

What, When, and Where

• December 18, 2013

international-scale cyberattack

stolen credit and debit card information

(Clark, 2014)



The Beginning

• started in late November - before Black Friday

Target knew but did not tell the public



How could something like this happen?



Software issues, but also plain negligence...



How It Happened - Part 1

Directed at third-party vendor vulnerability, not Target

- Fazio Mechanical
- Phishing email
- Citadel malware
- Acquired login credentials



Key Note - Citadel

 Normally identifiable by company antimalware software

Limited protections in use - no real-time

How It Happened - Part 2

Breach Target servers

Directed at Target's point of sale (POS) systems

Trojan.POSRAM

Stole the card information when swiped



How It Happened - Part 3

Relayed back to attacker's servers

Sold information on digital black market



Damages to Target

- Lost lots of money and consumer trust 46% drop and beyond (Clark, 2014; Case Study: What We've Learned From the Target Data Breach of 2013)
- Lost even more money, facing 140 lawsuits in 3 years (*Case Study: What We've Learned From the Target Data Breach of 2013*)
- Cost \$252 million even before the lawsuits (Case Study: What We've Learned From the Target Data Breach of 2013)
- Mass layoffs (Clark, 2014)
- Target CEO, Gregg Steinhafel, had to step down (Clark, 2014)



Other Damages

Banks had to reissue 21.8 million cards

(Case Study: What We've Learned From the Target Data Breach of 2013)

How could this have been prevented, and how can it be prevented in the future?



Employee Changes

• Basic employee cybersecurity training

Password rotation (Kassner, 2015)

 Limitations on who has network access, and limit privileges of those who do (Kassner, 2015)

Software Changes

 Invest appropriate funds into anti-malware software and cyberattack countermeasures

 Two-factor authentication with those that have internal access to sensitive information.

Increase system monitorization

Improve firewalls

EMV technology - card protection

Case Study: What We've Learned From the Target Data Breach of 2013

References

Case Study: What We've Learned From the Target Data Breach of 2013. CardConnect. (n.d.). Retrieved November 30, 2021, from https://cardconnect.com/launchpointe/payment-trends/target-data-breach.

Clark, M. (2014, May 5). Timeline of Target's Data Breach and Aftermath: How Cybertheft Snowballed For The Giant Retailer. International Business Times. Retrieved November 30, 2021, from https://www.ibtimes.com/timeline-targets-data-breach-aftermath-how-cybertheft-snowballed-giant-retailer-1580056.

Kassner, M. (2015, February 2). Anatomy of the Target data breach: Missed opportunities and lessons learned. ZDNet. Retrieved November 30, 2021, from https://www.zdnet.com/article/anatomy-of-the-target-data-breach-missed-opportunities-and-lessons-learned/.