



Information Security
Education & Awareness
Team

C-DAC Bengaluru



Social Engineering

keeping yourself and your family safe in
a tech driven world

Dr. Mohammed Misbahuddin
Associate Director

www.infosecawareness.in

What is Social Engineering ?

- ▶ Social Engineering is an approach or method used to gain access to information through misrepresentation or false identity by using various methods few are as follows
 - ▶ Careless talking is one of the reason for social engineering
 - ▶ Careless talking about business, the office, home, personal and the people and discussing with those who not authorized to talk.
- The widely used Social Engineering techniques by attackers are Phishing, Vishing & Smishing



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Phishing

(26 unread) Yahoo! Mail, mdmisbahuddin - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://in.mg50.mail.yahoo.com/dc/launch?.gx=1&rand=e9lmnf9stt2n6

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YAHOO! MAIL Hi, mdmisbahuddin | Invisible | Sign Out

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Search Mail... Go

Inbox (26)
Drafts (5)
Sent
Spam (5) Empty
Trash (7) Empty

▼ Contacts 5 online Add
Badi-uz-Zaman Zaman_L
Lokesh_C-DAC
My Hyd Number
Rafi_Mohammed JNTU
zain RITS - I'm on SMS


▼ Folders Add
CDAC
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InfoSec Module
Journals - Conferences
MANUU
My Folder
Patent
Ph.D.
Student Projects

Applications
Calendar
My Drive
My Photos
Notepad

What's New Trash 14 emails PNB Security Alert Upd... ALERT: Update Your B...

Delete Reply Forward Spam Move Print Actions

ALERT: Update Your Bank of India Account Details
From: Bank of India <zrlwmg@accouts.net> Add to Contacts
To: admin@info.com
Mon, 18 January, 2010 8:37:14 AM

 बैंक ऑफ़ इंडिया
Bank of India

Dear Bank of India customer,

We recently reviewed your account, and we are suspecting that your Internet Banking account may have been accessed from an unauthorized computer.

This may be due to changes in your IP address or location. Protecting the security of your account and of the Bank of India network is our primary concern.

We are asking you to immediately login and report any unauthorized withdrawals, and check your account profile to make sure no changes have been made.

To protect your account please follow the instructions below:

- * DO NOT SHARE YOUR PASSWORD WITH OTHER USERS
- * LOG OFF AFTER USING YOUR ONLINE ACCOUNT

Please click on the following link, to verify your account activity:

