

Application Research Of Computer Network Technology

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Abstract: With the continuous development of science and technology, computer network technology has also been developing rapidly. WeChat, micro-blog, Alipay has become an essential means of network payment in people's lives. It is getting more and more popular. In the use of network technology, the same security problem is increasingly becoming more and more important. A brief analysis and study of the application of collateral technology has important practical value.

Keywords: Computer; Network technology; Application; Research

1. Introduction

The popularization and application of computer network technology not only improves the quality of people's work, but also improves people's work efficiency, and creates more economic benefits for the society. But at the same time, compared with other technologies, network technology has a certain particularity, its openness and sharing, for many lawbreakers to provide an organic opportunity. In this way, people's interests will be greatly damaged. In the process of further development of computer network technology, we should consciously improve the idea of security protection, understand how to use defensive measures to achieve security protection of network technology by means of physical, system and firewall technology, so as to maximize the advantages of computer network. . Global interconnection and global informatization are the inevitable trend of the development of this era.

Network is an important tool to promote global informatization, and it undoubtedly becomes one of the important tools to promote the world technological revolution. From its appearance to rapid development, a fast and convenient virtual world space has been constructed for all mankind. Things have two sides. While we appreciate the achievements, the dark forces in space begin to use the tenderness and vulnerability of the Internet in the process of development as breeding grounds and constantly disturb people's production and life. "Spam" and "virus" are typical of them. They have become the "harassment" in the network and become the most attractive object of network information security. In the past, spam was mainly fraudulent, sending it out to defraud money. But with the emergence of more and more anti-spam software detection, it began to turn to "viruses and hackers" development. 2. The significance of computer network technology to the development of electronic information engineering^[1-2].

Electronic Information Engineering (EIE) establishes the electronic equipment information system by collecting, transferring and processing all kinds of information. With the continuous development of social economy, people have a deeper demand for electronic information engineering, because of its requirements for electronic information engineering also increased. Computer network technology can effectively collect, analyze and process information by means of its powerful digital computing ability, information processing ability and intelligent recognition. Therefore, its application in electronic information engineering can greatly enhance the electronic information engineering for data and information. Editing and processing capabilities. In addition, computer network technology can greatly enhance the security of communication engineering because of its confidentiality in information processing. Therefore, the application of computer network technology in electronic information engineering can greatly improve the work efficiency of electronic information engineering, enhance the security of the development of electronic information engineering, help it solve many practical problems and expand its application and development scope^[3-5].

2. Computer Network Security Issues

With more and more attention paid to the confidentiality of information, the security of electronic information technology has also received more and more attention. With the help of computer network technology, the security of electronic information engineering can be effectively enhanced. For example, with the help of computer network technology to establish a firewall to form an effective protection of electronic information engineering, and in view of some security problems in electronic information engineering, scientific and effective maintenance between the internal network and the external network, through the establishment of a security isolation

between the private network and the public network, to protect electronics. The security of information engineering. But at the same time, a variety of viruses that infringe on network security are also emerging, and more and more types. These viruses spread through a variety of means, then enter the computer, and then implant many illegal programs in the computer. Then, the information will be fed back to the sender, and when the sender opens the mail, its internal system may be infected by these viruses, and then lose some important documents and information, lawbreakers can benefit from it. Under normal circumstances, some money making information, advertising or website connection will carry a virus. And there are often viruses in e-mail, especially those malicious spam, they will maliciously destroy the internal network system. Many netizens search the Internet for a large number of e-mail addresses and sell them to advertisers, who send them to people's mailboxes. When these emails are opened, the computer becomes a relay station, constantly sending a lot of advertising messages to the outside world, which we often do not know. Because of the huge economic benefits behind these actions, the problem of computer network security has not been fundamentally solved.

The spread of computer network viruses has caused tremendous impact on the entire Internet, and also has a certain harm to people's interests. It occupies the broadband channel, makes the mail server unobstructed, and then restricts the operation speed of the entire network, and infringes on people's important documents, information and privacy. Hackers often take advantage of it, and then make the attacked network stop completely. Wilfully spread all kinds of illegal, pornographic. Information is eroding people's minds, and at the same time, it also has adverse effects on society.

3. Application of Computer Network Technology

Electronic information engineering is an engineering technology guided by computer network technology, so computer network technology is the technical basis of electronic information technology. Computer network technology and electronic information engineering penetrate and influence each other. The organic combination of them has made the rapid development and wide application of electronic information engineering. Taking WAN technology as an example, because it can connect the communication network between different cities and enterprises, it has a wide range of services. With the increasing number of users in Wan, this phenomenon has raised the requirement of bandwidth technology. With the help of computer network technology, high bandwidth optical fiber media can effectively resist the interference of external factors to ensure the quality of information transmission.

The simulation of various digital signals and the establishment of information operation mechanism are important components of electronic information engineering. The application of computer network technology in electronic information engineering has changed fundamentally. For example, TCP / IP of computer network technology defines the Internet connection method and data transmission of electronic equipment, which makes electronic equipment realize effective network connection, information and resource exchange and sharing. For example, TCP / IP covers the network interface layer, application layer, Internet layer and transport layer of the hierarchical system to achieve the transmission of computer network information control protocol, mainly responsible for gathering information and transmission of information. At present, the vast majority of electronic devices transfer resources and information through computer network technology, and the transfer of resources and information is achieved through TCP / IP protocol^[3].

4. Computer Network Technology Security Issues

Some computer networks do not make necessary predictions of security threats and risks in the process of construction, resulting in the existence of computer network security risks, hackers and network viruses in the attack of difficult to find and prevent the actual problems. In the computer interior, we need to install a firewall, which is usually installed at the junction of the internal and external network, so as to be able to analyze and filter all the information that wants to enter the computer interior, so as to achieve the purpose of protecting the computer interior network. At the same time, we also need to design computer security passwords, this technology in the field of computing network applications to make a variety of systems and external resources can be more pure, the computer security risks to reduce again. Multiple nodes can form two-hop neighbor cluster and the cluster is composed of a group of nodes with the maximum two-hop. There is no cluster head in the cluster, and the node can belong to multiple clusters. The nodes belongs to the same THS will compete for occupying one slot. To get the slot, nodes first spy the channel with F consecutive slots, and then try to occupy a slot. If multiple nodes simultaneously occupy the same slot, the access collision is generated. After it is successful access to the slots, node will transfer packet between the slot of each frame until meet the merging collision caused by relative movement. Merging collision is the collision caused by the nodes belong to different clusters while use the time slot. Literature shows that due to the movement of the nodes, throughput is decreased. In order to overcome the decline of throughput, literature proposes the VeMAC program. With the VeMAC, the slots are grouped into three disjoint groups, and three groups are respectively corres-

ponding to the positive and negative direction of the vehicle and the RSU of the vehicle movement. In this way, the problem of decrease of throughput caused by vehicle movement is effectively solved.

5. Conclusion

To sum up, computer network technology is the technical basis of electronic information technology, is the key factor to achieve its own development. With the help of computer network technology, combined with the actual situation of the development of electronic information engineering, the two have been effectively integrated to expand the scope of application of electronic information engineering, in order to promote the long-term development of electronic information engineering.

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