



# Phishing Email Detection & Awareness Report

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Phishing Detection & Awareness

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Cybersecurity Task 2

# OBJECTIVE

The objective of this task is to analyze a phishing email sample, identify malicious indicators, classify associated risks, and provide awareness guidelines to help users recognize and prevent phishing attacks

# **Phishing Email Sample**

## **Email Sample Evidence**

A suspicious email pretending to be from PayPal was analyzed. The email requests the user to verify account information through a provided link, which is a common phishing technique used to steal user credentials.

# Email Header Analysis

The email header was analyzed using an online header analysis tool. The analysis showed authentication and domain inconsistencies, indicating that the email was not sent from an official PayPal server and may be malicious.

# Domain and Link Inspection

The email contains a hyperlink directing users to a suspicious domain that imitates PayPal but does not belong to the official PayPal website.

Further investigation using Kali Linux tools revealed suspicious domain details, confirming phishing activity.

# Phishing Indicators Identified

## Phishing Indicators

Several phishing indicators were identified in the email:

- Fake sender domain
- Urgent action request
- Suspicious verification link
- Generic greeting message
- Account suspension warning

These signs indicate phishing behavior.

# **Risk Classification**

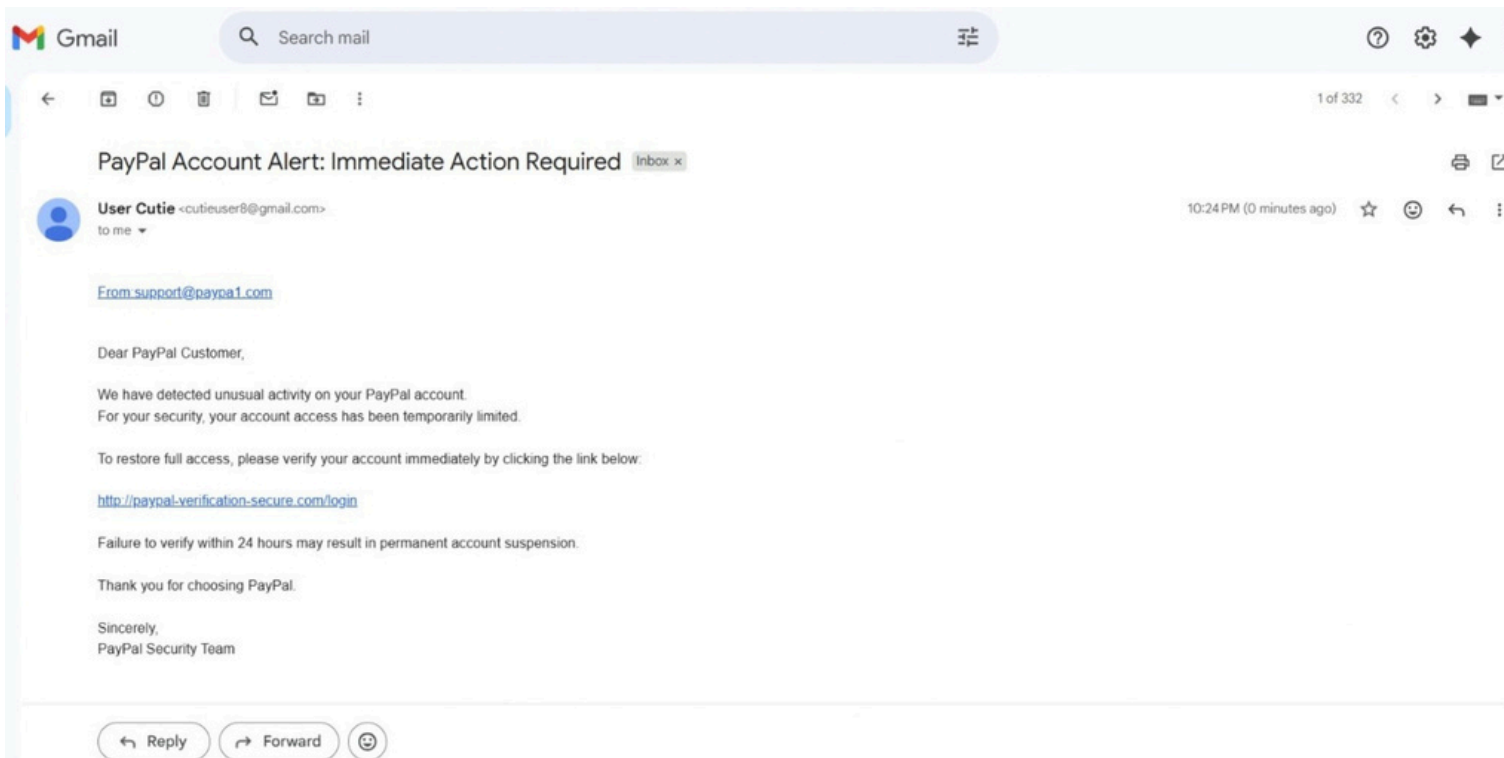
The analyzed email is classified as Phishing (High Risk) because it attempts to deceive users into providing sensitive account information through a malicious link.

