



Phishing Email Detection &Awareness Assessment Report

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Task-2 Phishing Detection &Awareness
Assessment



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

The analyzed email claims to be from SBI (State Bank of India) and informs the recipient about “unusual activity” detected in their bank account. The message warns that the account will be permanently suspended within 24 hours unless immediate verification is completed through a provided link.

The email creates a sense of urgency and fear to pressure the recipient into clicking the verification link. However, the sender’s email address and the provided URL do not match the official SBI domain, indicating a likely phishing attempt.

This type of email is commonly used in credential harvesting attacks, where attackers attempt to steal sensitive information such as banking usernames, passwords, and OTPs by redirecting victims to a fake login page that mimics the official bank website.



Email Header Analysis

The sender email address support@sbi-verification-alert.com does not match the official SBI domain (sbi.co.in). This indicates domain spoofing. The verification link uses HTTP instead of secure HTTPS, which is unsafe for banking services. The domain contains extra words like “verification” and “alert,” which are commonly used in phishing emails to appear legitimate.



Domain & Link Inspection

The sender domain sbi-verification-alert.com does not match the official SBI domain sbi.co.in, indicating a spoofed or fake domain.

The verification link <http://sbi-secure-login-alert.com/verify> uses HTTP instead of secure HTTPS and redirects to a non-official website. The domain name contains extra words like “secure” and “alert,” which are commonly used in phishing websites to appear legitimate



Phishing Indicators Identified

1. Fake Sender Domain – The email domain sbi-verification-alert.com does not match the official SBI domain (sbi.co.in).
2. Suspicious Link – The verification link redirects to a non-official website and uses insecure HTTP.
3. Urgency Tactic – The email pressures the user by stating the account will be suspended within 24 hours.
4. Generic Greeting – The message starts with “Dear Customer” instead of the user’s registered name.
5. Request for Verification – The email asks the user to verify account details, which legitimate banks do not request via email.

Risk Classification

Classification: HIGH RISK – PHISHING EMAIL

The email is classified as high risk because it contains a fake sender domain, a suspicious verification link, and urgency tactics designed to pressure the user into revealing sensitive banking information. If the user clicks the link and enters credentials, it may lead to financial fraud, unauthorized transactions, and identity theft.



Attack Explanation

This email represents a phishing attack where the attacker impersonates SBI to trick the user into revealing sensitive banking credentials

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The attacker sends a fake email containing a malicious verification link. When the user clicks the link, they are redirected to a fraudulent website that looks like the official bank login page. If the user enters their username, password, or OTP, the information is captured by the attacker.

The attacker can then use the stolen credentials to access the victim's bank account and perform unauthorized transactions.



Phishing Email Sample

The screenshot shows a Gmail inbox with one email listed. The email subject is "Urgent: Your SBI Account Will Be Blocked Today!" It is from "User Cutie <cutieuser8@gmail.com>" and was sent at "9:08PM (2 minutes ago)". The message content is as follows:

User Cutie <cutieuser8@gmail.com>
to me ▾

From: support@sbi-verification-alert.com

Dear Customer,

We detected unusual activity in your SBI account.
Your account will be permanently suspended within 24 hours.

Please verify your account immediately using the link below:

👉 <http://sbi-secure-login-alert.com/verify>

Failure to verify will result in account closure.

Regards,
SBI Support Team

At the bottom of the email are three buttons: "Reply", "Forward", and a reply-to-self icon.



