

Cyber Security Awareness

A **spriteCloud** Training

Chapter 1: The Need for Awareness Training

Cyber attacks are becoming more common

The number of cybersecurity breaches disclosed increased nearly 5 fold from 2011 to 2018.

GDPR (2018) now mandates that breaches are disclosed, or face a fine.

Number of Cybersecurity Breaches Disclosed per Year



More small-to-medium businesses are attacked

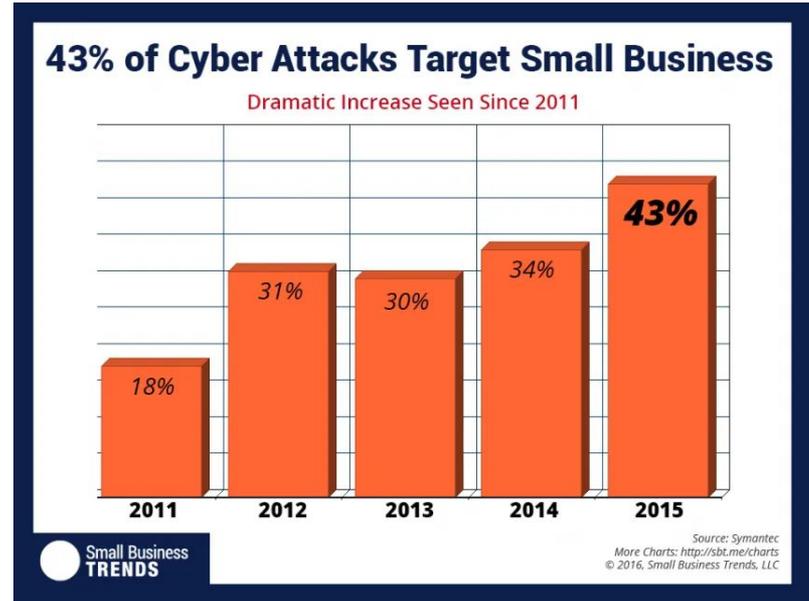
In 2015, 43% of cyber attacks target small businesses.¹ In 2020, it was 63%.²

On average, attacks cost small businesses \$200,000 to recover from.³

Common attacks are:

- SQL injections
- Phishing and Spear Phishing

Which lead to malware and ransomware installation.



1. <https://www.fundera.com/resources/small-business-cyber-security-statistics>

2. <https://www.securitymagazine.com/articles/91806-as-cyber-attacks-become-more-prevalent-heres-why-your-small-business-is-at-risk>

2. <https://blog.goptg.com/small-businesses-cyberattacks-2020>

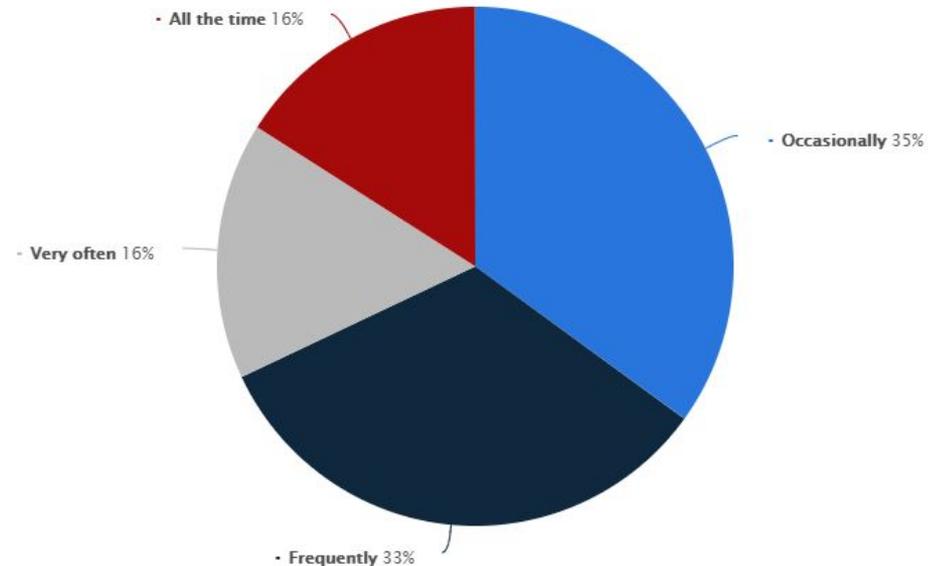
Our lives are becoming more digital

More companies are using the internet and digital tools to support their business.

