoIP and SIP services have reached market maturity security and regulatory aspects of such services are still being discussed SIP itself specifies only a basic set of security mechanisms that cover a subset of possible security issues In this book the authors survey important aspects of securing SIP based services This encompasses a description of the problems themselves and the standards based solutions for such problems Where a standards based solution has not been defined the alternatives are discussed and the benefits and constraints of the different solutions are highlighted Key Features Will help the readers to understand the actual problems of using and developing VoIP services and to distinguish between real problems and the general hype of VoIP security Discusses key aspects of SIP security including authentication integrity confidentiality non repudiation and signalling Assesses the real security issues facing users of SIP and details the latest theoretical and practical solutions to SIP Security issues Covers secure SIP access inter provider secure communication media security security of the IMS infrastructures as well as VoIP services vulnerabilities and countermeasures against Denial of Service attacks and VoIP spam This book will be of interest to IT staff involved in deploying and developing VoIP service users of SIP network engineers designers and managers Advanced undergraduate and graduate students studying data voice multimedia communications as well as researchers in academia and industry will also find this book valuable

Introduction to Computer Networks and Cybersecurity Chwan-Hwa (John) Wu, J. David Irwin, 2016-04-19 If a network is not secure how valuable is it Introduction to Computer Networks and Cybersecurity takes an integrated approach to networking and cybersecurity highlighting the interconnections so that you quickly understand the complex design issues in modern networks This full color book uses a wealth of examples and illustrations to effective

SIP: Understanding the Session Initiation Protocol, Fourth Edition Alan B. Johnston, 2015-11-01 Now in its fourth edition the ground breaking Artech House bestseller SIP Understanding the Session Initiation Protocol offers you the most comprehensive and current understanding of this revolutionary protocol for call signaling and IP Telephony The fourth edition incorporates changes in SIP from the last five years with new chapters on internet threats and attacks WebRTC and SIP and substantial updates throughout This cutting edge book shows how SIP provides a highly scalable and cost effective way to offer new and exciting telecommunication feature sets helping practitioners design next generation network and develop new applications and software stacks Other key discussions include SIP as a key component in the Internet multimedia conferencing architecture request and response messages devices in a typical network types of servers SIP headers comparisons with existing signaling protocols including H 323 related protocols SDP Session Description Protocol and RTP Real time Transport Protocol and the future direction of SIP

System Engineering for IMS Networks Arun Handa, 2009-03-12 The IMS is the foundation architecture for the next generation of mobile phones wireless enabled PDAs PCs and the like IMS delivers multimedia content audio video text etc over all types of networks For network engineers administrators and telecommunications engineers it will be essential to not only understand IMS architecture but to also be able to apply it at every stage of the network design process This book will contain pragmatic information on how to engineer IMS networks as well as an applications oriented approach for the engineering and networking professionals responsible for making IMS function in the real world Describes the convergence of wireless IMS IP Multimedia Subsystem with other networks including wireline and cable Discusses building interfaces for end users and IMS applications servers Explores network management issues with IMS

Packet Guide to Routing and Switching Bruce Hartpence, 2011-08-25 Go beyond layer 2 broadcast domains with this in depth tour of advanced link and internetwork layer protocols and learn how they enable you to expand to larger topologies An ideal follow up to Packet Guide to Core Network Protocols this concise guide dissects several of these protocols to explain their structure and operation This isn't a book on packet theory Author Bruce Hartpence built topologies in a lab as he wrote this guide and each chapter includes several packet captures You'll learn about protocol classification static vs dynamic topologies and reasons for installing a particular route This guide covers Host routing Process a routing table and learn how traffic starts out across a network Static routing Build router routing tables and understand how forwarding decisions are made and processed Spanning Tree Protocol Learn how this protocol is an integral part of every network containing switches Virtual Local Area Networks Use VLANs to address the limitations of layer 2 networks Trunking Get an in-depth look at VLAN tagging and the 802.1Q protocol Routing Information Protocol Understand how this distance vector protocol works in small modern communication networks Open Shortest Path First Discover why convergence times of OSPF and other link state protocols are improved over distance vectors

