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# The 10 **Biggest & Boldest**

## **Insider Threats of 2019 and 2020**



# 01

## Easy employee access to sensitive databases and **large-scale credential theft**

Canadian Desjardins Group hit with a massive insider-caused data breach after an IT employee stole bank customer information using multiple employees' credentials.

**Company:** Desjardins Group | **Industry:** Financial Services | **Insider Risk Categories:** Database Access Control Issues, Credential Sharing, Malicious Employee

### Lessons Learned:



Protect valuable personally identifiable information (PII) such as bank account details using an ITM platform.



Preventative access controls aren't enough to stop credential sharing.



Detection of shared credential usage and risky database activity should be part of your ITM platform.



Compliance is a basic requirement. Personal Information Protection and Electronic Documents Act (PIPEDA) in Canada applies to data security.

### Learn More:

CBC | PANDA SECURITY | INFOSECURITY MAGAZINE | REUTERS

# 4.2M

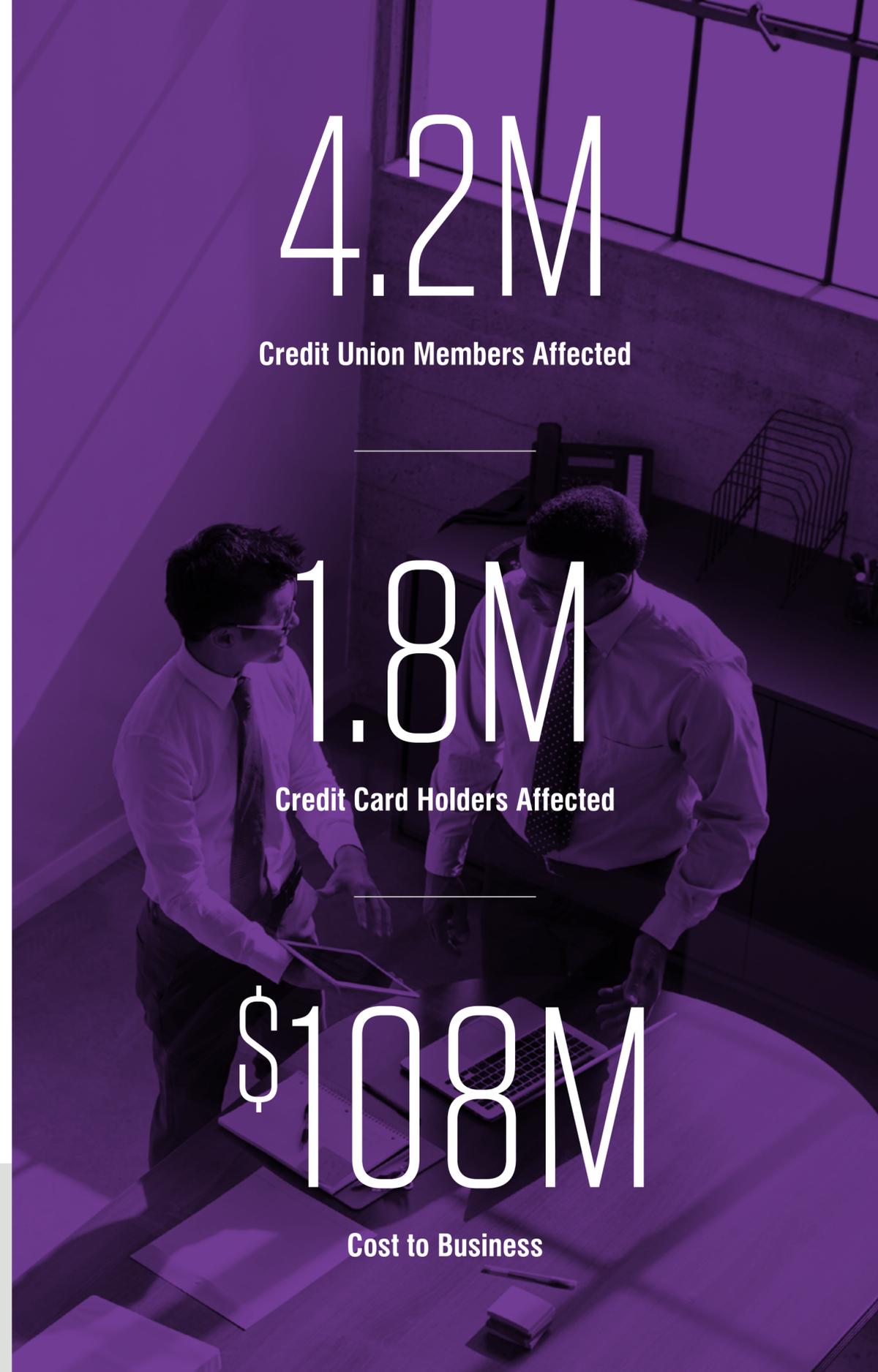
Credit Union Members Affected

# 1.8M

Credit Card Holders Affected

# \$108M

Cost to Business



# 02

Don't mind me...

# just copying some keys

South African Postbank fell victim to a major insider-caused security breach when multiple employees copied the master encryption key.

**Company:** Postbank | **Industry:** Financial Services | **Insider Risk Categories:** Intentional/Malicious, Employee, Encryption Keys

## Lessons Learned:



Robust ITM involves detection, response and user training to meet financial compliance requirements.



Time is of the essence when it comes to alerting, investigating and resolving insider incidents.



Insider threats don't always act alone; sometimes, a group can band together to execute fraud on a massive scale. That's what happened here.

## Learn More:

CPO MAGAZINE | SECURITY BOULEVARD



# \$58M

Cost to Replace Bank Cards

# \$3.35M

Cost of Damages

## 03

## The case of the missing trade secrets

Cybereason claimed in 2020 that its former director of product management stole sensitive intellectual property on his way to a new role at competitor SentinelOne.

**Company:** Cybereason | **Industry:** Technology | **Insider Risk Categories:** Intentional/Malicious, Employee, IP Theft, Privilege Abuse

### Lessons Learned:



Senior product managers help build intellectual property and trade secrets, and they are high-risk insiders.



