



Erasmus+

Cyber safety of companies

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Present

- Currently, the companies are the most **vulnerable** ones on the internet.
- **VIRUS**

21st Century



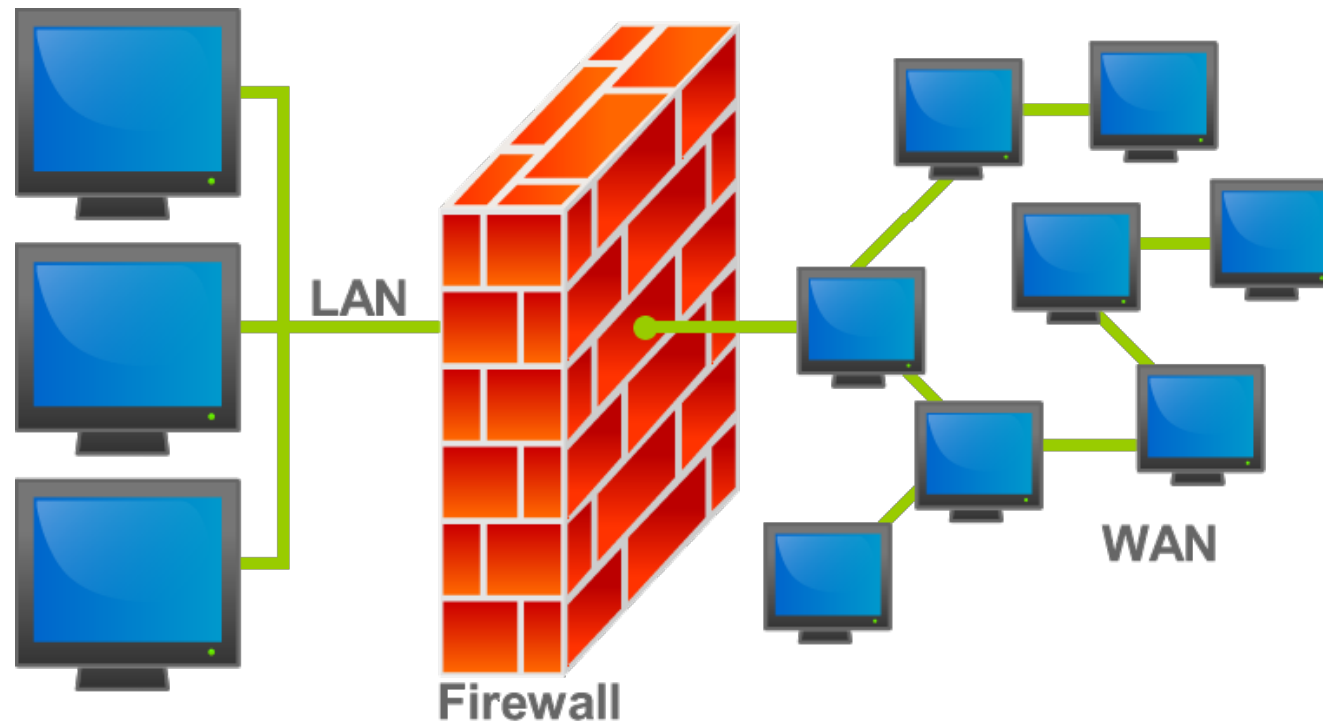
What is a computer virus?

- It is a type of a computer program that replicates itself, when executed, by modifying other computer programs and **inserting** its own code.



The internal computer network safety and protection

- **1. Install and monitor a firewall performance** – A firewall is a piece or a set of software or hardware designed to block **unauthorized access** to computers and networks.



The internal computer network safety and protection

- **2. Update passwords at least every quarter** – In addition to the use of **passwords** that are made up of lowercase and uppercase letters, symbols and numbers.