# Attack Explanation

In this phishing attack, the attacker impersonates a trusted organization and sends fake emails to users. Victims are tricked into clicking malicious links and entering login credentials, which are then stolen by attackers.



# Phishing Email Sample



# Email Header Analysis

[illegible]

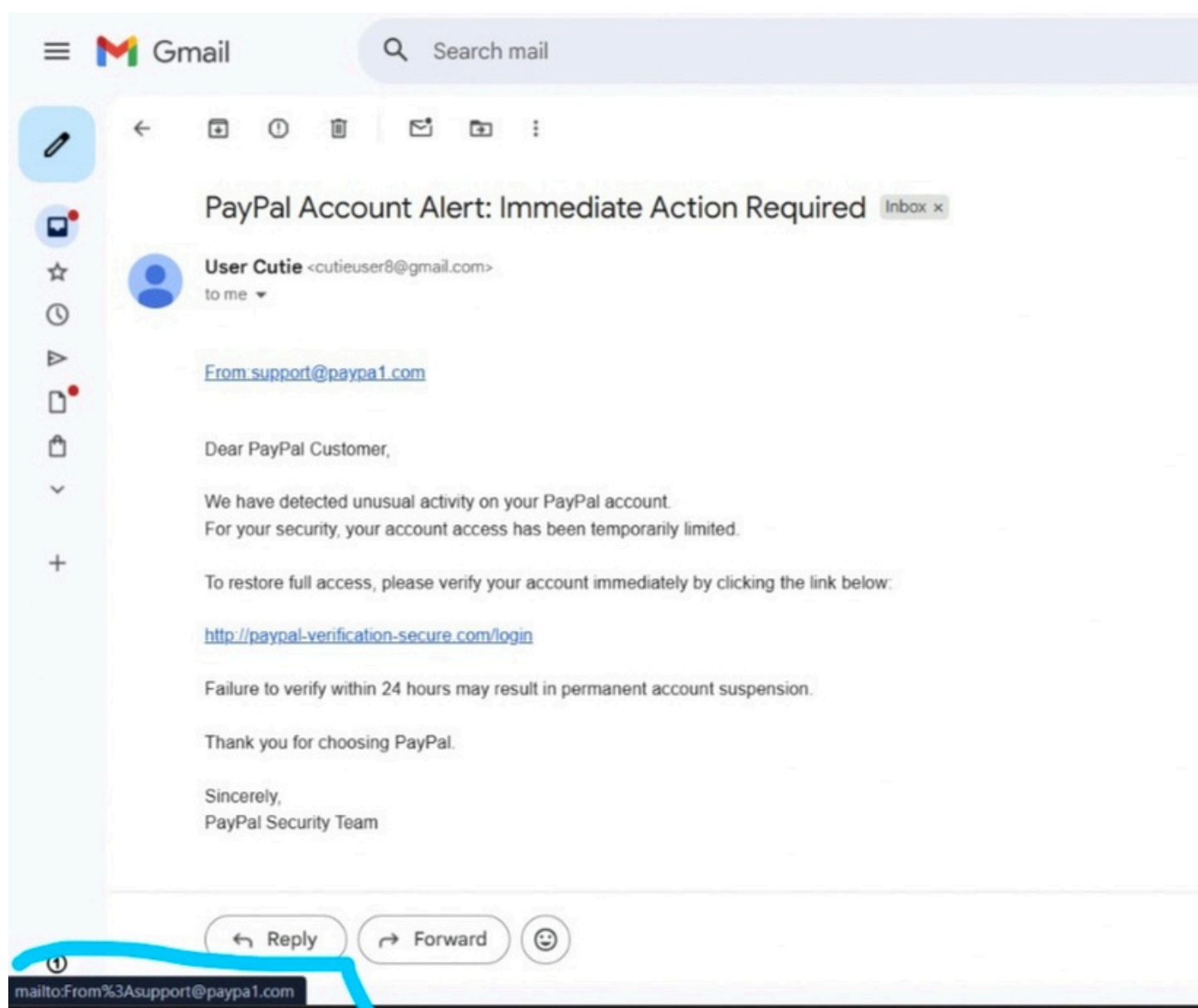
### Original Message

Message ID	<CAEatOJVF5tjapM_-1BpXD=QcVTsY9WEvv92H1Et3N-LyDO1wZw@mail.gmail.com>
Created at:	Thu, Feb 12, 2026 at 10:24 PM (Delivered after 12 seconds)
From:	User Cutie <cutieuser8@gmail.com>
To:	"rasanilakshmicharanya@gmail.com" <rasanilakshmicharanya@gmail.com>
Subject:	PayPal Account Alert: Immediate Action Required
SPF:	PASS with IP 209.85.220.65 <a href="#">Learn more</a>
DKIM:	'PASS' with domain gmail.com <a href="#">Learn more</a>
DMARC:	'PASS' <a href="#">Learn more</a>

[Download Original](#)

[Cancel this message](#)

# Domain and Link Inspection



## SPF and DKIM Information

**dmarc:gmail.com** Hide Solve Email Delivery Problems

`v=DMARC1; p=none; sp=quarantine; rua=mailto:mailauth-reports@google.com`

Tag	TagValue	Name	Description
v	DMARC1	Version	Identifies the record retrieved as a DMARC record. It must be the first tag in the list.
p	none	Policy	Policy to apply to email that fails the DMARC test. Valid values can be 'none', 'quarantine', or 'reject'.
sp	quarantine	Sub-domain Policy	Requested Mail Receiver policy for all subdomains. Valid values can be 'none', 'quarantine', or 'reject'.
rua	mailto:mailauth-reports@google.com	Receivers	Addresses to which aggregate feedback is to be sent. Comma separated plain-text list of DMARC URIs.

Test	Result	
✗ DMARC Policy Not Enabled	DMARC Quarantine/Reject policy not enabled	<a href="#">More Info</a>
✓ DMARC Record Published	DMARC Record found	
✓ DMARC Syntax Check	The record is valid	
✓ DMARC Multiple Records	Multiple DMARC records corrected to a single record.	
✓ DMARC External Validation	All external domains in your DMARC record are giving permission to send them DMARC reports.	

Reported by ns2.google.com on 2/12/2026 at 5:11:45 PM (UTC 0). just for you.

[Transcript](#)

```
root@kali: /home/kali
Session Actions Edit View Help

(root@kali)-[/home/kali]
# nslookup paypal-verification-secure.com
Server:          192.168.221.2
Address:         192.168.221.2#53

** server can't find paypal-verification-secure.com: NXDOMAIN
```