Understanding Session Border Controllers Kaustubh Inamdar, Steve Holl, Gonzalo Salgueiro, Kyzer Davis, Arunachalam Chidambaram, 2018-11-28 The complete guide to deploying and operating SBC solutions Including Cisco Unified Border Element CUBE Enterprise and service provider networks are increasingly adopting SIP as the guiding protocol for session management and require leveraging Session Border Controller SBC technology to enable this transition Thousands of organizations have made the Cisco Unified Border Element CUBE their SBC technology of choice Understanding Session Border Controllers gives network professionals and consultants a comprehensive guide to SBC theory design deployment operation security troubleshooting and more Using CUBE based examples the authors offer insights that will be valuable to technical professionals using any SBC solution The authors thoroughly cover native call control protocols SBC behavior and SBC's benefits for topology abstraction demarcation and security media and protocol interworking They also present practical techniques and configurations for achieving interoperability with a wide variety of collaboration products and solutions Evaluate key benefits of SBC solutions for security management and interoperability Master core concepts of SIP H.323 DTMF signaling interoperability call routing fax modem over IP security media handling and media signal forking in the SBC context Compare SBC deployment scenarios and optimize deployment for your environment Size and scale an SBC platform for your environment prevent oversubscription of finite resources and control cost through careful licensing Use SBCs as a back to back user agent B2BUA to interoperate between asymmetric VoIP networks Establish SIP trunking for PSTN access via SBCs Interoperate with call servers proxies fax servers ITSPs redirect servers call recording servers contact centers and other devices Secure real time communications over IP Mitigate security threats associated with complex SIP deployments Efficiently monitor and manage an SBC environment

Cisco TelePresence Fundamentals Tim Szigeti, Kevin McMenamy, Roland Saville, Alan Glowacki, 2009-05-26 Cisco TelePresence™ Systems CTS create live face to face meeting experiences providing a breakthrough virtual conferencing and collaboration experience that transcends anything previously achievable by videoconferencing. Although the business case for deploying CTS is compelling, implementing it requires advanced knowledge of the latest networking technologies, an attention to detail and thorough planning. In this book, four leading CTS technical experts cover everything you need to know to successfully design and deploy CTS in your environment. The authors cover every element of a working CTS solution: video, audio, signaling, protocols, and call processing; LAN and WAN design; multipoint security; inter-company connectivity; and much more. They deliver start-to-finish coverage of CTS design for superior availability, QoS support, and security in converged networks. They also present the first chapter-length design guide of its kind, detailing the room requirements and recommendations for lighting, acoustics, and ambience within various types of TelePresence rooms. Cisco TelePresence Fundamentals is an indispensable resource for all technical professionals tasked with deploying CTS, including network administrators, system administrators, audio/video specialists, VoIP specialists, and operations staff. This is the only book that introduces every component of a complete CTS solution and shows how they work together. Walks through connecting CTS in real-world environments. Demonstrates how to secure virtual meetings using Cisco firewalls and security protocols. Includes a full chapter on effective TelePresence room design. Walks through every aspect of SIP call signaling design, including both single-cluster and inter-cluster examples for use in a TelePresence environment. Provides prequalification room and network path assessment considerations to help you anticipate and avoid problems. Tim Szigeti, CCIE No. 9794, technical leader within the Cisco Enterprise Systems Engineering team, is responsible for defining Cisco TelePresence network deployment best practices. He also coauthored the Cisco Press book *End-to-End QoS Network Design*. Kevin McMenamy, senior manager of technical marketing in the Cisco TelePresence Systems Business Unit, has spent the past nine years at Cisco supporting IP videoconferencing, video telephony, and unified communications. Roland Saville, technical leader for the Cisco Enterprise Systems Engineering team, tests and develops best-practice design guides for Cisco TelePresence enterprise deployments. Alan Glowacki is a Cisco technical marketing engineer responsible for supporting Cisco TelePresence customers and sales teams. Use Cisco TelePresence Systems CTS to enhance global teamwork and collaboration both within your own enterprise and with your customers, partners, and vendors. Understand how the various components of the Cisco TelePresence Solution connect and work together. Integrate CTS into existing LAN, enterprise, and service provider networks. Successfully design and deploy a global TelePresence network. Understand the importance of room dimensions, acoustics, lighting, and ambience, and how to properly design the physical room environment. Provide the high levels of network availability CTS requires. Leverage the Cisco quality of service (QoS) tools most relevant to CTS network provisioning and deployment. Systematically secure CTS using TLS, DTLS, SRTP, SSH, and Cisco firewalls. This book is part of the Cisco Press Fundamentals Series. Books in this series introduce networking professionals to new networking technologies, covering network topologies, sample deployment concepts, protocols, and management techniques. Category: IP Communications. Covers: Cisco TelePresence Systems.