People are using the internet more in their private lives.

The Coronavirus has created a massive shift to remote work.

Frequency of working remotely in 2020



Human error responsible for many breaches

Whether it be falling for phishing scams, weak passwords, social engineering, credential theft or downloading malware....

humans are often the weakest link.



Chapter 2: Password Security

We will focus on passwords first as it provides the most privileged access to a system or account.

Password1

is easier to remember than

eJ82*#WiQ%3



Credential Stuffing

Stolen lists of usernames and passwords are used to gain access to through large-scale automated login requests.

Hackers compromise a website...



Username: bob@domain.com
Password: Apples

...then try using that same username and password on lots of other websites.



What makes a good password?

A good password should use a random combination of:

- Upper-and lower- case letters
- Numbers
- Symbols
- Be at least 12 characters long

spriteCloud has a policy on the hub

Number of Characters	Numbers Only	Lowercase Letters	Upper and Lowercase Letters	Numbers, Upper and Lowercase Letters	Numbers, Upper and Lowercase Letters, Symbols
4	Instantly	Instantly	Instantly	Instantly	Instantly
5	Instantly	Instantly	Instantly	Instantly	Instantly
6	Instantly	Instantly	Instantly	1 sec	5 secs
7	Instantly	Instantly	25 secs	1 min	6 mins
8	Instantly	5 secs	22 mins	1 hour	8 hours
9	Instantly	2 mins	19 hours	3 days	3 weeks
10	Instantly	58 mins	1 month	7 months	5 years
11	2 secs	1 day	5 years	41 years	400 years
12	25 secs	3 weeks	300 years	2k years	34k years
13	4 mins	1 year	16k years	100k years	2m years
14	41 mins	51 years	800k years	9m years	200m years
15	6 hours	1k years	43m years	600m years	15 bn years
16	2 days	34k years	2bn years	37bn years	1tn years
17	4 weeks	800k years	100bn years	2tn years	93tn years
18	9 months	23m years	6tn years	100 tn years	7qd years

Passphrases over Passwords

Passphrase:

- Easier to remember
- Longer character count
- Harder to guess

“Security at the expense of usability comes at the expense of security.”

P@s5W0rd!

