ABSTRACT

Nowdays, the computer network is an important thing. A lot of jobs need the computer network for exchanging data or using hardware together. Although the computer network makes the word easier, the threat will also appear on the system so that the system can be analyzed and implemented to reduce the threat.

The potential of attack can couse the threat like the presence of unauthorized access to the datainformation but it has a weakness of security system in computer network, and a system error or a damage of the computer system because of the hacker's attack. Therefore, it is needed a system which can detect attack in real-time response.

To deal with the issue, the final project was used the Linux operating system and the product of the Intrusion Detection System (IDS) itself, namely Snort 2.9.2 (Open source) to capture and analyze the data packets. After analysis of the data packets, Snort will keep record in MySqlto fulfill the necessity of database. BASE will be used as a web view of the database which is inside MySql. Finally, a PHP script will be used to make email alert notification.

The test result of the program showed that the program can capturing the data packets, analyzing the data packets, making record to MySql, featuring a dispaly based on the user interface that is PHP from MySql, and doing alert email to the administrator.

Keywords : IDS, *Snort*, Keamanan Jaringan, MySql