



Information Security
Education & Awareness
Team

C-DAC Bengaluru



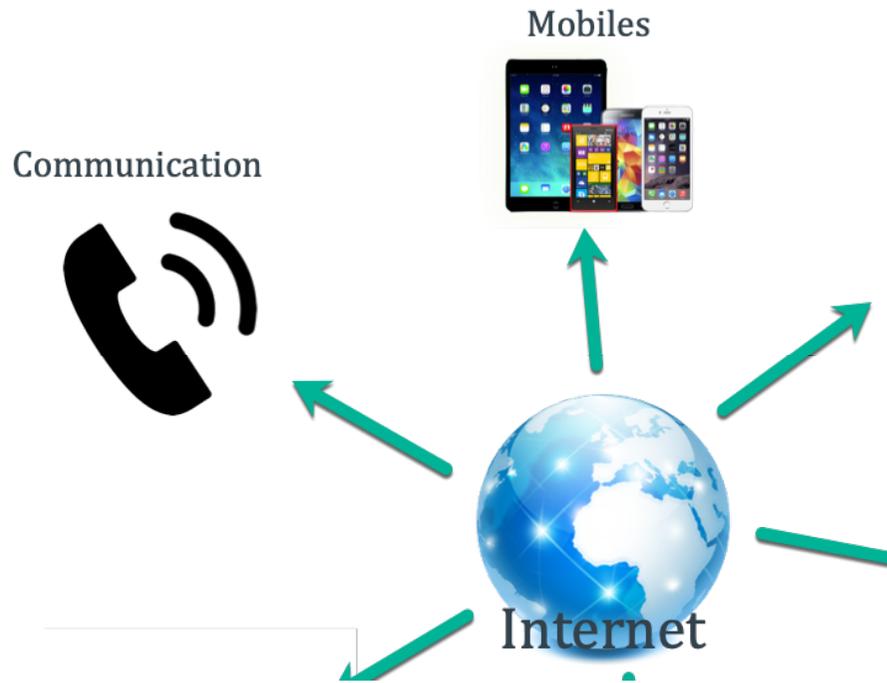
Cyber Pandemic: **Looking into Cyber Safety** **in Post Covid19 Era**

Keep updating yourself and your family
members in this tech driven world

Dr. Mohammed Misbahuddin
Joint Director

www.infosecawareness.in

Internet



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JAN
2021

INDIA

ESSENTIAL HEADLINES FOR MOBILE, INTERNET, AND SOCIAL MEDIA USE

 CHANGES TO DATA SOURCES FOR INTERNET USERS AND SOCIAL MEDIA USERS MEAN THAT VALUES ARE **NOT COMPARE**

TOTAL
POPULATION



1 39

MOBILE
CONNECTIONS



1 10

INTERNET
USERS



624 0

we
are
social



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Cyber society



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▶ In today's world, we depend on Internet at home, in school and at work place

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USE OF MOBILE APPS BY CATEGORY

PERCENTAGE OF INTERNET USERS AGED 16 TO 64 THAT USES EACH TYPE OF MOBILE APP EACH MONTH

CHAT APPS
(MESSENGERS)



GWI.

91.6%

SOCIAL
NETWORKING APPS



we
are
social

89.5%

ENTERTAINMENT
AND VIDEO APPS



GWI.

75.0%

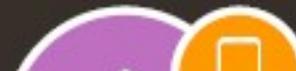
SHOPPING
APPS



MAP
APPS



BANKING AND
FINANCIAL SERVICES APPS



HEALTH AND NUTRITION APPS



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ECOMMERCE SPEND BY CATEGORY

THE TOTAL AMOUNT SPENT IN CONSUMER ECOMMERCE CATEGORIES IN 2020, IN U.S. DOLLARS

 CHANGES TO CATEGORY DEFINITIONS AND REVISIONS TO HISTORICAL DATA MEAN VALUES ARE NOT COMPARABLE

TRAVEL, MOBILITY, &
ACCOMMODATION*



\$35.18
BILLION

FASHION
& BEAUTY



\$13.16
BILLION

ELECTRONICS &
PHYSICAL MEDIA



\$14.85
BILLION

FURNITURE &
APPLIANCES



TOYS, DIY
& HOBBIES



DIGITAL
MUSIC



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Surface / Deep / Dark Web

The Surface Web

The Surface Web is the portion of the World Wide Web that is readily available to the general public and searchable with standard web search engines.



The Deep Web

The Deep Web, invisible web, or hidden web are parts of the World Wide Web whose contents are not indexed by standard web search engines. The content of the deep web is hidden behind HTTP forms and includes many very common uses such as web mail, online banking, and services that users must pay for, and which are protected by paywalls.



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Crimes too went digital in the pandemic, up 12%

By Kiran Kabtta Somvanshi & Sachin Dave, ET Bureau • Last Updated: Sep 29, 2021, 02:41 PM IST

SHARE FONT SIZE SAVE PRINT

Synopsis

Uttar Pradesh pipped Karnataka to emerge as the state with the highest number of cybercrimes reported in 2020 - constituting over a fifth of the total 50,035 crimes registered in the country.



