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JUDUL: A STUDY ON EFFECTIVENESS OF NETWORK MONITORING SYSTEM SOFTWARE IN LOCAL AREA NETWORK ENVIRONMENT

SESI PENGAJIAN: 2008/2009

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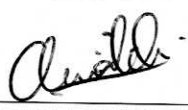

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A STUDY ON EFFECTIVENESS OF NETWORK MONITORING SYSTEM SOFTWARE IN LOCAL AREA NETWORK ENVIRONMENT

AMIRUDDIN BIN HUSIN

This report is submitted in partial fulfillment of the requirements for the Bachelor of Information and Communication Technology (Networking)

FACULTY OF INFORMATION AND COMMUNICATIONS TECHNOLOGY
UNIVERSITI TEKNIKAL MALAYSIA MELAKA
2008

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DECLARATION

I hereby declare that this project report entitled

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is written by me and is my own effort and that no part has been plagiarized without citations.

STUDENT : _____ Date: 2 DECEMBER 2008
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DEDICATION

To my beloved parents mostly my late dad, brothers, sisters and lecturers whose boundless love and support replenishes and enriches my soul during the long hours of doing and writing this PSM

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ABSTRACT

The project "A Study On Effectiveness of Network Monitoring System Software In Local Area Network Environment" is a study on selected tools to test the performance of four different software behavior. Basic knowledge about NMS application is required in order to use the software. The data or result that gather from the testing phrase using the simulator tool will be use to study on effectiveness on what factor that affect the performance of each NMS application. The four selected NMS application is OPManager, Wireshark, NetActiv PIAFCTM and IPSentry. Thus, this study will focus on features of each application such as the user friendliness, the stability, and the report features. This study also will do in two different scenario which is each application will be install a server and in a client in Local Area Network environment. The design to perform the measurement has been arranged and the tools to measure has been identify. Finally, after gather all the result during the testing, at the end will do a summary and comparison on each Network Monitoring System application. All these data can be used as a future references for all those who are interested in NMS network and can explore it into more details with the information given in this project.

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ABSTRAK

Tajuk projek "A Study On Effectiveness of Network Monitoring System Software In Local Area Network Environment" adalah satu kajian kes mengenai persembahan atau kelajuan empat aplikasi rangkaian NMS. Untuk menggunakan aplikasi-aplikasi tersebut, seseorang itu perlu memahami proses rangkaian NMS terlebih dahulu. Data-data atau keputusan yang dikumpul semasa penyukatan kelajuan aplikasi NMS dikumpul dan digunakan untuk membuat penganalisaan mengenai pencapaian setiap aplikasi rangkaian NMS tersebut. Empat aplikasi rangkaian NMS yang dipilih adalah OPManager, Wireshark, NetActiv PIAFCTM dan IPSenrty. Tambahan pula, kajian ini akan lebih kepada kelebihan setiap aplikasi seperti mesra pengguna, kestabilan, kelebihan laporan. Kajian ini juga akan di lakukan di dalam dua senario yang berbeza di mana setiap aplikasi akan di programkan di dalam server dan klien. Rekabentuk telah dibangunkan untuk membuat analisis dan simulasi yang digunakan untuk penyukatan. Akhirnya, selepas keputusan dikumpul semasa ujian, kajian ini akan membuat satu kesimpulan dan perbandingan terhadap setiap aplikasi NMS. Kesemua data yang diberi boleh dibuat sebagai rujukan untuk sesiapa yang berminat dengan aplikasi NMS dan boleh menyambung kajian ini dengan berpandukan maklumat berguna yang sedia ada ini.

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