Alerting on early insider threat indicators—such as copying files to personal cloud storage or using USB drives to exfiltrate data—is key to stopping insider threats.



A robust ITM platform can not only detect what happened before, during, and after an insider incident, but also prevent insiders from covering their tracks.

“

Given [his] intimate knowledge of Cybereason’s products, strategies, strengths, roadmap, and weaknesses, and his apparent retention of proprietary Cybereason documents and information, his departure for a competitor in violation of his employment agreement poses a grave risk to Cybereason’s future,” the company wrote in an April 27 filing with the U.S. District Court in Massachusetts.”

### Learn More:

CRN | SECURITY DISCOUNTS

# 04

## What happens when security companies aren't so secure?

A Trend Micro employee sold data belonging to 68,000 customers to a malicious third party who used the data for scam phone calls.

**Company:** Trend Micro | **Industry:** Technology | **Insider Risk Categories:** Intentional/Malicious, Employee, Data Exfiltration, Scam, Third Party

### Lessons Learned:



Even security companies are vulnerable to insider threats. In fact, no industry or company is immune to this insidious threat type.



Sensitive data lives in many places in any given organization, so blocking is not effective. Alerting and contextual threat intelligence are key.



Proactivity is of utmost importance. The last thing an organization wants is to learn about a breach from its customers.

# 68K

Customers' Data Sold for  
Scam Phone Calls

### Learn More:

[THREATPOST](#) | [ZDNET](#) | [OBSERVEIT](#)

# 05

## Twitter hacked by a 17-year-old Floridian

A group of hackers led by a teenager coerced a Twitter employee to give up credentials for administrative tools, leading to verified account compromises and a Bitcoin scam.

**Company:** Twitter | **Industry:** Technology | **Insider Risk Categories:** Employee, Credential Theft, Social Engineering, Scam, Fraud

### Lessons Learned:



Attacks like these can call reputations into question and spark debate and scrutiny about the security and privacy practices of Twitter and other major services.



Work-from-home policies may be part of the reason it was so easy for the scammers to infiltrate and convince an insider to give up credentials—a warning for remote teams.



Least-privilege access and careful monitoring of high-risk, high-privilege users are key to avoiding a similar attack at your organization.