Getty Images

Like most organisations, crime also went digital during the pandemic. As per the National Crime Records Bureau (NCRB) report for the year 2020, cyber crime surged 12% across the



Recent Incidents

THE TIMES OF INDIA

City: Ludhiana Mumbai Delhi Bengaluru Hyderabad Kolkata Chennai Agra Agartala Ahmedabad

WEATHER POLLUTION NEWS PUNJAB ELECTIONS

NEWS / CITY NEWS / LUDHIANA NEWS / BEWARE! YOUR PAN, AADHAAR CARDS CAN BE SOLD FOR RS 100

THIS STORY IS FROM NOVEMBER 26, 2020

Beware! Your PAN, Aadhaar cards can be

Payal Dhawan / Nov 26, 2020, 04:07 IST

timesofindia.indiatimes.com/city/bhopal/mp-gwalior-boy-nab

City: Bhopal Mumbai Delhi Bengaluru Hyderabad

Crime Civic Issues Politics Schools & Colleges

NEWS / CITY NEWS / BHOPAL NEWS / MP: GWALIOR BOY NAB

MP: Gwalior boy nab

Rs 1.5 crore goods c information

P Naveen | TNN | Updated: Aug 2, 2020, 15:27 IST

VS Minute

Chennai, Hyderabad rec infections among Tier-1

Not secure | timesofindia.indiatimes.com/city/pune/fake-army-man-s

City: Pune Mumbai Delhi Bengaluru Hyderabad Kolkata C

In Pune, fake army ma eatery staffer of Rs 56

TNN | Updated: Jul 29, 2020, 12:00 IST

THE HINDU

MENU: HOME NEWS OPINION BUSINESS SPORT ENTERTAINMENT

SCI-TECH > SCIENCE TECHN

SCI-TECH > INTERNET

INTERNET

100 GB of Inc

Telangana Today

Tuesday, August 04, 2020

Home | Hyderabad | Telangana | Andhra Pradesh | India | World

Home » Hyderabad » OLX becomes fraudsters' hotspot, says police

OLX becomes frauds

ZunRoof Solar
Free Electricity for 25



Identity Theft - Incidents in India

NEWS 18 | TECH

CHANGE LANGUAGE English

HOME CORONAVIRUS POLITICS INDIA ENTERTAINMENT TECH

Latest #FightBackIndia Movies Lifestyle Cricket Business #RestartRight Edu

NEWS18 » NEWS » TECH » IDENTITY THEFT THE BIGGEST CYBER SECURITY THREAT IN INDIA, 2.7 CRORE AFFECTED IN 2020: NORTON

Identity Theft the Biggest Cyber Security Threat in India

THE HINDU BusinessLine

Invest in Pre-lease COMMERCIAL PRO

PROPERTY SHARE

HOME NEWS MARKETS COMPANIES INFO-TECH OPINION SPECIALS PORT

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Info-tech

0.2% of Indian consumers

https://www.newindianexpress.com/cities/hyderabad/2

THE NEW INDIAN EXP

NATION WORLD STATES CITIES BUSINESS SPORT

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Tax Save Invest Insure Spend Borrow Earn Plan Real Estate Personal Finance News Podcast Mutual Funds TomorrowMakers More

Business News > Wealth > Personal Finance News > Cyber criminals stole Rs 1.2 trillion from Indians in 2019: Survey

Cyber criminals stole Rs 1.2 trillion from Indians in 2019: Survey

By Riju Mehta, ET Bureau • Last Updated: Apr 13, 2020, 06:30 AM IST

Synopsis

According to the 2019 NortonLifeLock Cyber Safety Insights Report, 63% Indians do not know what they will do if their identities are stolen, even though 70% are worried that identities will be stolen. 4 in 10 consumers in India have experienced identity theft.



Do you know what number went up in 2019? Sadly, it is the number of **cyber** crime cases that did. The debate on whether technology is a boon or bane continues even now and it is the bitter truth that the further we are moving up

adults
identi
download a certain



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COVID related Crimes

You are a Victim!!

- Cyber Criminals are taking advantage of COVID-19 Pandemic to launch variety of attacks
- Exploiting the fear of Corona to trap the victims into Cyber Attacks
- This new trend of Cyber Attacks in the context of COVID-19 is termed as **“Fearware”**



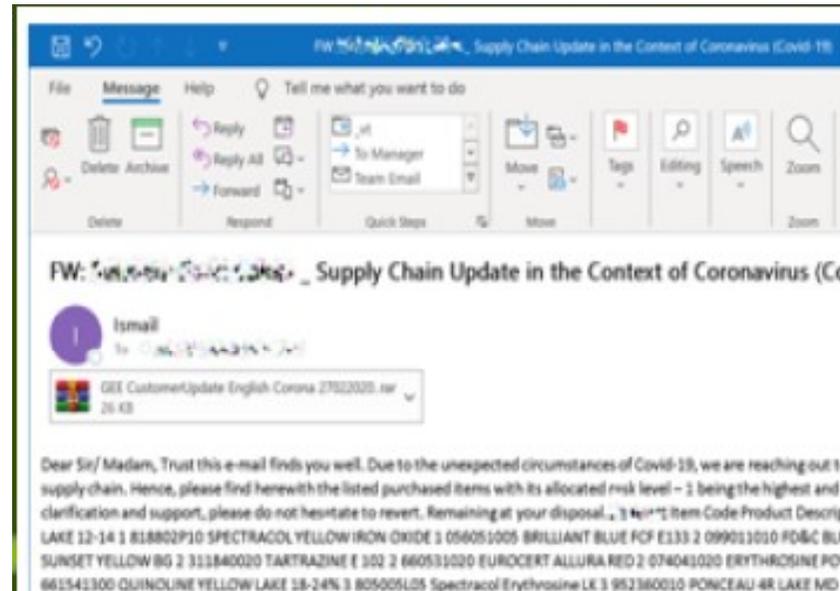
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Malware, Fraudulent Email and SMS



