Phishing and Email Security

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Webinar Structure

- **The Art of Phishing**
- **Examples of Phishing Emails**

    Principles of Persuasion Used in Phishing Emails

- **Technical Countermeasures**
- **Non-technical Countermeasures**

The Art of Phishing

- **Phishing is the fraudulent attempt to obtain sensitive information such as usernames, passwords by disguising as a trustworthy entity in an electronic communication.**

- **Victims might be tricked into a clicking a link through to a fake webpage with the aim of persuading them user to enter personal information**

How Spear Phishing Works

How Spearphishing Works

Spear phishing messages appear to be sent from an identity - an individual or a brand - that is known and trusted by the recipient.

Hacker Identifies a Target & Researches the Victim

Hacker Sends a Targeted, Legitimate Looking Email

Victim Opens an Email Containing Malware

Hacker Uses Access To Steal Data From Victims Computer or Network

Examples of Phishing Emails

Persuasion Principle:

Authority

Liking/Similarity

New programme against COVID-19

UN   <GOV UK Notify>

GOV.UK

The government has taken urgent steps to list coronavirus as a notifiable disease in law

As a precaution measure against COVID-19 in cooperation with National Insurance and National Health Services the government established new tax refund programme for dealing with the coronavirus outbreak in its action plan.

You are eligible to get a *tax refund* (*rebate*) of 128.34 GBP.

Access your funds now

The funds can be used to protect yourself against COVID-19(https://www.nhs.uk/conditions/coronavirus-covid-19/ precautionary measure against corona)

At 6.15pm on 5 March 2020, a statutory instrument was made into law that adds COVID-19 to the list of notifiable diseases and SARS-COV-2 to the list of notifiable causative agents.

Examples of Phishing Emails Contd.

Persuasion Principle:

Authority

Liking/Similarity

Re:SAFTY CORONA VIRUS AWARENESS WHO

WO World Health Organization·

World Health Organization

Dear Sir,

Go through the attached document on safety measures regarding the spreading of corona virus.

Click on the button below to download

Safety measures

Symptoms common symptoms include fever,coughcshortness of breath and breathing difficulties.

Regards,

Dr. Stella Chungong
Specialist wuhan-virus-advisory

FAKE

Examples of Phishing Emails Contd.

Subject: All Staffs: Mandatory Corona Update
From: "Covid-19" ████████████████████████
Date: 16/03/2020, 10:28
To: ████████████████████████████

Important Covid-19 Updates & Measures

Dear all,

Important company policies regarding the Covid-19 Virus

has been uploaded to OneDrive. It is important you read the

procedures to keep everyone safe.

Login here to action read

Sincerely,

Admin

Persuasion Principle:

Commitment/

Consistency

Liking/Similarity

Technical Countermeasures

1. **Scan the URL**

   VirusTotal.com

2. **Investigate the Sender's IPs**

   CentralOps.net

   cyren.com

3. **Use a Sandbox to Download the Attachment**

   Sandboxie.com

Non-technical Countermeasures

1. **Google Search**

2. **Call the 'Sender'**

3. **Beware of online requests for personal information.**

4. **Watch for spelling and grammatical mistakes**

5. **Look for generic greetings.**

6. **Avoid emails that insist you act now.**

Thank you!

Got Questions?