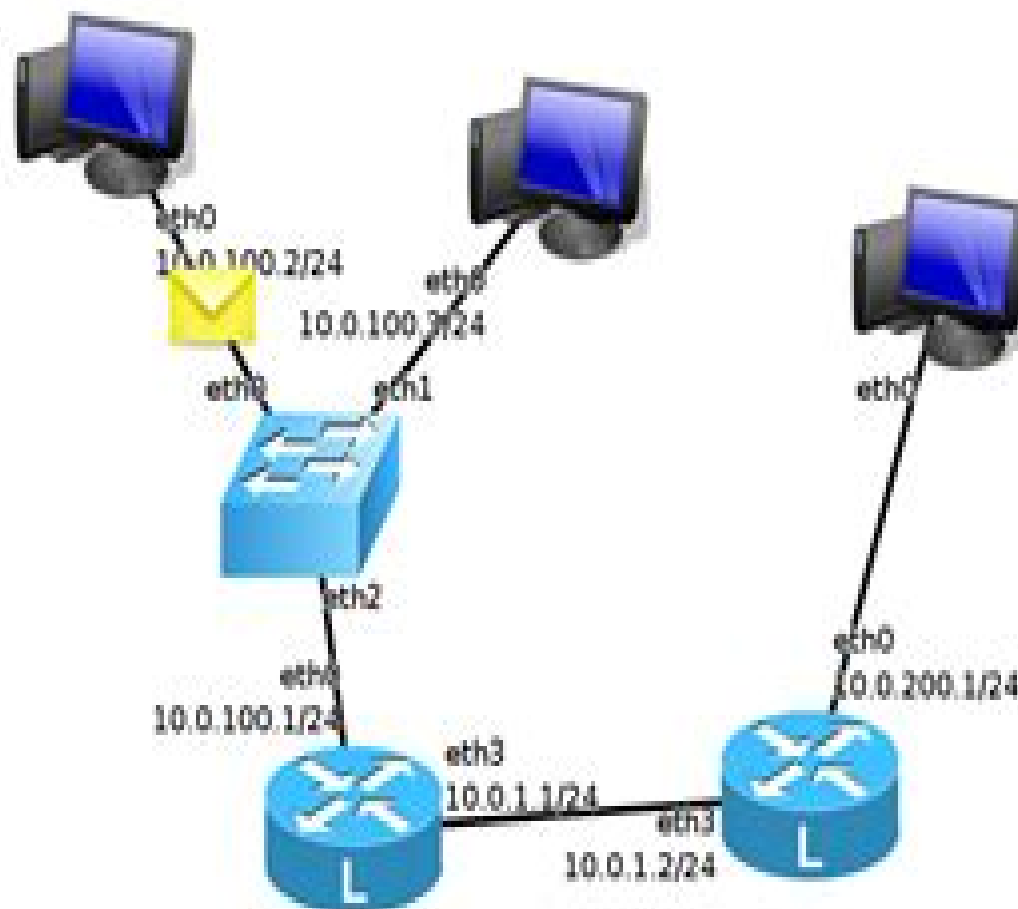


File Edit View Options Help



Connect / Save / Load



Connection status: Connected

Play controls



Speed:

Slow Medium Fast

☒ Sequentially

☐ By timestamps


Event list

Time (s)	From	To	Type	Info
0.413	pc0	switch0	APP	
0.414	switch0	pc1	APP	
0.415	switch0	router0	APP	
0.416	pc1	switch0	APP	
0.417	switch0	pc0	APP	
0.419	pc0	switch0	ICMP	
0.421	switch0	pc1	ICMP	
0.423	pc1	switch0	ICMP	
0.424	switch0	pc0	ICMP	
1.416	pc0	switch0	ICMP	

