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CYBERSECURITY LESSON

PROTECTING YOUR DIGITAL FUTURE

<https://bts-lpp.re/>





INTRODUCTION



Why Cybersecurity Matters

Cyber security is basically the way we protect our digital life—our accounts, our devices, and all the personal information we share online. It focuses on stopping hackers from accessing our data, stealing our passwords, or installing harmful software. In short, cyber security is about staying safe and responsible in a world where everything is connected.



Protect Data



Enhance Reputation

CURRENT CYBERSECURITY THREATS

The Growing Threat

Cyber threats are constantly evolving, with hackers using increasingly sophisticated techniques to exploit vulnerabilities. Phishing, ransomware, and data breaches are some of the most common forms of attack. As digital dependency grows, so do the risks, making cybersecurity more crucial than ever.



> Ransomware

> Phishing

> Data Breaches

> Malware



[_Pending_Order_\[#584125478610000\]](#)

Please Confirm Your Shipping Address!!



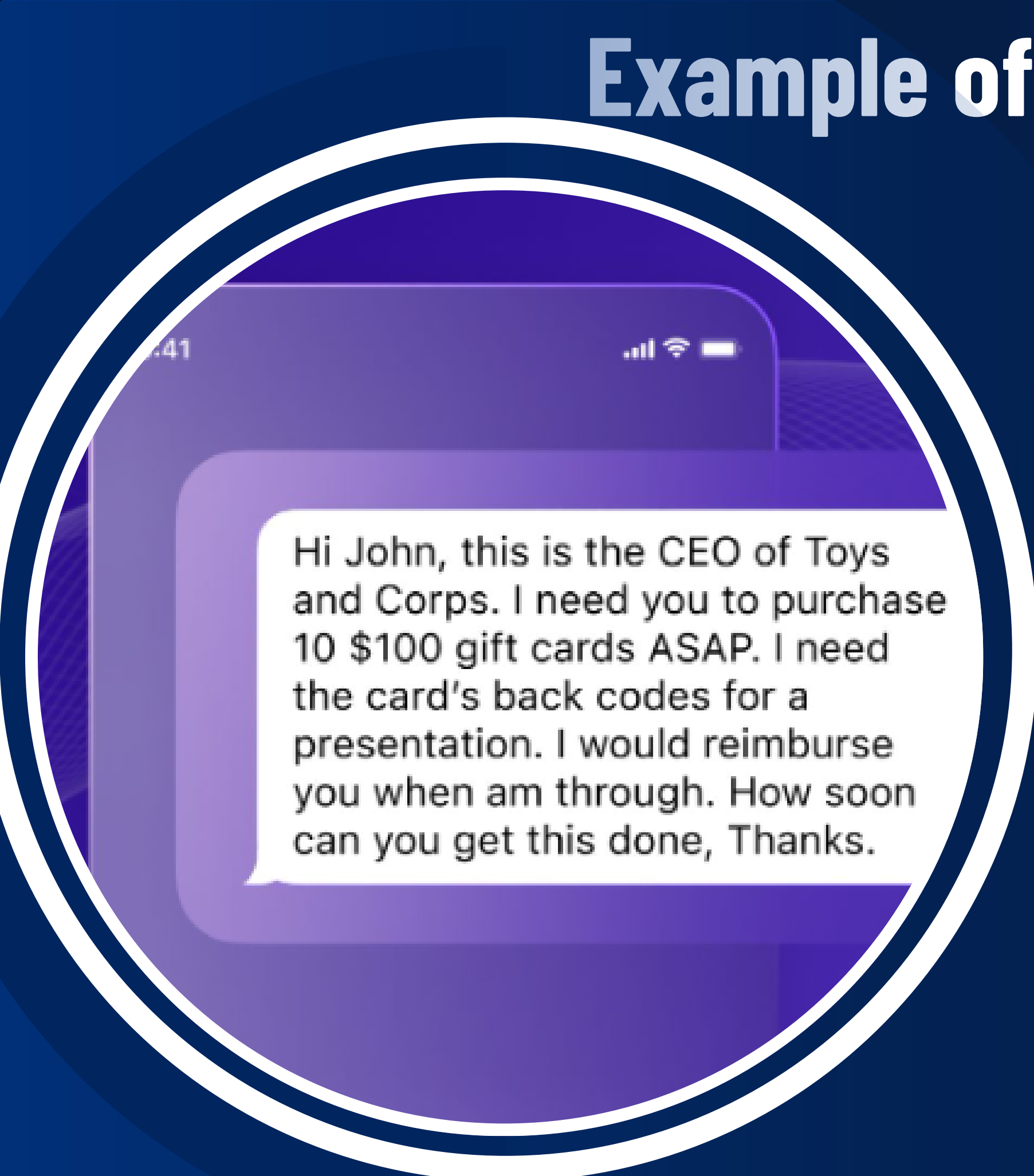
PHISHING



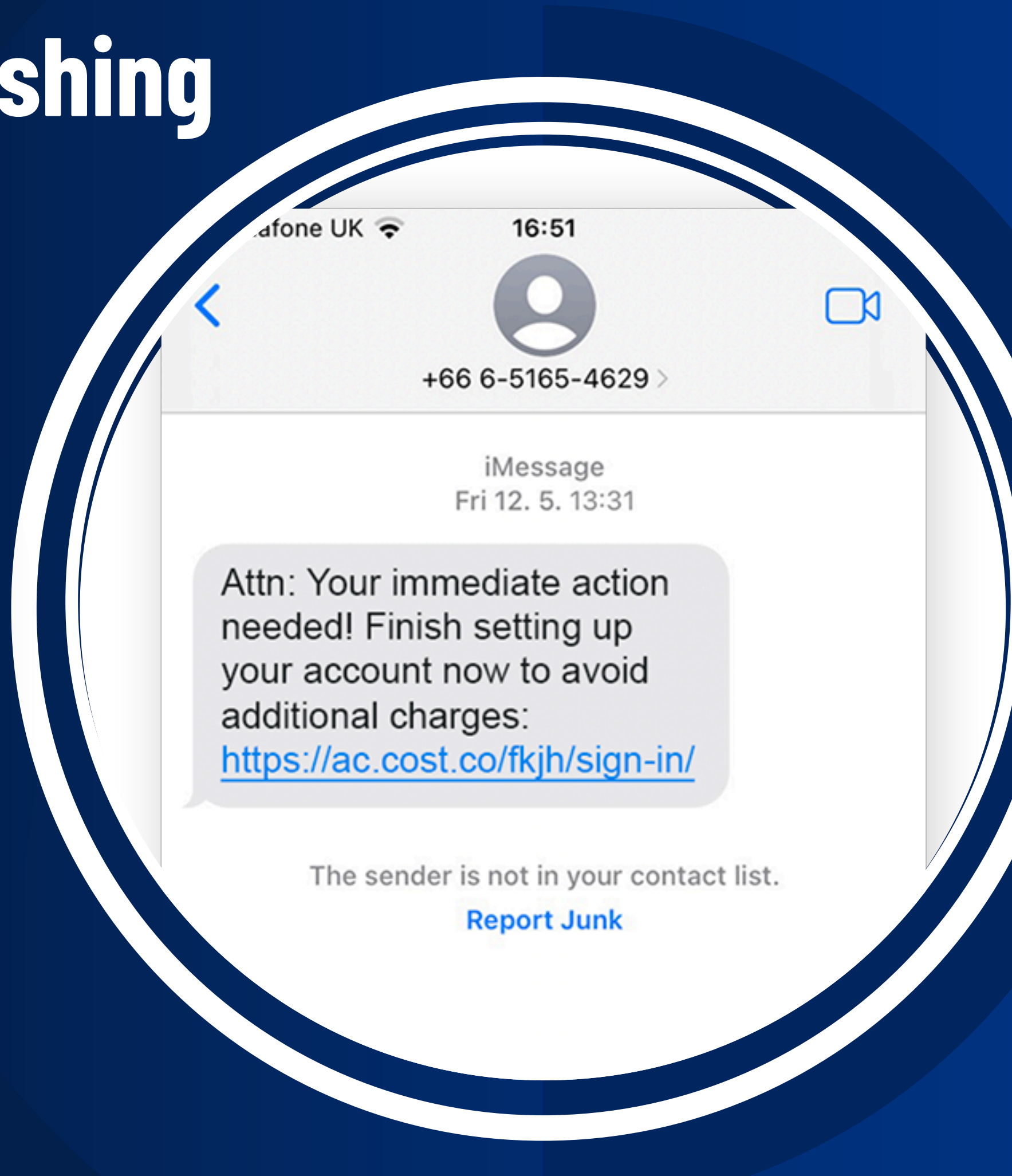
There are several signs that this email is fake:

