

# 3 IDENTITY HACKS

HOW THEY GOT IN &  
HOW TO STOP THEM

BeyondID okta



Identity fraud cost  
Americans **\$43B** in  
2023. Of that sum,  
**\$20B** could be traced  
directly to modern  
identity fraud scams  
preventable by strong  
identity security.

*Javelin Strategy & Research, 2023*



# Introduction

Snowflake, Experian, and Westpac—three industry giants, each hit by major data breaches that exposed sensitive information and shattered trust.

The worst part? **These breaches were entirely preventable.** What went wrong, and how can you make sure it doesn't happen to you? Read on to find out.

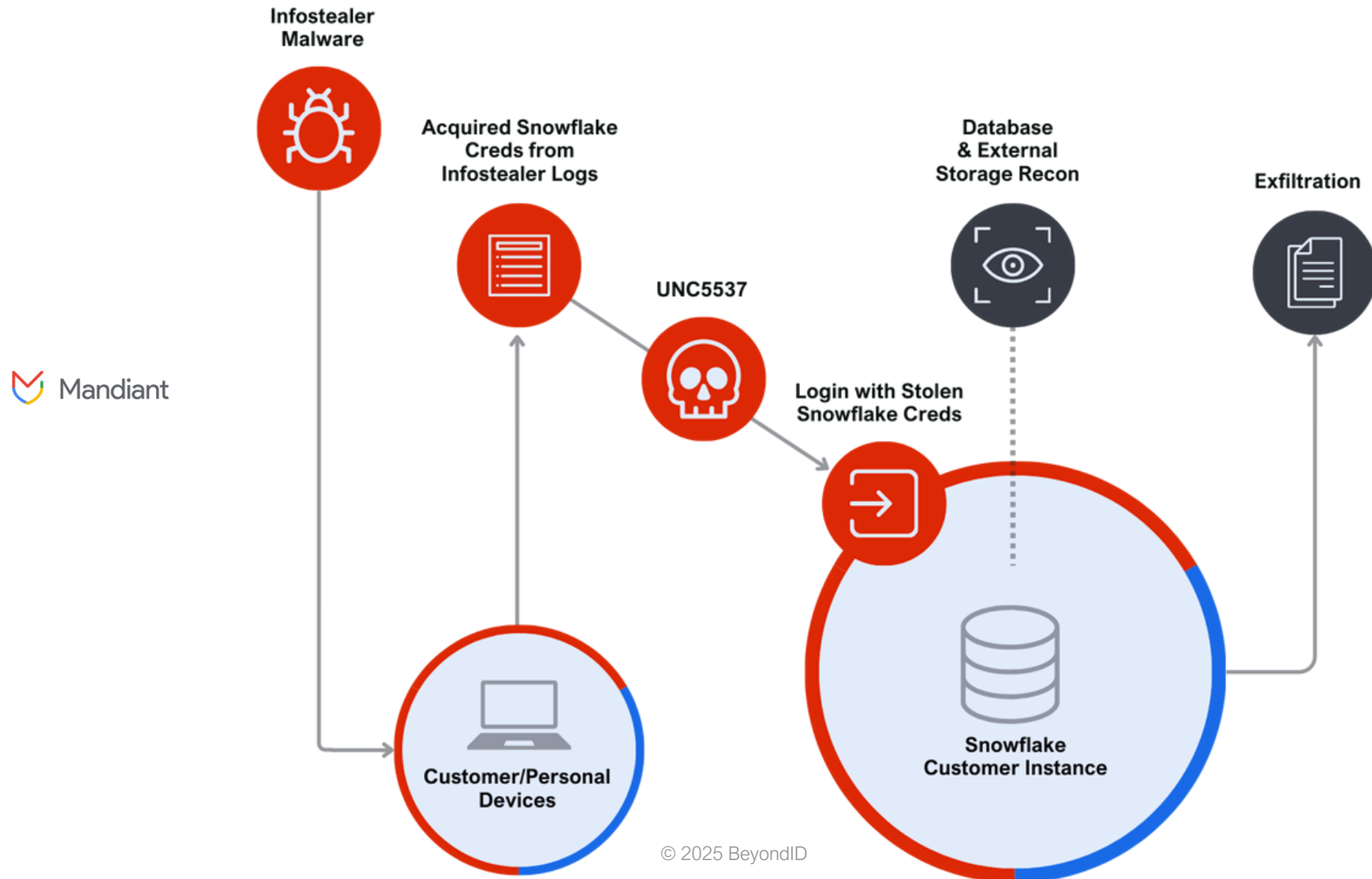


# WHAT HAPPENED?



# Snowflake Breach

## Attack Path Diagram



**How one person managed to help hackers breach not one, not two, but dozens of well-known brands by reusing their password.**



Snowflake employee Jeremy (not their real name) didn't feel like creating a new password during their onboarding process with dozens of well-known customers.