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hindustantimes

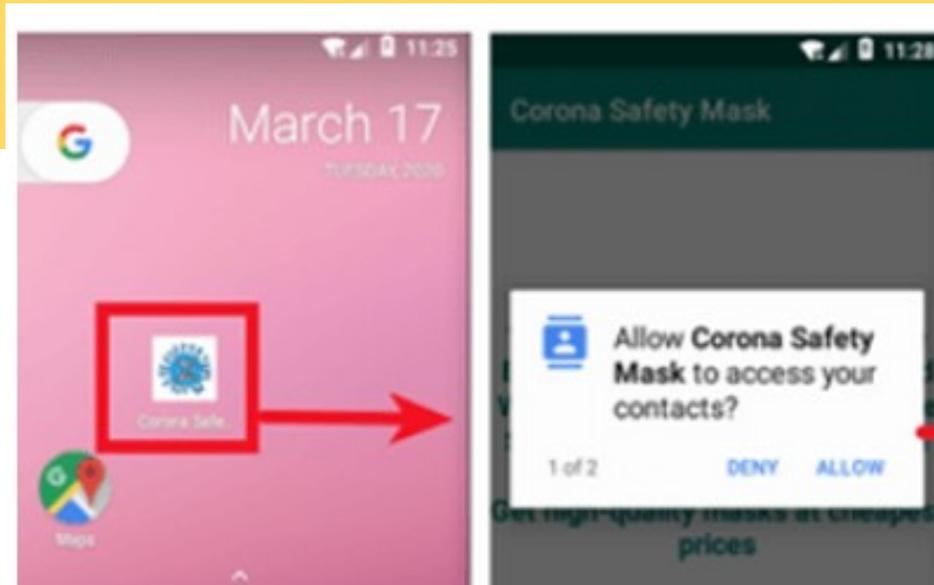
india cities [coronavirus](#) opinion world cricket entertainment education trending vide

[Home](#) / [Chandigarh](#) / Beware of SMS claiming to provide free covid relief package: Cyber C

Beware of SMS claiming to provide



Fake Mobile Apps



INDIA^{TV} VIDEOS INDIA BUSINESS ENTERTAINMENT SPORTS HEALTH TECH PHOTO

Coronavirus Android, iOS apps like Spymax might

As many people have started work from home and students log in for studies following are using COVID-19 apps such as 'Spymax, Corona Live 1.1' to steal confidential data



IAN S
New Delhi

Published on: April 17, 2020 18:53 IST



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Fake UPI Id

The Indian **EXPRESS** Home India Cities Opinion Sports Entertainment Lifestyle T

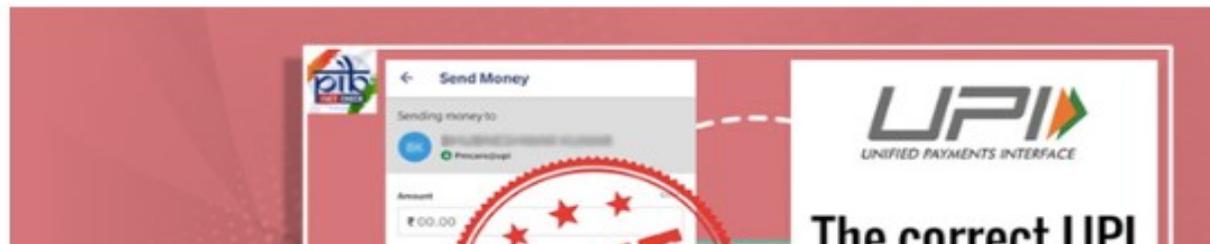
Home / Technology / Tech / PM CARES FUND fake UPI id scam: Make sure you donate to

PM CARES FUND fake UPI id scam: Make sure you donate to the correct PM CARES Fund

The latest scam using UPI revolves around the PM CARES FUND. You need to make sure they donate to the correct PM CARES Fund.



By: **Tech Desk** | New Delhi | Updated: April 4, 2020 12:23:00 pm



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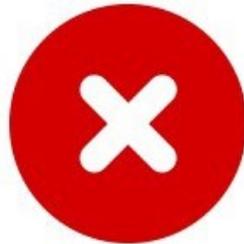
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BE KIND, BE W

In these tough times, many fra
scamming people in the most c

LOOK WHERE YOU DOI



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nm

Fake Vaccine Registration App



**Get Vaccinated today.
Download all new MyVcine app
and APPLY for vaccine Now.
[Download Here](#)**



VaccinRegis App



CoVaccine Registration

Re

3:42

AA Not Secure — ro.atwebpages.com



VaccinRegis App

**Register for Vaccine Now
from age 18+ in India
No Fees will be taken**

**Download VaccinRegis app and
Register Now**

Download Now

Download
tiktospro.atwebpages.com



Beware of

**Do not fall
claiming
covid vaccine
media or fa
containing**

BIOLOGICAL PANDEMIC



INFECTION RATE

Virus infection rate (R_0) (source: WHO)
The average number of people that one person with a virus infects:

Flu: 1.3, SARS: 2-4, **Corona: 2.5**,
Ebola: 1.6-2, Zika: 2-6.6, Measles: 11-18



INFECTION PREVENTION

Best treatment: **Vaccination**
Dealing with Infection Best Practices:

- 1) Quarantine, Shelter-in-Place
- 2) Isolation
- 3) Contact Tracing



SAFETY BEST PRACTICES

Common treatment (until vaccination):

- 1) Mask
- 2) Hygiene
- 3) Social Distancing

CYBER PANDEMIC



INFECTION RATE

Malware infection rate (R_0) The average number of hosts that one host with a malware infects:

Cyber attack: >27 (source: WEF, NSTU)
Slammer: Doubled in size every 8.5 seconds
Code Red: 2,000 new hosts per minute



INFECTION PREVENTION

Best treatment: **Real Time Prevention**

Best Practices: **Continuous** process of:

- 1) **Quarantine:** Sandboxing, Micro-Segmentation
- 2) **Isolation:** Zero Trust, Segregation
- 3) **Tracing:** Threat Intelligence, AI, SOC, Posture Management



SAFETY BEST PRACTICES

- 1) **Awareness:** Think before you click...
- 2) **Cyber Hygiene:** Patches, Compliance...
- 3) **Asset Distancing:** Network Segmentation, Multi-Factor Authentication...