Delete events

Selected packet details

Time: 0.413 Type: APP  
 From: pc0:eth0 To: switch0:eth0  
 --- Ethernet --- Size: 52  
 Src: 08:00:17:10:00:07 dst: ff:ff:ff:ff:ff:ff  
 --- APP APP PROTOCOL ---  
 Sender: 08:00:17:10:00:07 10.0.100.2  
 Target: 00:00:00:00:00:00 10.0.100.1

# Computer Network Simulator

**Klaus Wehrle, Mesut Gunes, James  
Gross**



## Computer Network Simulator

Computer Network Simulation Using NS2 Ajit Kumar Nayak, Satyananda Champati Rai, Rajib Mall, 2016-08-19 Computer Network Simulations Using NS2 provides a solid foundation of computer networking knowledge and skills covering everything from simple operating system commands to the analysis of complex network performance metrics. The book begins with a discussion of the evolution of data communication techniques and the fundamental issues associated with performance evaluation. After presenting a preliminary overview of simulation and other performance evaluation techniques, the authors describe a number of computer network protocols and TCP/IP and OSI models, highlighting the networking devices used. Explain a socket and its use in network programming, fostering the development of network applications using C and socket API. Introduce the NS2 network simulator, exhibiting its internal architecture, constituent software packages, and installation in different operating systems. Delve into simulation using NS2, elaborating on the use of Tcl and OTcl scripts as well as AWK scripting and plotting with Gnuplot. Show how to simulate wired and wireless network protocols step by step, layer by layer. Explore the idea of simulating very large networks, identifying the challenges associated with measuring and graphing the various network parameters. Include nearly 90 example programs, scripts, and outputs along with several exercises requiring application of the theory and programming. Computer Network Simulations Using NS2 emphasizes the implementation and simulation of real-world computer network protocols, affording readers with valuable opportunities for hands-on practice while instilling a deeper understanding of how computer network protocols work.

Packet Tracer Network Simulator Jesin A, 2014-01-17 A practical, fast-paced guide that gives you all the information you need to successfully create networks and simulate them using Packet Tracer. Packet Tracer Network Simulator is aimed at students, instructors, and network administrators who wish to use this simulator to learn how to perform networking instead of investing in expensive specialized hardware. This book assumes that you have a good amount of Cisco networking knowledge and it will focus more on Packet Tracer rather than networking.

**Network Simulation** Richard M. Fujimoto, Kalyan S. Perumalla, George F. Riley, 2007 Network Simulation presents a detailed introduction to the design, implementation, and use of network simulation tools. Discussion topics include the requirements and issues faced for simulator design and use in wired networks, wireless networks, distributed simulation environments, and fluid model abstractions. Several existing simulations are given as examples with details regarding design decisions and why those decisions were made. Issues regarding performance and scalability are discussed in detail, describing how one can utilize distributed simulation methods to increase the

*The Practical OPNET User Guide for Computer Network Simulation* Adarshpal S. Sethi, Vasil Y. Hnatyshin, 2012-08-24 One of the first books to provide a comprehensive description of OPNET IT Guru and Modeler software. The Practical OPNET User Guide for Computer Network Simulation explains how to use this software for simulating and modeling computer networks. The included laboratory projects help readers learn different aspects of the software in a hands-on way. Q

**Introduction to Network Simulator NS2** Teerawat Issariyakul, Ekram Hossain, 2011-12-02 Introduction to Network Simulator NS2 is a primer providing materials for NS2 beginners whether students professors or researchers for understanding the architecture of Network Simulator 2 NS2 and for incorporating simulation modules into NS2 The authors discuss the simulation architecture and the key components of NS2 including simulation related objects network objects packet related objects and helper objects The NS2 modules included within are nodes links SimpleLink objects packets agents and applications Further the book covers three helper modules timers random number generators and error models Also included are chapters on summary of debugging variable and packet tracing result compilation and examples for extending NS2 Two appendices provide the details of scripting language Tcl OTcl and AWK as well object oriented programming used extensively in NS2

