Analysis and Implementation ofIntrusion Behavior Using Honeynet

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ABSTRACT

Recently, most of the experts conduct system analysis of the network data to detect the hacker's behavior model, and then develop new intrusion detection rules and methodology for the IDS(Intrusion Detection Systsem). However, this job solely relies on the experts' capability and knowledge. It is time-consuming and cumbersome and yet often time the solution is unstable. This study describes the utilization of Honeynet structure, to analyze and detect any network intrusion and the hacker's attack behavior. This study utilizes Honeynet to collect and extract hacker's adversary behaviors. Honeynet focuses on collecting data on mostly adversary behaviors, and records detailed activities of all hacker's behaviors. Therefore, the volume of the collected data will be much smaller than randomly extracting data from any given packet from the Internet, and the results will be much cleaner. In addition, this study believes that a hacker's behavior consists of a serial of orderly alerting events. Hence, to better analyze the data, applying Episode Rules as the detecting methodology will allow us to extract much more representative signs from hackers' adversary behaviors. .

Keywords : Network Security, Intrusion Detection Systsem, Honeynet, Episode Rules

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