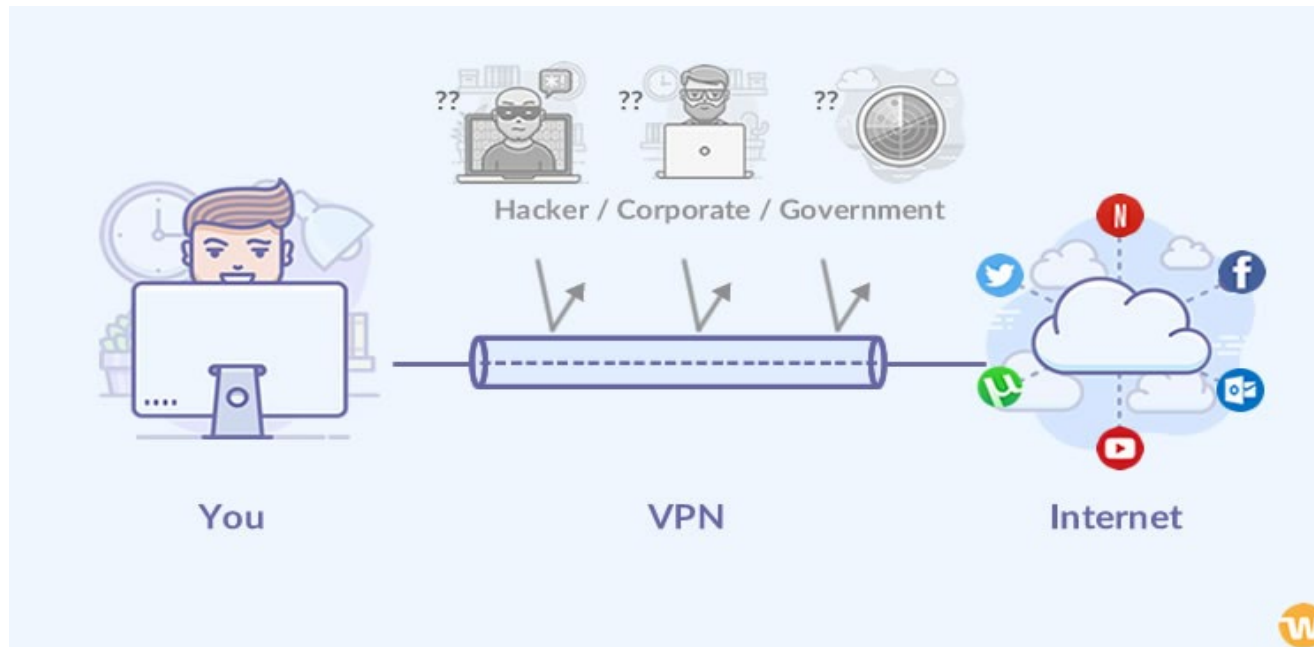
The internal computer network safety and protection

- **3. Maintain your anti-virus software** – if you are not performing regular updates of your anti-virus software, you are putting your network at a greater risk and creating potential **cybersecurity** issues.



The internal computer network safety and protection

- **4. Create a Virtual Private Network** - known as **VPN** – a VPN can dramatically decrease the likelihood that hackers can find a **wireless access** point and wreak havoc on your system.



The internal computer network safety and protection

- **5. Training your employees** – some organizations work these kinds of updates into mandatory meetings to help teach the importance.
- Educating employees about how to avoid major security risks is possibly the greatest weapon you have in combating **cybercrime**.



