

Providing Privacy and Security on the Internet

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ABSTRACT: Internet is an indispensable part of our life. There are a lot of applications which people use to share some post about their lives. People record all parts of their lives on internet. Is keeping all informations about our lives on internet safe? Is there any way to ensure security on internet

Keywords:

Cybersecurity; Internet; Technology

1. INTRODUCTION

Technology has advanced a lot in recent years, and this situation made our life easier in every way. It is laborless to communicate with people thanks to social media and cell phones[1]. For example, people can communicate with their friends through Facebook, Whatsapp and Instagram. In addition, people can get information about agenda through Twitter and Facebook. So people use internet for everything such as communication, following the agenda. On the other hand this situation can be a problem sometimes because people keep all their personal informations on the internet. Although there are security settings on the internet, malicious people still find a way to gain access to sensitive personal information. This situation is not just limited to personal informations. Military, government, financial, medical corporate organizations accumulate and store data on PCs and other devices[2]. An significant quota of that data can be sensitive information. This means wheter that be financial data, personal information, government data could be captured. Developing technology causes new security

vulnerabilities. People do not know how to protect themselves online. People who take advantage of this attack people's information over the internet. There have been some cyber attacks in the past. For instance a hacker group attacked Sony. In this attack the names, addresses and other personal data of about 77 million people with accounts on PlayStation Network have been stolen[3]. Gamers was anxious beacuse in this attack attackers captured their passwords, logins, addresses, email address and the rest. Can people provide security themselves on the internet? How can people ensure security on the internet? What are the ways of ensuring security on the internet? What should the founding companies of social media applications do?

2. PROBLEM STATEMENT

Cyber security is a way to provide this security. Cyber security is a way to defend computers, servers, mobile devices, networks, data and electronic servers from cyber attacks. The only purpose of cyber security is provide protection. Nowadays this protection is much needed, because technology has become a part of our lifes. So it is essential to know some types of cyber

security to provide this protection. The main objective of cyber security is to protect the data from attacks and malware. To make this happen we determine 3 goals of cyber security. Defensive the privacy information, conserving the integrity of information and controlling the obtainability of information only to approved users. These three subject practise the confidentiality, integrity, availability triad, the base of safety. This triad model aim at guide strategies for data protection in a community or company's premises. Confidentiality making guaranteed that your statistics, information, passwords is accessible to only accredited users. This also ensures that no information is disclosed. Confirming biometrics, data encryption, two or more multifactor verification can be give as examples of confidentiality methods. Integrity making guaranteed that all your iformation is accurate and it must not be changed from one fact to another. No illegal, which is violater, will have entry to delete the records, version supervisory must be nearby to control the log who has changed., appropriate backups should be procurable to return proximately, can be given as example of ensure integrity. Every time when the operator demand a resource for some of the statistics there may not be any bout notices like as Denial of Service (DoS). The evidence must be fully available. There are some steps to pursue these goals. Classification of the data according to their position and priority. In addition, keeping back safe the most significant ones at all periods. Suppressing possible threats. Designating different methods of security guards for each threat. Observing any infringing activity. In addition, conducting data in motion and data in rest. Repititive maintace and responsiveness to anything related problems. Updating methods to minimize the risk according to former considerations. In addition, there are some methods to reach these goals.

Network Security: Network to protect security aspire computer network from malicious software. Network security is a set of solutions that enable organizations to keep computer networks out of the reach of hackers, organized attackers, and malware[4].

Application Security: Application security provides some programs which are protects the system againts malware. Anti-virus programs, firewalls and encryption are example of application security.

Information Security: This type of security aim protects digital data againts exposes, extinguishment, defiling and unauthorized access[5].

Operational Security: This type of security includes decison made and processes to ensure security of data.

Cloud Security: Cloud security guard data in the cloud and observe to resolve the expectative attacks[6].

User Training: This training indicate raging viewpoints, namely individuals. Anyone can cause to get a virus into the coumpter system. Companys must teach to user to remove suspicious attachments in the email, and some other issues.