# \$117K

Stolen from Customers

### Learn More:

NYTIMES | CNN | THE VERGE

# 06

## PPE shipments sabotaged

# during the COVID-19 crisis

The former VP of finance at Georgia-based Stradis Healthcare sabotaged shipments of personal protective equipment (PPE) during the early days of U.S. pandemic response in an apparent act of sabotage.

**Company:** Stradis | **Industry:** Healthcare | **Insider Risk Categories:** Employee, Privilege Abuse, Intentional/Malicious, COVID-19, Revenge

## Lessons Learned:



Creation of fake accounts is a key insider threat indicator that should be quickly flagged by security software and reviewed internally.



Employees with a disciplinary history—especially those involving access and system abuse—should be flagged as high-risk and monitored with extra caution. Revenge is a common motive for malicious insiders.



Employees with a high level of privilege, such as a VP of finance, should also automatically receive more scrutiny to ensure they do not abuse their privileges.

# \$5K

**Cost to Business**

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BANKINFOSECURITY | NEWSBREAK



# 07

Are you sure you trust

# that contract IT team?

An IT agency hired by Singapore’s SingHealth caused a data breach involving records for 1.5 million patients by failing to follow security best practices and ignoring warning signs.

**Company:** SingHealth | **Industry:** Healthcare | **Insider Risk Categories:** Accidental/Negligent, Third Party, Data Exfiltration, Poor Security Hygiene

## Lessons Learned:



SingHealth’s contractor neglected Singapore’s stringent regulatory requirements for privacy and security via the Personal Data Protection Act.



Insider threats can also originate with third parties, including IT vendors. Insider threat monitoring must cover all insiders.



A robust combination of insider threat technology, security awareness training and responsible systems management is required for a complete security strategy.

# 1.5M

Patients Affected

# \$250K

Cost to SingHealth

# \$750K

Cost to Responsible IT Firm

## Learn More:

# 08

A newspaper makes headlines—

# and not in a good way

French newspaper Le Figaro's accidental data leak—caused by a third-party hosting firm's poor security hygiene—exposed 7.4 billion records.

**Company:** Le Figaro | **Industry:** Media and Communications | **Insider Risk Categories:** Third Party, Accidental/Negligent, Data Loss

## Lessons Learned:



Third-party vendors must meet strict risk assessments before they are used to store or traffic valuable information about users.



Attacks often morph from data theft to more complex and dangerous attacks that target internal systems, so it's key to have early warning systems in place.



Database leaks are one of the most common insider threat types, so make sure yours are properly configured and that monitoring is in place to detect leaks.

# 7.4B

User Records Exposed

## Learn More:

INFOSECURITY MAGAZINE | BLEEPING COMPUTER

## 09

## Cleanup in the data security aisle

A senior internal auditor at U.K. grocery chain Morrisons leaked the payroll data of almost 100,000 employees and found himself convicted of fraud in a case that made its way up to the U.S. Supreme Court.

**Company:** Morrisons | **Industry:** Retail | **Insider Risk Categories:** Employee, Data Exfiltration, Intentional/Malicious, Revenge, Fraud

### Lessons Learned:



While Morrisons escaped liability for its employee's actions, that is not always how things play out in the courts. Insider threats open up businesses to significant liability.



Implementing an insider threat detection platform decreases the odds that an employee can successfully exfiltrate and expose sensitive information.



Internal auditors may be thought of as “watchdogs,” but it's key to also watch the watchdogs—who in reality have massive access and potential for abuse.

# 100K

Employees' Payroll Data Leaked

# £2M

Cost to Business

### Learn More:

THE GUARDIAN | NATIONAL LAW REVIEW | INFORMATION AGE

## 10

# Chaos in the warehouse

After quitting, a former IT admin at an Atlanta-based building products distributor committed sabotage by changing router passwords and shutting down the central command server.

**Company:** Building Products Distributor | **Industry:** Manufacturing & Logistics | **Insider Risk Categories:** Employee, Privileged User, Revenge, Multi-Stage Sabotage, Intentional/Malicious

## Lessons Learned:



Many security tools miss the signs of insider threat activity, a strong argument for investing in a purpose-built ITM solution.



IT managers have significant privileges and should be considered high-risk users. ITM tools should be used to monitor their activities both during and after employment.



More security precautions should be implemented around systems and devices that have the power to bring a company down—such as central command servers.

# \$800K

Cost to Business

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BANKINFOSECURITY



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