Learning WebRTC Dan Ristic, 2015-06-30 The book begins by teaching you how to capture audio and video streams from the browser using the Media Capture and Streams API. You will then create your first WebRTC application capable of audio and video calling. The book will also give you in-depth knowledge about signaling and building a signaling server in Node.js. While being introduced to the RTCDatChannel object, you will learn how it relates to WebRTC and how to add text-based chat to your application. You will also learn to take your application further by supporting multiple users through different technologies and scale its performance and security. This book will also cover several theories using full mesh networks, partial mesh networks, and multipoint control units. By the end of this book, you will have an extensive understanding of real-time communication and the WebRTC protocol and APIs.

Learning with Technologies and Technologies in Learning Michael E. Auer, Andreas Pester, Dominik May, 2022-09-12 Education has always been one of the cornerstones for societal evolution and economic growth We are currently witnessing a significant transformation in the development of education and especially post secondary education The use of technology impacts the way educational content is presented and acquired in many areas The designs of immersive educational worlds and the combination of rational and emotional educational experiences that cannot be designed in the same way in the traditional classroom will come increasingly into focus Seen in this way the book also contributes to generalize the experience of the COVID 19 crisis and its impact to quality of learning and education Scientifically based statements as well as excellent experiences best practice are necessary This book contains scientific papers in the fields of The future of learning Eruptive technologies in learning Pedagogy of online learning Deep learning vs machine learning opportunities and challenges Reimagining and rapid transition of learning Interested readership includes policymakers academics educators researchers in pedagogy and learning theory schoolteachers learning industry further and continuing education lecturers etc

Personal Networks Martin Jacobsson, Ignas Niemegeers, Sonia Heemstra de Groot, 2011-06-09 Written by experts in the field this book describes the Personal Network architecture and its various components This book focuses on networking and security aspects of Personal Networks PNs Given a single user the authors propose an architecture for PNs in which devices are divided into one of two types of nodes personal nodes and foreign nodes Furthermore the authors demonstrate the ways in which PNs can be formed in a self organized and secure way how they can be interconnected using infrastructure networks how multiple PNs can be connected and how their services and resources can be shared In addition the book shows how security and ease of use can be achieved through automatic configuration and how mobility can be supported through adaptability and self organization The motivations for the PN concept the PN architecture its functionalities and features as well as future challenges are covered in depth Finally the authors consider the potential applications for PNs and briefly discuss additional support systems for PN applications The latter includes service discovery and context information management among others Key Features Describes the PN network architecture and its various components in depth Written by experts who developed this concept Discusses the newer topic of federations of PNs Considers potential PN applications and demonstrates how applications support systems such as service discovery and context management can assist the applications Provides an insight into the challenges of future personal networking architectures for PNs potential and important solutions and their implications This book will serve as an invaluable reference for researchers developers and standardization experts in mobile and wireless communication systems and services It will also be of interest to postgraduate students in the field of telecommunications

