Analisis Sistem Deteksi Intrusi dengan Metode Algoritma K-Nearest Neighbor Menggunakan Dataset KDDCUP99

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Abstrak
Abstract

Intrusion Detection System is a system that can detect activity filed on a system, identify access or unusual attacks to run the network. In general, intrusion detection can be done using Machine Learning techniques. In the traffic network attacks often occur, therefore more is needed to tighten security. Attack class types such as Normal, DoS, Probing, R2L, U2R. To solve the above problem, this final project proposes the development of the k-NN algorithm. Because, IDS really need effective work and get high results, therefore k-NN is proposed in this research. According to the related literature, yahoo k-NN is very simple but takes a little time to determine high yields. The evaluation results obtained from Accuracy, F1-Score, Precicison, Recall got more than the expected, which is more than 85% of several experiments using the KDDCUP99 dataset.

Keywords: ***IDS, KDDCUP99, k-NN, Dataset***