The following methods are methods that people can apply themselves to provide protection on internet, and methods that companies can apply to provide the security. The first method is using strong password. People should pick a password which is hard to estimate. In addition, passwords should not be general things. Passwords are personal, so people should not share their passwords with other people. There are a lot of fake accounts on social media. These kind of accounts try to trick people and steal their informations. People must stay away from these accounts such as account with no information, with only one a few friends. Generally these account start to send you messages and try to have a talk with you. Moreover, these account send you links to reach their purpose. There are a lot of advertisement on the internet. These advertisements can be remarkable. The only aim of these ads to click people to the ad. People should play it safe and do not click these kind of ads. Applications ask people for permissions for certain things such as camera, microphone. People must not give a permission these kind of thing until be sure. There are a lot of people who want to swindle people through social media. These people create many accounts to reach their purpose. If apps asks for people ID before register to app, this may prevent scammers. In addition, if people register with their ID, it makes easy to find them when they use social media for bad purposes. There are some advantages of all these methods. Businesses and organisations can utilize significantly by applying cyber security in their politics. Cyber security is able to do many thing. For instance, minimising security cost, protection from cyber-attacks and reducing downtime are example of what cybersecurity can do. Data has become a valuable commodity these days and data which involve personal information is high request. Hackers can reach these personal data by using malicious software, and hackers use these data to extort money and encroach the person's dignity. Cyber security can protect people's personal information in the first place. Cyber security is a full security package that can preserve informations of organisations and businesses from threats. For instance, companies must preserve their important and sensitive informations such as confidential business informations and customers'

notion. Cyber security can provide efficient protection with continuous observing and early detection. One of the most destructive effects of a cyber attack is downtime. Inopportune downtime can cause decreased productivity. Cyber security can provide an early warning and proposal on how to respond to the attack. Customers and employees want to trust that their information is under guard against cyber attacks. Businesses and organisations must invest in cyber security to provide confidence. Encrypting data, installing a firewall, creating safe passwords are some steps to provide the security. Thanks to these steps businesses and organisations can demonstrate that their information is under guard. On the other hand there are some disadvantages. Businesses and organisations must regularly update their hardware, software and security strategy to be prepared for new types of attacks. Learning process must proceed, and it should never end. This is because the threats can be new and different. Systems can get slower in the process of time, because security apps use a lot of resources. Providing the requirements of cyber security can be overcosting, by reason of it is an instant process that requires constant learning and spending. Cyber security is not a one-time thing. The systems must be constantly monitored against new threats.

3. BACKGROUND

The subject of this paper is to ensure security on the Internet. I did research using some keywords to gather information about this subject, for example, cyber security, cyber attacks, internet security. As a result of these researches, I found many articles. I have studied these articles in detail and have written the information that may be useful to my paper by passing it through my own interpretation. I also used the information I had, because I have a lot of information because I am intertwined with the internet in my daily life. I have mentioned some examples in order to better express my subject. My aim was to emphasize the importance of providing security on the internet and to explain how to do it. For this reason, after giving basic information about the subject and some solution suggestions that I researched, I presented my own solution proposal. I paid attention to the fact that it was not mentioned before while telling the solution I suggested.

4. RESULT

Cyber security procure the protection of personal information and other data. In this way, people can

provide security themselves on internet. People can use some methods to provide security. For example, people can use antivirus programs, strong password and people can avoid to click unknown ads and links. Moreover, applications can make provision for security on internet. For instance, apps can oblige to register with ID. In this way, the number of fake accounts is reduced and security is ensured.

5. CONCLUSION

All of these ideas and opinions together constitute a consistent result. Cyber security is key to protect data and other information in the internet. If people want to use internet safely, they need to have knowledge about cyber security. Cyber security has three goals. These are defensive the privacy information, conserving the integrity of information, controlling the obtainability of information only to approved users. When people supply these three goals, they can place reliance while using internet. When we are talking about cyber security we can split into some different types. For example, network security, application security, information security, cloud security, operational security can be given as examples. People can understand from this, every security situation has different solutions. How people implement cyber security? This is the question everyone is thinking. People think that it is hard to provide security. There are a lot of things which people do to protect data. For example, people can use strong imponderable passwords. This is a basic thing, but it is really significant. Also people can use some programs to avoid from malicious software. Anti-virus programs, firewalls and encryption can be given as examples of these programs. There are also some issues that people should be careful about. There are a lot of fake advertisements on internet. These fake ads look conspicuous, but these ads are just to deceive and defraud people. Also people should be careful about fake accounts. People create fake accounts on social media. Generally, these accounts have a few followers and they do not have profile photos. These accounts aim to swindle people. So people can easily provide security themselves. In conclusion, people need to integrate cyber security on their lives, because technology is a part of our lives anymore. This situation causes new security problems, but if people learn how to protect data and personal information, this problem can be eliminated.

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