From GSM to LTE-Advanced Pro and 5G Martin Sauter, 2017-08-02 A comparative introduction to major global wireless standards technologies and their applications From GSM to LTE Advanced Pro and 5G An Introduction to Mobile Networks and Mobile Broadband 3rd Edition provides technical descriptions of the various wireless technologies currently in use It explains the rationales behind their differing mechanisms and implementations while exploring the advantages and limitations of each technology This edition has been fully updated and substantially expanded to reflect the significant evolution in mobile network technology occurring over the past several years The chapter on LTE has been extensively enhanced with new coverage of current implementations of LTE carrier aggregation mobility management cell reselection and handover procedures as well as the latest developments in 5G radio and core networks in 3GPP It now features additional information on the TD LTE air interface IPv6 in mobile networks Network Function Virtualization NFV and Narrowband Internet of Things NB IOT Voice over LTE VoLTE is now treated extensively in a separate chapter featuring coverage of the VoLTE call establishment process dedicated bearer setup header compression speech codec and bandwidth negotiation supplementary service configuration and VoLTE emergency calls In addition extensive coverage of Voice over Wifi and mission critical communication for public safety organizations over LTE has been added The WLAN chapter now provides coverage of WPA2 Professional with certificates for authentication in large deployments such as the global Eduroam network and the new WLAN 60 GHz air interface Bluetooth evolution has been addressed by including a detailed description of Bluetooth Low Energy BLE in the chapter devoted to Bluetooth Describes the different systems based on the standards their practical implementation and design assumptions and the performance and capacity of each system in practice is analyzed and explained Questions at the end of each chapter and answers on the accompanying website make this book ideal for self study or as course material

CCNP Collaboration Cloud and Edge Solutions CLCEI 300-820 Official Cert Guide Jason Ball, Thomas Arneson, 2021-12-14 This is the eBook version of the print title Note that the eBook does not provide access to the practice test software that accompanies the print book Learn prepare and practice for Cisco CCNP Collaboration Cloud and Edge Solutions CLCEI 300 820 exam success with this Official Cert Guide from Cisco Press a leader in IT certification learning and the only self study resource approved by Cisco Master CCNP Collaboration Cloud and Edge Solutions CLCEI 300 820 exam topics Assess your knowledge with chapter ending quizzes Review key concepts with exam preparation tasks CCNP Collaboration Cloud and Edge Solutions CLCEI 300 820 Official Cert Guide is a complete exam study guide Collaboration experts Jason Ball and TJ Arneson share preparation hints and test taking tips helping you identify areas of weakness and improve both your conceptual knowledge and hands on skills Material is presented in a concise manner focusing on increasing your understanding and retention of exam topics The book presents you with an organized test preparation routine through the use of proven series elements and techniques Exam topic lists make referencing easy Chapter ending Exam Preparation Tasks help you drill on key concepts you must know thoroughly Review questions help you assess your knowledge and a final preparation chapter guides you through tools and resources to help you craft your final study plan Well regarded for its level of detail assessment features and challenging review questions and exercises this study guide helps you master the concepts and techniques that will help you succeed on the exam This official study guide helps you master the topics on the CLCEI 300 820 exam including Key concepts Initial Expressway configurations Mobile and remote access Cisco Webex technologies

Passive and Active Measurement Matthew Roughan, Chang Rocky, 2013-03-15 This book constitutes the refereed proceedings of the 14th International Conference on Passive and Active Measurement PAM 2013 held in Hong Kong China in March 2013 The 24 revised full papers presented were carefully reviewed and selected from 74 submissions The papers have been organized in the following topical sections measurement design experience and analysis Internet wireless and mobility performance measurement protocol and application behavior characterization of network usage and network security and privacy In addition 9 poster abstracts have been included

Distributed Applications and Interoperable Systems Pascal Felber, Romain Rouvoy, 2011-05-26 This book constitutes the refereed proceedings of the 11th IFIP WG 6.1 International Conference on Distributed Applications and Interoperable Systems DAIS 2011 held in Reykjavik Iceland in June 2011 as one of the DisCoTec 2011 events The 18 revised full papers and 6 short papers presented were carefully reviewed and selected from 55 submissions The papers presented at DAIS 2011 address key challenges of modern distributed services and applications including pervasiveness and peer to peer environments and tackle issues related to adaptation interoperability availability and performance as well as dependability and security

