

A Modular Multiple Classifier System for the Detection of Intrusions in Computer Networks

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Abstract. The security of computer networks plays a strategic role in modern computer systems. In order to enforce high protection levels against threats, a number of software tools have been currently developed. Intrusion Detection Systems aim at detecting intruders who elude “first line” protection. In this paper, a pattern recognition approach to network intrusion detection based on the fusion of multiple classifiers is proposed. In particular, a modular Multiple Classifier architecture is designed, where each module detects intrusions against one of the services offered by the protected network. Each Multiple Classifier System fuses the information coming from different feature representations of the patterns of network traffic. The potentialities of classifier fusion for the development of effective intrusion detection systems are evaluated and discussed.

1. Introduction

Despite the effort devoted to protect computer networks, they are exposed to new attacks that are constantly developed. The main reason is the presence of unknown weaknesses or bugs, always contained in system and application software (McHugh et al., 2000; Proctor, 2001). Intrusion Detection Systems (IDS) are the software tools placed inside a computer network, looking for known or potential threats in network traffic and/or audit data recorded by hosts.

Two approaches to intrusion detection are currently used. One is called *misuse* detection, and is based on attack signatures, i.e., on a detailed description of the sequence of actions performed by the attacker. This approach allows the detection of intrusions perfectly matching the signatures. Their effectiveness is strictly related to the extent to which IDSs are updated with the signatures of the latest attacks developed. In principle, this problem could be solved by designing *general* signatures that capture the “root-cause” of an attack, thus allowing for the detection of all the attack variants designed to exploit the same weakness. Unfortunately, general signatures designed by security experts usually generate high volumes of “false alarms” (Proctor, 2001), i.e., normal traffic events matching an attack signature. This is currently a challenge for the development of effective IDSs, since very small false alarm rates translate to a number of false alarms greater than the number of true

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