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Josh Wilcox (jw14g24), May 2, 2025

## 6 Supply Chain Attacks

- Recent form of scam known as "CEO fraud" or "whaling"
- Requests large money transfers by pretending to be a CEO or Senior manager of the company
- Often involves grooming and back-and-forth between the attacker and the target
- Rely on the employee (target of the scam) being distant from the CEO and not understand they're being scammed

- Attacker sends email with subject referring to an invoice or bill
  - Includes an attachment the user is lured to open
- The attachment is usually a PDF, office document, or script file
- When executed, the attachment could run a script which installed ransomware
- This ransomware encrypts some files which are only decrypted only by paying a random

- One of the most frequent cyber attacks
- Focuses on stealing **data** rather than money directly
  - Emails, Names, Passwords, Dates of Birth, Security Questions/Answers

- Threat Actors - Mostly **External**
- Motives - Mostly **Financial**
- Profiles - Mostly **Organised Crime**
- Attack Types - Mostly **Use of stolen credentials**

- Public disclosure and exposure
  - Hacktivists - e.g. through WikiLeaks
  - Cybercriminals
- Private Intelligence
  - Done by nation states or conglomerates
- Sold on black market



- Mirai is a DDoS system that scans for vulnerable IoT devices over the internet
- It uses a set of hardcoded, and common, usernames and passwords
  - Remember IoT is famously insecure for some reason
- It infects the IoT devices with a malware that forces them to report to a C&C server

- Cyber-Attacks and information release aimed to influence a large population's **choices** and **thinking**
- Use massive amounts of **bots** in social media platforms
  - Each is a small account automatically spreading specific ideas
  - As GenAI gets better, it is very hard to detect these



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- Compromisation of the weakest link in a supply chain
- Extorts the supply chain to eventually reach the target
- Example: Hacking github repositories of early software before release