

# Cybersecurity and Social Engineering

By Nelson Cheng

# What is Social Engineering

Social Engineering is attacking the person, not the system or device directly. It focuses on taking advantage of human Psychology.



# Phishing

The Hacker sends out emails or messages that look real to trick people into handing over information.



# Vishing

Using voice to conduct Phishing, often impersonating people you trust over phone or other method of communication



# Baiting

Hackers trick people into downloading malware or handing over information by luring them with promises of rewards or other wanted content



# Real World Examples

## 2023 MGM Cyberattack - Vishing

- Called IT desk tricking people to giving an Admin Account

## 2015 Bundestag Hack - Phishing

- Fake UN emails to trick parliament offices



# Possible Solutions

- Awareness Training
- Communications Security
- Two Factor Authentication



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# Works Sited

**Jarvers, L.** (n.d.). *"It hurts": The 2015 Bundestag cyber-attack reveals deficiencies in German cyber defense.*

<https://www.louisjarvers.de/bt-hack/>

**NordLayer.** (n.d.). *12 ways to prevent social engineering attacks.* <https://nordlayer.com/blog/how-to-prevent-social-engineering-attacks/>

**Cybernews.** (n.d.). *Avoiding social engineering attacks: Essential strategies for protection.*

<https://cybernews.com/security/avoiding-social-engineering-attacks/>

**CrowdStrike.** (n.d.). *Vishing: Definition and prevention.*

<https://www.crowdstrike.com/en-us/cybersecurity-101/social-engineering/vishing-attack/>

**Vakulov, A.** (2025, March 29). *14 top social engineering attack types and their subcategories.* Forbes.

<https://www.forbes.com/sites/alexxvakulov/2025/03/29/14-top-social-engineering-attack-types-and-their-subcategories/>