*Simulation in Computer Network Design and Modeling: Use and Analysis* Al-Bahadili, Hussein, 2012-02-29 This book reviews methodologies in computer network simulation and modeling illustrates the benefits of simulation in computer networks design modeling and analysis and identifies the main issues that face efficient and effective computer network simulation Provided by publisher

**Computer Network Simulation in Ns2** Neeraj Bhargava, Pramod Singh Rathore, Dr Ritu Bhargava, Abhishek Kumar, 2019-12-24 Learn to design the Mobile Ad hoc Networks DESCRIPTION Network Simulation is the most sought after research field and it has now become an integral part of many research projects like commercial applications and academic research The networking and communications domain ranges from finding friends on social networking sites to medical diagnosis to smart cities implementation and even satellite processing In this book we have made an honest effort to make the concepts of network simulation easy all the basics programs are explained in an easy and simple manner in the NS2 simulator right from the installation part As the real time application of networking and communications is endless the basic concepts and algorithms are discussed using the NS2 simulator so that everyone from graduate students to researchers can benefit from this book KEY FEATURES Installing NS2 and running simple examples Creating and incorporating the network module All the built in NS2 modules are explained in a comprehensive manner Details of Network Animator NAM and Xgraph Simple language crystal clear approach and a straightforward comprehensible presentation The concepts are duly supported by several examples WHAT WILL YOU LEARN Readers will get to know a conspicuous difference of how NS2 is being utilized as a product device in research and business applications Today applying network simulations does not require a PhD Nonetheless there are a couple of assets out there that completely cover all the essential parts of actualizing networking and communications without expecting you to take the advanced math courses We believe that this book will help any individual who needs to apply network simulation without studying years of analytics calculus math and probability hypothesis WHO THIS BOOK IS FOR The book is basically meant for all those graduate and research students who find the algorithms and protocols of networking and communications difficult to implement In this book all basic protocols of networking and simulation are discussed in detail with a practical approach Primarily beginners can find this book more effective as the chapters are sub divided in such a way that they will find building and implementing algorithms in NS2 interesting and easy Table of Contents 1 Introduction to Network Simulation 2 Tool Command Language 3 Writing and Executing a TCL Scripting with NS2 4 Practical Examples for Wired Program in NS2 5 Mobile Networking in NS2

**Network Simulation Experiments Manual** Emad Aboelela, 2007-12-05 Network Simulation Experiments Manual Second Edition enables networking professional to visualize how networks work by providing free access to easy to install OPNET software This software provides a virtual environment for modeling analyzing and predicting the performance of IT infrastructures including applications servers and networking technologies The book also goes a step further by providing detailed experiments on core networking topologies for use in this simulation environment Each experiment is also accompanied by review questions a lab report and exercises This book is recommended for graduate students and networking designers and professionals Useful experimentation for professionals in the workplace who are interested in learning and demonstrating the capability of evaluating different commercial networking products The experiments in this manual are closely tied to Peterson Davie Computer Networks fourth edition a best selling Morgan Kaufmann title making it a perfect companion book

*Modeling and Simulation of Computer Networks and Systems* Faouzi Zarai, Petros Nicopolitidis, 2015-04-21 Modeling and Simulation of Computer Networks and Systems Methodologies and Applications introduces you to a broad array of modeling and simulation issues related to computer networks and systems It focuses on the theories tools applications and uses of modeling and simulation in order to effectively optimize networks It describes methodologies for modeling and simulation of new generations of wireless and mobiles networks and cloud and grid computing systems Drawing upon years of practical experience and using numerous examples and illustrative applications recognized experts in both academia and industry discuss Important and emerging topics in computer networks and systems including but not limited to modeling simulation analysis and security of wireless and mobiles networks especially as they relate to next generation wireless networks Methodologies strategies and tools and strategies needed to build computer networks and systems modeling and simulation from the bottom up Different network performance metrics including mobility congestion quality of service security and more Modeling and Simulation of Computer Networks and Systems is a must have resource for network architects engineers and researchers who want to gain insight into optimizing network performance through the use of modeling and simulation Discusses important and emerging topics in computer networks and Systems including but not limited to modeling simulation analysis and security of wireless and mobiles networks especially as they relate to next generation wireless networks Provides the necessary methodologies strategies and tools needed to build computer networks and systems modeling and simulation from the bottom up Includes comprehensive review and evaluation of simulation tools and methodologies and different network performance metrics including mobility congestion quality of service security and more