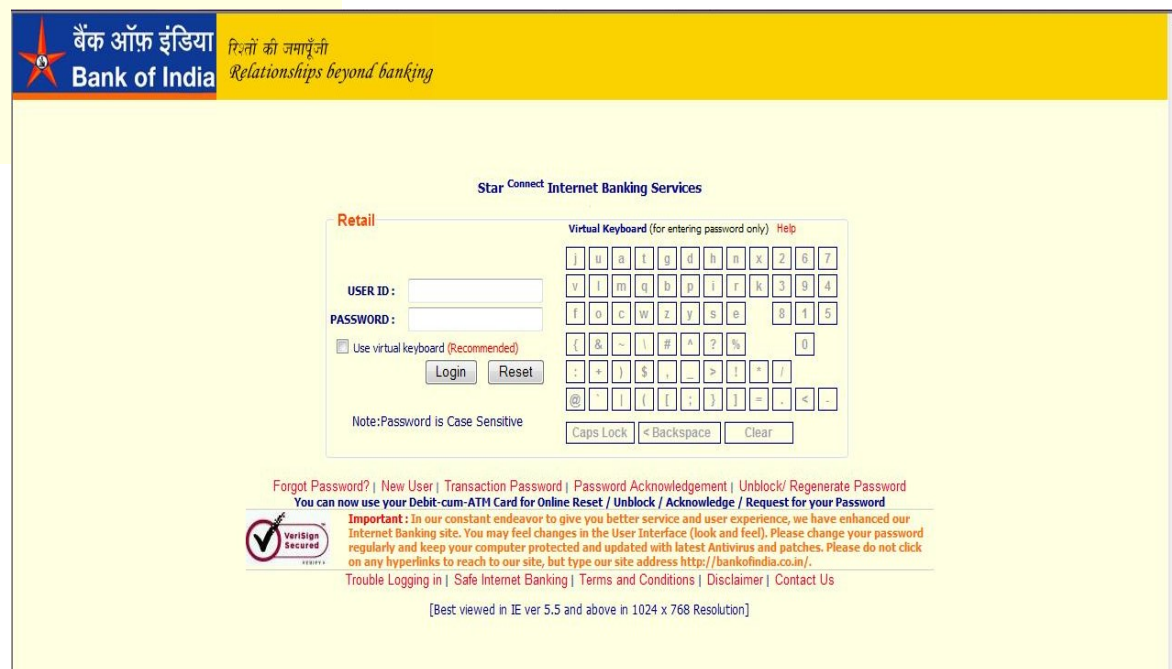
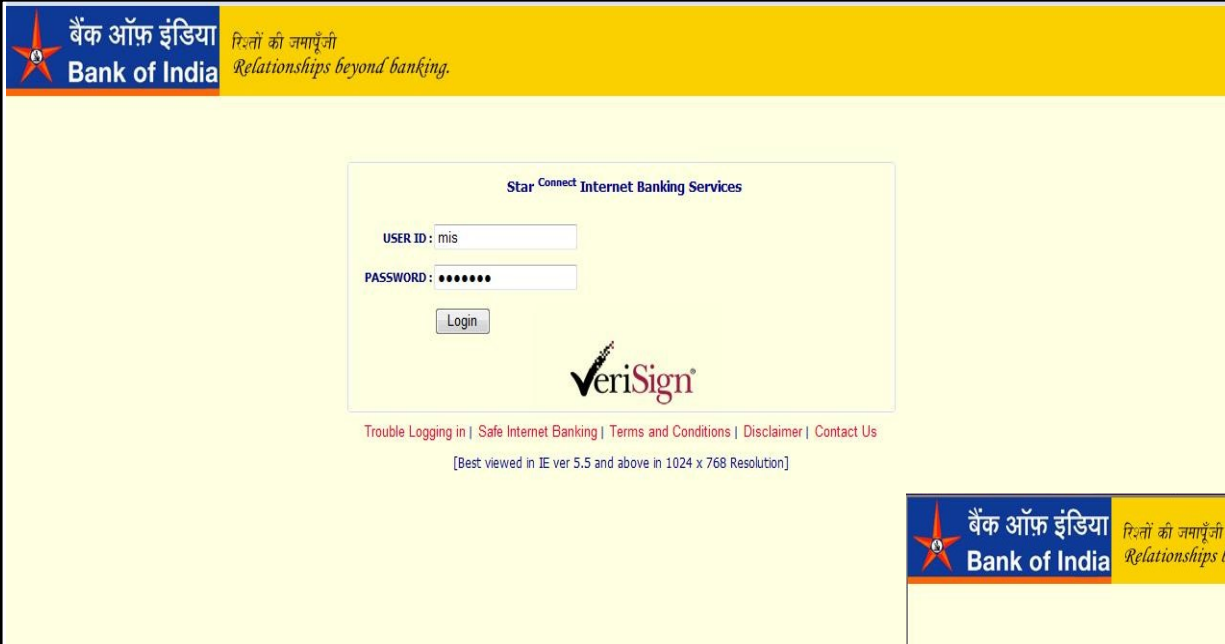
<http://www.bankofindia.com/web/internetbank.aspx>

We apologize for any inconvenience this may cause, and appreciate your support in helping us maintaining the integrity of the entire Bank of India system.

TODAY: MON, 18/1 • Martin Luther King Day ents TUE, 19/1 - MON, 1/2 No events TUE, 2/2 • Groundhog Day WED, 3/2 - THU, 11/2 No events FRI, 12/2 • Lincoln's Birthday SAT, 13/2 No events SU

http://grenleteryuhepls.com/INDIAACCESS/internet/

(26 unread) ... Threats and ... law_phishin... parno_phoo... presentation... KINGSTON (... Bank of Indi... Bank of Indi...




Reported Web Forgery!
Get me out of here!
This isn't a web forgery...

**बैंक ऑफ़ इंडिया**
Bank of India

रिश्तों की जमापूँजी
Relationships beyond banking.

**Home**

**Logout**

AccountsTransfersPay TaxDematRequestsMailsOptions

Bank of India Internet Banking

> To update your profile, read carefully and complete all steps listed in the form below.

*Cardholder Name:

HelloMrHacker

*E-mail Address:

Phisher@Phishweb.com

*Card Number:

12345678901234

*Expiration Date:

032012

*ATM Pin:

••••

Continue



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[Best viewed in IE ver 5.5 and above in 1024 x 768 Resolution]

Homographic Attack

Fake Google Ad

amazon

amazon

All Shopping Books News Images More Settings Tools

About 2,080,000,000 results (0.70 seconds)

amazon.com - Official Site Online Shopping - Deals Shopping Best Deals

Ad www.amazon.com/

★★★★★ Rating for amazon.com: 4.7 - Email reply time: 3 hours

Buy Devices, Apparel, Books, Music & More Free Shipping on Qualified Orders

Amazon.com: Online Shopping for Electronics, Apparel, Computers ...

