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Security Strategic Plan

- "If you know the enemy and know yourself you need not fear the results of a hundred battles." --- Sun Tzu
- Business Strategy---Know yourself
- Understand the Threats --- Know the enemy
- By understanding the threats, we can improve our defenses and understand where attackers are weak.

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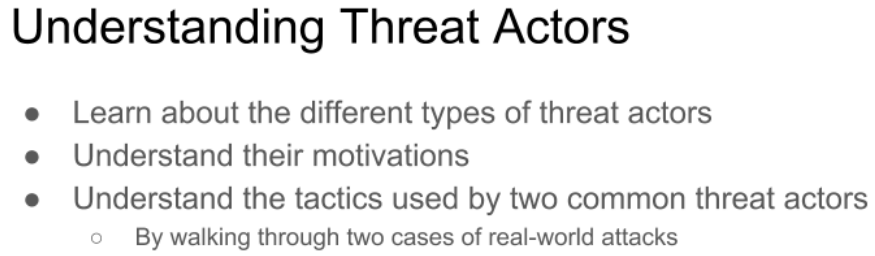

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VERIS Threat Actors

Category	Description	Actor	
External	Threats from sources outside the organization and its partners. This includes criminal groups, lone hackers, former employees, and government entities as well as "Mother Nature" and chance.	• Acquaintance • Activist • Auditor • Competitor • Customer • Force majeure	• Former employee • Nation state • Organized crime • State affiliated • Terrorist • Other
Internal	Threats that arise from within the organization. This includes full-time employees, contractors, interns, and other staff.	• Auditor • Call center staff • Cashier • Developer • End user • Executive • Finance	• Help desk • HR • Maintenance staff • Manager • Security guard • System admin • Other
Partner	Any third party that has a business relationship with the organization. These business partners usually have some level of trust or privilege.	• Supplier • Vendor • Hosting provider • Outsourced IT • Other	

Simple Threat Actors and Motivations

Threat Actor	Description	Motivation
Hacktivist	Activist groups target organizations because of real or perceived slights. Their goal is to damage the brand and embarrass the organization.	• Ideology or protest • Fun, curiosity, or pride • Grudge or personal offense
Organized Crime	Criminals want to make money using stolen data and access to systems. They use malware, phishing, and application attacks to steal data	• Financial gain
Nation State	Countries attempting to gain economic or military advantage over their adversaries and economic competitors by stealing data and sabotaging equipment.	• Espionage • Competitive advantage • Fear or duress
Competitor	Other organizations in the same or similar industries seeking proprietary information.	• Espionage • Competitive advantage
Insider	Employees who put data at risk by violating policies and standards or through negligence.	• Espionage • Grudge or personal offense • Convenience or expediency
Partner	Vendors that are relied upon to store and process sensitive information. Partners may have relevated levels of access to sensitive data or systems.	• Espionage • Convenience or expediency

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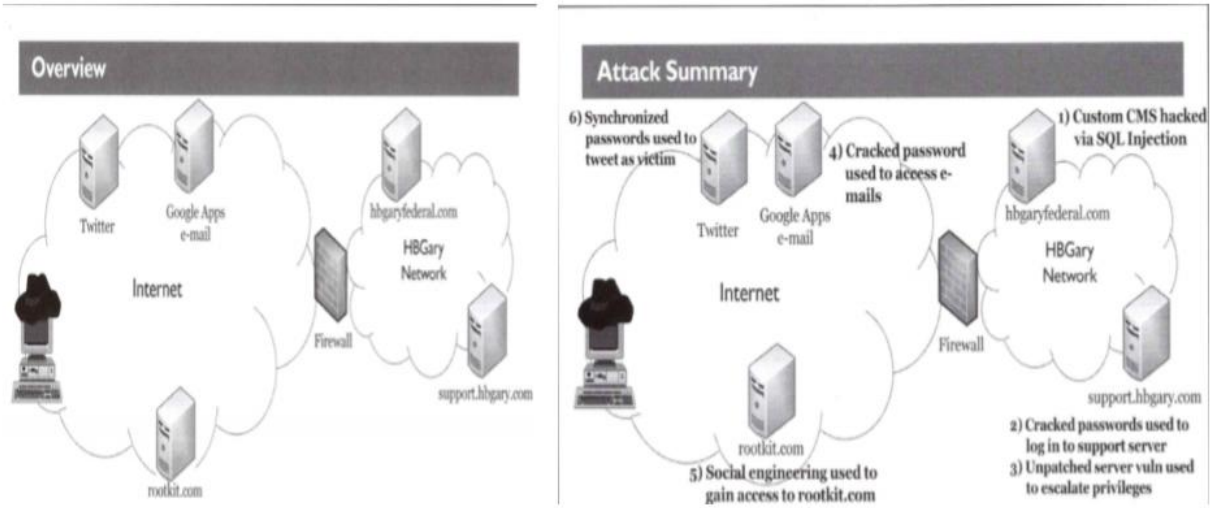
Hacktivist Cases

