

Research on the Application of Internet Information Monitoring Technology from the Perspective of Network Security

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Abstract: With the advent of the information age, people have achieved convenient shopping, convenient communication, convenient travel, and many new industries have emerged and developed with the development of the network. As the carrier of information storage and transmission, the security of computer network is particularly important. In recent years, information theft, telecommunications crimes and other types of cases occur frequently, causing widespread concern. From the perspective of network security, this paper summarizes the protection countermeasures of Internet information monitoring technology.

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With the wide application of computers and networks, some emerging industries are constantly developing and growing, and gradually infiltrated into people's life, study and work. Many criminals take advantage of legal and technological loopholes to obtain user information, violate personal privacy, and then obtain huge profits^[1]. Network information technology has greatly facilitated the daily life of human beings, and has also greatly changed the way of production and life of human beings. After years of evolution, the current network information also has two characteristics of open source and speed, which bring great convenience to our information release and access. But at the same time, it also poses a great threat to network security. This paper takes the Internet information monitoring technology from the perspective of network security as the starting point, and discusses how to strengthen and enhance science and technology in the era of rapid development of information to ensure the information security of Internet users.

1. Problems of Internet Information from the Perspective of Network Security

1.1 Management system issues

As the Internet is more and more attention, many units and individuals are using the Internet, greatly improving the social development environment. However, due to the lack of sufficient understanding of many users, and the lack of effective management system in the process of use, resulting in a lot of network security problems. In addition, operators for network security protection awareness is not strong enough, there are loopholes in the system, the firewall is not enough attention, these are common problems in the current network security management^[2]. At the same time, these problems have also brought opportunities to hackers, so there must be a sound management system to ensure network security.

1.2 System Vulnerability

With the development of computer network technology, the vulnerability of the system is gradually revealed, and its concealment is also increasing, which poses a serious threat to the security of the network. Network system is artificial architecture, often there

will be some defects. Among them, configuration, service, initialization and other issues are more common problems. Once these vulnerabilities exist, it will lead to the paralysis of the entire network and bring a huge threat to the security of the network. Under normal circumstances, if there is a conflict between different operating methods or system security protection software, system operation obstacles will arise, which cannot meet the operating needs of different users, and are also vulnerable to Trojan horses, viruses and hackers [3].

1.3 Hacking issues

In recent years, with the network technology, computer technology continues to progress, the activities of hackers are increasingly frequent, they use a variety of methods to attack the network. There are many ways to hack, but the most common way is to occupy network or system resources. To ensure the patency and stability of the network, it is necessary to ensure the normal operation of the network. In addition, hackers use these spam messages to occupy the entire network and block all channels, resulting in all instructions not being reflected in time, posing a great threat to the security of the entire network. Login by stealing someone else's account. At present, in order to protect the security of personal information on computer networks, authentication is generally used. Hackers obtain the user's account and password through various methods. Once successfully logged in, it will not only cause the user's personal information to be leaked, but also bring serious threats to the security of the network. Computer viruses to the normal operation of the system and network security has brought a great threat to network security. By writing and spreading viruses, criminals are likely to cause large-scale system paralysis, data destruction and information leakage in a short period of time, causing heavy losses to network users.

2. Management Approach of Internet Information Monitoring Technology from the Perspective of Network Security

2.1 Construction of Computer Information Management System

Continuously improve the computer information management system to standardize the work behavior of the staff. It is necessary to strengthen users' awareness of network security, formulate standards for the use of the network, and strengthen education, publicity and training on the network to raise users' awareness of the network.

2.2 Firewall Reinforcement Technology

Firewall is a kind of basic isolation technology, it is a kind of computer internal network and external network separation of a network technology, it can through the analysis of the accuracy of the data, and the identification of external information, to detect external network access to the internal network, so as to prevent external data from invading the internal, to the greatest extent reduce the illegal elements of the user's computer information, it is the first line of defense to ensure computer security. From the perspective of network technology, the function of computer firewall should be further improved to make up for the shortcomings of existing firewall technology, such as not being able to identify the intrusion of criminals using internal networks, and not being able to prevent attacks from other channels. By strengthening the application of firewall in log monitoring and web browsing, users in the process of using the network, firewall technology through log monitoring, will collect a large number of external network information. Therefore, it is possible to increase the firewall to implement targeted information collection in log monitoring, and to classify a large amount of information, so as to reduce the workload, improve efficiency, reduce the error rate, and more effectively prevent attacks from other channels [4]. In addition to the record monitoring function, web browsing is also another way for hackers to invade computers, with viruses and false links. Strengthening the application of firewall technology in network browsing can isolate the virus from the computer, that is, to optimize the configuration of the computer, analyze the information and data during the operation of the computer, and take sound and scientific countermeasures. Reverse monitoring and tracking of dangerous websites with viruses, strengthen firewall technology, and use firewall technology to effectively intercept viruses, thereby enhancing computer security. Users should also often learn, know the importance of firewall technology, do not often close the firewall.

2.3 Improved encryption technology

Computer information encryption technology can protect the transmission and storage of information, in the process of transmission, will not be intercepted, stolen, modified, so as to achieve a safe transmission. It can hide the correct information in the process of storage and avoid being stolen. The strength of encryption technology depends to a large extent on the complexity of the password, and also determines the security of the password. The password technology can be improved by converting the code, replacing it regularly, and higher-order forms. From the perspective of network technology, it can make up for the shortcomings

of the existing password technology and maintain the user's network environment more effectively. First of all, it is necessary to strengthen the node encryption, decrypt all nodes, and then use other passwords to encrypt, immature is that it is easy to be invaded, and in the decryption, it will continue to improve its shortcomings, making it more complex^[5]. Secondly, link data encryption is more important than node encryption. Its advantage is that it can hide the frequency and characteristics of information and avoid being used by criminals. Like node encryption, it is mainly decrypted and then encrypted, so as to ensure the transmission of information, but because its encryption is advanced, it will have a great impact on the stability of the network, so from the perspective of network technology, the encryption technology must be improved to ensure the encryption effect of the link data, so as to ensure the safe transmission of information.

Conclusion:

To sum up, with the rapid development of economy and science and technology, various industries have made great progress. At the same time, in the network environment, the application of computer technology is becoming more and more mature. From the current situation, computer technology has been widely used in all walks of life in China, and is closely related to information management. With the rapid development of network technology, computer technology is constantly updated and upgraded, but at the same time, there are a variety of network security problems, which bring many potential dangers to the network. Network information technology has penetrated into all areas of social life, it has a very important impact on people, but also change the information management and other aspects of the way of operation. However, in practical applications, due to network instability, information is likely to leak, bringing huge risks. Therefore, in order to reduce or prevent the security risks in the network, it is necessary to reasonably use computer information management technology to build a secure network environment.

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