In several Snowflake-related investigations, Mandiant observed that the initial compromise of infostealer malware occurred on contractor systems that were also used for personal activities like gaming and downloading pirated software. Attackers exploited compromised credentials to access individual customer accounts on Snowflake's platform.

Impacted accounts were not configured with MFA, which allowed hackers to enter with only a username and password. Credentials were valid years after they had been stolen.





# Experian Breach

## Social Engineering Attack



A social engineering attack on credit reporting giant Experian exposed the data of **>24 Million** customers and nearly **800,000** businesses.

In August 2020, a bad actor posing as a POC at one of Experian's client organizations called the company's South Africa office and successfully solicited internal customer data.

An investigation into the incident revealed that hackers planned to sell the data as marketing leads.

Experian claims that data provided was commonly exchanged with clients, and not extraordinarily confidential.

### Data Obtained



Residential addresses



Work addresses, job titles, & start dates



Home, mobile, & work phone numbers



Email addresses

# Westpac PayID

## Third Party Attack



In 2018, hackers exploited a weakness in mobile-pay partner PayID's security posture that would allow them to obtain the personally identifiable information (PII) of ~98,000 Westpac customers across Australia.

Unbeknownst to many Australians, PayID functions like a telephone book, allowing users to enter mobile numbers or email addresses to verify the names of account holders.

Using 7 compromised Westpac logins, bad actors carried out an enumeration attack that used 600,000 random searches to hit on almost 100,000 matches.

Full names, email addresses, phone numbers, and unspecified account information made up the data leaked during this attack.

**07**

**Westpac Live accounts compromised**

**600k**

**PayID lookups made from those seven accounts**

**98k**

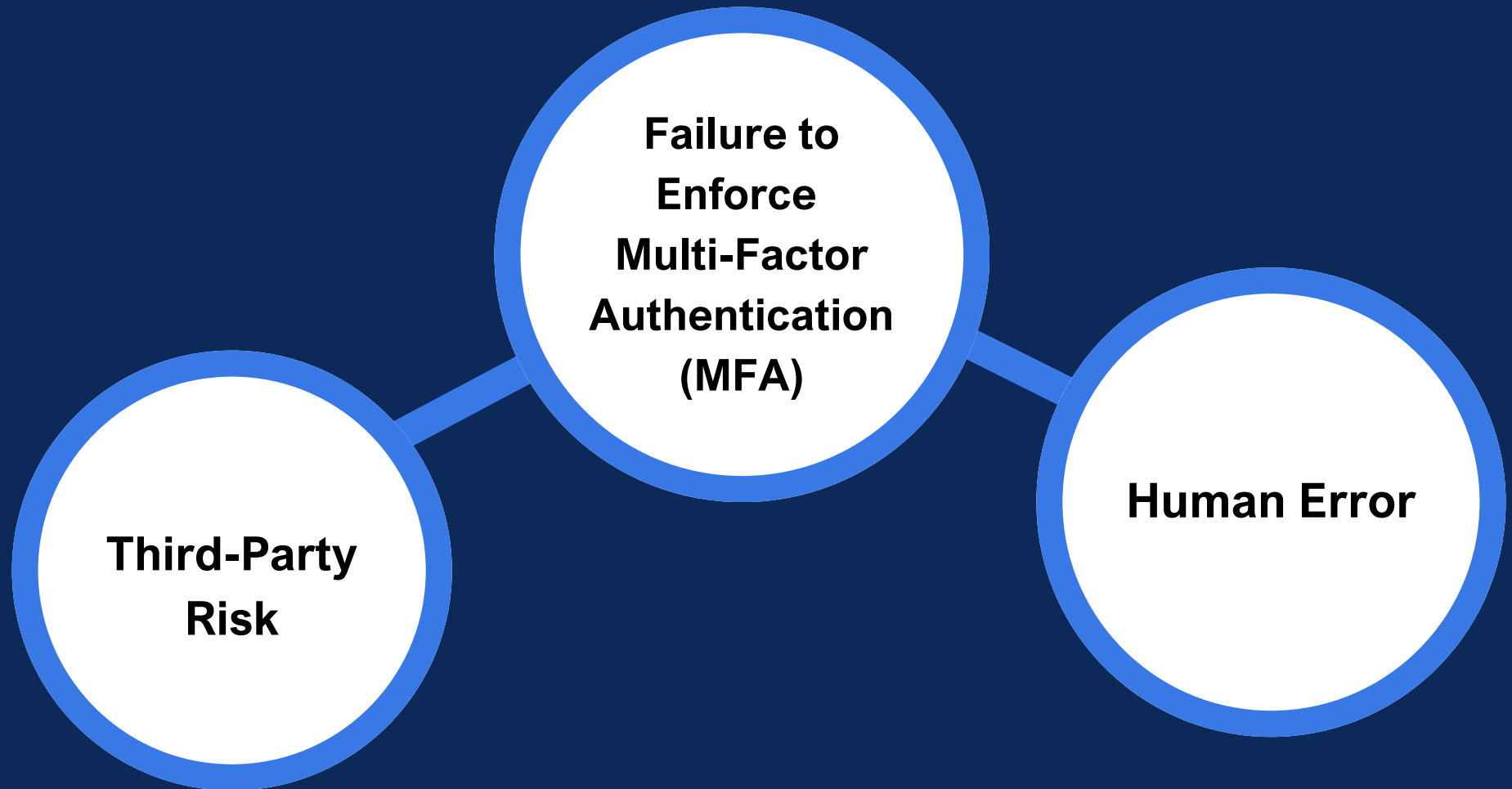
**Of 600,000 lookups exposed PII to hackers**



