UNIVERSITI TEKNOLOGI MARA

DATABASE SYSTEM DEVELOPMENT FOR NETFLOW READABLE ATTRIBUTES

SOFIDALINY BIN JAMALUDIN

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my beloved wife my beloved sons,
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Abstract

Packet Capturing System is the most important information system in information technology industry. Owing to that, a reliable packet capturing system is needed to perform the complex tasks between the complex network devices. Packet capturing has an ability to capture data including header and payload from layer 2 to layer 7 of OSI model. This is to optimize data packet transfer and less drops during transferring between sender and receiver. As from packet capturing, data can be used in order to monitor an application for user/ISP network analysis. Some of the applications such as Network Monitoring, Network Billing and Network Security may use the captured data to expand their analysis for their network future planning. For capturing system, nProbe will be used as a tool to capture binary data across the network. By the way, data captured is an unreadable raw data and cannot be for analysis.

Therefore, as at applications, attributes of the captured data can be stored in a database system accordingly towards the user needs. By using database system, it could help ISP and the application systems in terms of managing the captured data, manipulating and storing all the significant attributes. MySQL DB will be used in this part in order to perform a data converted from binary data to readable resource data. This can be done by using Perl script at nProbe Collector system together with other related script languages. Finally, all data captured will be presented as a readable and manageable for user and Internet Service Provider (ISP).

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