Abstract

Nowadays, internet has been part of modern life style. Therefore, it is necessary to have protection to guard internet user from malicious activities, such as building Intrusion Detection System (IDS). Almost commercial IDS are now passive which is using attack information that has been known, while new attack that hasn't been known will still attack internet user.To overcome this, this final project build IDS application with Fast winner search algorithm on Self-organizing maps and N-Gram. This application gives information about packet intrusion and accuration from detection process. From the testing process, the average accuration is 80% . The more packet intrusion and packet non-intrusion that are true detected, the better of detection accuration. Meanwhile, in fact, packet intrusion that is true detected are few, packet non-intrusion that is true detected are large. It shows that IDS application built by Fast winner search algorithm on Self-organizing maps and N-Gram is suitable for intrusion detection, but it also have some drawbacks that needs to be repaired.

Keywords : IDS, intrusion, Fast Winner Search, Self-Organizing Maps, N-Gram