UNIVERSITI TEKNOLOGI MARA

SYSTEM MONITORING TOOLS VERSION 2 (SMTV2): GREEN COMPUTING SMS ALERT VIA GSM MOBILE

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This thesis is submitted in fulfillment of the requirement for
Bachelor of Science (Hons.) Data Communication and Networking
Faculty of Computer and Mathematical Sciences

July 2013

ACKNOWLEDGEMENT

Alhamdulillah, praise and thank to Allah because of His Almighty and His utmost blessings, I was able to finish this research within the time duration given. Firstly, my special thanks go to my supervisor, Mdm Nurul Huda binti Nik Zulkipli, who has always given valuable advice and encouragement to me. I also would like to thank her for giving this opportunity to learn and work under guidance, which has been a memorable experience.

Special appreciation also goes to my beloved mother, because of her encouragement, knowledge and their constant prayer for me. She is the giver of my passion for the completion of this thesis and subsequently completed a degree course.

Last but not least, thanks to my friends and associated for their encouragement, criticism and support for this project.

ABSTRACT

Due to the rapid growth of industrial activities across the globe, the climate of the earth is gradually changing and contributing to global warming. IT industry has focused on the development and deployment of IT equipment and services that can meet the growing demand of business customers. Therefore, the total burden of work performed by the server is constantly increasing. Thus, we take green computing approach to deal with this problem. With a high rate of awareness about climate change, I propose a notification alert for reminding the user of the benchmark level is over the limit. If the temperature increases and exceeds the benchmark value, warning in a Short Messaging Service (SMS) will be sent directly to a technician mobile's phone for notification. We believe that by sending an alert automatically to the admin will increase admin's caution towards the server. Hence, the production of carbon dioxide gas (CO_2) released by the server is reduced.

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CHAPTER 1

INTRODUCTION

Background study of the project is discussed in this section. Moreover, it presents the research question, the project aim and objective, project scope, research significant of System Monitoring Tools Version 2 for user and problem related to the previous project.

1.1 Background of Study

One of the biggest business trends today is the computerization of green. Green computing is defined as the study and applying of designing, developing, using and disposing of computers, servers, printers, and monitors proficiently and effectively with nominal or no impact to the surroundings. (Li et al., 2011)

At present, the IT industry provides high performance but at the same time released the amount of heat that much. As a result, the temperature rise caused by emissions of carbon dioxide (CO_2) thinning the ozone layer and lead to global warming. When the concentration of carbon dioxide increases, the air temperature rises, and more water vapor evaporates into the atmosphere which then amplify the greenhouse warming. (Riebeek, 2011).

Servers running twenty-four hours every day, therefore this situation leads to global warming because the processor is running and release the total amount of heat. Therefore, cooling is one of the options that are used to help the server from becoming too hot for the current process. However, the air conditioning just absorbs heat and transfers it to the outside.