Modeling and Tools for Network Simulation Klaus Wehrle, Mesut Günes, James Gross, 2010-09-22 A crucial step during the design and engineering of communication systems is the estimation of their performance and behavior especially for mathematically complex or highly dynamic systems network simulation is particularly useful This book focuses on tools modeling principles and state of the art models for discrete event based network simulations the standard method applied today in academia and industry for performance evaluation of new network designs and architectures The focus of the tools part is on two distinct simulations engines OmNet and ns 3 while it also deals with issues like parallelization software integration and hardware simulations The parts dealing with modeling and models for network simulations are split into a wireless section and a section dealing with higher layers The wireless section covers all essential modeling principles for dealing with physical layer link layer and wireless channel behavior In addition detailed models for prominent wireless systems like IEEE 802 11 and IEEE 802 16 are presented In the part on higher layers classical modeling approaches for the network layer the transport layer and the application layer are presented in addition to modeling approaches for peer to peer networks and topologies of networks The modeling parts are accompanied with catalogues of model implementations for a large set of different simulation engines The book is aimed at master students and PhD students of computer science and electrical engineering as well as at researchers and practitioners from academia and industry that are dealing with network simulation at any layer of the protocol stack

*Network Simulation* Richard Fujimoto, Kalyan Perumalla, George Riley, 2022-05-31 A detailed introduction to the design implementation and use of network simulation tools is presented The requirements and issues faced in the design of simulators for wired and wireless networks are discussed Abstractions such as packet and fluid level network models are covered Several existing simulations are given as examples with details and rationales regarding design decisions presented Issues regarding performance and scalability are discussed in detail describing how one can utilize distributed simulation methods to increase the scale and performance of a simulation environment Finally a case study of two simulation tools is presented that have been developed using distributed simulation techniques This text is essential to any student researcher or network architect desiring a detailed understanding of how network simulation tools are designed implemented and used

**Advanced Network Simulations Simplified** Dr Anil Kumar Rangiseti, 2023-04-07 Get to grips with the essential concepts and features of ns 3 using practical examples and assessments Purchase of the print or Kindle book includes a free PDF eBook Key Features Explore network simulation for development testing and evaluation activities Understand the key building blocks of simulation and evaluate network topologies Learn how to set up and evaluate wired Wi-Fi 802.11a/b/g/n/ac/ax and 4G LTE networks Book Description Network simulation is a powerful technique that uses software programs to replicate the behaviors of real networks Network simulators are programs that can predict the performance of computer networks or wireless communication networks This book is your hands on guide to ns 3 a script based simulator that allows for learning experimenting and evaluating wired wireless 802.11a/b/g/n/ac/ax and 4G long term evolution LTE networks quickly and at low cost You'll begin by learning how to install and use ns 3 along with exploring its key features such as building blocks for creating a variety of wired or wireless network topologies installing suitable protocols and applications identifying and resolving networking issues and systematically evaluating network performance As you make progress you'll gain a clear understanding of simulation errors exceptions and abrupt events You'll also discover how to set up and evaluate Ethernet Wi-Fi 802.11n/ac/ax LANs ad hoc and LTE networks The concluding chapters discuss LTE advanced topics such as capacity planning site surveys radio resources mobility management and interference handling By the end of this simulation book you'll be able to use ns 3 to implement analyze debug and evaluate the performance of wired or wireless networks as well as setting up custom test scenarios What you will learn Get to grips with the installation of ns 3 for learning and research Explore ns 3 logging debugging tracing and evaluation on networks Discover various wired wireless and ad hoc networks Understand the set up using Wi-Fi protocols placement and mobility models Find out how to set up advanced Wi-Fi technologies such as 802.11n/ac/ax features Explore LTE basics advanced network features and research activities Who this book is for This book is primarily for network engineers networking researchers and undergraduates Postgraduate students researchers and professors interested in network simulations will also find this book useful A basic understanding of network simulation technology will be helpful in grasping the topics present in this book