Email Header Analysis

Headers Found	
Header Name	Header Value
Delivered-To	jayadarshan5@gmail.com
X-Received	by 202.65.61.22.192.ln6 2b64 2efc with SMTP id 71d8f9a1353d:5676ea7a173m779632eb; Fri, 13 Feb 2020 07:38:19 -0800 (PST)
ARC-Seal	i=2; arns-sha256=t:1777997099; curpass=; d=google.com; s=20240505; i=nrdNCKOuJgCzIuJEBT-Cb0jP3X9Pbjh9qQpGSDRn4; o=CgJytp9pPvPCAKo4zJxamJmV668bLrCxNAYTbnz2qMQLUFS015NP13r erCt0A0nRMY2h2y0bjY+jB+msq90RM-MmV9qJyCaJuhMvBjZcpxJyV7wdrp+Dsgn+GPfCf5d9yAqF1HmBz2z1uMbd+rcp5l9g939uVwCCEws10D 1aw0l9qzXqvN9n25K9nfds6z0nC0tchrsphd3v3a790011PfDmzsch2505h7vgz=
ARC-Signature	i=2; arns-sha256=; crv=draft-ietf-mailbox-signature; d=google.com; s=20240505; ln=subject message-id date from mime-version dkim-signature; bl=KuwyJ.dlw33x3er1LruAB2dBCuOrlFZ5ahY7hke=; b=5-NIVTE.Vk6M5f1auakz.24J0JUHJnokBLUWJ; ln=ZARmJew0Xk2BzQ7PhqNKhjd0U54nbvJ7H4nsabQ9EtB87; p=2g3j3u3aVgF1Z5e2Se5lEnVwCZBh7u7fLz2JtBh9v9hY7m4; t=1584914545sUcrLgZCZBh9v9Y1UsBldz2z6d8y49hYkhdJvI2z2z2w1Mcid0D22z8a11UdvfPhd192zqy646s2ZD0Wky9s5d9Vm7DfQveQubMgQO; S=15+D-JMMB9YTSvcau5+V7nHsCf9L9f5d6mPv4nWf5TyJ; x=457hC_0kew=; dar=google.com
ARC-Authentication-Results	RANTINE; d=NONE) header@jmail.com header@j3t3m.net; arcpass (H1): spf-pass (google.com: domain of cutieuser@gmail.com designates 299.85.220.65 as permitted sender) smtp.mailfrom=cutieuser@gmail.com; dmacc=pass (p=NONE spf=QUA
Return-Path	<cutieuser@gmail.com>
Received-SPF	pass (google.com: domain of cutieuser@gmail.com designates 299.85.220.65 as permitted sender) client-ip=299.85.220.65;
Authentication-Results	arcpass@spf.pass header@jmail.com header@j3t3m.net; arcpass (H1): spf-pass (google.com: domain of cutieuser@gmail.com designates 299.85.220.65 as permitted sender) smtp.mailfrom=cutieuser@gmail.com; dmacc=pass (p=NONE spf=QUA
DKIM-Signature	v=1; a=rsa-sha256; c=rfc5322; d=gmail.com; s=20230601; i=1777997099; x=1777997109; d=gmail.com; ln=subject message-id date from mime-version to cc subject date message-id reply-to; bl=KuwyJ.dlw33x3er1LruAB2dBCuOrlFZ5ahY7hke=; b=QJ3dn1bMYNufhQoUvCw97V9EYdfp3SfPHLwUu7fLz2JtBh9v9hY7m4; t=1584914545sUcrLgZCZBh9v9Y1UsBldz2z6d8y49hYkhdJvI2z2z2w1Mcid0D22z8a11UdvfPhd192zqy646s2ZD0Wky9s5d9Vm7DfQveQubMgQO; S=15+D-JMMB9YTSvcau5+V7nHsCf9L9f5d6mPv4nWf5TyJ; x=457hC_0kew=; dar=google.com; arc2=0
X-Google-DKIM-Signature	v=1; a=rsa-sha256; c=rfc5322; d=gmail.com; s=20230601; i=1777997099; x=1777997109; ln=subject message-id date from mime-version to cc subject date message-id reply-to; bl=KuwyJ.dlw33x3er1LruAB2dBCuOrlFZ5ahY7hke=; b=fGZB8YTCmy95s5d9ChDwHfM8RdStjheByV5j3Cu9g7TytokMsJg7QvnhX-AucgXfhvwtgq08106q2pjd0M0m8jA3EXJ1YYQ==
X-Gm-Message-State	AQJuyJkgDpVQlGQVhWpAyta/ToxCrCvHvxyNxnd0f2Bn4RASKM2m6J2q7DwfaH7TfWksa0dGdmrH9fR2D024C200un0lWfkoq7p4eTdrfSz2y7sBlTn0ezJm0DPfVryy2m6W0w7fg72fZm5
X-Gm-Gg	AQJzqfA1TAuMjlBmhT3w42t41AmT3JxJsfMxkq4p9zJpAq99pZ3emAvja5477N302305sG0vNTgip48=+Bpd34s4kvly68N2bpg51k927kt12zCqYGB24_1ahYjUyJLWJQ34BhEWJYDJB45cfWjW2MAMOY+D3kjj9Hy1eR16DvzaaDM818yzunf7 Q+9RAC21SmcdKQfCw7p7C0y7WdyuOs7yfShv3mBnHfLhLkHg4+10h3QyW8hUobs+o5UDOM-
MIME-Version	1.0
From	User Code <cutieuser@gmail.com>
Date	Fri, 13 Feb 2020 07:38:05 +05'00'
X-Gm-Features	AaRmD0xLP9w4WVWhP1BcAjpyAhTDH0xEc0wXWfb2z9MgJpwQ5oau
Message-ID	<AE0jOUvCq9HvMaCqAjyWmndRg3TecPwHv7THhJ7dEuNSg@mail.com>
Subject	Urgent: Your SB Account Will Be Blocked Today
To	<jayadarshan5@gmail.com> <jayadarshan5@gmail.com>
Content-Type	multipart/alternative; boundary="0000000000007259046a66420"