- The sender's address looks strange and random, not like an official company address.
- The message uses urgent and dramatic language such as "Please Confirm your shipping address!!"
- It promises something too good to be true, like a free iPhone.
- The design looks suspicious and unprofessional, with odd spacing and capital letters.

Example of Phishing



Hi John, this is the CEO of Toys and Corps. I need you to purchase 10 \$100 gift cards ASAP. I need the card's back codes for a presentation. I would reimburse you when am through. How soon can you get this done, Thanks.



afone UK 16:51

< [Profile Icon] >

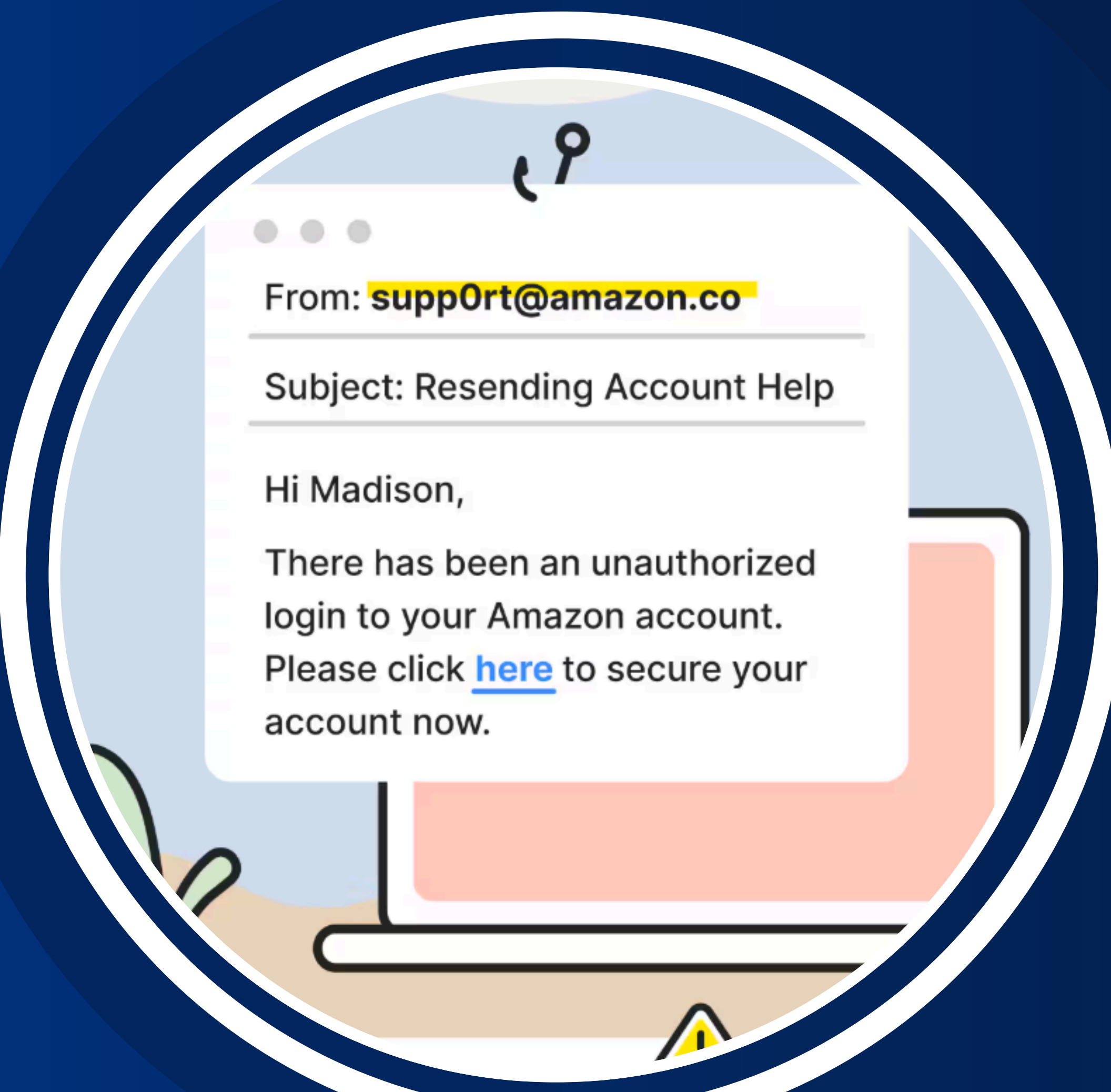
+66 6-5165-4629 >

iMessage
Fri 12. 5. 13:31

Attn: Your immediate action needed! Finish setting up your account now to avoid additional charges:
<https://ac.cost.co/fkjh/sign-in/>

The sender is not in your contact list.
[Report Junk](#)

Example of Phishing

A circular frame containing a stylized illustration of a computer monitor. The monitor screen shows an email interface. At the top of the email, there is a small icon of a telephone handset with a question mark. The email header shows 'From: supp0rt@amazon.co' with the domain highlighted in yellow. Below this is the subject line 'Subject: Resending Account Help'. The body of the email starts with 'Hi Madison,' followed by a paragraph: 'There has been an unauthorized login to your Amazon account. Please click [here](#) to secure your account now.' The word 'here' is a blue hyperlink. The monitor is depicted with a light blue background, a white bezel, and a pinkish-orange base. A small yellow warning triangle is visible on the desk surface in front of the monitor.

From: **supp0rt@amazon.co**

Subject: Resending Account Help

Hi Madison,

There has been an unauthorized login to your Amazon account. Please click [here](#) to secure your account now.