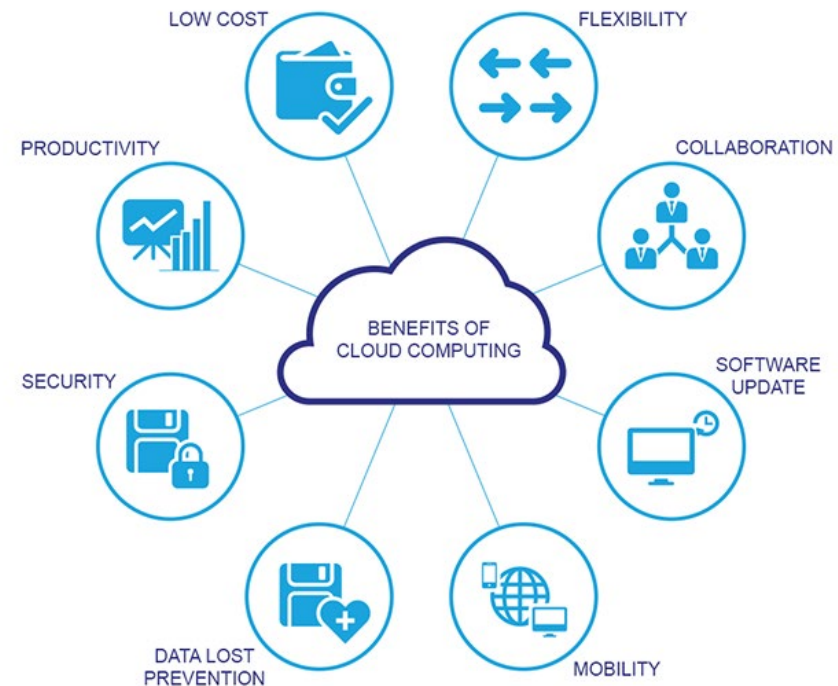
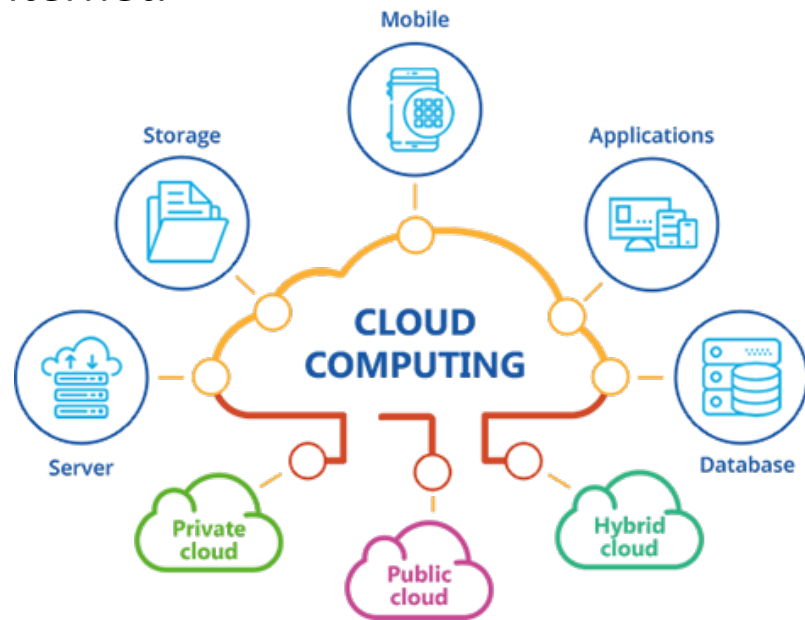
General Data Protection Regulation

- **1. General data protection regulation** – known as GDPR is a regulation in EU law on **data protection and privacy** in the European Union and the European Economic Area.



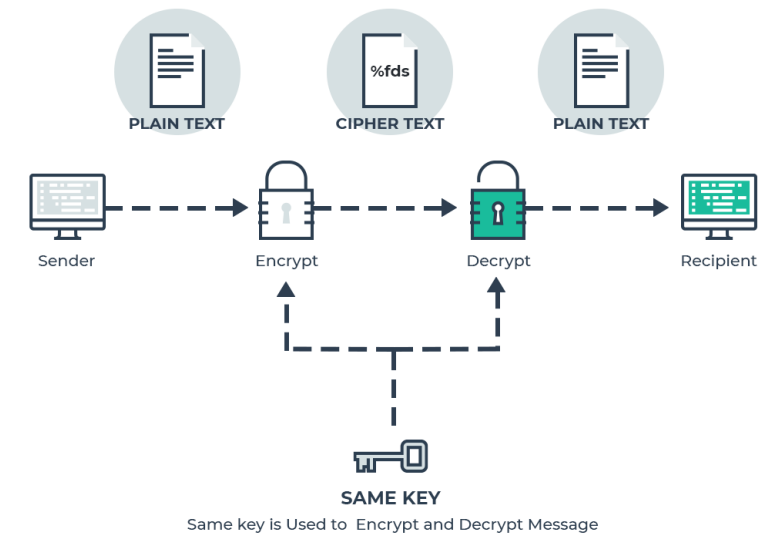
Cloud computing

➤ **Cloud computing** – is the on-demand availability of computer system resources, especially **data storage** and computing power, **without the need of a direct active management** from the user. The term is generally used to describe **data centers** available to many users over the internet.