Original Message

Message ID <CAEaOJvCqjHyfCAJqyJWimdcRqJTecPW1tTPrHsB7dEvNNSg@mail.gmail.com>
Created at: Fri, Feb 13, 2026 at 9:08 PM (Delivered after 14 seconds)
From: User Cutie <cutefuser@gmail.com>
To: "jayadharani55@gmail.com" <jayadharani55@gmail.com>
Subject: Urgent: Your SBI Account Will Be Blocked Today!
SPF: PASS with IP 209.85.220.65 [Learn more](#)
DKIM: 'PASS' with domain gmail.com [Learn more](#)
DMARC: 'PASS' [Learn more](#)

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Domain and Link Inspection



Urgent: Your SBI Account Will Be Blocked Today!

User Cutie <cutieuser@gmail.com>
to me 9:08 PM (9 minutes ago)

From: support@sbi-verification-alert.com

Dear Customer,

We detected unusual activity in your SBI account.
Your account will be permanently suspended within 24 hours.

Please verify your account immediately using the link below.

Failure to verify will result in account closure.

Regards,
SBI Support Team

<http://sbi-secure-login-alert.com/verify>

Gmail & Yahoo are now requiring DMARC - Get yours setup with Delivery Center

SPF and DKIM Information

dmarc:google.com Hide Solve Email Delivery Problems

v=DMARC1; p=none; sp=quarantine; rua=mailto:mailauth-report@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-report@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
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 ns3.google.com on 2/13/2026 at 3:47:00 PM (UTC 0). Just for you.



```
(root@kali)-[~/home/cs]
# ping sbi-secure-login-alert.com
ping: sbi-secure-login-alert.com: Name or service not known

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

```
(root@kali)-[~/home/cs]
# whois sbi-secure-login-alert.com
No match for domain "SBI-SECURE-LOGIN-ALERT.COM".
>>> Last update of whois database: 2026-02-13T16:21:30Z <<<

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
Whois database for failure to abide by these terms of use. VeriSign
reserves the right to modify these terms at any time.

The Registry database contains ONLY .COM, .NET, .EDU domains and
Registrars.

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



Prevention Guidelines

- Always verify the sender's email domain before trusting the message.
- Do not click suspicious links in emails or messages.
- Type the official bank website URL manually in your browser.
- Ensure the website uses HTTPS before entering sensitive information.
- Never share passwords, PINs, or OTPs via email.
- Enable Two-Factor Authentication (2FA) for added security.
- Report suspicious emails to the bank or cybersecurity team immediately.



conclusion

The analyzed email is a clear phishing attempt impersonating SBI. It uses a fake domain, malicious verification link, urgency tactics, and generic greetings to deceive users into revealing sensitive banking information.

Domain and link inspection, header analysis, and phishing indicators confirm that the email poses a high security risk. User awareness, careful verification of email sources, and strong security practices are essential to prevent financial fraud and protect personal information.