Example of Phishing

From: Free@gmail.com

To: permanence-marut@msap.fr

Sent: Thursday, December 11, 202N 01.04.02

Subject: Notification SZ27503S

free

Ref.: F4753898/26321908#0

Your subscriber ID: 4753898

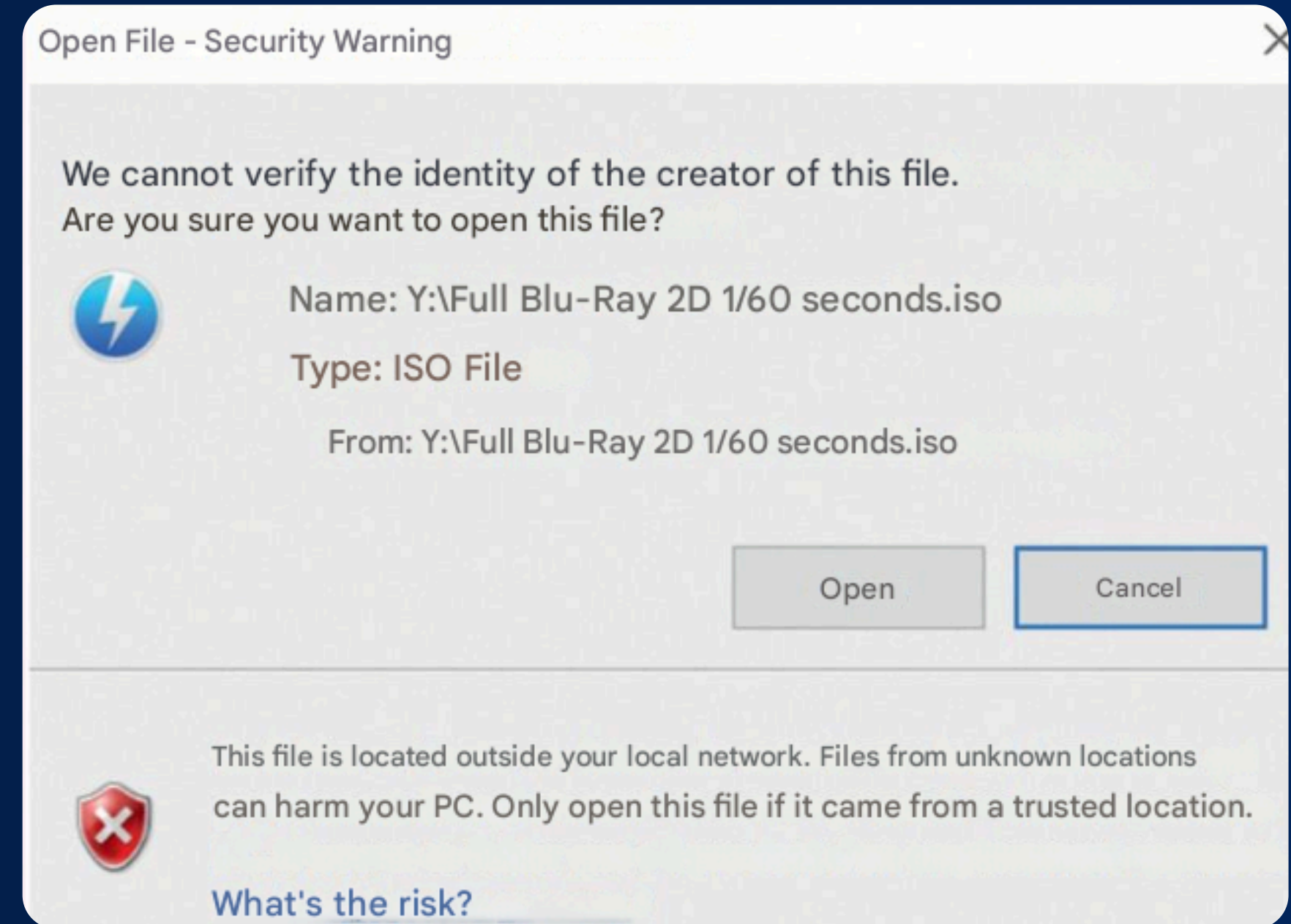
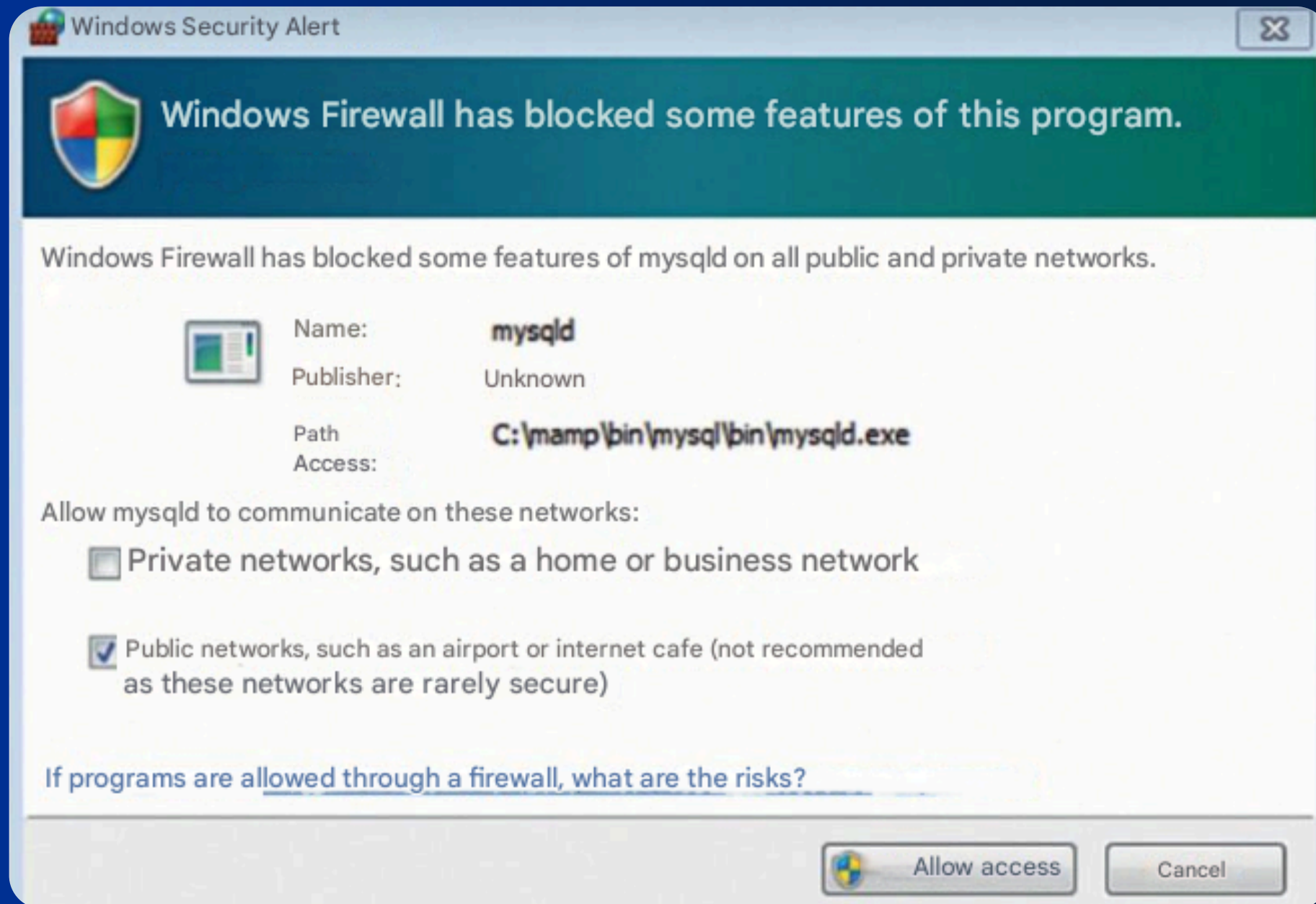
Paris, December 11, 201N

