



Target's 2013 Data Breach

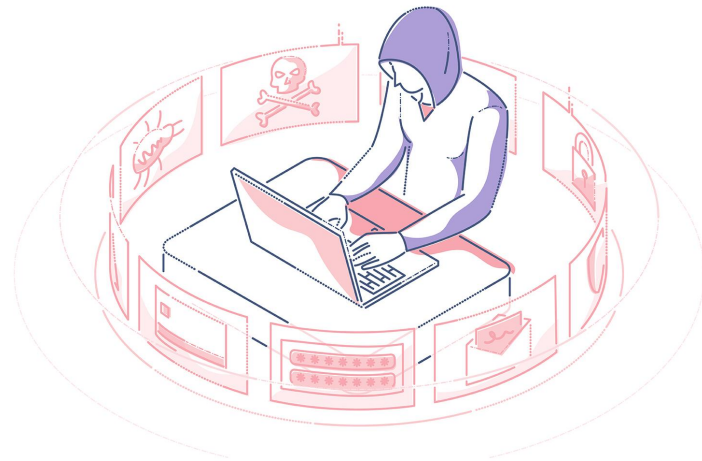
By Mikael La Ferla



Introduction



- 3 weeks long
 - 40 million credit and debit cards
 - 70 million personal records
 - All stolen
- Target's loss
 - Over \$200 million
 - Plus more in missed out revenue
 - Profits dropped 46%



So what happened?

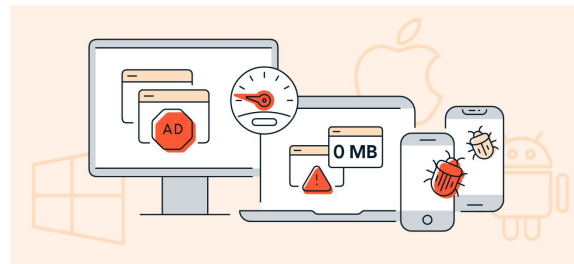


- Fazio Mechanical Services
 - Third-party contractor
 - Phishing attack
 - Target's billing, contract, and general management information
- Small business, minimal resources
 - No malware detection software
 - Made them an easy target
 - (No pun intended)



What tactics did they use?

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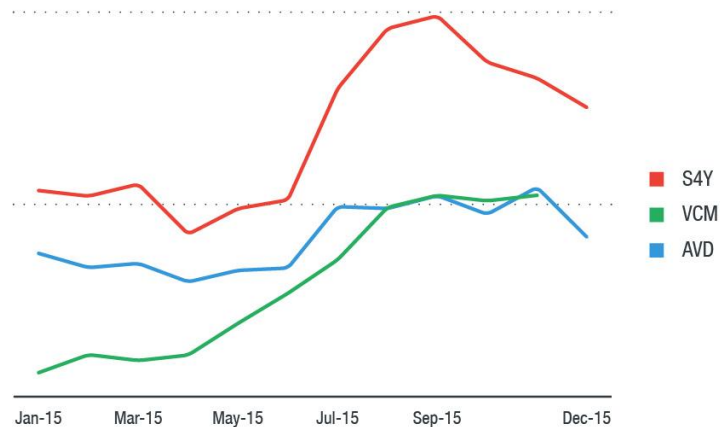


- Simple Google searches
 - Microsoft's website displayed Target's:
 - Virtualization software
 - Centralized name resolution
 - Configuration manager - deploys security patches and updates
- Malware, malware, and more malware
 - Citadel → Harvested web app credentials stored within infected machine browser
 - Trojan.POSRAM → Identified unencrypted track data when credit cards are processed at a POS terminal
 - Scan4You → Determine whether another hacker's malware would be detected or not

Ruslan Bondars



- The influence of Scan4You
 - Became the most popular “counter-anti-virus” service on the black market
- Sentenced to 14 years in prison
 - Facilitating cybercrime – Scan4You
- His fatal mistake
 - URL scans reporting was overlooked



Similar Data Breaches

- TJX Companies

- Operate T.J. Maxx, Marshalls, and HomeGoods
- FTC filed a complaint
 - Pointing out lack of security measures
- Lost between \$500 million and \$1 billion
 - Paid \$9.7 million in settlements

- The Home Depot

- Lost \$179 million
 - Paid \$19.5 million to customers impacted
 - Paid \$134.5 million to credit card companies and banks



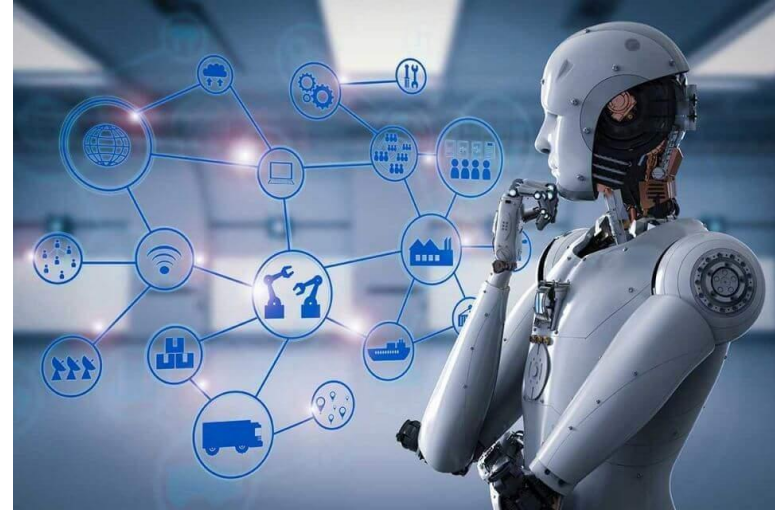
TARGET



What does the future hold?



- Governments evolve
 - But so do hackers
- Change their approaches
 - Less retailers, more third-parties
- Improved malware





Conclusion

- To infiltrate Target, hackers had to go through
 - Third-party contractor, Fazio Mechanical Services
- One of the largest data breaches of all time
- Creator of popular counter-anti-virus service, Scan4You
 - Sentenced to 14 years in prison
- To avoid data breaches:
 - Buy antivirus software for your electronics
 - Guard personal information from unqualified people
 - Keep updated on new phishing attacks