# Phishing Awareness Training

Stay Safe. Stay Alert.

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CodeAlpha Internship 3 Task 2

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# What is Phishing? Why is it Dangerous?



### Understanding the Threat

Phishing is a deceptive cyberattack where malicious actors impersonate trustworthy entities to trick individuals into revealing sensitive information. This can include usernames, passwords, credit card details, and other personal data. It often arrives in the form of emails, text messages, or even phone calls.

### The Dangers Un veiled

The primary danger of phishing lies in its ability to compromise your accounts and personal data. Once obtained, this information can be used for identity theft, financial fraud, or to gain unauthorized access to corporate networks. Even a single successful phishing attempt can lead to significant financial losses and reputational damage.

## Common Types of Phishing Attacks



#### **Email Phishing**

The most common type, where attackers send fraudulent emails pretending to be from legitimate organizations to trick recipients into divulging information or clicking malicious links.



### Spear Phishing

Highly targeted attacks customized for specific individuals or organizations, often leveraging publicly available information to make the communication more convincing and personal.



### Whaling

A sophisticated form of spear phishing that targets senior executives or high-profile individuals within an organization, aiming for significant financial gain or access to critical data.



### Smishing C Vishing

Phishing conducted via text messages (Smishing) or voice calls (Vishing), where attackers use deceptive tactics to manipulate victims into revealing information or performing actions.

Understanding these different types helps in recognizing and defending against various phishing tactics used by cybercriminals.

# Recognizing Phishing Emails

Urgent and Threatening Language

Be wary of emails that demand immediate action, threaten account closure, or promise unrealistic rewards. Phishers use fear or greed to bypass critical thinking.

Fake or Mismatched Links

Hover over links without clicking them to reveal the actual URL. If the displayed URL doesn't match the hover-over URL or looks suspicious, it's likely a phishing attempt. Malicious links can redirect you to fake websites designed to steal your credentials.

Suspicious Sender Addresses

Always check the sender's email address. It might look legitimate at first glance, but a closer inspection often reveals slight misspellings or unusual domain names (e.g., "amaz0n.com" instead of "amazon.com").

**Unexpected Attachments** 

Never open attachments from unknown or suspicious senders. These attachments often contain malware, viruses, or ransomware that can compromise your device and data as soon as they are opened.

## Spotting Fake Websites

#### HTTPS vs HTTP

Always look for "HTTPS" in the website's URL (Hypertext Transfer Protocol Secure) and a padlock icon in the address bar. "HTTP" (without the 'S') means the connection is not secure, making it vulnerable to eavesdropping. Legitimate sites handling sensitive data always use HTTPS.

### URL Mismatch and Typos

Carefully examine the website's URL for any discrepancies or misspellings. Phishers often create URLs that are very similar to legitimate ones, using subtle changes like "facebook.com" instead of "facebook.com" or adding extra words (e.g., "paypal-support.com").



### Fake Login Forms

Be extremely cautious of login forms that appear immediately after clicking a link, especially if the site looks slightly off or if your browser warns you about an insecure connection. Always navigate directly to the official website for logging in, rather than using links from emails.

Your vigilance is the first line of defense against falling victim to these deceptive websites.

## Social Engineering Tactics

Social engineering is the psychological manipulation of people into performing actions or divulging confidential information. It relies on human errors rather than vulnerabilities in software.



These tactics exploit human psychology, making it crucial to be aware and skeptical.

## Real-World Phishing Examples

Cybercriminals are constantly evolving their methods. Here are some notable real-world examples that illustrate the pervasive nature of phishing attacks:



Google Docs Attack



users to a fake

Google login page

to steal

credentials. It

spread rapidly by

sending new

phishing emails to

the victim's

contacts.



PayPal Phishing

Many scams
impersonate
PayPal, sending
emails about
account issues or
unauthorized
transactions. Users
are directed to
fake PayPal sites
to "verify" their
information,

leading to

credential theft.



WhatsApp Lottery Scam

Users receive
messages claiming
they've won a
large sum in a
lottery. To claim
the prize, they are
asked for personal
details or a small
processing fee,
resulting in data
theft or financial
loss.



Facebook Clone Site

Phishers create fake Facebook login pages, almost identical to the real one, to trick users into entering their credentials. These often appear after clicking a malicious link from an email or social media post.

# Best Practices to Stay Safe

#### Think Before You Click

Always verify the sender and legitimacy of emails or messages before clicking any links or opening attachments. If something feels off, it probably is.

### Verify URLs Carefully

Before entering any sensitive information, double-check the website's URL in the address bar. Look for HTTPS and the correct domain name. If unsure, type the URL directly into your browser.

#### Enable Two-Factor Authentication (2FA)

2FA adds an extra layer of security by requiring a second verification method (like a code from your phone) in addition to your password. This significantly reduces the risk of unauthorized access even if your password is stolen.

### Report Phishing Attempts

If you suspect a phishing attempt, report it to your IT department or relevant authority immediately. Reporting helps protect others and strengthens overall security measures.

# Interactive Quiz: Test Your Phishing Knowledge

Let's test what you've learned. Choose the best answer for each question:

#### Question 1:

Which of these is a common red flag in a phishing email?

- A) Urgent requests for personal information
- B) A personalized greeting with your full name
- C) A professional and well-designed company logo

#### Question 2:

What does "HTTPS" in a website URL indicate?

- A) The site is designed for mobile devices
- B) The connection to the website is secure
- C) The site is only accessible to registered users

### Question 3:

What should you do if you receive a suspicious email with an attachment?

- A) Open the attachment to see what it is
- B) Reply to the sender asking for clarification
- C) Delete the email and report it if possible

### Conclusion C Thank You

### Recap and Key Takeaways

We've covered the basics of phishing, its common types, how to identify deceptive emails and websites, and essential best practices.

Remember that cybersecurity is a shared responsibility, and your vigilance plays a critical role in protecting yourself and our organization from these evolving threats.

Always stay alert, question suspicious communications, and never hesitate to report anything that looks like a phishing attempt. Your proactive approach is our strongest defense.

## Stay Safe. Stay Alert. Be Cyber Smart.

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