

Teaching Computer Networking Fundamentals Using Practical Laboratory Exercises

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Abstract—Motivating students to learn computer networking concepts is often difficult because many students find the subject rather technical, dry, and boring. To overcome this problem, the author has prepared some practical laboratory exercises (practicals) and other materials. They are designed around a network operating system and a multiuser, multitasking operating system and are suitable for classroom use in undergraduate computer networking courses. The effectiveness of these practicals has been evaluated both formally by students and informally in discussion within the teaching team. The implementation of the practicals was judged to be successful because of the positive student feedback and also because students scored better in the final exam. This paper describes the practicals, their overall effectiveness, and plans for further projects. The impact of practicals on student learning and comprehension is also discussed.

Index Terms—Computer networking education, Linux, NetWare, server-based networking, Transmission control protocol/Internet protocol (TCP/IP).

I. INTRODUCTION

COMPUTER networking is often included as a subject in computer science, engineering, and business courses because computer networks are a fundamental component of information technology (IT) systems today.

The author strongly believes that students learn more effectively from courses that provide for involvement in practical activities, e.g., setting up a customized network, installing and configuring a server, assigning user rights to files and directories, writing and testing login scripts, etc. This view is extensively supported in the literature [1]–[3], [5]–[9]. Yet, only a limited amount of material designed to supplement the teaching of computer networking is publicly available, as searches of the Computer Science Teaching Center [4] and Special Interest Group in Computer Science Education (SIGCSE) Education Links sites reveal.¹

Therefore, the author has prepared some practical laboratory exercises (practicals) and other material that facilitate an interactive approach to teaching and learning computer networking. These practicals are designed around two operating systems: 1) a network operating system, Novell NetWare 5.1 [10], and 2) an open-source multiuser and multitasking operating system, Red Hat Linux [11]. The practicals can be used either in the

classroom as a demonstration to enhance the lecture environment or in the computer laboratory to provide practice at an introductory level.

Computer networking is described in many textbooks [12], [13], and commercial local area network (LAN) design strategy is discussed extensively in the computer networking literature [14], [15]. A number of sophisticated network simulators exist for building a variety of network models [16]–[20]. Nevertheless, by setting up and configuring actual computer networks, the students gain first-hand experience that cannot be gained through computer simulation and modeling. To date, the author has focused on developing practicals to support teaching a traditional computer networking course at the undergraduate level (second year). Such a practical learning approach to teaching and learning computer networking has been successfully applied for two years now in the Networking and Telecommunications undergraduate course (computer and information sciences curriculum) at the Auckland University of Technology (AUT), Auckland, New Zealand. The course covers various aspects of computer networking, including server hardware and software, LAN administration and management, and transmission control protocol/Internet protocol (TCP/IP) networking. The practicals and other materials are revised annually, and the use of the latest version is discussed in this paper.

The main contribution and strength of this paper is the emphasis that practical experience with server hardware and software is crucial to effective student learning. The most innovative aspect of this paper is the structuring of the laboratories and crafting of the specific exercises to be effective in complementing the lecture content of the course. The course context in which the practicals are presented is described next.

II. COURSE CONTEXT: LEARNING OUTCOMES AND TOPICS DELIVERY

The networking and telecommunications in which the aforementioned practicals are introduced has a total of 56 contact hours assigned. This course is at Level 6 or second-year degree level (one quarter of a full semester's course of study) at AUT [21], [22]. The Level 5 Programming I is the prerequisite for this course. The course goal is to produce graduates who will be able to work for networking and telecommunication companies worldwide.

A. Learning Outcomes

The course learning outcomes are listed below.

On completion of this course, students will be able to do the following:

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¹<http://sigcse.org/topics/>

Lab Exercises For Computer Networking Courses

Craig Van Slyke



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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 *Networking and Data Communications Laboratory Manual* Frances S. Grodzinsky,1999 Designed for any introductory networking or data communications course This laboratory manual is designed for the purpose of enhancing the understanding of concepts discussed in a variety of networks and data communications texts This manual represents a work of dedication and collaboration by faculty from universities and colleges across the country

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Education describes that market and concludes that computer assisted writing instruction is an integral part of professional writing programs with many applications yet to come It will be of primary value to educators planning managing or teaching in computer assisted writing laboratories concentrating on professional training It will also be immensely useful to educators developing beginning level writing laboratories and those individuals and companies developing software for writing instruction or textbooks for computer based courses The MCSA Training Kit ,2002 Osborne Product Differentiation The Certification Press study guides are the only self study guides based on proven classroom pedagogy This Study Guide will have more practice questions the most complete hands on simulation based training CD ROM and more step by step exercises and Lab Questions than any other competitive certification books *I-Net+ Certification Lab Guide* Randy Ratliff,2003 **Sair Linux and GNU Certification Level I, Networking** Tobin Maginnis,2000-11-30 From the Sair Linux and GNU certification team indispensable study guides for becoming a Linux Certified Administrator LCA As the popularity of Linux and GNU enterprise solutions rises rapidly worldwide IT professionals and network developers in corporations and government are increasingly expected to become Linux certified This series of study guides from the company that developed the Linux and GNU Certification Program covers the complete knowledge base necessary to pass Level I of the certification exam including networking system administration and security a fourth volume on installation and configuration is now available Each study guide covers the knowledge matrix that includes theory of operation base system shells and commands system services troubleshooting and security as well as lab exercises and sample questions from the LCA exam This book offers expert hands on guidance on the implementation and maintenance of Linux enterprise networks and how to keep them working at maximum efficiency *Mobile Computing* ,2009 This multiple volume publication advances the emergent field of mobile computing offering research on approaches observations and models pertaining to mobile devices and wireless communications from over 400 leading researchers Provided by publisher

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