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Future without Passwords

How the Technology
going to affects
passwords



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Passwords

History



Passwords have been used with computers since the earliest days of computing. The Compatible Time-Sharing System (CTSS), an operating system introduced at MIT in 1961, was the first computer system to implement password login. CTSS had a LOGIN command that requested a user password.

setting up **your** password

- **Avoid using dictionary words. Don't use personal information. Avoid common sequences**
- **Create different passwords for different accounts and applications.**

<https://password.kaspersky.com/>
<https://www.passwordmonster.com/>

Challenges **with** Passwords

- Changed every 60 days
- At least eight characters long
- Use both upper and lower case characters
- Contain a combination of alphanumeric characters and symbols
- Unique (only used for this particular profile/website)
- Stored using a reversible encryption.
- Using these minimum requirements means that there are at least 2×10^{10} different possibilities



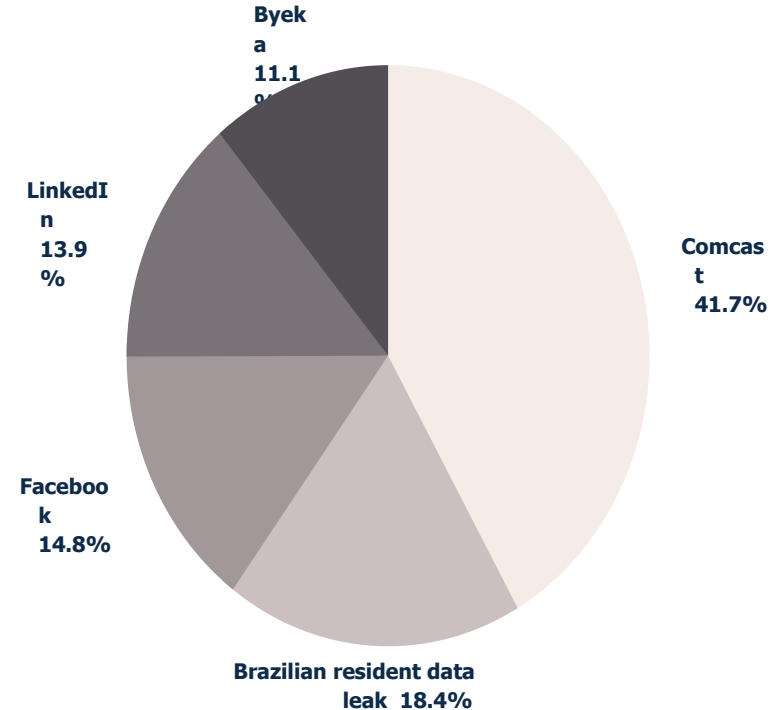
Data Leak Statistics

According to the Identity Theft Resource Center's 2021 Data Breach Report, there were 1,862 data breaches last year, surpassing both 2020's total of 1,108 and the previous record of 1,506 set in 2017.

For Real?

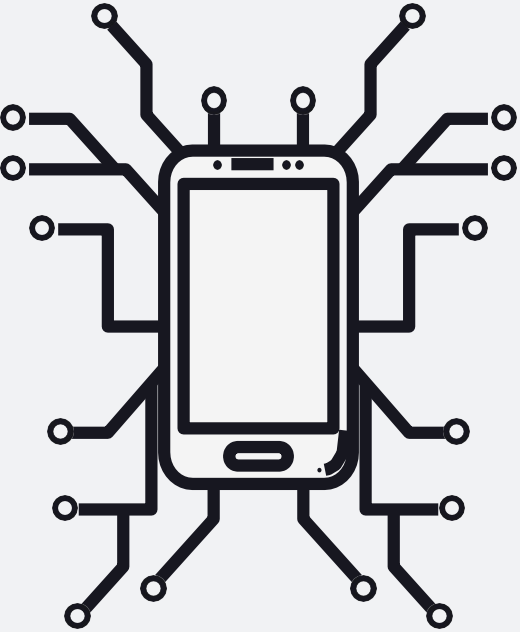
Points for discussion

According to statistics from Surfshark, the United States experiences the most data breaches of any country. In 2021, 212.4 million users were affected (compared to 174.4 million in 2020). In second place was Iran, with 156.1 million breached users in 2021 (up from 1.4 million in 2020).



