



Clearbridge
Webinars

*Helping You Do Your **Best** Work*

Cybersecurity 201 - Types of Cyberattacks

**On average, *30,000 websites* are
hacked *every day*. That's a
business falling victim to a
cyberattack every *39 seconds*!**

**It cost businesses *globally*
\$6 *trillion* to fix breaches in 2021**

**This is why *cybersecurity* is so
critical to you and your business!**

So, let's revisit a basic definition of cybersecurity

- **Cybersecurity** is **how** you **protect** your data and information systems from cyberthreats and attacks.
- Over time, **cyberattacks** affect your business' **data**, which impacts your **revenue** and **reputation**.



Common *myths* (and *truths*) about cybersecurity

MYTH 1

MYTH Big companies and wealthy people are more likely to be targeted.

TRUTH It's not about who you are, it's about whether or not your information is valuable.



MYTH 2

MYTH Your security software will always protect you.

TRUTH Your security software is not an invincible shield between your data and hackers.



*In 2019, a Russian hacking collective breached three top US antivirus companies, profiting over \$1M USD from the cyberattack.



MYTH 3

MYTH Cyber threats are always external.

TRUTH According to the Verizon 2021 Data Breach Investigations Report, insiders are responsible for around 22% of security incidents.



MYTH 4

MYTH Your password will never be cracked

TRUTH Hackers use programs to run billions of password combinations and use sophisticated methods to identify the passwords you create.



MYTH 5

MYTH Cybersecurity is expensive to deploy and maintain.

TRUTH It will be cheaper than rebuilding an infected system and replacing lost information.



**Lack of *awareness, training*
and *persistent misinformation*
put businesses at *risk***

**At Clearbridge, we're here to *help*
educate you, so you can *better protect*
yourself and business**

Understanding the types of
cyberattacks is *essential* to keep
your data and systems safe.

Man In the Middle Attacks

Malware

Ransomware

Phishing/ Social Engineering

Internal Threats

- 1. What is it?**
- 2. How does it happen?**
- 3. Statistic about the attack**
- 4. Example of the attack**

1 - Malware

WHAT IS IT?

- A **file** or **code** that **disrupts, damages,** or **gives access** to your system.

HOW DOES IT HAPPEN?

- Downloading programs
- Opening or downloading attachments
- Clicking on links in emails or text messages



STAT

- In 2019, **93.6%** of malware observed was **polymorphic**, meaning it has the ability to constantly change its code to evade detection ([2020 Webroot Threat Report](#))

EXAMPLE

- In May 2021, **Canada Post** was the victim of a malware attack through a third-party vendor. It affected **950,000 parcels**. Postal addresses, emails and phone numbers were exposed.



2 - Ransomware

WHAT IS IT?

- **Software** that attackers use to **hold your system ransom** until a **sum of money is paid**.

HOW DOES IT HAPPEN?

- By **encrypting files** and **demanding a ransom payment** for a decryption key, attackers **force organizations to pay the ransom** to regain access to their files.



STAT

- The **average ransomware attack** only takes **3 seconds** to begin encrypting your network and lock your business files.
- **82%** of attacks that took place in 2021 impacted organizations with **less than 1000 employees**.

EXAMPLE

- Cybercriminals attacked a **small business with only 8 computers!** Their insurance company paid the **\$150,000 ransom** because the alternative was to shut down the business.



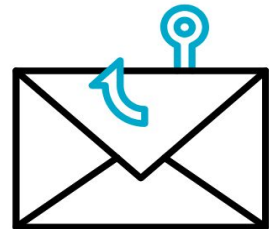
3 - Phishing/Social Engineering

WHAT IS IT?

- A **scam** where attackers **impersonate** a **legitimate company** or **person** asking for **sensitive information**.

HOW DOES IT HAPPEN?

- Say they've noticed some suspicious activity or log-in attempts
- Claim there's a problem with your payment information
- Say you must confirm some personal information
- Include a fake invoice
- Want you to click on a link to make a payment
- Say you're eligible to register for a government refund
- Offer a coupon for free stuff

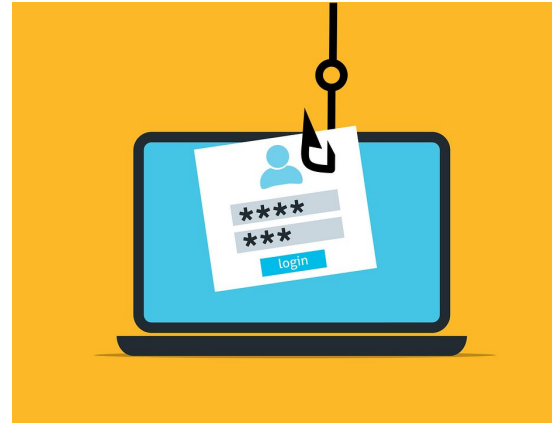


STAT

- **Phishing emails** sent globally have increased by **667%**! A whopping **70% to 90%** of all data infiltration is due to phishing and social engineering attacks.

EXAMPLE

- **Posing as the CEO**, an attacker emails a manager using a **subject line that looks legitimate**. The manager clicks on a link that redirects to a **spoofed version of an invoice**, and the attacker steals his credentials **gaining full access** to their network.