Anonymous

- Hacktivist collective
  - Ideological motivated
  - Driven by social and political agendas
  - Seeks publicity to humiliate and embarrass targets
  - Not profit driven
- Some high-profile attacks
  - **Sony PlayStation Network hack:** Sony attacked after it filed suit against PS3 hacker George "GeoHot" Hotz
  - **Operation Payback:** Amazon, Paypal, MasterCard, Visa attacked for anti-WikiLeaks behavior
  - **HBGary Hack:** After announce by Aaron Barr claiming he could unmask Anonymous by using social media and IRC analysis

HBGarry System Compromise



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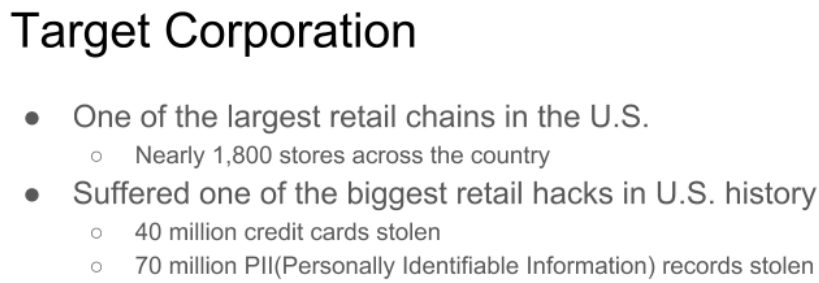

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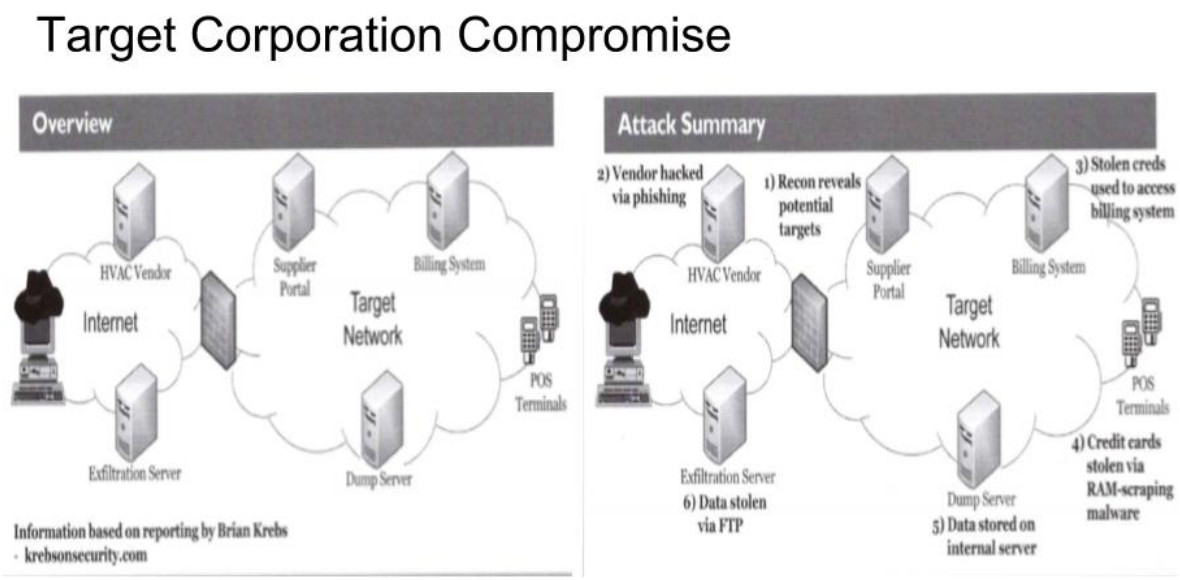

Assets Analysis

- Different types of assets
  - What is most valuable to your organization?
    - What is most critical to the mission?
  - What is most valuable to the attacker?
    - What does the attacker want to accomplish?

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Policy, Standard and Guideline

Types

- General
- Network
- Server
- Application
- Others

Example

- Workstation Security (For HIPAA) Policy
- Server Security Policy
- Software Installation Policy
- Web Application Security Policy
- Data Breach Response Policy
- Email Policy
- End User Encryption Key Protection Policy

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