

# Basics of OPNET IT Guru Academic Edition

## OBJECTIVES

This lab teaches you the basics of using OPNET IT Guru Academic Edition. OPNET IT Guru Academic Edition enables students to better understand the core concepts of networking and equips them to effectively troubleshoot and manage real-world network infrastructures.

## OVERVIEW

OPNET's IT Guru provides a virtual network environment that models the behavior of your entire network, including its routers, switches, protocols, servers, and individual applications. By working in the virtual network environment, IT managers, network and system planners, and operations staffs are empowered to diagnose difficult problems more effectively, validate changes before they are implemented, and plan for future scenarios, including growth and failure.

OPNET's Application Characterization Environment (ACE) module for IT Guru enables enterprises to identify the root cause of end-to-end application performance problems and to solve them cost-effectively by understanding the impact of changes.

In this lab, you will learn the basics of the OPNET IT Guru Academic Edition software. You will learn how to set up and run OPNET IT Guru Academic Edition. You will become familiar with some of its capabilities by running some tutorials.

The labs in this manual are implemented with OPNET IT Guru Academic Edition release 9.1.0 (Build 1999). If you want to download the software, you can visit the following site to register with OPNET technology: [www.opnet.com/university\\_program/itguru\\_academic\\_edition/](http://www.opnet.com/university_program/itguru_academic_edition/)

Recommended system configuration, platform, and software:

- 1.5-GHz processor or higher, 512-MB to 2-GB RAM, and 1-GB disk space
- Display: 1024 × 768 or higher resolution, 256 or more colors
- Adobe Acrobat Reader
- The English-language versions of the following operating systems are supported:
  - Microsoft Windows NT (Service Pack 3, 5, or 6a)
  - Windows 2000 (Service Pack 1, 2, and 4 are supported but not required)
  - Windows XP (Service Pack 1 or 2 is required)
  - Windows Vista (Service Pack 1 is required)

# Opnet It Guru Academic Edition Tutorial

**Kathleen Armour**



## **Opnet It Guru Academic Edition Tutorial:**

*Network Simulation Experiments Manual* Emad Aboelela, 2011-04-13 *Network Simulation Experiments Manual Third Edition* is a practical tool containing detailed simulation based experiments to help students and professionals learn about key concepts in computer networking. It allows the networking professional to visualize how computer networks work with the aid of a software tool called OPNET to simulate network function. OPNET provides a virtual environment for modeling analyzing and predicting the performance of IT infrastructures including applications servers and networking technologies. It can be downloaded free of charge and is easy to install. The book's simulation approach provides a virtual environment for a wide range of desirable features such as modeling a network based on specified criteria and analyzing its performance under different scenarios. The experiments include the basics of using OPNET IT Guru Academic Edition operation of the Ethernet network partitioning of a physical network into separate logical networks using virtual local area networks VLANs and the basics of network design. Also covered are congestion control algorithms implemented by the Transmission Control Protocol TCP the effects of various queuing disciplines on packet delivery and delay for different services and the role of firewalls and virtual private networks VPNs in providing security to shared public networks. Each experiment in this updated edition is accompanied by review questions a lab report and exercises. Networking designers and professionals as well as graduate students will find this manual extremely helpful. Updated and expanded by an instructor who has used OPNET simulation tools in his classroom for numerous demonstrations and real world scenarios. Software download based on an award winning product made by OPNET Technologies Inc whose software is used by thousands of commercial and government organizations worldwide and by over 500 universities. Useful experimentation for professionals in the workplace who are interested in learning and demonstrating the capability of evaluating different commercial networking products i.e. Cisco routers. Covers the core networking topologies and includes assignments on Switched LANs Network Design CSMA RIP TCP Queuing Disciplines Web Caching etc.

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. *Методы расчета показателей производительности сетей ЭВМ с неоднородным трафиком* А. Коннов, Ю. Ушаков, 2016-07-31

**Networking and Telecommunications: Concepts, Methodologies, Tools, and Applications** Management Association, Information Resources, 2010-01-31 This multiple volume publication exhibits the most up to date collection of research results and recent discoveries in the transfer of knowledge access across the globe. Provided by publisher. *Network World*, 2003-01-27 For more than 20 years Network World has been the premier provider of information intelligence and insight for network and IT executives responsible for the digital nervous systems of large organizations. Readers are responsible for designing implementing and managing the voice

data and video systems their companies use to support everything from business critical applications to employee collaboration and electronic commerce      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 Quickly Locate Instructions for Performing a Task The book begins with a systematic introduction to the basic features of OPNET which are necessary for performing any network simulation The remainder of the text describes how to work with various protocol layers using a top down approach Every chapter explains the relevant OPNET features and includes step by step instructions on how to use the features during a network simulation Gain a Better Understanding of the Whats and Whys of the Simulations Each laboratory project in the back of the book presents a complete simulation and reflects the same progression of topics found in the main text The projects describe the overall goals of the experiment discuss the general network topology and give a high level description of the system configuration required to complete the simulation Discover the Complex Functionality Available in OPNET By providing an in depth look at the rich features of OPNET software this guide is an invaluable reference for IT professionals and researchers who need to create simulation models The book also helps newcomers understand OPNET by organizing the material in a logical manner that corresponds to the protocol layers in a network

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