SOURCE: CHECK POINT SOFTWARE 2020

Ask your self whether trusting “***EVERYTHING***”
in the **Cyber World** is safe or not ??



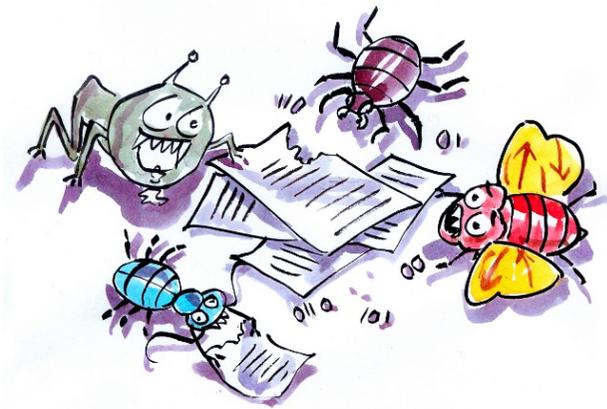
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Major Online Risks and Threats

To Computer

Virus



Worms



Trojans



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What are cyber frauds ?

- Any unlawful activity where **cyberspace** is used as a tool, target or both.
 - Credit card frauds
 - Theft of Source Code
 - Hacking
 - Email spoofing
 - Forgery
 - Defamation
 - Data Diddling (Modification)
 - Cyber terrorism
 - Denial of Service Attacks
 - Salami Attacks
 - Email Bombing
 - Online gambling
 - Cyber Pornography
 - Virus, Worms, Trojan Attacks
 - Cyber stalking
 - Phishing, Vishing, SMShing
 - Intellectual Property crimes- software piracy, copyright infringement, trademarks violations.



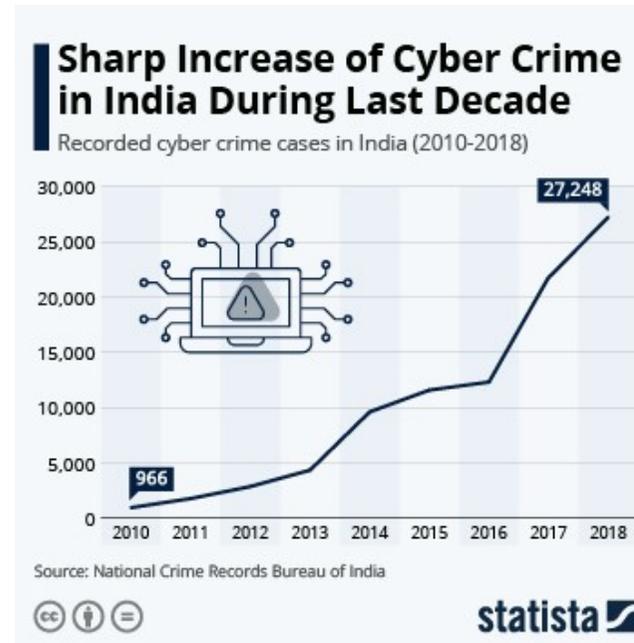
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Cyber Crime rate in INDIA

Under Information Technology Act during the year**

Year	Cyber Crimes
2014	9622
2015	11592
2016	12317
2017	21,796
2018	27,248
2019	59,807



**As per cyber crime data maintained by National Crime Records Bureau

Courtesy: Cert-in



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Key areas to focus

- ❖ Identity
- ❖ Password
- ❖ Mobiles
- ❖ Social Engineering

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Identity

- Identity Theft
- ATM Frauds
- Credit / Debit Card Frauds
- Aadhaar Misuse

Credit / Debit Card Data on Sale on Dark Web

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Business News > Tech > Tech & Internet > 10 crore Indians' card data selling on Dark Web: Researcher

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Data of 70 Lakh Indian Debit, C

Inc42

NEW LATEST INC42 PLUS NEW WTF: STARTUP EQUIT

NEWS

Domino's India Data Breach: User Records Being Sold

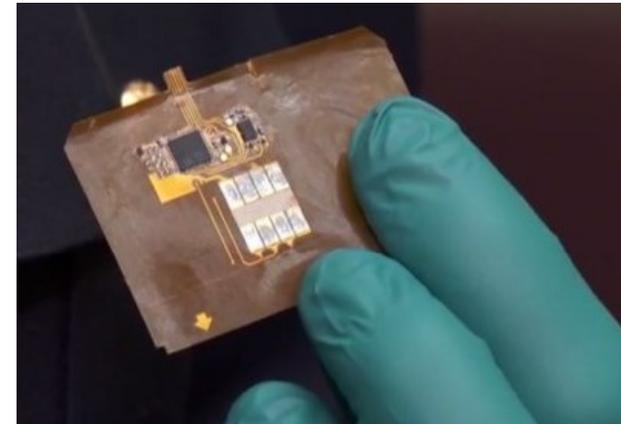
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News / Technology / News / BigBasket user data allegedly leaked on dark web, including email IDs, numbers

