

# **PHISHING EMAIL DETECTION & AWARENESS REPORT**

**CYBER SECURITY INTERNSHIP – TASK 2**

**CYBER SECURITY REPORT  
FUTURE INTERNS PROGRAM  
PREPARED BY  
MAHADEV SAI CHANDRA**

# Introduction

PHISHING IS A SOCIAL ENGINEERING ATTACK WHERE CYBERCRIMINALS ATTEMPT TO TRICK USERS INTO REVEALING SENSITIVE INFORMATION SUCH AS PASSWORDS, BANKING DETAILS, OR PERSONAL DATA. THIS REPORT ANALYZES SAMPLE EMAILS TO IDENTIFY PHISHING INDICATORS AND EDUCATE USERS ON HOW TO RECOGNIZE AND AVOID SUCH THREATS.

## TOOLS USED

- MANUAL EMAIL ANALYSIS
- PUBLIC PHISHING AWARENESS EXAMPLES
- VISUAL INSPECTION OF EMAIL CONTENT

## METHODOLOGY

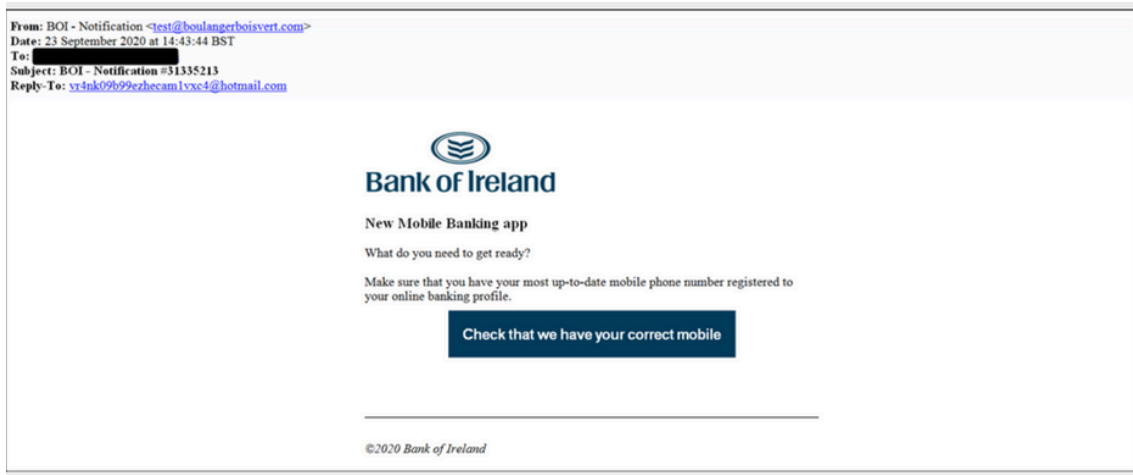
THE ANALYSIS WAS CONDUCTED BY REVIEWING EMAIL CONTENT, SENDER DETAILS, AND EMBEDDED LINKS. EACH EMAIL WAS CLASSIFIED AS PHISHING OR SAFE BASED ON COMMON PHISHING INDICATORS. NO REAL USER INTERACTION WAS PERFORMED.

# MAIL CLASSIFICATION SUMMARY (TABLE)

Email	Key Indicators	Classification
Bank of Ireland alert	Fake sender, misleading link	Phishing
365 credit card notice	Urgency, fake URL	Phishing
Amazon gift card info	Legit sender, no threat	Safe

# CASE STUDY - 1

## Phishing Email Example – Bank of Ireland



**CLASSIFICATION: PHISHING**

**PHISHING INDICATORS IDENTIFIED:**

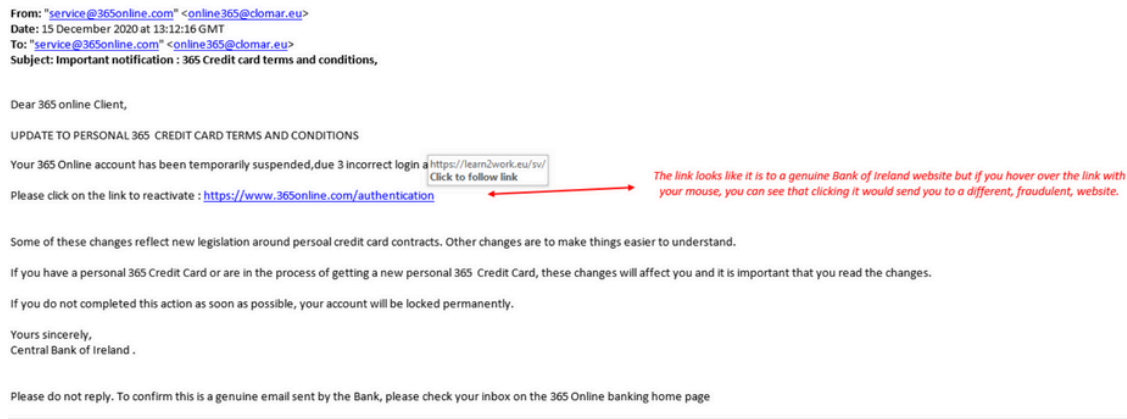
- SPOOFED SENDER EMAIL ADDRESS
- MISMATCHED REPLY-TO ADDRESS
- FAKE BANKING REQUEST
- EMBEDDED MISLEADING LINK

**RISK EXPLANATION (SIMPLE LANGUAGE):**

IF A USER CLICKS THE LINK, ATTACKERS MAY STEAL BANKING CREDENTIALS, LEADING TO FINANCIAL LOSS AND ACCOUNT COMPROMISE.

