

Computer Network Information Security and Protection Strategy

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Abstract

With the rapid development of Internet technology, computer network has gradually entered people's daily life, even into various industries, especially for various enterprises, computer network is an indispensable technology. In this paper, according to the characteristics of computer network information security, starting from the risk problems faced by computer network information security, through the analysis and comparison of a large number of references, firstly, the concept of computer network information security is introduced. Secondly, from the risk of computer virus, malicious attacks of criminals, the risk of computer operating system, the lack of security management From five aspects of the security risk of storage equipment, this paper analyzes the risk problems faced by computer network information security. Then, it studies the protection strategies of computer network information security from four aspects: improving the computer network information security management system, strengthening the security awareness, maintaining the network security environment, and doing a good job in the firewall setting. Finally, through the conclusion This paper summarizes the positive impact of the application of protection strategy on the maintenance of computer network information security, hoping to provide effective reference for relevant workers through this study.

Keywords

Computer Network; Information Security; Protection Strategy.

1. Introduction

In recent years, with the continuous attention and attention to the computer network information security protection work in China, higher requirements are put forward for the computer network information security protection work. However, in the specific practice, the computer network information security is still facing many risk problems, which seriously affect the smooth development of the computer network information security protection work and the confidentiality of the enterprise Protection has brought bad effects, so the topic of "computer network information security and protection strategy" has become the focus of computer industry. In order to maximize the effect of computer network information security protection, we must conduct in-depth research on the problem, and give effective protection strategy, which plays a vital role in the rapid development of computer network.

2. Computer network information security

With the rapid development of Internet technology and the continuous progress of information technology, computers and Internet have entered the daily life of thousands of households. Therefore, computers and Internet have been widely promoted and popularized. At the same time, the perfect combination of computer and Internet has brought a positive impact on people's work and life style, and plays a crucial role in promoting the informatization construction of enterprises. Through the combination of computer and Internet, we can

scientifically and reasonably integrate various types of information and data, such as fund collection, staff distribution, business mining, etc. In this way, on the one hand, it is conducive to create a safe and reliable network information environment for enterprises, on the other hand, it also plays an important role in promoting enterprises to achieve year-end goals, thus playing an immeasurable role in realizing the healthy and sustainable development of enterprises. However, we should fully understand the application of computer network technology and computer network technology. The application of art is a double-edged sword, which has both positive and negative aspects. The positive side is shown in the following aspects: first, the application of computer network technology can effectively enrich people's access to information to a certain extent. Second, the application of computer network technology plays an important role in the effective sharing and exchange of information. The negative side is mainly manifested in the following aspects: first, due to the malicious attacks of hackers and other illegal elements, a series of security risks appear in the confidential data information in the computer network, resulting in the loss or leakage of computer network information. Second, due to the lack of security management of computer network information, there are potential security risks in computer network information. Once the important data information of an enterprise is leaked, it may bring economic losses to the enterprise, thus bringing fatal impact to the development of the enterprise. Therefore, in all fields of society, we should pay full attention to the development of computer network information security protection work. By analyzing and studying the risk problems faced by computer network information security, we can formulate effective protection measures to strengthen the protection of computer network information. On the one hand, we can reduce the security of computer network information to the greatest extent. Risk, on the other hand, in order to ensure the normal, safe and stable application of computer network information security technology plays an immeasurable role, so as to achieve the safe transportation and storage of computer network information plays a positive role in promoting[1].

3. The risk of computer network information security

With the rapid development of computer network information technology, the protection effect of computer network information security has been significantly improved. However, computer network information security is still facing many risk problems. In order to deepen the understanding and understanding of these risk problems, next, from the following aspects, the risk problems faced by computer network information security are introduced in detail Shao.

3.1. Computer virus

Usually, computer virus is the most common risk problem faced by computer network information security. Computer virus, as the name implies, refers to a certain program of the computer, which is not a biological virus. These viruses usually exist in the user's use documents, such as the software installation package, pictures, animation, etc. downloaded from an official website, may be carried Computer viruses. Once the computer virus, it will lead to computer card problem, even leak important files or lose important information and data. More seriously, it may also lead to computer hardware damage, which seriously affects the normal, safe and stable use of the computer, and brings great economic losses to enterprises or individuals. In a word, computer viruses have brought great security risks to important files and data information of computer networks. Therefore, the solution and protection of this problem must arouse the attention of relevant staff[2].

3.2. Malicious attacks by hackers

In addition to computer virus risk, computer network information security is also faced with malicious attacks by hackers. Because the computer network is open to the outside world, anyone can enter the network environment through the Internet. At the same time, the information of computer network is easy to be intercepted by criminals in the process of transmission, so hackers can take advantage of it. By using illegal technical means, hackers can obtain the user's account number, password and other private information, which may involve the user's property security, thus bringing unnecessary economic losses to the user, and thus burying a great security risk to the computer network information security. It can be seen that the malicious attacks of hackers have brought a great threat to the security of computer network information. Therefore, the relevant staff must take feasible protection strategies to strengthen the prevention of this risk problem[3].

3.3. Problems brought by computer operating system

Usually, the computer operating system plays an important role in the normal, safe and stable operation of the computer. Therefore, once the computer operating system has problems, it will bring great risk to the computer network information security. In recent years, most of the operating systems used by computers are windows operating system produced by Microsoft company of the United States. In the actual use of this computer operating system, there are often great security loopholes. Some hackers use the security loopholes of the operating system to obtain the information of computer equipment by using illegal technical means, so as to give the computer network information security has caused a serious leak of secrets. In addition, since the operating system used in our country's computers is produced by Microsoft company of the United States, the United States can easily obtain some confidential information of our country through the use of computer operating system, such as military information, financial information and so on. In this case, in order to avoid the United States from stealing important information of our country, China In the process of installing the operating system, the installation of foreign computer operating system should be avoided. In recent years, China has increased the development of its own computer operating system. I believe that in the near future, China can use its own computer operating system.

