

What is Social Engineering

Cyberattacks where attackers trick people into divulging sensitive information or performing actions they wouldn't normally do. The success of a social engineering attack depends on the attacker's ability to manipulate the victim's trust and emotions and can have serious consequences such as data breaches, identity theft, and financial loss.



4 million

Several green dollar bills are shown falling from the top of the frame, scattered around the large text '4 million'.

IBM reports in their 2022 Cost of a Data Breach report that the average cost of a data breach with social engineering as the initial attack vector surpassed a cool \$4 million.



Types of Social Engineering



Phishing

Attackers send malicious emails designed to trick people into falling for a scam.



Vishing

Attackers use telephony to trick people into falling for a scam



Shoulder-surfing

a technique used to obtain information such as personal identification numbers, passwords, and other confidential data by looking over the victim's shoulder



Whaling

a highly targeted phishing attack - aimed at senior executives - masquerading as a legitimate email.

Social engineering defenses

Controls & Policies



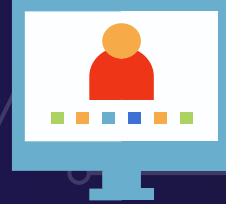
- Time-based account access control (TAAC)
- Role-based access control (RBAC),
- Multi-factor authentication (MFA)

Security Awareness Training



Educate users on types of social engineering methods, train users, and raise awareness on best practices to counter or defend against social engineering

Technologies



- Spam filters and secure email gateways
- Firewalls

Free Dedicated phishing simulation tools

- Gophish
- Evilginx
- Social-Engineer Toolkit (SET)
- Phishing Frenzy
- BeEF



SET



```
[---]      The Social-Engineer Toolkit (SET)      [---]  
[---]      Created by: David Kennedy (ReL1K)      [---]  
              Version: 8.0.3  
              Codename: 'Maverick'  
[---]      Follow us on Twitter: @TrustedSec      [---]  
[---]      Follow me on Twitter: @HackingDave     [---]  
[---]      Homepage: https://www.trustedsec.com [---]  
Welcome to the Social-Engineer Toolkit (SET).  
The one stop shop for all of your SE needs.
```

The Social-Engineer Toolkit is a product of TrustedSec.

Visit: <https://www.trustedsec.com>

For a cyber range, the Red Team can stimulate social engineering attacks with SET to provide real-life examples of how attackers operate. Clients and organizations can identify behaviors to look out for to mitigate risks.