

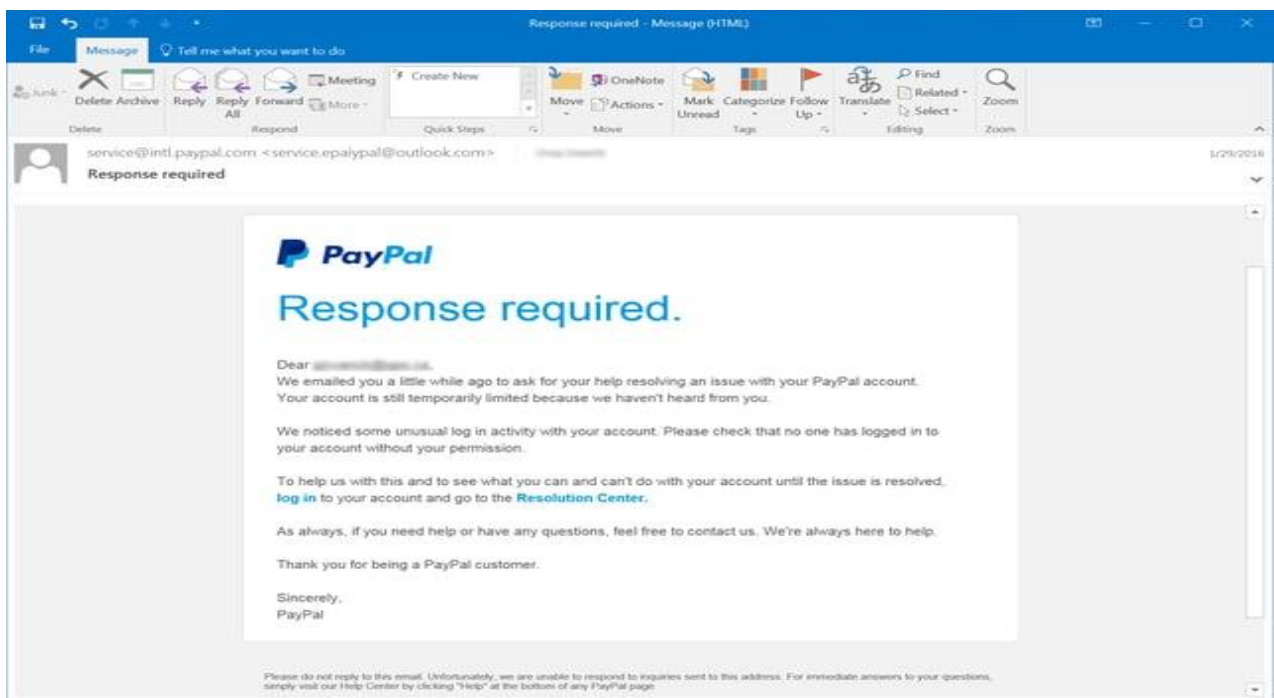
# Phishing Email Analysis Report

## 1. Email Source

This is a simulated phishing email, crafted for educational purposes during the cybersecurity internship.

## 2. Sample Email Screenshot


Below is a screenshot of the phishing email used for analysis:



## 3. Indicators of Phishing

- **Spoofed Email Address:** Sender appears as “security@secure-paypal.com” which imitates a legitimate PayPal domain.
- **Suspicious Link:** Hovering over the link reveals it redirects to “https://paypal-security-verification.com”, which is not a PayPal domain.
- **Urgent Language:** Phrases like 'unauthorized login' and 'permanent suspension' pressure the user into taking action.
- **No Personalization:** The email begins with 'Dear Customer' rather than using the recipient's real name.

- Grammar Errors: Slight misspellings and use of improper formatting techniques.
- Email Header Mismatch: Analysis using MxToolbox shows mismatched sending server IPs and failed SPF check (simulated).



[Pricing](#)
[Tools](#)
[Delivery Center](#)
[Monitoring](#)
[Products](#)
[Blog](#)
[Support](#)
[Login](#)

[SuperTool](#)
[MX Lookup](#)
[Blacklists](#)
[DMARC](#)
[Diagnostics](#)
[Email Health](#)
[DNS Lookup](#)
[Analyze Headers](#)
[All Tools](#)

### Header Analyzed

Email Subject: [Urgent: Unusual Login Activity Detected!](#) [Analyze New Header](#)

**Copy/Paste Warning**

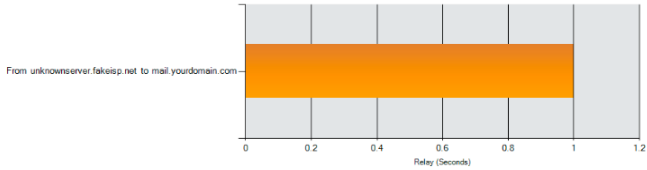
Copy/Pasting a header works for most people, but sometimes it can cause problems with things like DKIM Validation. For the best results, use our [Email Deliverability tool](#)

### Delivery Information

- ✖ DMARC Compliant (No DMARC Record Found)
  - ✖ SPF Alignment
  - ✖ SPF Authenticated
  - ✖ DKIM Alignment
  - ✖ DKIM Authenticated

### Relay Information

Received Delay: 0 seconds



| Hop | Delay | From                                     | By                  | With   | Time (UTC)                              | Blacklist |
|-----|-------|--|---------------------|--------|---|-----------|
| 1   | *     | unknownserver.fakeisp.net 185.243.115.73 | mail.yourdomain.com | ESMTPS | [Thu, 06 Aug 2025 08:32:10 +0530 (IST)] |           |

### SPF and DKIM Information

**Dkim Signature Error:**

There must be at least one aligned DKIM-Signature for the message to be considered aligned. - [more info](#)

### Headers Found

| Header Name               | Header Value  |
|---------------------------|---|
| Return-Path               | <security@secure-paypa1.com>  |
| Received-SPF              | Fail (mx.yourdomain.com: domain of secure-paypa1.com does not designate 185.243.115.73 as permitted sender)   |
| Authentication-Results    | mx.yourdomain.com: dkim=fail reason="signature verification failed" header.d=secure-paypa1.com; spf=fail (sender IP is 185.243.115.73) smtp.mailfrom=secure-paypa1.com; dmarc=fail (p=REJECT) header.from=secure-paypa1.com |
| From                      | "PayPal Security" <security@secure-paypa1.com>  |
| To                        | user@example.com  |
| Subject                   | Urgent: Unusual Login Activity Detected!  |
| Date                      | Thu, 06 Aug 2025 08:32:05 +0530   |
| Message-ID                | <20250806083205.14579.qmail@secure-paypa1.com>  |
| MIME-Version              | 1.0   |
| Content-Type              | text/html, charset="UTF-8"  |
| Content-Transfer-Encoding | quoted-printable  |
| X-Mailer                  | PHP/7.4.29  |
| X-Priority                | 1   |

#### **4. Tools Used**

- MxToolbox Email Header Analyzer
- Browser hover-check to inspect URLs : virustotal,
- Manual content inspection

#### **5. Conclusion**

This email is a phishing attempt aimed at stealing credentials. It uses social engineering, fake links, and spoofed branding. By recognizing these indicators, users can better protect themselves from phishing threats.

Prepared by: Abhijith Sypireddy