# Task 2: Analyze a Phishing Email Sample

### Sample phishing email (visible version)

Subject: Urgent: Verify your account to avoid suspension

From: **Support Team** support@secure-bank-login.com

To: you@example.com

Date: Tue, 23 Sep 2025 10:15:32 +0530

Dear Customer,

We detected unusual activity on your account and will suspend it in 24 hours unless you verify your information.

Please verify your account immediately to avoid service interruption: https://secure.bank.com/login

If you do not verify within 24 hours, your account will be permanently suspended.

Regards, Support Team Secure Bank

**Title:** Urgent Verify — PHISH-2025-09-23-01

Date: 2025-09-23 10:30 IST

Analyst: Jandhyala Venkata Sitaramasai Karthikeya

**Verdict:** Phishing — spoofed sender, SPF fail, malicious URL, macro attachment.

From: Support Team support@secure-bank-login.com

Return-Path: mailer@random-hosting.example

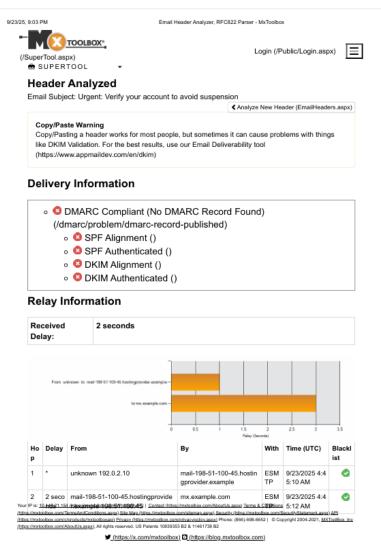
**Origin IP:** 198.51.100.45 — hostingprovider.example (SPF=fail, DKIM=none,

DMARC=fail)

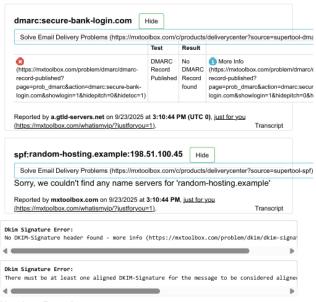
**Link:** visible https://secure.bank.com/login  $\rightarrow$  actual http://bank-login.secure-verify123[.]net/login — VirusTotal flagged as phishing; urlscan shows fake login form.

## **Attachments of the Analysis (Proof):**

## **Header Analysis: (MXTOOLBOX)**



#### SPF and DKIM Information



#### **Headers Found**

Header Name	Header Value
Return-Path	<mailer@random-hosting.example></mailer@random-hosting.example>
From	"Support Team" <support@secure-bank-login.com></support@secure-bank-login.com>
То	you@example.com
Subject	Urgent: Verify your account to avoid suspension
Date	Tue, 23 Sep 2025 10:15:32 +0530
Message-ID	<ca+x0k1a2b3c4d5e6f@example-hosting></ca+x0k1a2b3c4d5e6f@example-hosting>
IB.iccs10-140/21.154.0ttog://ms	stoolbox.gom/WhatisMv(P/)   Contact (https://mstoolbox.com/AboutUs.asox) Terms & Conditions

Von Hynnie 1496-156 (han Aministrion oppithistalistic) Contact District Institution combination as a Term & Condition White immediates and Termede Conditions are in the Machine the contribution as and Emerical Institution developed and emission of the Conditions White Conditions are in the Conditions of the Conditions of the Conditions and Conditions are in the Conditions of the Condit

<sup>&</sup>lt;u> (https://x.com/mxtoolbox)</u> <u> (https://blog.mxtoolbox.com)</u>

Authentication-Results mx.example.com; spf=fail (mx.example.com: domain of secure-bank-login.com does not authorize 198.51.100.45 to send mail) smtp.mailfrom=secure-bank-login.com; dk im=none; dmarc=fail action=none header.from=secure-bank-login.com