# CASE STUDY - 2

## Phishing Email Example – Credit Card Update



**CLASSIFICATION: PHISHING**

**PHISHING INDICATORS IDENTIFIED:**

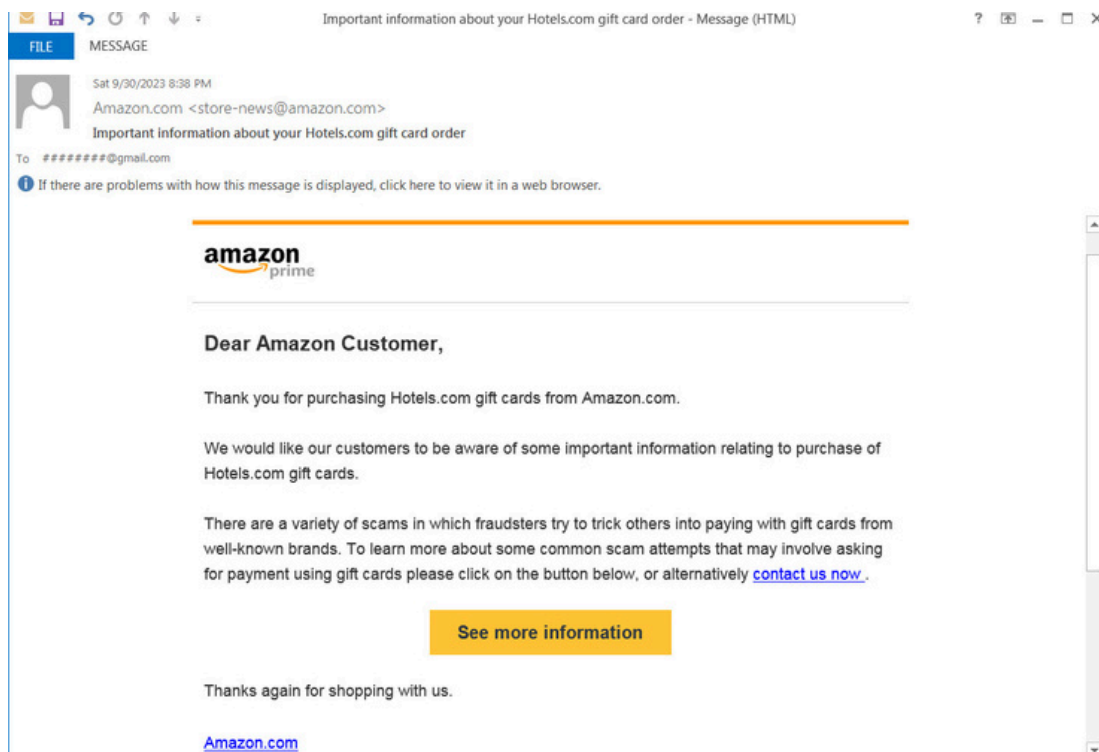
- URGENT LANGUAGE CREATING FEAR
- SUSPICIOUS LINK REDIRECTING TO A FAKE WEBSITE
- GENERIC GREETING
- UNOFFICIAL SENDER DOMAIN

**RISK EXPLANATION:**

THIS EMAIL ATTEMPTS TO PRESSURE USERS INTO CLICKING A MALICIOUS LINK, WHICH COULD RESULT IN STOLEN PERSONAL OR FINANCIAL INFORMATION.

# CASE STUDY - 3

## Legitimate Email Example – Amazon



**CLASSIFICATION:** SAFE

### **Legitimate Indicators Observed:**

- Official sender domain (amazon.com)
- Informational message only
- No request for passwords or OTP
- No urgent or threatening language

### **Security Assessment:**

This email is a legitimate notification and does not pose a phishing risk. It follows safe communication practices.

# PHISHING PREVENTION & AWARENESS

- Always verify sender email addresses
- Do not click suspicious or shortened links
- Avoid emails with urgent threats or pressure
- Legitimate organizations never ask for passwords via email
- Enable multi-factor authentication
- Report suspicious emails immediately

## CONCLUSION

This analysis demonstrates how phishing emails differ from legitimate communications. By recognizing common phishing indicators and following basic security practices, users can significantly reduce the risk of falling victim to email-based attacks. User awareness remains the strongest defense against phishing.