

A Honey Pot Security Mechanism Based on Active Networks

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Abstract

With the popularity of the Internet, the computer security problem has transformed from involving one single computer into involving all computers on the Internet. Computers are attacked maliciously by novel viruses spreading over the Internet. To overcome this problem, many researchers have brought up various security mechanisms such as authentication, data encryption, antivirus systems, firewalls, and intrusion detection systems (IDS). However, none of them can resist the Denial of Service (DoS) attack and its transformations effectively. In this paper, we propose a new honey pot trap strategy for attack detection on an active network platform. It can cope with any type of DoS, including novel worm spreading.

Keyword : DoS, worm spreading, active network, computer security