

ABSTRACT

The increasing number of malware is shown in tripwire.com's "Top 5 Malware Trends on the Horizon" article, it states that malware behaviors are 2000% more aggressive in 2014. The trend of malware in the future is predicted to be more sophisticated, aggressive, and unavoidable. A new technology which has ability to analyze malware automatically is needed to resolve this issue^[9]. In this final project, the malware analysis will be done by methods of static analysis, dynamic analysis, and analysis memory using Cuckoo Sandbox which implemented on a dedicated malware analysis server. Cuckoo Sandbox is a malware analysis system that able to do all of those three analysis methods. Cuckoo Sandbox malware analysis uses sandboxing mechanisms that execute malware on a scope that is isolated from the outside network. The results of the analysis can obtain information about malware and its behavior without the risk of malware infection spreads to the outside network.

Keyword : Server, Malware, Malware Analysis, Sandboxing, Cuckoo Sandbox