<https://www.amazon.com/>

Online shopping from the earth's biggest selection of books, magazines, music, DVDs, videos, electronics, computers, software, apparel & accessories, shoes, jewelry, tools & hardware, housewares, furniture, sporting goods, beauty & personal care, broadband & dsl, gourmet food & just about anything else.

<https://d29bu8ju6ynw2p.cloudfront.net>

Store Products Support

Call for support:
+1-888-853-6372

support.windows.com says:

**** Windows Warning Alert ****
Malicious Spyware/Riskware Detected
Error # 0x80072ee7

Please call us immediately at: +1-888-853-6372
Do not ignore this critical alert.
If you close this page, your computer access will be disabled to prevent further damage to our network.
Your computer has alerted us that it has been infected with a Spyware and riskware. The following information is being stolen...

- > Financial Data
- > Facebook Logins
- > Credit Card Details
- > Email Account Logins
- > Photos stored on this computer

You must contact us immediately so that our expert engineers can walk you through the removal process over the phone to protect your identity. Please call us within the next 5 minutes to prevent your computer from being disabled or from any information loss.

Toll Free: +1-888-853-6372

Hey there!

https://www.apple.com

www.apple.com
Secure Connection

Hey there!

https://www.xn--80ak6aa92e.com

www.xn--80ak6aa92e.com
Secure Connection

General Permissions Security

Website Identity

Website: **www.apple.com**

Owner: **This website does not supply ownership information.**

Verified by: **Let's Encrypt**

Privacy & History

Have I visited this website prior to today?

Is this website storing information (cookies) on my computer?

Have I saved any passwords for this website?

Certificate Viewer: "www.xn--80ak6aa92e.com"

General Details

This certificate has been verified for the following uses:

SSL Server Certificate

Issued To

Common Name (CN) **www.xn--80ak6aa92e.com**

Organization (O) **<Not Part Of Certificate>**

Organizational Unit (OU) **<Not Part Of Certificate>**

Serial Number 03:F8:5A:31:59:0C:6B:25:45:AC:7B:3F:46:F6:66:5C:C3:5

Issued By

Common Name (CN) Let's Encrypt Authority X3

Homograph Characters

Appearance	Character	Emulated	Source Language (example)	Main Language	Upper	Lower	Unicode (upper)	Unicode (lower)
Look the same	аА	аА	Russian	English	x	x	410	430
Look the same	В	В	Russian	English	x		412	
Look the same	еЕ	еЕ	Russian	English	x	x	415	435
Look the same	кК	кК	Russian	English	x	x	41A	43A
Looks similar	мМ	мМ	Russian	English	x	x	41C	43C
Look the same	Н	Н	Russian	English	x		41D	
Look the same	оО	оО	Russian	English	x	x	41E	43E
Looks similar	н	н	Russian	English		x		43F
Look the same	рР	рР	Russian	English	x	x	420	440
Look the same	сС	сС	Russian	English	x	x	421	441
Look the same	Т	Т	Russian	English	x		422	
Looks similar	уУ	уУ	Russian	English	x	x	423	443
Look the same	хХ	хХ	Russian	English	x	x	425	445
Looks similar	в	в	Russian	English	x		42C	
Looks similar	р	р	Russian	English		x		433
Look the same	сС	сС	Macedonian	English	x	x	405	425
Look the same	иИ	иИ	Ukrainian	English	x	x	406	426
Look the same	јЈ	јЈ	Serbian	English	x	x	408	428
Look the same	қҚ	қҚ	Kurdish	English	x	x	51A	51B
Look the same	wW	wW	Kurdish	English	x	x	51C	51D



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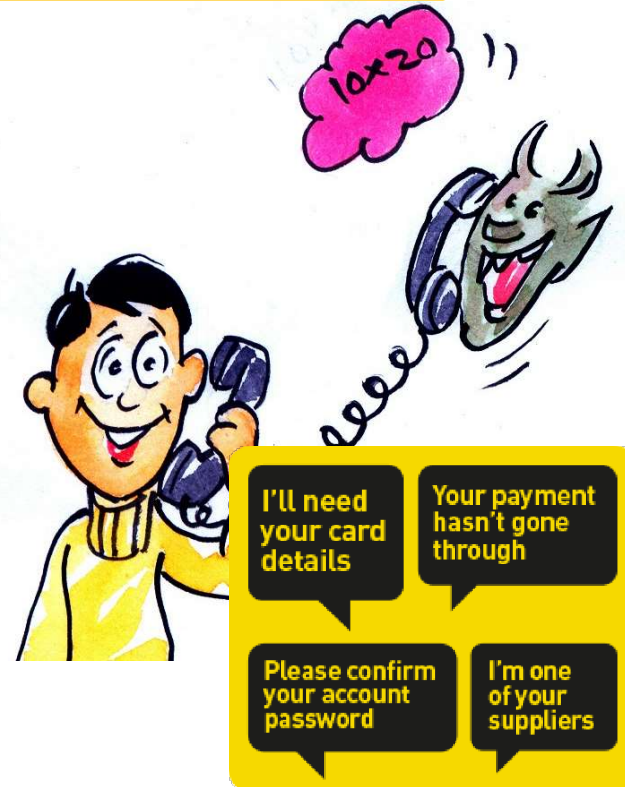
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VISHING

