

TASK -2

Analyze a Phishing Email Sample



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Phishing Email Analysis Report

{Phishing Mail} From: security-update@paypa1.com To: you@example.com Subject: Urgent Action Required – Your Account is Locked Dear Customer, We have detected suspicious activity in your PayPal account. For your safety, your account has been temporarily locked. Please verify your account by clicking the link below: https://www.paypal.com/login You must complete this verification within 24 hours to avoid permanent suspension. Best regards, PayPal Security Team Attachment: Account_Update_Form.zip

Sender Address Analysis

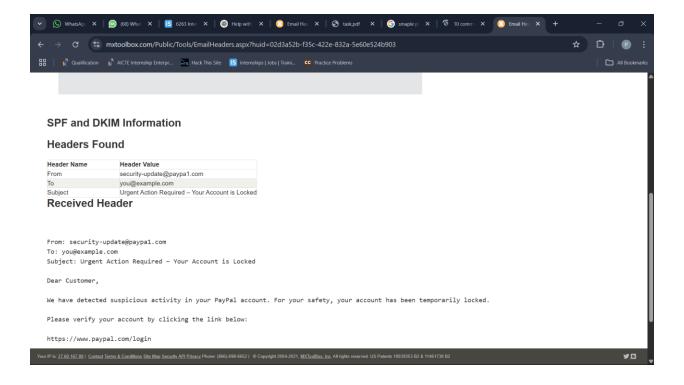
From Address: security-update@paypa1.com

Spoofed Domain

• "paypa1.com" uses a numeral "1" instead of the letter "I" in "paypal.com"

Email Header Analysis

Tool Used: { MxToolbox Email Header Analyzer}



Key Findings:

• SPF: Failed

DKIM: Missing

• Originating IP: From a country where PayPal has no servers

• Received headers: Show inconsistent mail path

Suspicious Links/Attachments

Displayed Link: https://www.paypal.com/login

Actual Link (hovered): http://verify-paypal-login.com/auth

• Fake login page used for credential harvesting

Attachment: Account_Update_Form.zip

Urgency & Threatening

Phrases used:

- "Urgent Action Required"
- "Your account is locked"
- "Complete this verification within 24 hours"

These are manipulative psychological triggers to cause panic and force quick action

Grammar & Spelling Errors

"Please verify your account by clicking the link below." (Too generic and unprofessional)

"You must complete this verification" (sounds forced, lacks personalization)

Summary

Indicator	Description
Spoofed Email Address	paypa1.com instead of paypal.com
SPF/DKIM Failures	Header check shows authentication failure
Mismatched Links	Displayed vs actual URL do not match
Suspicious Attachment	.zip file – potential malware
Urgent Language	Threatens account suspension
Generic Greeting	"Dear Customer" instead of name
Grammar Issues	Slightly awkward tone, lacks brand professionalism

Conclusion

This email clearly displays multiple phishing characteristics