Dear Sir/Madam,

It has come to our attention that your Freebox billing information is no longer up to date.
Therefore, please access your personal account via the link below and update all your personal information to help verify your account.

Access your account here

2 types of Security Alert





WHICH OF THESE PASSWORDS IS SECURE?

PASSWORD TEST

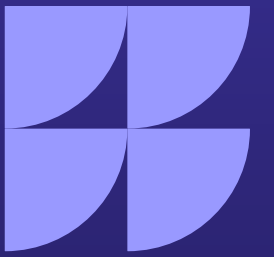
> A) 123456

> B) password

> C) John2007

> D) Rain-Cloud\$67

What is Artificial Intelligence?



PASSWORD SECURITY

Explanation

Strong passwords protect your accounts.
Use long, unique passwords.
MFA (Multi-Factor Authentication) adds an extra layer of security, like a code on your phone.

Keep it simple :

- "Long + unique + not personal."
- "Add MFA."

How Safe Is Your Password?

Time it would take a computer to crack a password with the following parameters

	Lowercase letters only	At least one uppercase letter	At least one uppercase letter + number	At least one uppercase letter + number + symbol
1	Instantly	Instantly	-	-
2	Instantly	Instantly	Instantly	-
3	Instantly	Instantly	Instantly	Instantly
4	Instantly	Instantly	Instantly	Instantly
5	Instantly	Instantly	Instantly	Instantly
6	Instantly	Instantly	Instantly	Instantly
7	Instantly	Instantly	1 min	6 min
8	Instantly	22 min	1 hrs	8 hrs
9	2 min	19 hrs	3 days	3 wks
10	1 hrs	1 mths	7 mths	5 yrs
11	1 day	5 yrs	41 yrs	400 yrs
12	3 wks	300 yrs	2,000 yrs	34,000 yrs

Source: Security.org

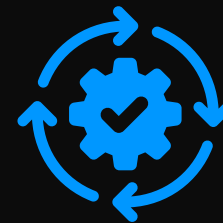


BEST PRACTICES FOR CYBERSECURITY



Strong Passwords

Use unique and complex passwords for each account.



Regular Software Updates

Ensure systems are up-to-date with the latest security patches.



Two-Factor Authentication

Add an extra layer of security to sensitive accounts.



Employee Training

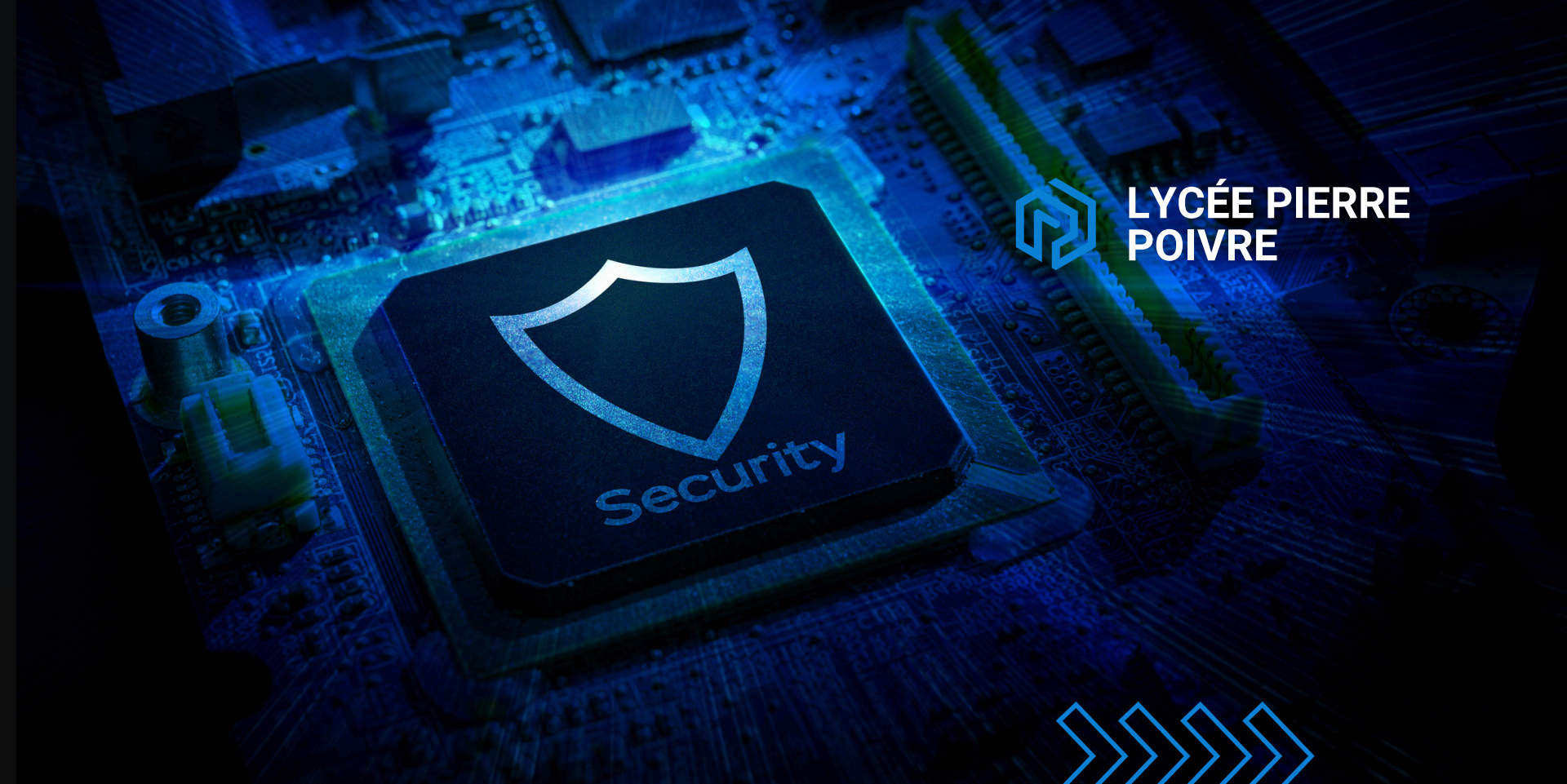
Educate employees about security risks and how to avoid them.