3.4. Lack of safety management

Although China's computer information technology has made rapid changes and rapid development, but the corresponding maintenance and supervision system is relatively backward, did not keep up with the pace of the development of computer information technology, on the one hand, resulting in China's computer network information security management and supervision is not in place, it is difficult to form a system Comprehensive management system and supervision system, especially the lack of effective protection strategies to strengthen the effective solution of computer network information security risk problems, based on this situation, relevant staff must do a good job on the computer network information security maintenance and supervision system update, to ensure that the system update and development speed can keep up with the development of computer information technology According to the actual needs of computer network for information security, it plays an important role in formulating a more effective supervision and management system, so as to maximize the safety management level of computer network information.

3.5. Security risks of storage devices

Because the normal, safe and stable operation of computer network can not do without the storage and transmission of various information data, and the storage location of a large number of computer data is mainly concentrated in the computer internal disk or mobile storage device. When the information data is stored in the computer internal disk, once the

black guest implanted virus in the computer internal disk, it is easy to bring the information data stored in the computer internal disk Great security risks, in addition, if the use of mobile devices to store data information, there will also be a series of security risks, for example: in the process of using mobile storage devices, once the virus in the mobile device is used, it is likely to cause the whole computer network to crash due to viruses, resulting in the computer can not be used normally, thus losing Some enterprises usually store the important data information in the computer equipment. Once the computer network collapses, the computer can not run normally, which will bring great economic loss to the enterprise, thus bringing bad influence to the development of the enterprise.

4. Protection strategy of computer network information security

In order to effectively solve the problem of computer network information security, a series of effective protection strategies are proposed to greatly improve the protection quality of computer network information security. Next, from the following aspects, the protection strategy of computer network information security is introduced in detail, so as to deepen the understanding and understanding of computer network information security protection strategy[4].

4.1. Improve the computer network information security management system

Due to the perfection of computer network information security management system, the security and confidentiality of computer network information are directly affected. Therefore, in order to solve the risk problems faced by computer network information security to the maximum extent, we should strengthen the improvement of computer network information security management system. First of all, relevant staff should establish and use computer network information security Management system, according to the actual work needs, accurately divide the security responsibilities, and effectively implement these responsibilities in the work, so as to strengthen the improvement of the management system and the optimization of the management norms, so that the staff of the relevant departments can do their respective duties, do their best, and play an inestimable role in the smooth development of the protection of computer network information security, so as to better To solve the risk problem of computer network information.

4.2. Strengthen safety protection awareness

As the computer has entered the daily life of people, and has brought great convenience to people's daily life, some netizens mistaken that the computer network is not a bit risky and very safe. Therefore, there is a serious lack of awareness of Internet users' security protection. Some hackers have brought the users' Alipay accounts and passwords by illegal means, which has brought great economic benefits to netizens. Loss, in order to effectively avoid the emergence of this problem, we must strengthen the safety protection awareness of netizens. First of all, by making the netizens correctly understand the necessity of computer network information security, improve their security awareness, let them in the process of using the computer network, should be vigilant, strengthen the protection of account number and password, secondly, let the netizens in the use of computer network In the process of computer network, do not click or download unknown links or software, to maximize the safety awareness of netizens and strengthen the comprehensive protection of their own rights and interests.

4.3. Maintain network security environment

Every netizen has the obligation to maintain the security of the computer network. Once the hidden danger of the computer network information is found, it must be reported to the relevant staff in time, so that the experienced staff can take corresponding protective measures

to solve the problem. In addition, the software technology investigation department should continuously strengthen the management and supervision of the computer network information security, and strengthen the management and supervision of the computer network information security. At the same time, it is necessary to effectively manage and supervise the free Wi-Fi used in public places, so as to avoid illegal elements obtaining important data of netizens through free Wi-Fi. Therefore, strict supervision is needed to avoid the situation that users can obtain background data through free Wi-Fi.

4.4. Set up firewall

As we all know, good firewall settings can play a role in protecting computer network information. Therefore, it is necessary to strengthen the scientific and reasonable application of firewall. For universities or government units, in order to protect their own intranet, they need to effectively isolate the intranet and extranet. Therefore, universities and government units should do a good job in the setting of firewalls. To effectively avoid illegal elements through the Internet into the content of relevant institutions to steal important information, so as to protect the computer network information of universities and government departments. In addition, through the scientific and reasonable setting of firewall, it can effectively isolate Trojan horse program and other computer virus invasion, so as to effectively avoid the invasion of computer virus. In the computer network information has brought security risks. Therefore, strengthening the setting of firewall plays a vital role in ensuring the security and confidentiality of computer network information.

5. Conclusion

To sum up, with the rapid development of computer technology, more and more people pay attention to the protection of computer network information security, because whether the computer network information security protection work is carried out in place directly affects the confidentiality of company information and personal information. Therefore, in order to promote the smooth development of computer network information security protection work, on the one hand, we should pay attention to the improvement of the computer network information security management system, on the other hand, we should also do a good job in the prevention of illegal intrusion. In addition, we should also do a good job in the training of technical personnel. At the same time, we should also strengthen the supervision and do a good job in setting the firewall, which plays an immeasurable role in effectively improving the protection effect of computer network information security. Use.

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