**NS Simulator for Beginners** Eitan Altman, Tania Jiménez, 2012-01-01 NS 2 is an open source discrete event network simulator which is widely used by both the research community as well as by the people involved in the standardization protocols of IETF The goal of this book is twofold on one hand to learn how to use the NS 2 simulator and on the other hand to become acquainted with and to understand the operation of some of the simulated objects using NS 2 simulations The book is intended to help students engineers or researchers who need not have much background in programming or who want to learn through simple examples how to analyse some simulated objects using NS 2 Simulations may differ from each other in many aspects the applications topologies parameters of network objects links nodes and protocols used etc The first chapter is a general introduction to the book where the importance of NS 2 as a tool for a good comprehension of networks and protocols is stated In the next chapters we present special topics as TCP RED etc using NS 2 as a tool for better understanding the protocols We provide in the appendices a review of Random Variables and Confidence Intervals as well as a first sketch for using the new NS 3 simulator Table of Contents Introduction NS 2 Simulator Preliminaries How to work with trace files Description and simulation of TCP/IP Routing and network dynamics RED Random Early Discard Differentiated Services Mobile Networks and Wireless Local Area Networks Classical queueing models Tcl and C linkage

**CCNA 640-802 Network Simulator** Wendell Odom, 2011-12-23 The most effective router and switch simulator for hands on CCNA skills enhancement Includes 300 labs 8 different lab topologies and more than 3 000 hands on tasks CCNA 640 802 Network Simulator Second Edition helps you develop and improve hands on configuration and troubleshooting skills without the investment in expensive lab hardware This state of the art interactive simulation software enables you to practice your networking skills with more than 300 structured labs designed to help you learn by doing the most effective method of learning The labs are divided into four different types 183 skill builder labs which help you practice short focused configuration tasks 47 complex configuration scenarios which present realistic multi layered configuration tasks 20 challenging troubleshooting scenarios which provide you with an opportunity to test your problem identification and resolution skills and 50 subnetting exercises which help you improve the speed and accuracy of your subnetting calculations Experience realistic network device response as you work through each of the labs which include detailed instructions topology diagrams hints and full answers Unlike other simulators on the market the lab scenarios included in the CCNA 640 802 Network Simulator are far more complex challenging you to learn how to perform realistic network configuration and troubleshooting tasks This unique network simulation software helps you master the hands on skills needed to succeed on the CCNA exam Topics covered include Router and switch navigation and administration LAN switching IP addressing Subnetting Routing WANs VLANs and trunking IP routing protocols Scaling IP Troubleshooting Minimum System Requirements 500 MHz processor 512 MB RAM 1 GB recommended 500 MB hard drive space 32 bit true color monitor 1024x768 resolution Microsoft Windows XP Professional with SP3 Microsoft Vista Windows 7 or Mac OS X Version 10 4 11 10 5 10 6 or 10 7 Java Runtime Environment JRE version 1 5 0 Adobe Acrobat Reader 8 0 Connection to the Internet during installation for access code validation

