Design of Tool for Digital Forensics in Virtual Environment

Abstract

Virtual Environment Forensics is the process of performing the digital forensics in virtual environment. In recent time, virtualization technology has become one of the most important and popular technologies for individuals and companies due to its many advantages like cost benefits for storage, processing and computing resources. New techniques and methods of cybercrimes against virtual environments are used by attackers. Thus there is a need for designing and developing new techniques and tools to investigate new type of cybercrimes.[1]

In this paper, the computer forensic investigations with respect to the vital role of virtual environments have been analysed. Vulnerabilities in a virtual environment and some existing forensic tools are studied. We propose design of a forensic tool to analyse the evidences left by an attacker. Further this tool will try to relate the evidences in a presentable form which can be readily used by law enforcement to lead to the final suspect.
References


Index Terms

Computer Science
Information Systems

Keywords

Digital Forensics, VirtualBox, Virtualisation, Evidence, Law