# WHY DID IT HAPPEN?

# Common Vulnerabilities

Snowflake | Experian | Westpac

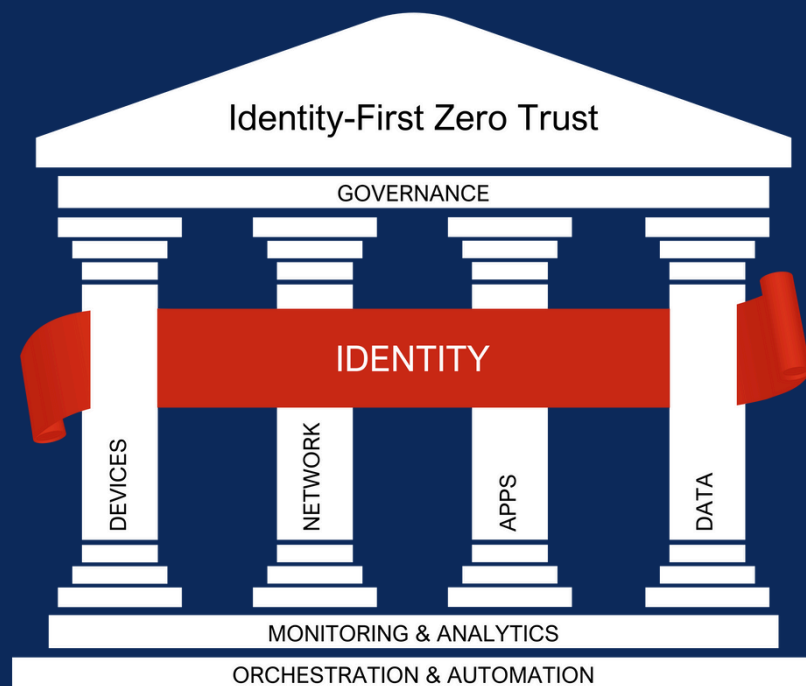




# HOW TO STOP IT FROM HAPPENING TO YOU

# Identity-First Zero Trust

## Architecture



With a robust, identity-centric zero trust strategy things could have gone much differently for Snowflake, Experian, and Westpac.

Identity-first zero trust architecture brings identity into focus as the throughline of zero trust function, ensuring:

- **Contextual and continuous authentication** is in place before any data, application, network, or service is accessed.
- **Strengthened Incident response** processes through enhanced visibility into user behavior and rapid detection of anomalies.
- **Seamless user experience** that minimizes friction by adapting authentication requirements based on risk signals, allowing users to work securely without unnecessary disruptions.