MULTI-FACTOR-AUTHENTICATION(MFA)



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Definition :

Multi-Factor Authentication (MFA) is a security method that protects people and organizations by asking for more proofs of identity to access an account. This adds extra protection against cyberattacks

Examples of second factors



A code on your phone



Fingerprint



Authenticator app

SOCIAL ENGINEERING

Definition :

Social engineering is when hackers attack people instead of computers. They manipulate , lie , and pretend to be someone else.





Example dialogue

“Hello, I’m from your bank. I need your password.”

→ **INSTANT RED
FLAG.**

TOOLS FOR CHEKING PERSONAL DATA

Explanation :

Sometimes your data leaks on the internet without you knowing.
These tools help you check:



HAVE I BEEN
PWNED



FIREFOX
MONITOR



GOOGLE
SECURITY
CHECK-UP

Have I Been Pwned

Check if your email address is in a data breach

Using Have I Been Pwned is subject to the [terms of use](#)

Email Breach History

Timeline of data breaches affecting your email address

0

Data Breaches

Good news — no pwnage found! This email address wasn't found in any of the data breaches loaded into Have I Been Pwned. That's great news!

Have I Been Pwned

Check if your email address is in a data breach

Using Have I Been Pwned is subject to the [terms of use](#)

Email Breach History

Timeline of data breaches affecting your email address

1

Data Breach

Oh no — pwned! This email address has been found in a data breach. Review the details below to see where your data was exposed.



TOOLS TO SAFEGUARD YOUR DIGITAL ASSETS



ANTIVIRUS



FIREWALLS



ENCRYPTION



BACKUP

Several cybersecurity tools and technologies can help secure systems and networks. Firewalls, antivirus software, encryption, and intrusion detection systems are all crucial for preventing unauthorized access and mitigating risks.

Conclusion

“Cybersecurity is not complicated. It’s about habits:

Think before you click, use strong passwords, protect your accounts, and check your data.”

Kahoot

<https://kahoot.it>

01

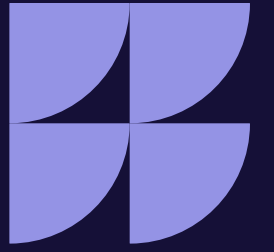
Challenge

02



Challenge: Fix my Security

How can we fix this person's security ?



Password

lucas123

Same Password everywhere

NO MFA

data leaked on i have been Pwned



THANKS FOR YOUR ATTENTION!



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