How is the Cloud Protected?

- to keep data secure, the front line of defense for any cloud system is **encryption**. Encryption methods utilize complex **algorithms** to conceal cloud-protected information. To decipher encrypted files, would-be hackers would need the **encryption key**. Although encrypted information is **not 100% uncrackable**, decryption requires a huge amount of computer processing power, forensic software, and a lot of time.



What is data breaching?

- **Data breach** is a security incident in which information is accessed without authorization. Data breaches can hurt businesses and consumers in a variety of ways. 60 % of small businesses fail within six months due to these attacks.



How can data breach impact your business?

- **Regulatory fines** - fines paid due to customers data leakage
- **Ransomware Demands** - ransom paid to malware threats
- **Downtime** - hacking attempt that unables business to use their software



Yahoo - The biggest data breach in history

- In 2013, 3 billion user accounts registered on Yahoo got hacked. The attack revealed the real names, email addresses, dates of birth, telephone numbers and credit card information. The breaches stole an estimated \$350 million off Yahoo's sale price. After the incident, the company changed its name to Altaba, Inc.



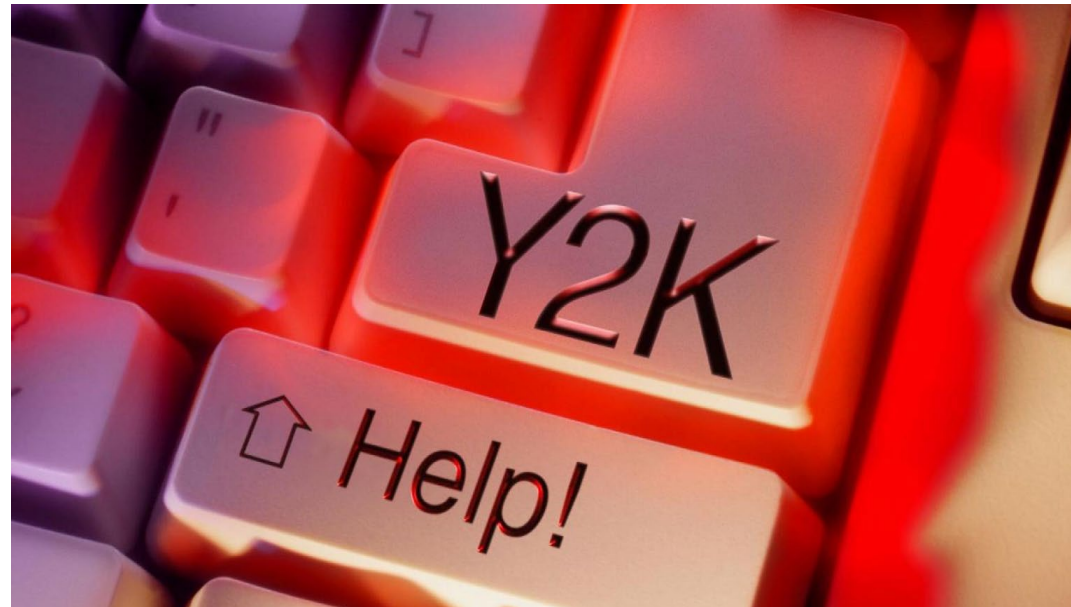
Sony's playstation network

- In 2011, 77 millions accounts were hacked. Credit Card details were revealed and the account information was stolen. 2.2 million card details were put for sale on the black market. Hackers continued even after it has been dealt with.



Y2K – Year 2000

- It was an electronic fail at the end of the millenium. Estimated money paid for the preparation - 200 billion dollars. This incident created a nationwide chaos.



Thank you for your attention

Dominik Fedorčák
Mikuláš Pataki

Beki Dzechová
Michal Pačai