

## Phishing Email Analysis Report

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**Task:** Analyze a Phishing Email Sample

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### Step 1: Obtain a Sample Phishing Email

#### Sample Email:

**From:** "Bank Security Team" [security@onlinebank.example](mailto:security@onlinebank.example)

**To:** hemanth@example.edu

**Subject:** Urgent: Verify Your Account Immediately

#### Email Body:

Dear Customer,

We have detected unusual activity on your OnlineBank account. To prevent temporary suspension, please verify your account information immediately.

Click the link below to verify your account:

<https://onlinebank.example/verify-account>

Failure to verify within 24 hours will result in account suspension.

Thank you for your prompt attention.

Sincerely,

Bank Security Team

OnlineBank

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### Step 2: Examine Sender's Email Address for Spoofing

- **From:** security@onlinebank.example

- **Return-Path:** no-reply@mail-notify.example

**Analysis:** Sender domain does not match the return path, indicating possible spoofing.

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### Step 3: Check Email Headers for Discrepancies

#### Header Analysis:

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Received-SPF: fail
Authentication-Results: spf=fail; dkim=neutral; dmarc=fail
Received: from unknown (203.0.113.10)
```

**Analysis:** - SPF failed, DKIM neutral, DMARC failed → email not verified by domain. - Received from an unknown IP address → suspicious.

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#### Step 4: Identify Suspicious Links or Attachments

- **Suspicious Link:** <https://onlinebank.example/verify-account>
  - **Attachments:** None
  - **Analysis:** Link may redirect to a malicious website if clicked.
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#### Step 5: Look for Urgent or Threatening Language

- **Examples:**
  - "Failure to verify within 24 hours will result in account suspension"
  - Pressure tactic to force immediate action.
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#### Step 6: Note Any Mismatched URLs

- Hovering over the link may reveal a different domain than the bank's official site → mismatch indicating phishing.
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#### Step 7: Verify Presence of Spelling or Grammar Errors

- **Observation:** No major errors found.
  - Note: Many phishing emails often contain spelling or grammar mistakes.
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#### Step 8: Summarize Phishing Traits Found in the Email

- Sender spoofing / mismatched email addresses.
- Email fails SPF, DKIM, and DMARC authentication checks.
- Urgent language to scare the recipient.
- Suspicious link that could redirect to a malicious website.
- Generic greeting ("Dear Customer") instead of recipient's name.
- Possible branding inconsistencies (fake bank domain, no logo).

**Conclusion:** This email is a phishing attempt. Users should **not click links or provide credentials** and report it to the IT/security team.