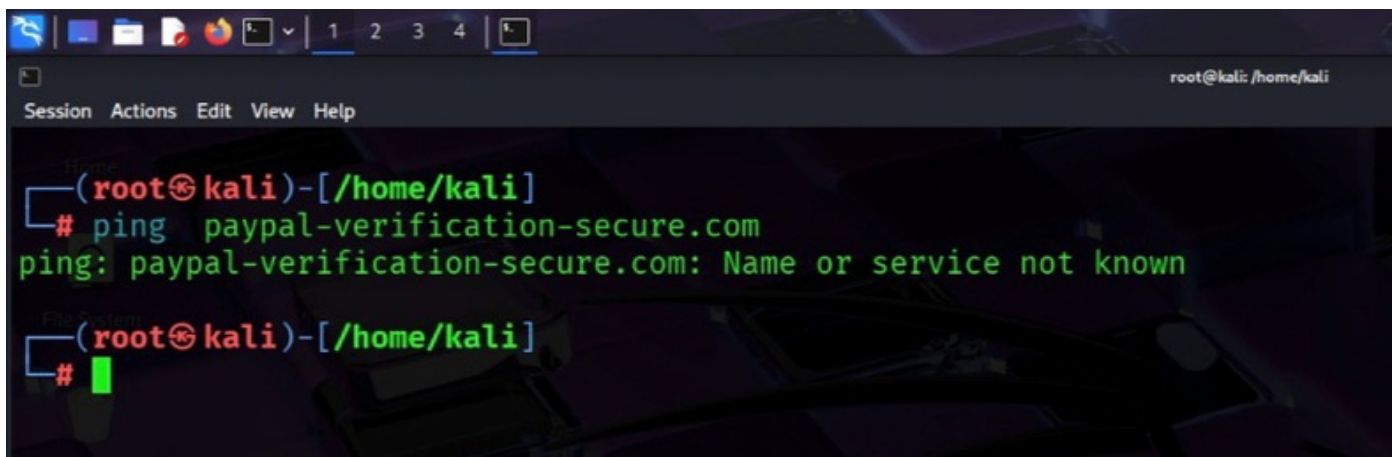
```
root@kali: /home/kali
Session Actions Edit View Help

(root@kali)-[/home/kali]
# whois paypal-verification-secure.com
No match for domain "PAYPAL-VERIFICATION-SECURE.COM".
>>> Last update of whois database: 2026-02-12T16:20:54Z <<<

NOTICE: The expiration date displayed in this record is the date the
registrar's sponsorship of the domain name registration in the registry is
currently set to expire. This date does not necessarily reflect the expiration
date of the domain name registrant's agreement with the sponsoring
registrar. Users may consult the sponsoring registrar's Whois database to
view the registrar's reported date of expiration for this registration.

TERMS OF USE: You are not authorized to access or query our Whois
database through the use of electronic processes that are high-volume and
automated except as reasonably necessary to register domain names or
modify existing registrations; the Data in VeriSign Global Registry
Services' ("VeriSign") Whois database is provided by VeriSign for
information purposes only, and to assist persons in obtaining information
about or related to a domain name registration record. VeriSign does not
guarantee its accuracy. By submitting a Whois query, you agree to abide
by the following terms of use: You agree that you may use this Data only
for lawful purposes and that under no circumstances will you use this Data
to: (1) allow, enable, or otherwise support the transmission of mass
unsolicited, commercial advertising or solicitations via e-mail, telephone,
or facsimile; or (2) enable high volume, automated, electronic processes
that apply to VeriSign (or its computer systems). The compilation,
repackaging, dissemination or other use of this Data is expressly
prohibited without the prior written consent of VeriSign. You agree not to
use electronic processes that are automated and high-volume to access or
query the Whois database except as reasonably necessary to register
domain names or modify existing registrations. VeriSign reserves the right
to restrict your access to the Whois database in its sole discretion to ensure
operational stability. VeriSign may restrict or terminate your access to the
```





A terminal window with a dark background and a menu bar at the top containing 'Session', 'Actions', 'Edit', 'View', and 'Help'. The window title is 'root@kali: /home/kali'. The terminal shows a prompt '(root@kali)-[/home/kali]' followed by the command '# ping paypal-verification-secure.com'. The output is 'ping: paypal-verification-secure.com: Name or service not known'. Below this, the prompt is shown again as '(root@kali)-[/home/kali]' followed by a red prompt character and a green cursor.

```
(root@kali)-[/home/kali]
# ping paypal-verification-secure.com
ping: paypal-verification-secure.com: Name or service not known

(root@kali)-[/home/kali]
#
```

# Prevention Guidelines

Users can protect themselves from phishing attacks by following these practices:

- Do not click links from unknown or suspicious emails.
- Verify sender email domains carefully.
- Enable Two-Factor Authentication (2FA).
- Report suspicious emails immediately.
- Never share passwords or OTP with anyone.



# Conclusion

This analysis demonstrates how phishing emails operate and highlights the importance of user awareness and cautious behavior to protect personal and organizational data from cyber threats.