

Bro: An Open Source Network Intrusion Detection System

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Abstract: Bro is a powerful, but largely unknown open source network intrusion detection system. Based on a sound design, Bro achieves its main goals – separating policy from mechanisms, efficient operation in high-volume networks, and withstanding attacks against itself – by using an event-driven approach. Bro contains several analyzers (e.g. protocol decoders for a variety of network protocols and a signature matching engine), which are by themselves policy-neutral but raise events as an abstraction of the underlying network activity. Based on scripts written in Bro's own powerful scripting language, the user defines event handlers to specify his environment-specific policy.

We give an overview about the design and implementation of Bro, describe our experiences with deploying it in a large-scale research environment, and present some of our extensions.

1 Introduction

Due to the enormous increase in the number of attacks seen on the Internet, network intrusion detection systems (NIDSs) are an important part of many security policies. In contrast to a *host-based* intrusion detection system, a NIDS usually taps the network at some central point, monitoring all traffic to detect malicious activity. Traditionally, two approaches to network intrusion detection are differentiated: a system using *anomaly-detection* relies on a definition of *normal* network activity and alerts if traffic deviates from this profile. Deviation is typically measured using statistics. On the other hand, *misuse-detection* systems use a library of specific attack characteristics and generate an alert whenever they locate one of them in the monitored traffic. The drawback of misuse-detection is the difficulty of recognizing previously unknown attacks. While anomaly-based NIDSs have the potential for this, they often suffer from a high number of false-alarms. The most common form of misuse detection is signature matching: the NIDS identifies an attack by recognizing a specific byte sequence within the network packets. Most commercial systems follow this approach [Jac99] as does the well-known open source software Snort [Roe99].

Taking a closer look at open source NIDSs, we notice that Snort is the only one widely deployed in real networks. It appears that most people are not aware of alternatives. This is interesting for three reasons. First, in other areas of security there usually is a variety of open source software available. Second, Snort shows some technical limitations that

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