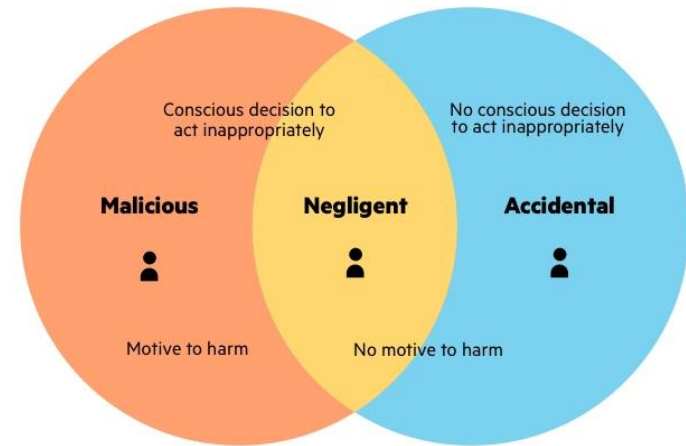
4 - Internal Threats

WHAT IS IT?

- An **insider** who uses their **authorized access**, willingly or unwillingly, to do harm to a company's system.

HOW DOES IT HAPPEN?

- **Activity at unusual times**—signing in to the network at 3 am
- **The volume of traffic**—transferring too much data via the network
- **The type of activity**—accessing unusual resources



STAT

- **Companies from North America** suffer the most from insider attacks and their consequences with an average cost of **\$13.3M**. Further to that, **98%** of organizations feel vulnerable to insider attacks.

EXAMPLE

- In 2021, a **Pfizer employee** uploaded **12,000 confidential files** to her Google Drive account from her corporate laptop. She shared confidential documents including drug development data and trade secrets related to the COVID-19 vaccine and its studies.



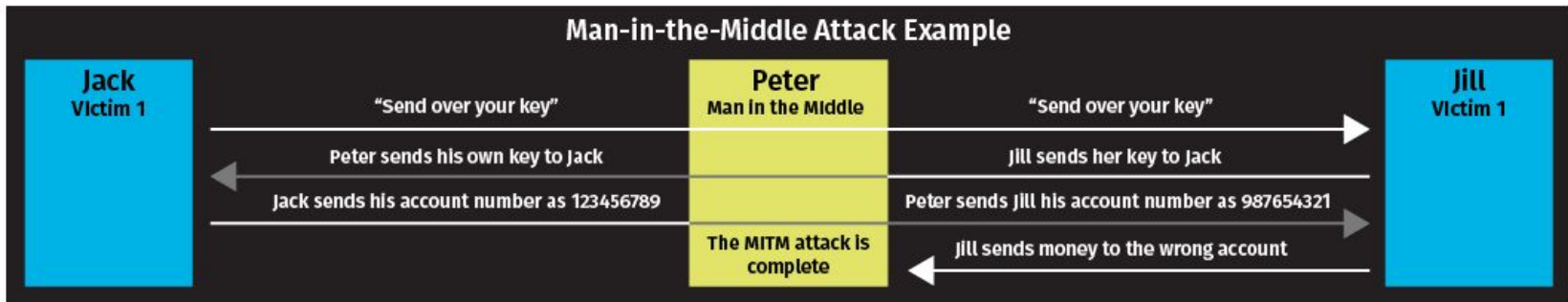
5 - Man-in-the-Middle Attacks

WHAT IS IT?

- An **eavesdropping attack** where cybercriminals **intercept** and **relay messages** between two parties to **steal data**.

HOW DOES IT HAPPEN?

- The **hacker** sets up a **false Wi-Fi network**. Meanwhile, the hacker can note down **passwords, usernames**, and any **private data** users enter while on their network.



STAT

- **Attackers** sent over **30 emails** to disrupt a financial transaction worth **\$1M**. By impersonating users and modifying banking details, funds were transferred to the attackers' account.

EXAMPLE

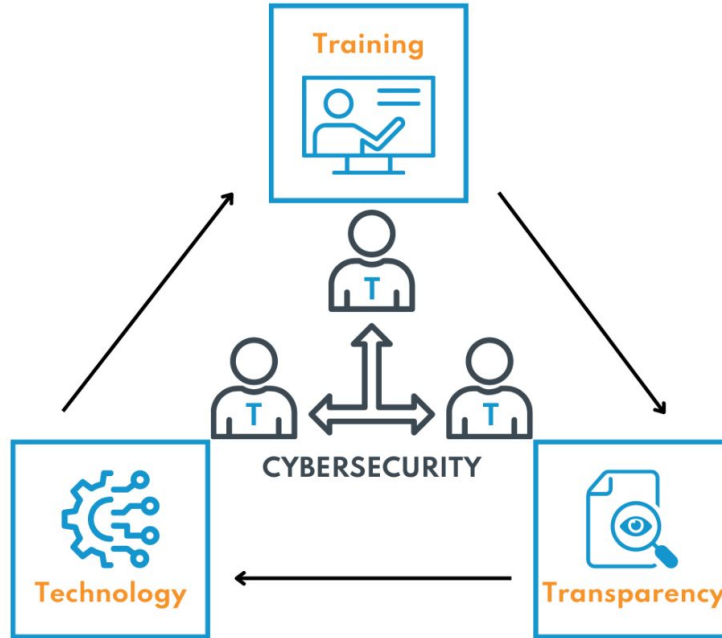
- In a **wire-transfer heist**, an attacker used unique tactics—including **communicating through email** and even **cancelling a critical in-person meeting**—to fool both parties on either end of the transfer.



How can you protect *yourself*
and your *business*?

Follow the three *Ts*!

Employees should understand and be **trained** on company policies about software use, and data ownership.



Technology should support **employees and employers** in detecting, investigating and responding to data breaches.

Employers should be **transparent** about what activities the company is monitoring on work-issued laptops.



Top tips

1. Be **SENSIBLE** - *Never* click on links, download files or open attachments in emails (or on social media) that aren't from a **known, trusted source**.
2. Be **PROACTIVE** - **Learn** as much as possible about *cybersecurity*, **get certified**, and **ask for training** at the workplace.
3. Be **VIGILANT** - *Every situation* you come across *could* be a **potential scam**. It's better to be safe than sorry.



Q + A

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Thank you!