

CYBER SECURITY IN THE DIGITAL ECONOMY

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Abstract. *Cyber security - protection of information and systems from hacking, espionage, crime and damage. The article provides information on cyber security and provides instructions on how to avoid cyber attacks. In the modern world, new technologies, electronic services are ours has become an integral part of our daily life.*

Keywords: *Cyber-security, cyber-attack, information systems, confidentiality*

INTRODUCTION

Considering that the society is becoming more and more dependent on information and communication technologies day by day, the protection and use of these technologies is becoming a crucial and very important topic for the national interest. Today, a prerequisite for the development of the information society is cyber security, which can be ensured by an almost endless list of technical and legislative security issues and their solutions. cyber security issues go from the level of information security on a separate computer to the level of creating a unified cyber security system as an integral part of the information and national security of each country. Therefore, in order to ensure cyber security for every organization, employees engaged in this field are being recruited, and a series of seminars and training sessions are being organized to continuously acquaint employees with cyber security knowledge.

ANALYSIS AND RESULTS

Cyber security professionals work to keep our computer systems safe from hackers. In addition, they have many career paths to choose from, as most organizations depend on the skill of keeping their systems reliable and secure. You can work on big data, use your talents to improve emerging technologies, or help law enforcement agencies catch cybercriminals. Some companies even hire cyber security experts known as "penetration testers" to intentionally break into their systems to learn what to do to prevent future data breaches.

Cyber security professionals can have a number of personality traits and skills. If you are detail-oriented, excited about solving problems, and a good communicator, this may be the field for you.

cyber security - the state of protection of the interests of individuals, society and the state from external and internal threats in cyberspace;

cyber security object - a set of information systems used in activities to ensure cyber protection of information and cyber security of national information systems and resources, including important information infrastructure objects;

cyber protection - legal, organizational, financial and economic, engineering and technical measures aimed at preventing cyber security incidents, detecting and protecting against cyber attacks, eliminating the consequences of cyber attacks, restoring the stability and reliability of telecommunication networks, information systems and resources, as well as a set of cryptographic and technical data protection measures;

cyber attack - an action that threatens cyber security, carried out intentionally using hardware, software and software tools in cyberspace[1];

Bruce Schneier is a cyber security expert

One of the world's most recognized experts on cyber security is Bruce Schneier. A well-known author of more than 12 books, Schneier is known for some radical ideas, including how he thinks we can make our personal data more secure. Instead of our data being scattered across the Internet, Schneier thinks we should all have our own data "pods" collected from our PCs, phones and other devices. According to Schneier, these podcasts could make our data more secure because it belonged to us, meaning we had to control who had access to it.

What is cyber security? Some of us have heard this term before, but some of us may not know what it means or why it is called that. So, to fully understand the meaning of cyber security, let's divide the word into two parts: "cyber" and "security".

The term "cyber" usually refers to anything related to computers, information technology, or the Internet. To better understand it, think of it as a special word for computers and the Internet.

Security is the state of being safe and free from danger or threat.

So, if we put the two words together, "cyber security" means keeping computers, networks, and any device connected to the internet safe from any danger or threat.

Why is cyber security important? Cybersecurity is inextricably linked in our time, especially with all the technological advancements that are happening. Imagine a country with no military to protect its resources from other countries that want them. Surely the country will be weak, right? Would you like to live in such a country?

It's the same with the technology and internet that you now use almost every day for study and work; without cyber security, your personal information, location, photos, camera and many other things would be unprotected and as a result, this makes your important personal information a ready prey for criminals. If criminals have access to this information, they can use your credit cards, steal your money, and even commit identity theft[3].

Another example is if you have your own business that relies on computers and data, and you've worked very hard to build that company. But without cybersecurity, your company can go out of business and lose all of its money, data, and reputation overnight.

Above we gave two examples of why cyber security is important. But we can give many examples of this in our virtual life today. In general, we can think of cyber security as the military part of the internet.

Do you need to know programming to get into the cybersecurity field?

You don't need to be proficient in programming when you're just starting out in cybersecurity. But later, if you start seriously dealing with this field, you will definitely need to learn and know programming. Because there are such sophisticated cyber crimes that you need to be a professional programmer to prevent or counter them.

Next week we'll talk about the different roles in cybersecurity and which ones require which level of programming knowledge, so stay tuned!

According to the 2019 summary of global cyber security rankings Uzbekistan ranks 90th in the National Cyber Security Index, 52nd in the Global Cybersecurity Index, and 95th in the ICT Development Index. All the operations listed above are aimed at ensuring national security. Because ensuring the truthfulness, reliability and confidentiality of statistical indicators of economic, social and cultural development of the country is one of the urgent problems of today.

CONCLUSION

Legislation of cyber security standards is essential. The digital world has not yet been able to define its legal status. The fact that new types and forms of threats are emerging day by day requires their reflection in legislation. The development of a national strategy on cyber security regulates activities in the field of combating crime in the national cyberspace. After all, the harm and danger of crime in the virtual world is no less than in the real world. Therefore, in 2020, during the implementation of measures to increase the security of modern information systems and resources of the national ".UZ" domain area, 297 studies and examinations were conducted. As a result of the work carried out, 695 vulnerabilities were identified and the owners of information systems and resources were immediately informed about the vulnerabilities. measures were taken.

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