BigBasket user data allegedly leaked on dark web, including email IDs, numbers

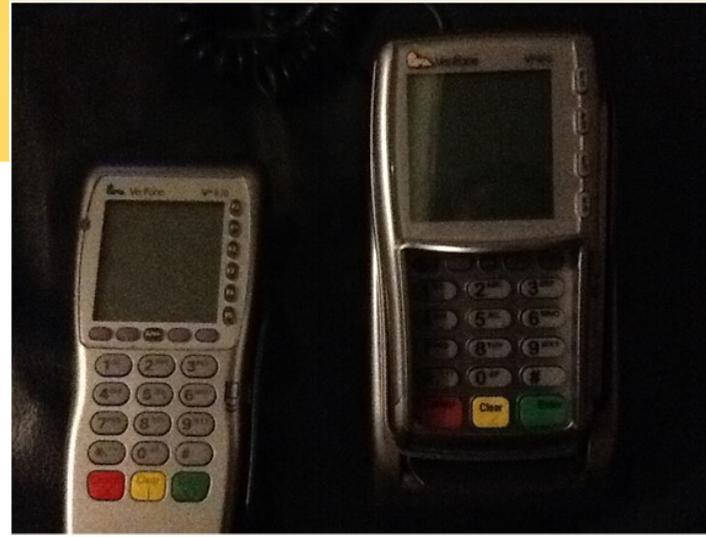
ATM Frauds - Skimmers / Shimmers



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Rogue POS Device



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Rogue vs Genuine POS Device



SUSPICIOUS



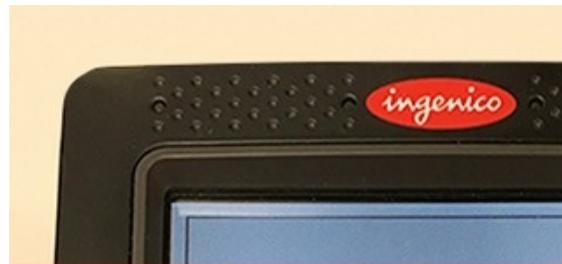
SAFE



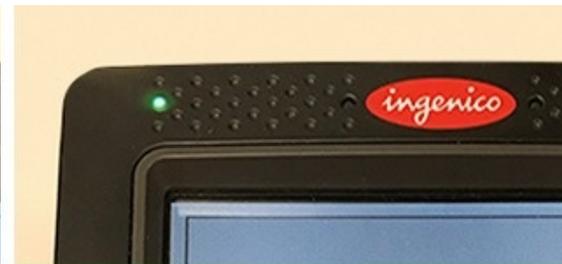
SUSPICIOUS



SAFE



SUSPICIOUS



SAFE



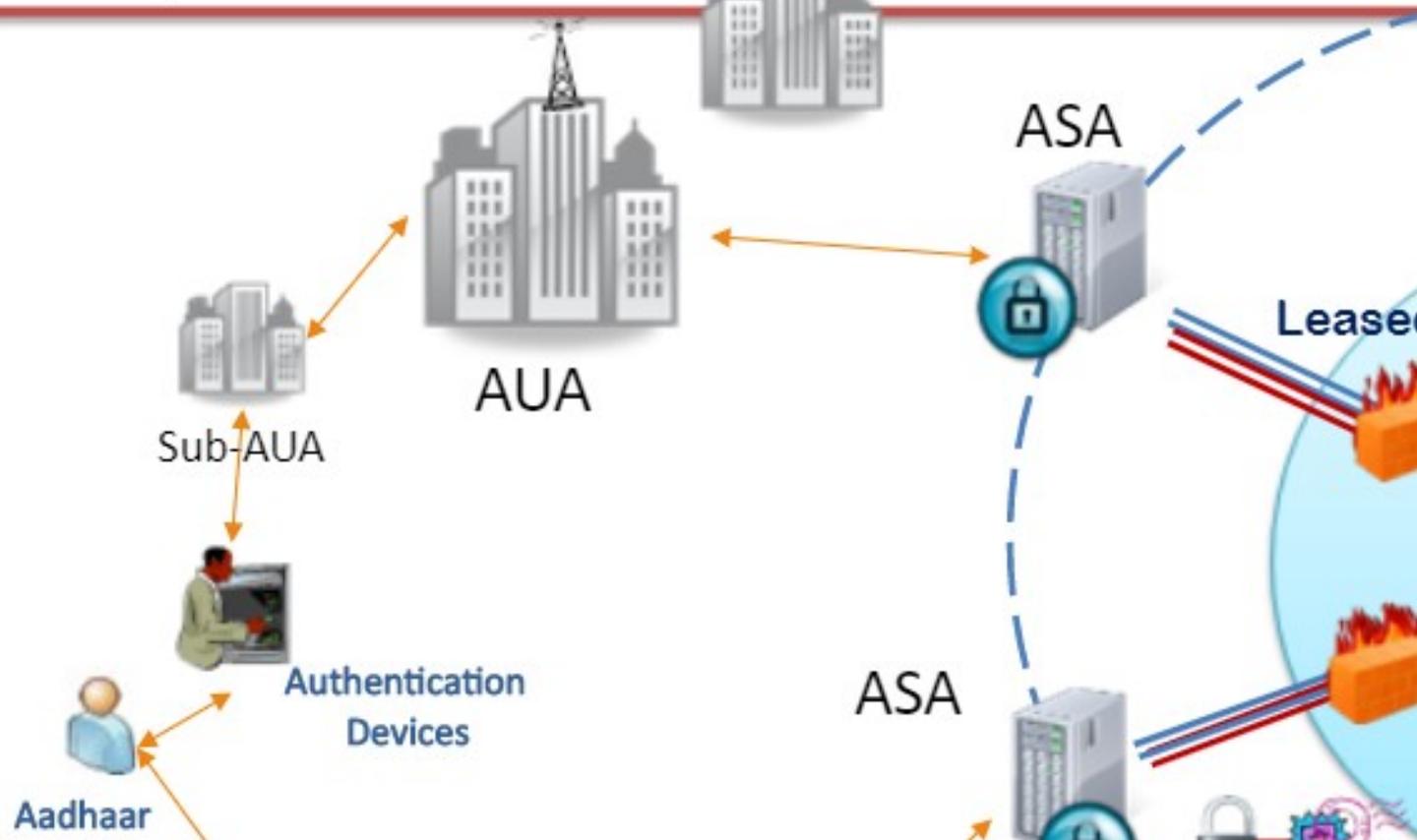
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How much Secure are Aadhaar Servers?



