

# Phishing Attacks



## ***INTRODUCTION TO PHISHING***

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# What is Phishing?



- Definition of phishing
- **Phishing is a cybercrime** in which a target or targets are contacted by email, telephone or text message by someone posing as a legitimate institution to lure individuals into providing sensitive data such as personally identifiable information, banking and credit card details, and passwords.
- The information is then used to access important accounts and can result in identity theft and financial loss.
- • Basic concept of tricking individuals to reveal sensitive information
- Phishing is essentially a deceptive practice where attackers trick individuals into revealing sensitive information, such as passwords, credit card numbers, or personal details. This is typically done by masquerading as a trustworthy entity in electronic communications.

# Types of Phishing Attacks



- Email Phishing: Most common form, disguised as legitimate emails
- Spear Phishing: Targeted at specific individuals or organizations
- Whaling: Targeting high-profile individuals like executives
- Smishing & Vishing: SMS and voice-based phishing

# Difference Between Phishing, Smishing and Vishing?



- Phishing, smishing and vishing are all methods of identity fraud that differ in how scammers contact you—by email, text or phone—to steal personal details or financial account information.

A background image showing a desk setup with a large computer monitor, a laptop, and a potted plant. The image is dimmed and serves as a backdrop for the title text.

**Difference Between  
Phishing Smishing And  
Vishing**

# What Is Smishing?



- Smishing is a kind of fraud similar to phishing, except that it comes in the form of a text message. A smishing text will often contain a fraudulent link that takes victims to a form that's used to steal their information. The link may also download malware such as viruses, ransomware, spyware or adware onto the victim's device.
- These smishing text messages may appear to be urgent requests sent from a bank or parcel delivery service, for example. They may claim that there's been a large withdrawal from your bank account, or that you need to track a missing package. It can be easy to fall for this scam if you think you must take quick action to solve an urgent problem.

# What Is Vishing?



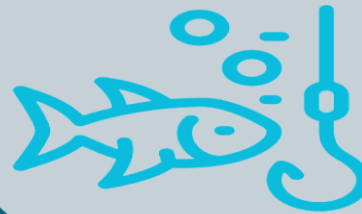
- Fraudulent calls or voicemails fall under the category of "vishing." Scammers call potential victims, often using prerecorded robocalls, pretending to be a legitimate company to solicit personal information from a victim.
- Perhaps you get a call about your car's extended warranty. If you answer this call and get connected to an alleged agent, you may be asked to provide information such as:
  - First and last name
  - Address
  - Driver's license number
  - Social Security number
  - Credit card information
- Some scammers may also record your voice and ask a question you're likely to answer with "Yes." They can then use this recording to pretend to be you on the phone to authorize charges or access your financial accounts.



# Techniques Used in Phishing



- Fake Links
- Clone Websites
- Urgent Requests
- Fake Attachments



## E-mail

An attacker sends out thousands of e-mails containing malicious links, or attachments.



## Vishing

An attack that takes place over the phone. These calls are normally automated.



## Spear Phishing

Attackers target a specific business or individual and tailor the e-mails to their targets.



## Content Spoofing

Domains that look legitimate, but lead to modified pages that expose your information.



## Link Manipulation

Attackers hide links in e-mails using various techniques.



## Smishing

Text messages sent to get a user to reveal information via response or link.



# Real-world Examples of Phishing Attacks



- **Estonian Cyber War (2007):** A massive cyberattack targeted Estonia's digital infrastructure using a network of compromised computers. Nearly a million machines amplified the attack's impact.
- **HBGary Federal Attack (2011):** Hackers associated with Anonymous infiltrated HBGary Federal, compromising sensitive data and threatening to delete backups.
- **Google and Facebook Phishing Attack (2013-2015):** Evaldas Rimasauskas scammed Google and Facebook out of \$100 million through a sophisticated phishing operation.
- **WannaCry Ransomware Attack (2017):** This global ransomware infected around 200,000 computers in 150 countries, causing significant financial losses.
- **The NotPetya Attack (2017):** A devastating attack that spread rapidly worldwide, resulting in over \$10 billion in damages.



# Consequences of Phishing Attacks

- Identity theft
- Credit card fraud
- Ransomware attacks
- Data breaches
- Financial losses
- Reputational damage
- Regulatory issues

The Impact of  
**Phishing Attacks**  
on  
**Businesses**  
Costs and Consequences



# How to Identify Phishing Attempts



- • Check the Sender's Email
- • Hover Over Links
- • Look for Grammar Mistakes
- • Too Good to be True Offers
- **Urgency and Fear Tactics:** Scammers create urgency to pressure you. They might claim your account is compromised, your payment failed, or your subscription is expiring. Be skeptical of messages that demand immediate action.



# Prevention Methods



- • Use Anti-phishing Software
- • Enable Two-factor Authentication
- • Educate Users
- • Regularly Update Passwords



# Protecting yourself against phishing attacks



- Familiarize yourself with common warning signs:
  - Unfamiliar greetings or tone
  - Unsolicited messages
  - Grammar and spelling errors
  - Sense of urgency
  - Suspicious links or attachments
  - Requests for personal information
  - Inconsistencies in email addresses or links
  - Unusual requests
  - Alerts claiming you've won something



# Thank you !!!