**Wireless Network Simulation** Henry Zárate Ceballos, Jorge Ernesto Parra Amaris, Hernan Jiménez Jiménez, Diego Alexis Romero Rincón, Oscar Agudelo Rojas, Jorge Eduardo Ortiz Triviño, 2021-05-11 Learn to run your own simulation by working with model analysis mathematical background simulation output data and most importantly a network simulator for wireless technology This book introduces the best practices of simulator use the techniques for analyzing simulations with artificial agents and the integration with other technologies such as Power Line Communications PLC Network simulation is a key technique used to test the future behavior of a network It s a vital development component for the development of 5G IoT wireless sensor networks and many more This book explains the scope and evolution of the technology that has led to the development of dynamic systems such as Internet of Things and fog computing You II focus on the ad hoc networks with stochastic behavior and dynamic nature and the ns 3 simulator These are useful open source tools for academics researchers students and engineers to deploy telecommunications experiments proofs and new scenarios with a high degree of similarity with reality You II also benefit from a detailed explanation of the examples and the theoretical components needed to deploy wireless simulations or wired if necessary What You II Learn Review best practices of simulator uses Understand techniques for analyzing simulations with artificial agents Apply simulation techniques and experiment design Program on ns 3 simulator Analyze simulation results Create new modules or protocols for wired and wireless networks Who This Book Is For Undergraduate and postgraduate students researchers and professors interested in network simulations This book also includes theoretical components about simulation which are useful for those interested in discrete event simulation DES general theory of simulation wireless simulation and ns 3 simulator



**Simulation Technologies in Networking and Communications** Al-Sakib Khan Pathan,Muhammad Mostafa Monowar,Shafiullah Khan,2014-11-06 Simulation is a widely used mechanism for validating the theoretical model of networking or communication systems Although the claims made based on simulations are considered to be reliable how reliable they really are is best determined with real world implementation trials This book addresses various issues covering different mechanisms related to simulation technologies in networking and communications fields Focusing on the practice of simulation testing instead of the theory it reviews and evaluates popular simulation modeling tools and recommends the best tools for specific tests

**An Introduction to Network Simulator 3** Jack L. Burbank,2014-04-07 An Introduction to Network Simulator 3 offers a thorough practical discussion of the latest open source network simulator NS 3 Written by industry experts including the creator of NS 3 the book presents a comprehensive overview of the capabilities of NS 3 then goes on to provide clear easy to use operating instructions for it complete with numerous practical examples It also describes how the NS 3 evolved discussing the differences between available network simulators both commercial OTS and open source software A must have desk reference for practicing network designers and network architects

**Modeling and Tools for Network Simulation** Klaus Wehrle,Mesut Gunes,James Gross,2016-05-01 This book offers tools modeling principles and state of the art simulation models for discrete event based network simulations Wired and wireless networks and tools are each addressed in separate sections and a variety of simulation engines are included

Computer Network Simulator John L. Redding,NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER BETHESDA MD.,1971 A model for a network of computers has been developed and a simulation program has been produced A network of computers consists of two or more computer systems which communicate with each other and which may have their own family of remote terminals and may be but are not necessarily geographically separated The computer located at each node of the network is characterized by its multiprogramming capability the amount of main storage available the number of I O channels available and its job stream The job stream is described by a set of probability distributions The network itself is described by the node connections An algorithm is given to determine whether all the nodes of the network form a connected graph A dynamic routing algorithm is given to determine the route which a message should traverse in a non fully connected network for a computer to computer communication The simulator facilitates the analysis of tradeoffs between centralized and distributed data bases the study of network performance and communication line and data bank utilization The solution of a sample problem is included Author

*How to Write a Perfect Network Simulator - 3 Program (NS - 3)* Na Vikraman,2019-12-19 This course provides students with hands on training regarding the design troubleshooting modeling and evaluation of computer networks In this course students are going to experiment in a real test bed networking environment and learn about network design and troubleshooting topics and tools such as Node Creation Data Traffic Mobile Node Position Movement Generation Traffic File Analysis Protocol Comparision Energy Model Random Traffic Creation in NS 3 Software

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