Authentication Ecosys (Overview)



Aadhaar Misuse ... Are you Scared ?

Ministry of Electronics & Information Technology
Government of India

UIDAI introduces Virtual ID or VID

Use Virtual ID or VID in place of Aadhaar Number for any service where you are using Aadhaar authentication

Use of VID with The Aadhaar Act to use Aadhaar authentication

VID will be a 16-digit random number that would be mapped to the 12-digit Aadhaar of the holder

The VID will be that shall be authorized the Aadhaar holder VID or after the valid lapses (to be specified)

UIDAI shall offer means to generate



Aadhaar Misuse ... Are you Scared ?



mAadhaar

Unique Identification Authority of India

3+

This app is compatible with all of your d

Lock/Unlock



Aadhaar Authentication

ANNOUNCING mAadhaar App

Your Aadhaar profile
on your mobile

Lock your biometric
data anytime anywhere

View & share
your updated
Aadhaar profile
via QR code





12:23

4G

Unique Identification Authority of India
mAadhaar

Register My Aadhaar

SERVICES



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Order Aadhaar
Reprint



Update Address
Online



Paperless Offline
e-KYC



QR Code
Scanner



Virtual ID
Generator



Generate QR
Code



Verify Aadhaar



Verify Email/
Mobile

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My Aadhaar



भारत सरकार
GOVERNMENT OF INDIA



जन्म तिथि / DOB:
स्त्री /

आधार - मेरा आधार, मेरी पहचान

Front View



Set Aadhaar Lock



Lock/Unlock Biometrics



Generate TOTP



Generate VID



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Password

- Password Strength
- Password Attacks
- Other Secrets

Strong Password ?

- ▶ Use at least 8 characters
- ▶ Use special characters
- ▶ Avoid using the words from dictionary
- ▶ It must be easy to remember difficult to guess
 - ▶ Example of Pass phrase
I Love Working at CDAC Bangalore
 - ▶ Password: 1Lw@cdacB
- ▶ How Secure is my Password ?



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Password Attacks

Brute force attack 

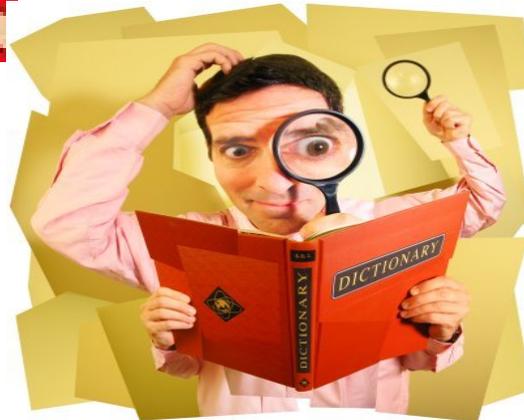


Take care about shoulder surfing 

Shoulder Surfing 



Dictionary attack 



Password Clip



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Password Tips to **REMEMBER**

- ▶ Password should be **DIFFERENT** for each e-service
- ▶ **DO NOT SHARE** Passwords / Passphrase / PIN / Pattern etc.
- ▶ **CHANGE** your secrets at regular intervals
- ▶ Check the password strength **CAREFULLY**



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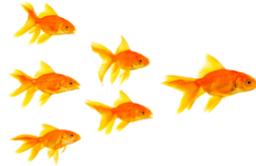
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Mobile Security

Mobile Security

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- [WhatsApp Security](#)
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- [Vishing](#)
- [SMSHING](#)
- [Rogue Apps](#)
- [Payment Apps](#)



Four Years of
Digital India

साइबर स्वच्छता केन्द्र

CYBER SWACHHTA KENDRA



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CURRENT ACTIVITIES
Safeguarding from SMSHING

Original Issue Date: August 07

There have been increased reports of Income Tax Return nears. T t.co etc.

Monday, 30 July



Dear xxxxxx
, your income tax

Mobile Security Tips to REMEMBER

- Doing these simple tips with help keep your phone protected from vulnerabilities
 - Set Password Protection for Important Apps
 - Update Anti-virus Software
 - Update Operating System
 - Use Trusted Source to download Apps
 - Disable Wi-Fi, Bluetooth when not in use
 - Backup your data



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Sending Offensive Messages

- Covers following sent by SMS / Email:
 - grossly offensive
 - menacing
 - false information sent for causing annoyance, inconvenience, danger, obstruction, insult, injury, criminal intimidation, enmity, hatred or ill will
 - **Phishing, Email Spoofing**
 - **BEWAKOOF vs WEBAKOOF**



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Obscene SMS/ Emails

- The punishment for spreading obscene material by email, websites, sms has been reduced from 5 years jail to 3 years jail.
- This covers acts like sending 'dirty' jokes and pictures by email or SMS.



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Social Engineering

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

Check Mail New

Search Mail... Go

Inbox (28)
Drafts (5)
Sent
Spam (5) Empty
Trash (7) Empty

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

Folders
CDAC
Docs Downloads
IEEE CSDA
InfoSec Module
Journals - Conferences
MANUU
My Folder
Patent
Ph.D.
Student Projects

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



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.