Privacy Enhancing Technologies Simone Fischer-Hübner, Matthew Wright, 2012-06-28 This book constitutes the refereed proceedings of the 12th International Symposium on Privacy Enhancing Technologies PET 2012 held in Vigo Spain in July 2012 The 16 full papers presented were carefully selected from 72 submissions Topics addressed include anonymization of statistics content and traffic network traffic analysis censorship resistant systems user profiling training users in privacy risk management and privacy of internet and cloud bases services A further highlight is the HotPETS session designed as a venue to present existing but still preliminary and evolving ideas

The IMS Miikka Poikselkä, Georg Mayer, 2013-05-29 The 3rd edition of this highly successful text builds on the achievement of the first two editions to provide comprehensive coverage of IMS It continues to explore the concepts architecture protocols and functionalities of IMS while providing a wealth of new and updated information It is written in a manner that allows readers to choose the level of knowledge and understanding they need to gain about the IMS With 35% new material The IMS IP Multimedia Concepts and Services 3rd Edition has been completely revised to include updated chapters as well as totally new chapters on IMS multimedia telephony and IMS voice call continuity Additional new material includes IMS transit IMS local numbering emergency sessions identification of communication services in IMS new authentication model for fixed access NAT traversal and globally routable user agents URI Detailed descriptions of protocol behaviour are provided on a level that can be used for implementation and testing Key features of the 3rd edition Two new chapters on IMS multimedia telephony service and IMS Voice Call Continuity Updated information on Third Generation Partnership Project 3GPP Release 7 level including architecture reference points and concepts Substantially extended coverage on IMS detailed procedures Completely rewritten and extended chapters on IMS services

Mastering Microsoft Lync Server 2010 Nathan Winters, Keith Hanna, 2012-01-10 An in depth guide on the leading Unified Communications platform Microsoft Lync Server 2010 maximizes communication capabilities in the workplace like no other Unified Communications UC solution Written by experts who know Lync Server inside and out this comprehensive guide shows you step by step how to administer the newest and most robust version of Lync Server Along with clear and detailed instructions learning is aided by exercise problems and real world examples of established Lync Server environments You ll gain the skills you need to effectively deploy Lync Server 2010 and be on your way to gaining all the benefits UC has to offer Gets you up and running with Lync Server whether you are migrating from Office Communications Server or new to Lync Server Walks you through all of the essential stages for deploying Lync Server Shows integration with Microsoft Exchange Server and Microsoft SharePoint Server Demonstrates how to monitor diagnose and troubleshoot problems more efficiently Mastering Lync Server 2010 is a must have resource for anyone looking to manage all the various forms of communication from one user interface

CCNP and CCIE Enterprise Core ENCOR 350-401 Study Guide - NEW and Exclusive Edition Georgio Daccache, 350 401 Implementing Cisco Enterprise Network Core Technologies ENCOR CCNP and CCIE Enterprise Core Study Guide NEW and Exclusive book Latest and Exclusive Questions Detailed Explanation and References Achieve success in your 350 401 Implementing Cisco Enterprise Network Core Technologies ENCOR Exam on the first try with our new and exclusive preparation book This comprehensive book is designed to help you test your knowledge providing a collection of the latest and exclusive questions with detailed explanations and references Save both time and money by investing in this book which covers all the topics included in the 350 401 Implementing Cisco Enterprise Network Core Technologies ENCOR exam The 350 401 exam also known as Implementing Cisco Enterprise Network Core Technologies ENCOR is a core exam for the CCNP Enterprise certification Remember this Exam also serves as the new CCIE Enterprise written qualification exam It tests your knowledge and skills in implementing core enterprise network technologies including dual stack IPv4 and IPv6 architecture virtualization infrastructure network assurance security and automation Passing the 350 401 exam along with one concentration exam of your choice earns you the CCNP Enterprise certification This book features two complete practice tests each containing 120 unique and new questions totaling 240 questions It also includes detailed explanations for each question as well as official references Welcome

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