Phishing Simulation Report

Internship Track: Cybersecurity

Internship Program: Future Interns

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Task: Task 2 – Social Engineering & Phishing Simulation

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# Objective

To simulate a phishing campaign to test email awareness and demonstrate the effectiveness of social engineering attacks using Gophish.

# Tools Used

- Gophish v0.12.1 (Local Deployment)  
- Gmail (SMTP)  
- HTML for email and landing page design

# Configuration

Target Email: bethelamankwah00@gmail.com  
SMTP: Gmail SMTP server (smtp.gmail.com) using App Password  
Landing Page: Microsoft-styled login page  
Email Template Subject: Action Required: Verify Your Account Immediately  
Campaign URL: Auto-generated by Gophish (served via http://127.0.0.1:80 or ngrok tunnel)

# Phishing Email Content

Dear User,  
  
We have detected unusual activity in your account. Please verify your login details immediately to avoid suspension.  
  
[Verify Account Button → Leads to Landing Page]

# Landing Page

A fake login form resembling Microsoft's login UI was used to capture user credentials. The form included input fields for email and password and captured submissions using Gophish's tracking backend.

# Results

|  |  |
| --- | --- |
| Metric | Status |
| Email Delivered | ✅ |
| Link Clicked | ✅ |
| Credentials Entered | ✅ |

# Screenshots

• Gophish Campaign Dashboard  
• Sent Email View  
• Landing Page Preview  
(Include these in the GitHub repo under /Screenshots and link them in your README if needed.)

# Analysis

The test recipient interacted with the phishing email and submitted credentials, indicating susceptibility to realistic phishing attempts. This reflects how easily users can be tricked by well-designed campaigns if not properly trained.

# Recommendations

1. Conduct regular phishing simulations for employees.  
2. Implement anti-phishing email gateways and spam filters.  
3. Enforce Two-Factor Authentication (2FA).  
4. Train users to identify suspicious links and sender addresses.

# Conclusion

This simulation highlights the effectiveness of phishing attacks and the critical need for proactive security awareness programs within organizations. Gophish is a powerful tool for safely simulating these attacks in a controlled and ethical manner.