Star Connect Internet Banking Services

USER ID:
 PASSWORD:



[Trouble Logging in](#) | [Safe Internet Banking](#) | [Terms and Conditions](#) | [Disclaimer](#) | [Contact Us](#)
 [Best viewed in IE ver 5.5 and above in 1024 x 768 Resolution]

Star Connect Internet Banking Services

Retail

Virtual Keyboard (for entering password only) [Help](#)

USER ID:
 PASSWORD:

Use virtual keyboard (Recommended)

Note: Password is Case Sensitive

j	u	a	i	g	d	h	n	x	2	6	7
y	l	m	q	b	p	i	r	k	3	9	4
f	o	c	w	z	v	s	e	8	1	5	
{	&	~		#	^	?	%			0	
:	*)	\$,	-	>	!	*	/		
@	"		[[[]]	=	.	<	-
<input type="button" value="Caps Lock"/> <input type="button" value="Backspace"/> <input type="button" value="Clear"/>											

[Forgot Password?](#) | [New User](#) | [Transaction Password](#) | [Password Acknowledgement](#) | [Unblock/ Regenerate Password](#)
You can now use your Debit-cum-ATM Card for Online Reset / Unblock / Acknowledge / Request for your Password


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Bank of India

रिश्तों की जमापूँजी
Relationships beyond banking.



Home



Logout

Accounts

Transfers

Pay Tax

Demat

Requests

Mails

Options

Bank of India Internet Banking

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

*Cardholder Name:

*E-mail Address:

*Card Number:

*Expiration Date:

*ATM Pin:



[Trouble Logging in](#) | [Safe Internet Banking](#) | [Terms and Conditions](#) | [Disclaimer](#) | [Contact Us](#)

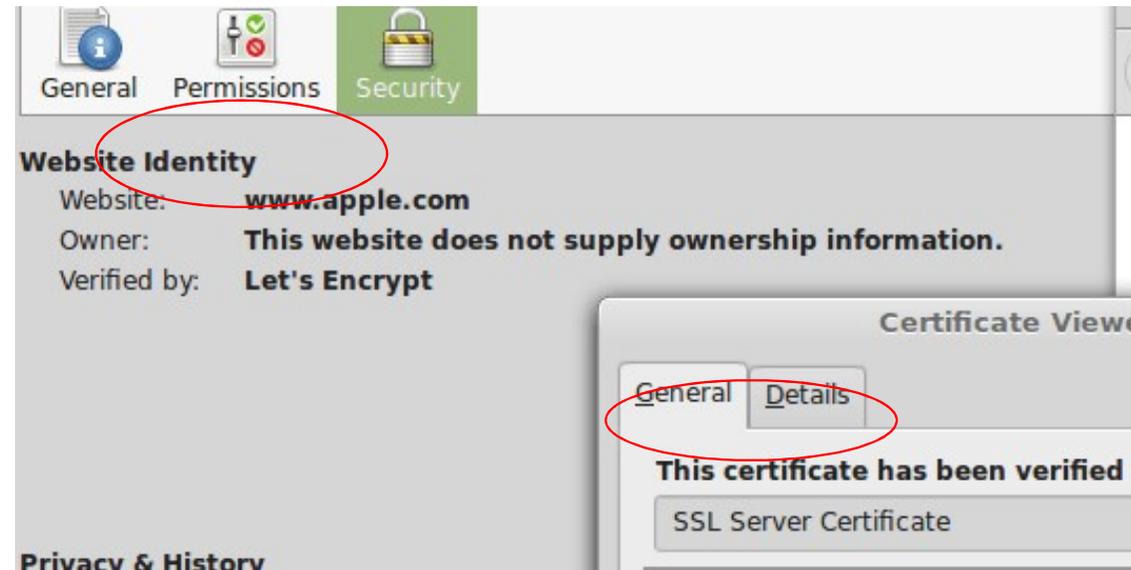
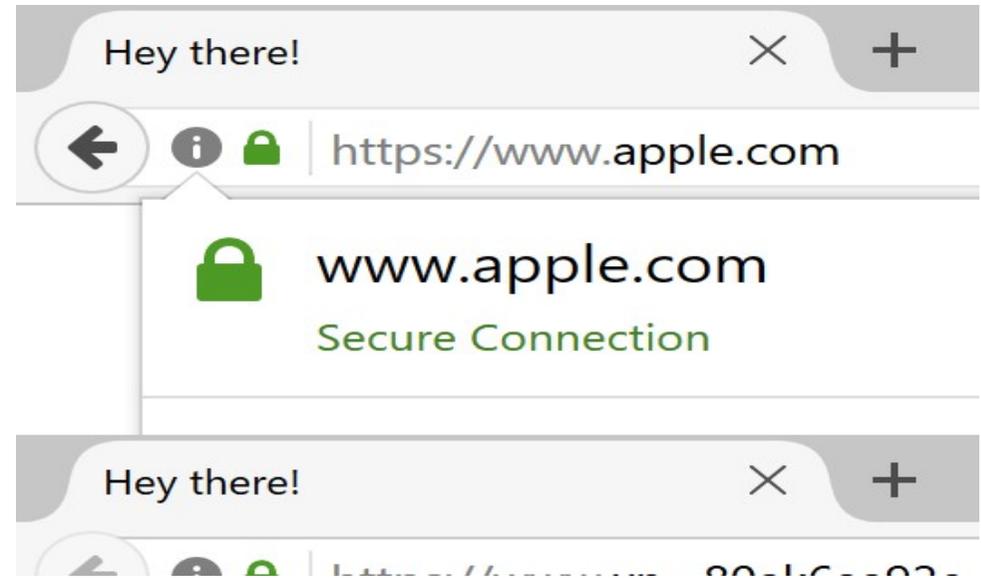
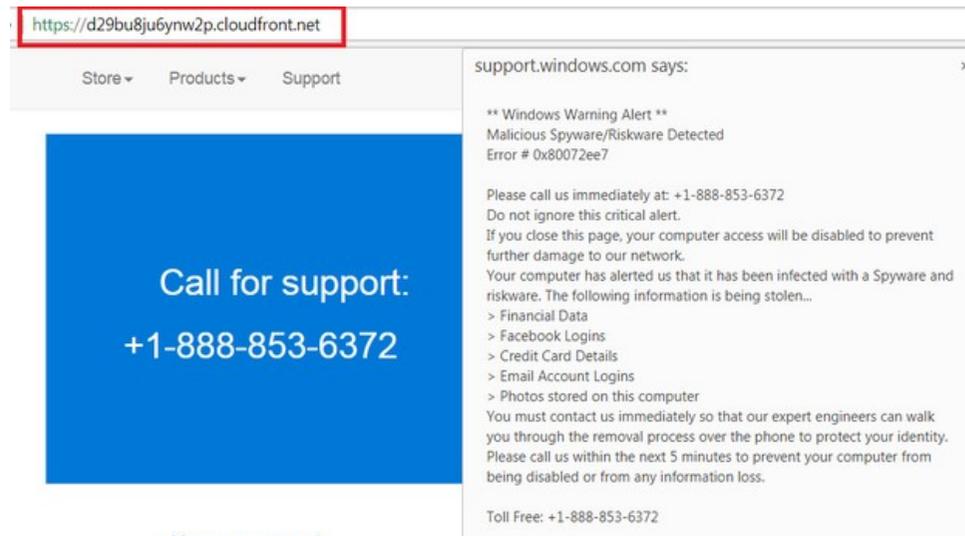
[Best viewed in IE ver 5.5 and above in 1024 x 768 Resolution]

