

June 26, 2024



Coronavirus Social Engineering Attacks: Issues and Recommendations

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Introduction

- COVID-19 Pandemic
- Cybercriminals taking advantage
- Social Engineering Attacks:
 - **Types:** Physical, Technical, Social, and Socio-Technical
 - **Methods:** Human-based and Computer-based
- Recommendations for both individuals and industry



Background

- Social engineering focuses on the manipulation of users
- 33% of actions used during attacks come from social engineering
- Understand factors affecting human behavior
- Key actors at play:
 - Cybercriminal
 - End user (victim)



Background

- Human Security Behavior
 - Careless Attack
 - Comfort Zone Attack
 - Helpful Attack
 - Fear Attack
- Security Awareness Methods
 - Conventional
 - Instructor-Led
 - Online
 - Simulation-Based
 - Game-Based



Evaluation

Malicious Attachments & Malware

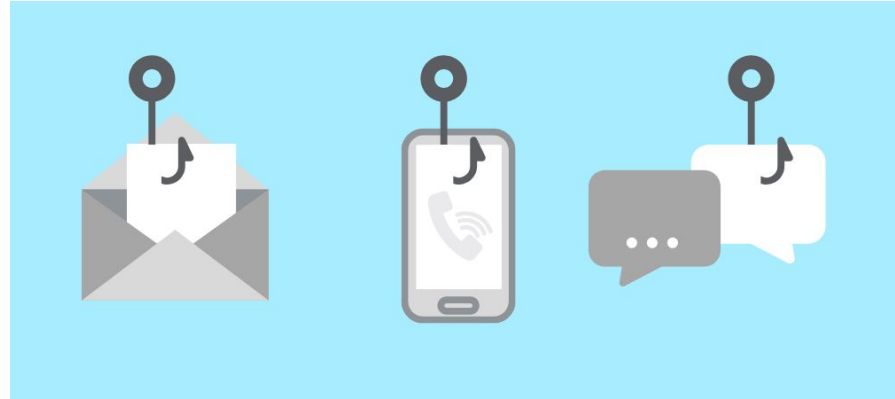
- Attachments and links via email or social media applications which download malware
- Claim to be from known or familiar source
- Steal personal information (e.g., personal details, banking)
- Coronavirus Map



Evaluation

Key Terms & Concepts

- Social Engineering
- Spear Phishing
- SMS Phishing (Smishing)
- Voice phishing (Vishing)
- Remote Work



Evaluation

Remote Work

- Staff under pressure and working remotely
- Stealing credentials to gain access to network (VPN)
- Deployment of ransomware



Proposed Solutions

Technical Recommendations

- SPAM and phishing filters
- Make sure of anti-virus software (i.e., endpoint security)
- Disable macros by default on Microsoft Office documents
- Configure screen locks for when devices are left unattended
- Install patches/updates
- Enforce MFA, especially for remote connections
- Encrypt sensitive data at rest and in transit, including Wi-Fi connections
- Disable the use of removable media
- Perform regular backups



Proposed Solutions



Security Awareness

- Educate staff about social engineering tactics
- Provide ongoing training
 - Security awareness is not a “one-time” task
- Provide clear guidelines of what is “acceptable behavior”



Proposed Solutions

Detection of “Red Flags”

- Authority (CEO, bank, government)
- Urgency (respond immediately)
- Emotion (fear, hope, etc.)
- Scarcity (limited quantity)
- Current Events (tax refunds, disasters, etc.)



Questions





Thank you

