Addressing the Dark Side of the Digital Economy: Protecting Yourself and Your Business

Cybersecurity

Oct 2021

36 billion
compromised records in 2021H1

197 days average time to discover a breach

88% of organizations worldwide experienced spear phishing attempts

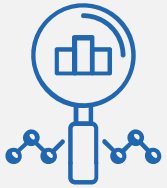
109.000 Euros
average ransomware extortion amount

Worsening Threat Landscape…

Number of cyber attacks continues to break records every year

Ransomware attacks have proven to be quite effective for attackers

Supply Chain attacks compromise thousands in a single blow



Major rise in number of vulnerable devices on the internet (ex IoT) and overall complexity

Cyber attacks are ever-more sophisticated and professionalized.

Opening up to remote work has enlarged the attack surface

SIBS CyberWatch

400,000 phishing sites are created each month

65% of people reuse password across multiple accounts

Google estimates it blocks **18 million** COVID-19 scam emails a day

bad bot traffic amounted to **25.6%** of all website traffic in 2020

… Cyber Security Challenges for Individuals

Password brute force & discovery

- *Top 20 passwords account for 10,3% of passwords*
- *Weak passwords are breakable in seconds.*
- *Hackers actively exploit password reuse*

Social engineering

- *Email phishing attacks spiked over 600% since the end of February 2020 due to pandemic*
- *Phishing, vishing, smishing were the most prevalent threat in 2020*

Malware attacks

- *Attackers scan the internet with millions of bots (compromised systems) looking for unpatched machines*
- *Machines that aren't patched are sitting ducks for hackers.*

Password Length	Possible Combinations	Time To Crack (S = Seconds, M = Minutes, H = Hours, Y = Years)
4	45697	<1 S
5	11881376	<1 S
6	308915776	<1 S
7	8031810176	~4 S
8	208827064576	~1.5 M
9	5429503678976	~45 M
10	141167709563376	~19 H
11	3670344486987780	~.1 Y
*12	954289566616822OO	~1.5 Y
13	24811528732037 4E4	~39.3 Y
14	6450997470329 72E5	~1,022.8 Y
15	1677259342285 73E7	~26,592.8 Y
16	43608742899428 9E8	~691,412.1 Y
17	1133827315385 15E10	~17,976,714 Y
18	2947951020001 390E10	~467,394,568 Y

SIBS CyberWatch

93% of SOCs have problems filtering alarms adequately

More than **50%** of all incidents are false positives

70% of SOC analysts are overloaded with the volume of alerts

3.5 million unfilled cyber security jobs

SIBS CyberWatch

… Cyber Security Challenges for Organizations

Low cyber security awareness.

"it is often perceived that it only concerns IT related people".

Inadequate protection for critical information.

"organizations are unaware of the importance of the data and legal obligations"

Lack of cybersecurity specialized personnel & expertise.

"loss of security focus given that it is quite common that individuals multitask and may have conflicting roles assigned to them."

Cybersecurity preparedness efforts entail investments from various aspects…

…such as awareness training, implementation of cybersecurity controls & engaging external experts.

1 million passwords are stolen every week

One in **three** breaches are caused by unpatched vulnerabilities

5.6 Billion: annual number of malware attacks in 2020

1 in every **99** emails is a phishing attack

SIBS CyberWatch

Protecting Yourself

Passwords	*Use password managers to handle distinct, and robust, passwords across sites* 
Patch	*Update your systems with the latest versions* 
Anti-virus	*Use an anti-malware software and a firewall* 
Don't be fooled (phished)	*Check the email address & the link before you click* *Look for wording and terminology* *Avoid emails that insist you act now* *Beware of bargains* *Never supply any personal or financial information and passwords to anyone* 

Strong Customer Authenticaction

Dual factor

(Two of the three factors)

Something you know 	Something you have 	Something you are 
• *Password*	• *Phone*	• *Fingerprint*
• *PIN*	• *Payment card*	• *Facial Recognition*

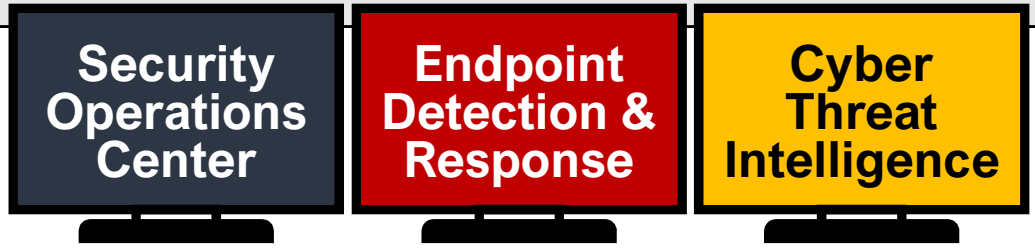
Payments
Strong Customer Authentication

Protecting your organization

- **people**: security awareness for employees, clients and suppliers.
- **infrastructure**: specialized security services that will help to prevent, detect and respond to incidents.
- **endpoints**: preventing attacks on the most common point of initial intrusion.
- **external exposure**: monitoring social networks, deep & dark web for intelligence.

SIBS CyberWatch provides expertise at all levels of Cyber Security Services, namely:

- Through its 24x7 SOCs (Security Operations Centers) supported on 20 security analysts monitoring all relevant events, processing alarms and ready to respond to incidents.
- With EDR (Endpoint Detection and Response) managing the detection of endpoint threats including management of personalized policies, user management and application blacklisting.
- Via its CTI (Cyber Threat Intel) identifying emerging global threats and alerting on new dangers through intelligence shared or found on the various webs and social networks



SIBS CyberWatch

www.sibs.com