# NETWORK SECURITY MANAGEMENT AUDIT AT UUM COMPUTER CENTRE

A thesis submitted to the Faculty of Information Technology in partial fulfillment of the requirements for the degree
Master of Science (Information Technology)
Universiti Utara Malaysia

by

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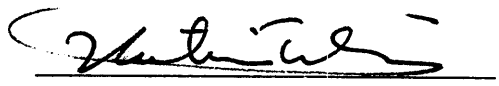
*(Signature)* : 

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# ABSTRAK

Organisasi hendaklah menilai keselamatan rangkaian meraka bagi mengenalpasti 'accountability', 'confidentiality', 'integrity', 'authority' dan juga 'authenticity'. Kaedah yang biasanya digunakan bagi tujuan ini adalah dengan menjalankan audit. Dengan menggunakan kaedah pengauditan, kajian ini cuba untuk menilai keselamatan rangkaian di Pusat Komputer UUM. Tujuan kertas kerja ini dibuat adalah untuk mengenalpasti ketidakcekapan di dalam pengurusan keselamatan rangkaian di Pusat Komputer UUM. Hasil keputusan dari pengauditan keselamatan rangkaian ini akan digunakan untuk mencadangkan penyelesaian bagi meningkatkan ketidakcekapan yang dialami. Kaedah pengauditan yang telah dipilih adalah daripada Information Protection and Security Division of University Computing Services (IP & SD UCS), dari The State University of New Jersey.

# ABSTRACT

An organization needs to evaluate its network security in order to measure the accountability, confidentiality, integrity, authority and also its authenticity. The method that is commonly used for this purpose is by conducting an audit. Using the auditing method, this research attempts to evaluate the network security at the UUM Computer Centre. The purpose of this paper is to identify the network security deficiencies at UUM Computer Centre. Results from the network security audit will then be used to recommend solution to improve those loopholes. The selected audit method is based on the Information Protection and Security Division of University Computing Services (IP & SD UCS), from The State University of New Jersey.

# ACKNOWLEDGEMENTS

I wish to acknowledge my gratitude to the Universiti Utara Malaysia, Sintok, Kedah Darul Aman for providing the facilities for this research undertaking. The same goes to my family and the members of master students, which since the inception of this study has given me their full support.

I wish to acknowledge the support of the supervisors, namely Assoc. Prof. Hatim Mohamad Tahir whose labored endlessly supervise me in time, all the way to its final reproduction.

This study would not have materialized without the cooperation and support from the UUM Computer Centre. I wish to thank all staff at UUM Computer Centre for providing the documents and assist on the audit fieldwork. The contributions to the success of this study are very much appreciated.

Finally, I pray with most thankful to Allah SWT for being most gracious in blessing this study. Without His blessing, this study would not have been possible.

Mohamad Fadli Bin Zolkipli
June, 2004

# TABLE OF CONTENTS

# LIST OF TABLES

# LIST OF FIGURES

# CHAPTER 1

# INTRODUCTION

The change in computer network and telecommunication including Internet technology and wireless networking now has enable organization and people to communicate more quickly and extensively. It has made the business or management activities more effective, easier and faster. However, one of the criteria that can not be avoided is the security aspect in order to measure the trust of computer network and information. Basically, proper and effective network security provides the following criteria:

- Accountability - proof that an intended transaction indeed took place.
- Confidentiality - protection of confidential information from an eavesdropper.
- Integrity - assurance that the information sent is the same as the information received.
- Authority - assurance that those who request data or information are authorized to do so.
- Authenticity - assurance that each party is who they say they are.

Security is a significant consideration in Local Area Network (LAN), especially in the organizational network that connected to the Internet for local or remote access. Cisco System (2001) defined Internet as a "term used to refer to the largest global internetwork, connecting hundreds of thousands of networks worldwide using the TCP/IP protocol stack". The Internet is not owned or controlled by any single entity or organizations.

The contents of the thesis is for internal user only

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