What is Next?

The importance of cybersecurity in our life



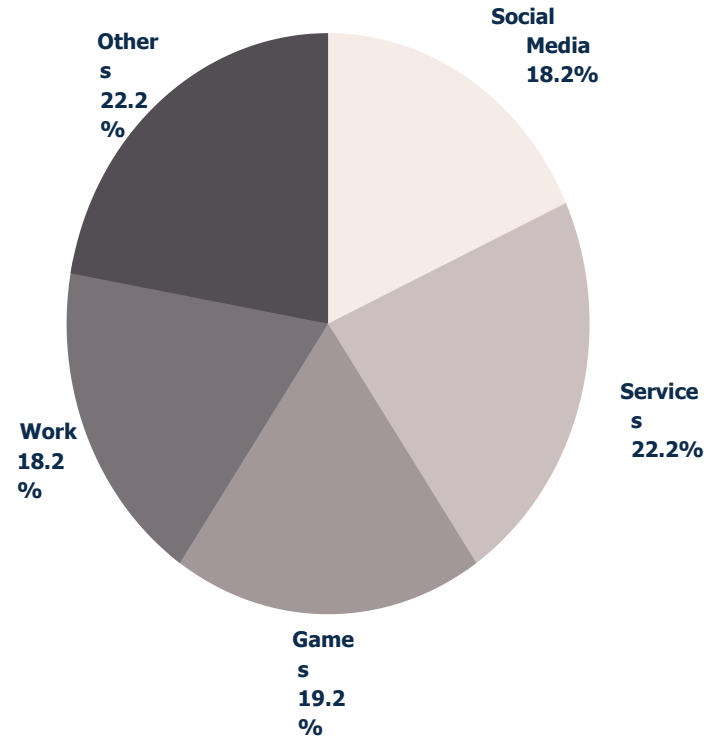
Passwords are currently integral to security measures. That has been true for many years now. However, passwords cause many problems. They are hard to remember, and we are required to know too many of them sometimes even hundreds. In addition, they can be stolen and leaked on the dark web. Those two sentences combined cause even more trouble.



Passwords Per User

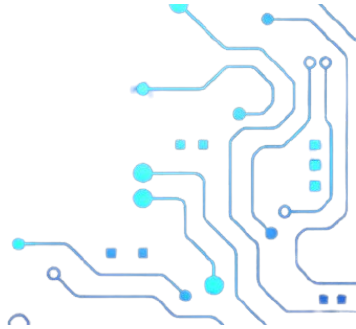
Points for discussion

The average user has around 100 passwords, according to new research from NordPass. Interestingly, a previous survey in February 2019 stated that people had 70-80 passwords. This means that the average user has about 25% more passwords compared to earlier this year.



Tech
Talks

Future of Passwords



Future?

EASIER WAYS TO USE

What is the future of passwords? Well, first of all, we should be asking: What are the futures of passwords? Indeed, even the definition of "password" is going to be complicated in the future as every site will mean something different.

Some sites will use two-factor authentication (2FA), while others will use a passwordless system. Some devices will be dealing with biometrics, while others passphrases. Some users will prefer single-sign-on (SSO), while others will stick to the proven security and convenience of a password manager.



Tech !



- Two-factor authentication



- Passphrases



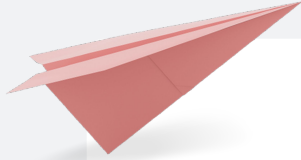
- Single sign-on



- Passwordless



- Zero login



**Do you have
any
questions?**

