

DDOS 攻击防御系统的构建与防护策略

摘 要

对DDOS攻击次数增加，原因是现代社会网络的频度增加，各种DDOS黑客不断更新，这些黑客越来越多地使用DDOS攻击。正如2000年2月，雅虎，亚马逊，CNN等被攻击事件，被刻在重大事件的历史上。由于商业竞争，报复和网络欺诈，IDC主机，商业主机，游戏服务器，聊天室，网站服务器，DNS服务器都被称为“虚拟”服务器。它是一个常见的攻击目标，所以互联网供应商长期遭受DDOS攻击，然后客户投诉，与虚拟机用户的联系，法律诉讼，商业损失，DDOS攻击问题是互联网服务供应商的事先考虑事项之一。

DDOS的表现形式主要表现为两类，一种是流量攻击，主要针对网络带宽的攻击，即大量攻击包导致网络带宽被阻塞，合法网络包无法到达主机被淹没；另一种即资源耗尽攻击，主要针对服务器主机攻击，通过大量攻击包导致主机的内存被耗尽或者CPU被内核与应用程序占光无法提供网络服务。

关键词 分布式拒绝服务攻击；流量攻击；资源消耗攻击；网络安全；

CONSTRUCTION OF DDOS DEFENSE SYSTEM AND PROTECTION STRATEGY

ABSTRACT

The increase in the number of attacks on DDOS is due to the increasing frequency of modern social networks and the constant updating of various DDOS hackers, who are increasingly using DDOS attacks. Data in reports on Internet security threats to Asia and the Pacific and Japan show that most of the attacks against DDOS came from the United States, with China being the main target, accounting for 63 percent. As in February 2000, Yahoo, Amazon, CNN and other attacks were engraved in the history of major events. Due to business competition, retaliation and network fraud, IDC hosts, business hosts, game servers, chat rooms, website servers In, DNS servers are known as "virtual" servers. It is a common target of attack, so Internet providers suffer long-term DDOS attacks, and then customer complaints, contacts with virtual machine users, legal litigation, business losses, The issue of DDOS attacks is one of the pre-considerations of Internet service providers.

DDOS is mainly manifested in two forms. One is traffic attack, which is mainly aimed at network bandwidth attack. The other is the resource depletion attack, mainly aimed at the server host attack, through a large number of attack packages lead to the host memory is exhausted or the CPU is occupied by the kernel and applications can not provide network services.

KEY WORDS Distributed denial of service attacks; traffic attacks; resource consumption attacks; network securit;

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