# Case Study: Texas Dow Employees Credit Union

## Fraud Prevention Strategy



HQ: Lake Jackson, TX



40+ branch offices in Texas



366,000+ members



Assets of \$4.5B



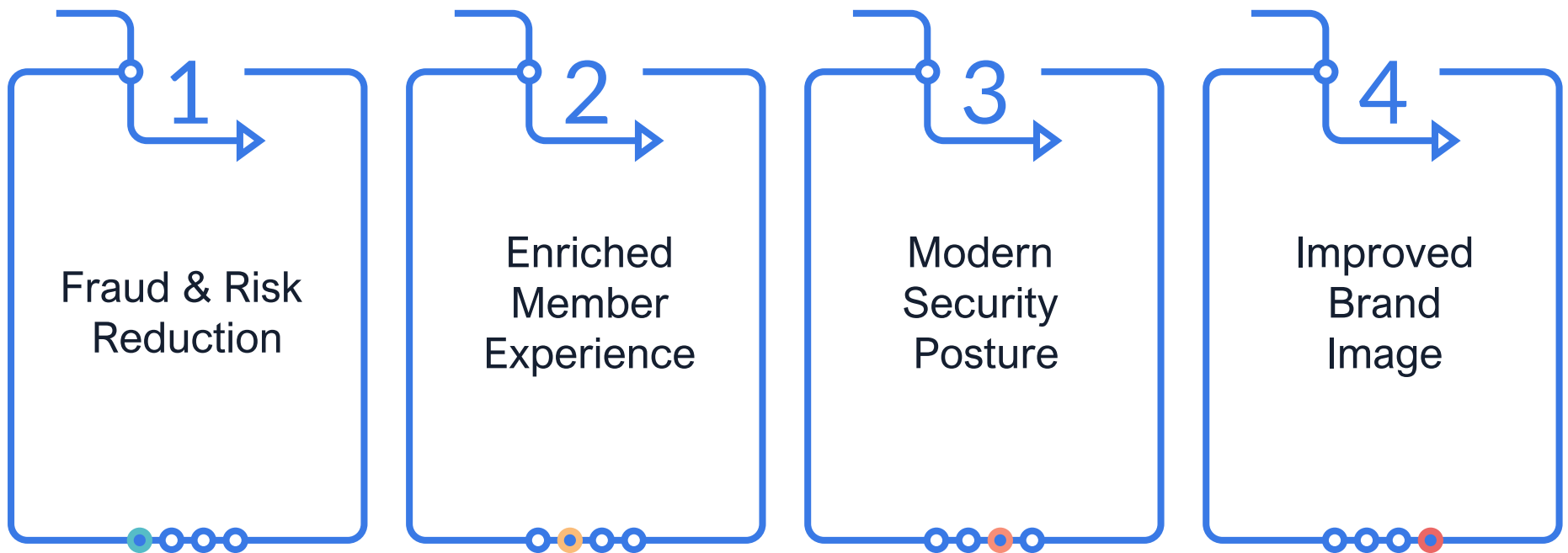
Full range of banking & financial services

## Implementation Strategy:

- Modernize banking experience
- Enhance security
- Continuous release cycles
- Automate identity proofing
- Optimize mobile application



## Expected Outcomes



# Case Study: Commerce Bank

## Balancing Security & User Experience



HQ: Kansas City, MO



275+ branches across  
Missouri, Kansas, Illinois,  
Oklahoma, and Colorado



Assets of \$31B



Full range of banking &  
financial services





Commerce Bank aimed to modernize their customer experience by developing new web and mobile applications. It was important these changes would not undermine, but enhance, their security posture and support their fraud prevention strategy.

They selected the Okta Platform with BeyondID managed services to integrate Commerce Bank's *legacy platform* and enhance *IAM* capabilities for a seamless migration.

## Outcomes

With a fully-integrated customer identity solution, Commerce Bank securely onboarded all existing customers without requiring re-registration, ensuring widespread adoption of a more modern customer experience.

With identity at the center of their CX strategy, Commerce Bank was able to

strike a balance between security and experience. A central view of activity within their Okta environment will help them maintain that balance.



# Lessons Learned

**Data-driven security is essential for early fraud detection and risk reduction**

**Adopting an Identity-First Zero Trust approach is crucial to mitigating risk**

**Security and experience must be balanced to prevent breaches**

# BeyondID & Okta

## Better Together

### BeyondID

**Okta Apex Partner  
3x Partner of the Year**

BeyondID is a leading, AI-powered managed identity solutions provider (MISP). Since its inception, BeyondID has partnered with Okta to deliver comprehensive identity solutions, including fraud prevention for financial services organizations. BeyondID employs more Okta certified professionals than any other partner.

### okta

**Leading Independent Identity  
Provider**

BeyondID is a managed identity solutions provider. Since its inception, BeyondID has partnered with Okta to deliver comprehensive identity solutions, including fraud prevention for financial services organizations. BeyondID employs more Okta certified professionals than any other partner.



# GET STARTED TODAY

**Let's talk about your fraud  
prevention plan.**

[info@beyondid.com](mailto:info@beyondid.com)

**BeyondID** **okta**

# Sources

Buzzard, J. (2023). *The Butterfly Effect*. Javelin Research & Strategy.

Identity Theft Resource Center. (2024). *Q1 2024 Data Breach Analysis*.

Mandiant. (2024). *M-Trends: 2024 Special Report*.

Mandiant attack path diagram