Homographic Attack

Fake Google Ad



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.



Homograph Characters

Appearance	Character	Emulated	Source Language (example)	Main Lanuage	Upper	Lower	Unicode (upper)	Unicode (lower)
Look the same	aA	aA	Russian	English	x	x	410	430
Look the same	B	B	Russian	English	x		412	
Look the same	eE	eE	Russian	English	x	x	415	435
Look the same	κK	kK	Russian	English	x	x	41A	43A
Looks similar	mM	mM	Russian	English	x	x	41C	43C
Look the same	H	H	Russian	English	x		41D	
Look the same	oO	oO	Russian	English	x	x	41E	43E
Looks similar	n	n	Russian	English		x		43F
Look the same	pP	pP	Russian	English	x	x	420	440
Look the same	cC	cC	Russian	English	x	x	421	441
Look the same	T	T	Russian	English	x		422	
Looks similar	yY	yY	Russian	English	x	x	423	443
Look the same	xX	xX	Russian	English	x	x	425	445
Looks similar	b	b	Russian	English	x		42C	
Looks similar	r	r	Russian	English		x		433
Look the same	sS	sS	Macedonian	English	x	x	405	425
Look the same	il	il	Ukrainian	English	x	x	406	426
Look the same	jj	jj	Serbian	English	x	x	408	428
Look the same	qQ	qQ	Kurdish	English	x	x	51A	51B
Look the same	wW	wW	Kurdish	English	x	x	51C	51D

Other Social Engineering Methods

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



Created by Mirna Bard
www.mirnabard.com

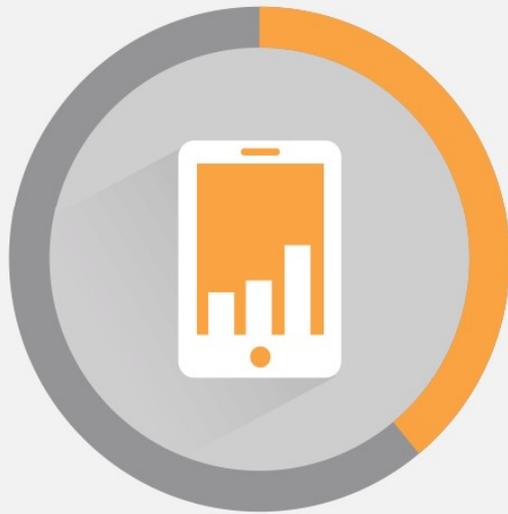


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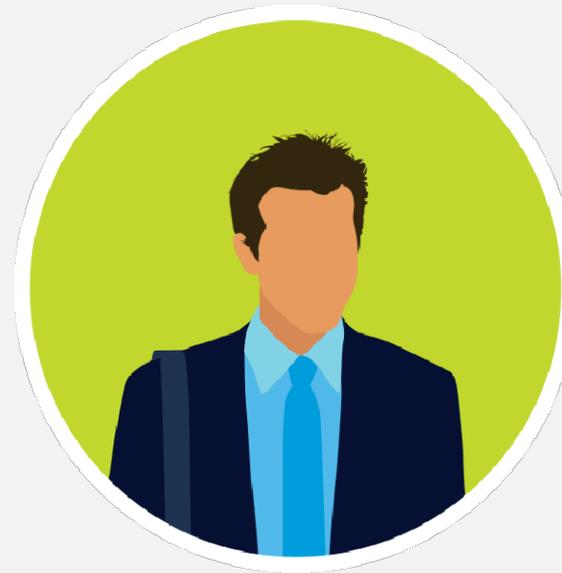
Cont..

If your Answer is **safe**



hOw MuCH **Secure**
Are You ??

If your Answer is
Unsafe



Think About **Security**
Awareness



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Thank You



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