VS

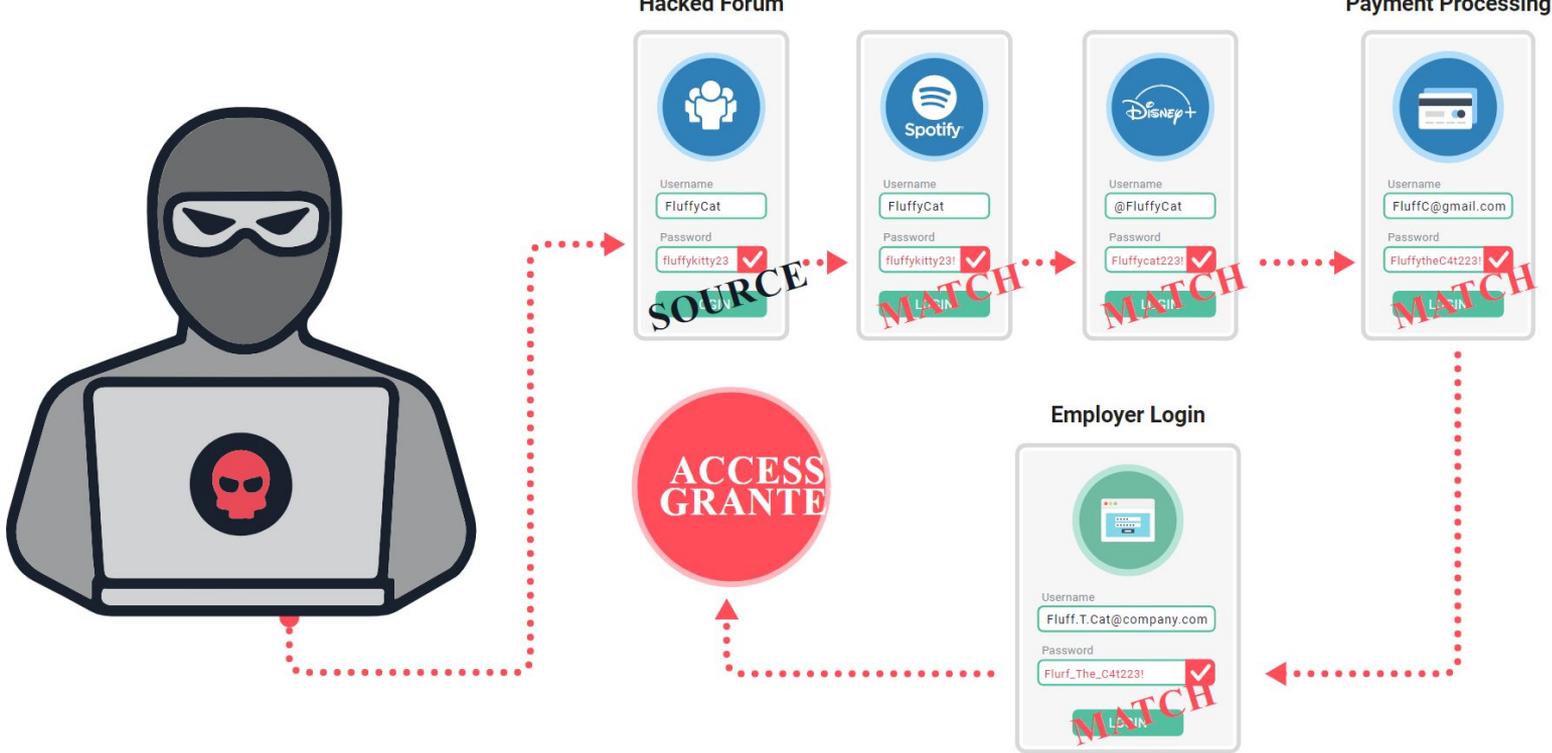
BrownMonkeysEatYellowBananas!

Don't mix professional and private

Don't use the same passwords for your professional and private accounts.



Never Reuse Passwords



Password Managers

onelogin



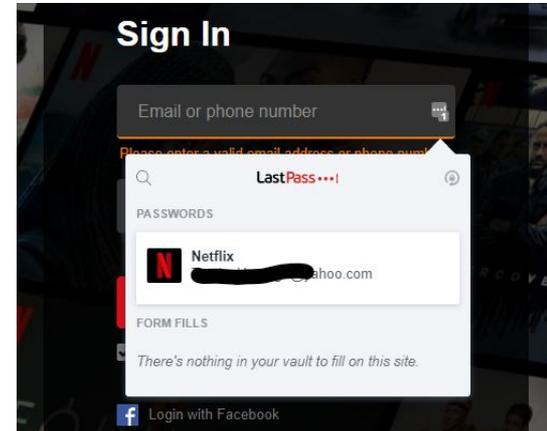
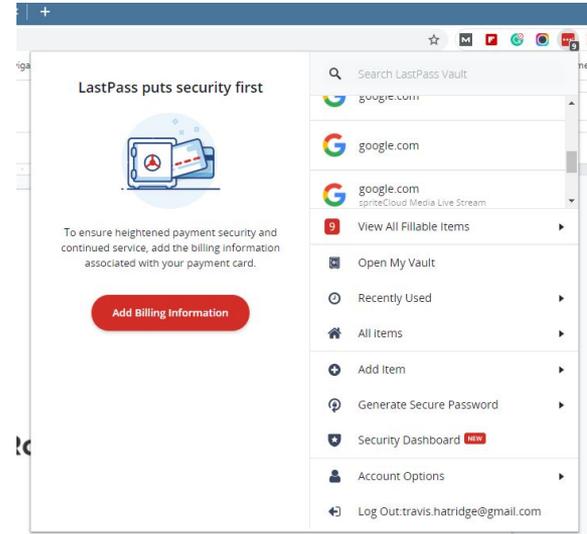
1Password



LastPass...!



You can even quickly generate random passwords with many of the password managers.



2FA all the time.

2 Factor Authentication requires another step in the log-in process.

This is typically a code sent via email or text message, or a code generated using a special app.

