



Phishing Email Detection & Awareness Report

Educational Phishing Analysis

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Cyber Security Internship – Future Interns (2026)

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Scope: Educational Phishing Analysis (No exploitation performed)

1. Objective

The objective of this task is to analyze a phishing email sample, identify key phishing indicators, classify the associated risk, and create an awareness document to help users recognize and avoid phishing attacks.

2. Tools Used

- VirusTotal (URL Reputation Analysis)
- WHOIS Lookup (Domain Investigation)
- Manual Email Content Analysis
- Browser-based security investigation tools

3. Email Sample Overview

Subject: ⚡ Urgent: Your Account Will Be Locked

The email claims suspicious account activity and pressures the user to verify their details using an external link within 24 hours.

4. Identified Phishing Indicators

- Generic greeting (“Dear User”)
- Urgent and fear-based language
- Suspicious HTTP link
- No official company identity or signature

5. Domain & URL Investigation

The URL provided in the email was analyzed using VirusTotal and WHOIS lookup.

- The domain is not associated with any legitimate organization.
- The link uses HTTP instead of HTTPS.
- Domain reputation was low or limited.
- WHOIS information suggests suspicious or limited domain registration data.

5.1 VirusTotal Analysis

The suspicious URL was analyzed using VirusTotal to check reputation across multiple security vendors.

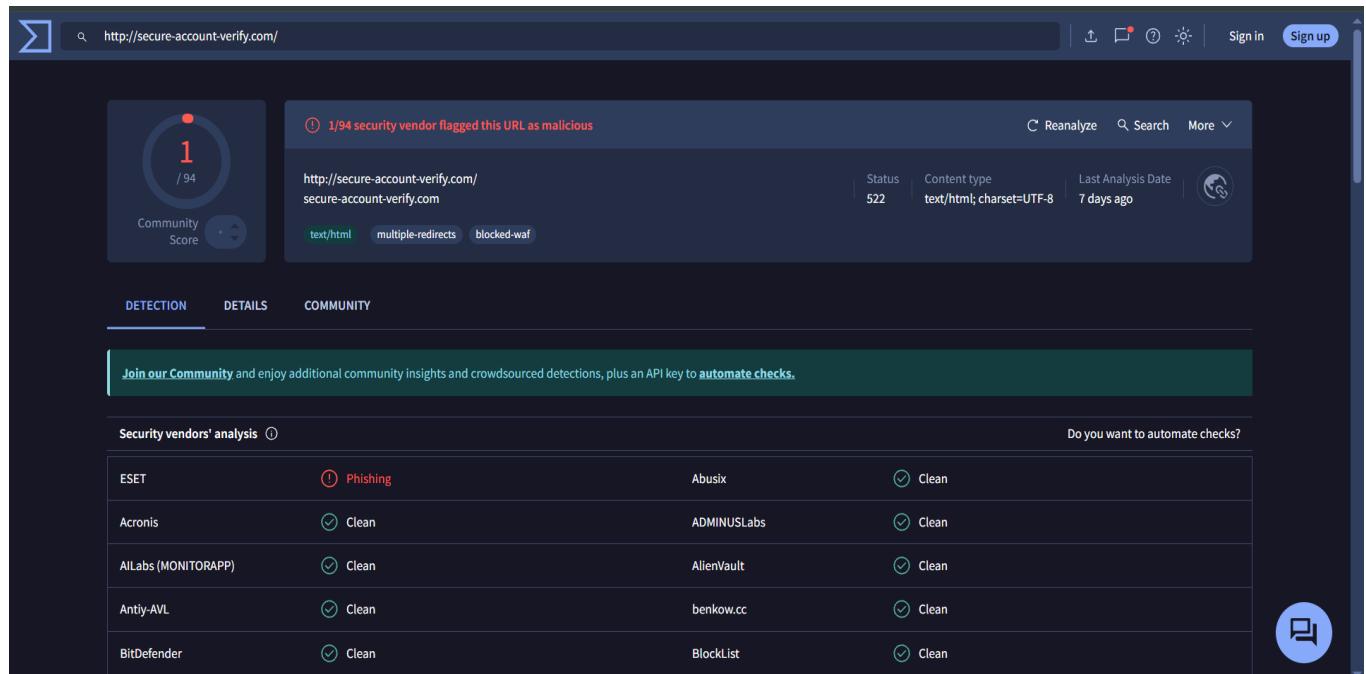


Figure 1: VirusTotal analysis showing phishing detection flag.