Be aware of Fraudulent calls



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SMiShing – SMS Phishing



Monday, 30 July 2018



Dear xxxxxx
, your income tax
refund of Rs.15,480
has been approved
and your bank a/c will
be credited shortly. Do
kindly verify your a/
c no 5XXXXX6755. If
the same is incorrect,
quickly follow the
link below to update
your bank record
on file. <https://bit.ly/2QwpYK6>

11:20

Dear xxxxxxxxxxxxxxxx
, your income tax
refund of Rs.16,988
has been approved
and your bank a/c will
be credited shortly. Do
kindly verify your a/
c no 5XXXXX6755. If
the same is incorrect,
quickly follow the link
below to update your
bank record on file.
<https://bit.ly/2Kvr2Is>

Dear Taxpayer,
please be notified
that your IncomeTax
refund is ready.
The total amount is
Rs39,280.99 Kindly
follow the link below
to complete your
IncomeTax refund
application to enable
us process and remit
your refunds into
your bank account
at the earliest.
<https://bit.ly/2kJAbVF>

Yesterday 10:11 PM

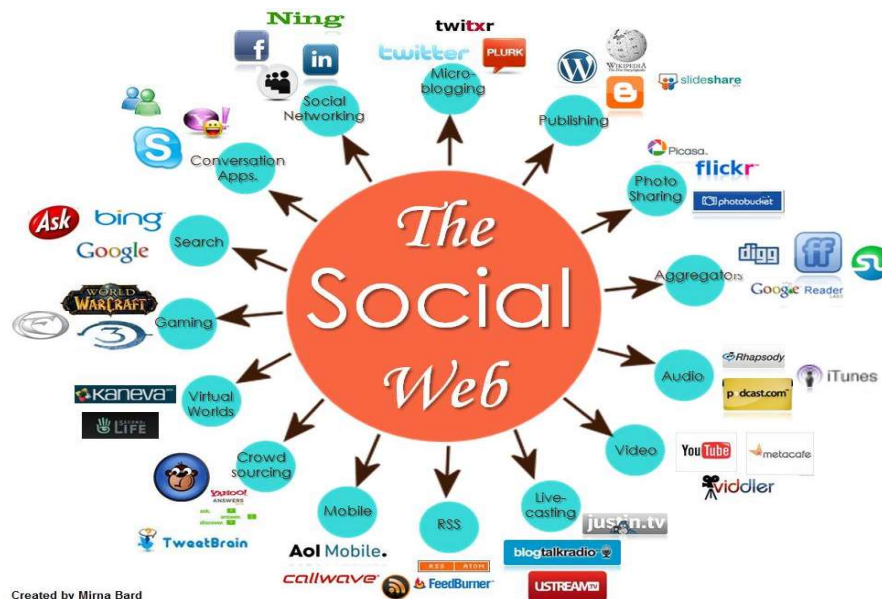
Dear customer your SBI Credit
Card points worth Rs 6897
expired by [03/06/2018](https://visapointzone.com/).
Kindly convert your point
in cash by clicking here
<http://visapointzone.com/>

Today 7:30 PM

Dear customer your INDUSIND
Bank Card points worth Rs
3897 expired by [04/06/2018](https://saleredeem.com/).
Kindly convert your point
in cash by clicking here
<http://saleredeem.com/>

Other Social Engineering Methods

- ▶ Instant messaging
- ▶ Baiting
- ▶ Persuasion
- ▶ Social Networking sites
- ▶ Whaling
- ▶ Shoulder surfing
- ▶ Dumpster diving
- ▶ Key Logging



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**Ask your self whether
Internet usage is safe or not ??**



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Cont..

If your Answer is **safe**



hOw MuCH **Secure**
Are You ??

If your Answer is
Unsafe



Think About **Security**
Awareness



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Not everything on the Internet is what it seems

When you are Not Aware



When you are Aware



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Email id: isea@cdac.in

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Thank You



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