#### Received Header

```
Return-Path: <mailer@random-hosting.example>
Received: from mail-198-51-100-45.hostingprovider.example (198.51.100.45)
   by mx.example.com with ESMTP id ABC12345; Tue, 23 Sep 2025 04:45:12 +0000
Received: from [192.0.2.10] (unknown [192.0.2.10])
   by mail-198-51-100-45.hostingprovider.example with ESMTP id DEF67890; Tue, 23 Sep 202
From: "Support Team" <support@secure-bank-login.com>
To: you@example.com
Subject: Urgent: Verify your account to avoid suspension
Date: Tue, 23 Sep 2025 10:15:32 +0530
Message-ID: <CA+X0k1a2b3c4d5e6f@example-hosting>
MIME-Version: 1.0
Content-Type: multipart/mixed; boundary="----=Part_12345_67890"
Authentication-Results: mx.example.com;
    spf=fail (mx.example.com: domain of secure-bank-login.com does not authorize 198.51.10
    dkim=none:
   dmarc=fail action=none header.from=secure-bank-login.com
```

Permanently forget this email header

Your IP is: 10.140.21.154 (https://mstoolbox.com/WhatlsMvIPJ) | Contact (https://mstoolbox.com/AboutUs.asox) Terms & Conditions ilutos irimotocitos com/TermaAndConditions asqu) Site Maq (https://imotocitos.com/sitemac.asqu/ Size/Maq. (https://imotocitos.com/sitemac.asqu/ API (https://imotocitos.asqu/ API (https://imoto

# **Analysing the Link: (VIRUSTOTAL)**

9/23/25, 9:04 PM

VirusTotal - URL



No security vendors flagged this URL as malicious

Reanalyze Search More

http://secure-bank-login.com/ secure-bank-login.com

Last Analysis Date 5 months ago



DETECTION

DETAILS

COMMUNITY

Join our Community and enjoy additional community insights and crowdsourced detections, plus an API key to automate checks.

Security vendors' analysis

Do you want to automate checks?

_	<u> </u>
Trustwave	(i) Suspicious
Abusix	
Acronis	
ADMINUSLabs	
AlLabs (MONITORAPP)	○ Clean
AlienVault	○ Clean
alphaMountain.ai	
Antiy-AVL	
Artists Against 419	○ Clean
benkow.cc	○ Clean
BitDefender	
BlockList	
Blueliv	
Certego	○ Clean
Chong Lua Dao	
CINS Army	○ Clean
CMC Threat Intelligence	
CRDF	○ Clean
Criminal IP	○ Clean
Cyble	
CyRadar	

9/23/25, 9:04 PM VirusTotal - URL

	VirusTotal - URL	
desenmascara.me		
DNS8	○ Clean	
Dr.Web	○ Clean	
EmergingThreats	○ Clean	
Emsisoft	○ Clean	
ESET	○ Clean	
ESTsecurity	○ Clean	
Feodo Tracker	○ Clean	
Fortinet	○ Clean	
G-Data	○ Clean	
Google Safebrowsing	○ Clean	
GreenSnow	○ Clean	
Heimdal Security		
IPsum	○ Clean	
Juniper Networks		
Lionic	○ Clean	
Malwared		
MalwarePatrol	○ Clean	
malwares.com URL checker	○ Clean	
OpenPhish	○ Clean	
Phishing Database		
Phishtank		
PREBYTES		
Quick Heal		
Quttera		
Rising		
Sangfor	○ Clean	
Scantitan		
SCUMWARE.org	○ Clean	
Seclookup		
securolytics		
Snort IP sample list		
Sophos		
Spam404		
StopForumSpam		
Sucuri SiteCheck		
ThreatHive		
Threatsourcing	○ Clean	
URLhaus	○ Clean	
Viettel Threat Intelligence	○ Clean	
ViriBack		

# **URL Scanning using Cloudflare Radar:**

9/23/25, 10:20 PM

secure-bank-login.com | URL Scanner | Cloudflare Radar





Cloudflare Radar





### **URL Scanner**

Scan ID:

3d54f592-578f-48ef-8a0e-1463ac52a076 Finished

Submitted URL:

https://secure-bank-login.com/

Report Finished:

Sep 23, 2025, 15:37:12 Unlisted

DNS resolution failed