5.2 WHOIS Domain Investigation

WHOIS lookup was performed to examine domain registration details and ownership transparency.

The figure consists of two screenshots of the DomainTools Whois Lookup page for the domain "Secure-account-verify.com".

Top Screenshot (Whois Record):

- Registrar:** Cloudflare, Inc., IANA ID: 1910, URL: https://www.cloudflare.com, Whois Server: whois.cloudflare.com, registrar-abuse@cloudflare.com, (p) +14153197517
- Registrar Status:** clienttransferprohibited
- Dates:** 3,288 days old, Created on 2017-02-21, Expires on 2027-02-21, Updated on 2026-01-08
- Name Servers:** ANNA.NS.CLOUDFLARE.COM (has 38,828,743 domains), JOSH.NS.CLOUDFLARE.COM (has 38,828,743 domains)
- IP Address:** 104.21.45.149 - 997 other sites hosted on this server
- IP Location:** California - San Jose - Cloudflare Inc.
- ASN:** AS13335 CLOUDFLARENEN - Cloudflare, Inc., US (registered Jul 14, 2010)
- Domain Status:** Registered And No Website
- IP History:** 40 changes on 40 unique IP addresses over 9 years

Bottom Screenshot (Hosting History):

- Shows 2 changes on 3 unique name servers over 9 years.
- Whois Record (last updated on 20260222):**
- Domain Name: SECURE-ACCOUNT-VERIFY.COM
Registry Domain ID: 2099387607_DOMAIN_COM-VRSN
Registrar WHOIS Server: whois.cloudflare.com
Registrar URL: https://www.cloudflare.com
Updated Date: 2026-01-08T22:20:48Z
Creation Date: 2017-02-21T15:34:07Z
Registration Expiry Date: 2027-02-21T15:34:07Z
Registrar: Cloudflare, Inc.
Registrar IANA ID: 1910
Domain Status: clienttransferprohibited https://icann.org/epp#clienttransferprohibited
Registry Registrant ID: DATA REDACTED
Registrant Name: DATA REDACTED
Registrant Organization: DATA REDACTED
Registrant Street: DATA REDACTED
Registrant City: DATA REDACTED
Registrant State/Province: FL
Registrant Postal Code: DATA REDACTED
Registrant Country: US
Registrant Phone: +1.4153197517
Registrant Phone Ext:
Registrant Fax:
Registrant Fax Ext:
Registrant Email:
Name Server: anna.ns.cloudflare.com
Name Server: josh.ns.cloudflare.com
DNSSEC: unsigned
Registrar Abuse Contact Email: registrar-abuse@cloudflare.com
Registrar Abuse Contact Phone: +1.4153197517
URL of the ICANN WHOIS Data Problem Reporting System: http://wdprs.internic.net/
Last update of WHOIS database: 2026-02-22T09:53:42Z <<
- Available TLDs:** General TLDs, Country TLDs

Figure 2: WHOIS lookup showing domain registration and redacted owner details

Analysis Summary:

- Domain registered via Cloudflare
- Registrant details redacted
- Suspicious behavior observed
- Classified as High Risk

6. Risk Classification

Email Type: Phishing

Risk Level: High

The email contains multiple phishing indicators and attempts to trick users into providing sensitive information via a suspicious external link.

7. How the Phishing Attack Works

The attacker sends an urgent message to create fear. The user clicks the malicious link. The fake website may collect credentials or sensitive data.

8. Prevention & Awareness Guidelines

How Users Can Protect Themselves:

- Verify sender domain carefully.
- Avoid clicking urgent links.
- Hover over links before clicking.
- Never share passwords or OTPs.
- Enable Two-Factor Authentication (2FA).
- Report suspicious emails immediately.

Do's and Don'ts for Employees:

DO:

- Verify suspicious emails.
- Check formatting and spelling errors.
- Use security scanning tools.

DON'T:

- Click unknown links.
- Download unexpected attachments.
- Share login credentials.
- Trust generic greetings.

9. Conclusion

This analysis demonstrates how phishing emails exploit urgency and user trust. Proper awareness and verification practices significantly reduce the risk of phishing attacks in organizations.