



Information Security
Education & Awareness
Team

C-DAC Bengaluru

Cyber Hygiene - Practices to Achieve Cyber Safety

keeping yourself and your family safe in
a tech driven world

Dr. Mohammed Misbahuddin
Joint Director

www.infosecawareness.in

Cyber society



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



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awareness.in](http://www.InfoSecawareness.in)

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While using the Internet what are the primary online risks we face



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Major Online Risks and Threats

To Computer

Virus



Worms



Trojans



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What are cyber crimes ?

- 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.



Cyber Crime rate in INDIA

Under Information Technology Act during the year**

Year	Cyber Crimes
2014	9622
2015	11592
2016	12317

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

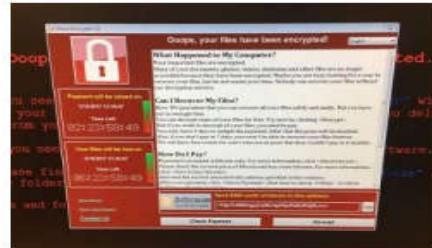
<http://ncrb.nic.in/StatPublications/CII/CII2015/FILES/Snapshots-11.11.16.pdf>

Courtesy: Cert-in



One cybercrime in India every 10 minutes

TNN | Jul 22, 2017, 02:17 AM IST



BENGALURU: From the global ransomware attacks that hit hundreds of systems to phishing and scanning rackets, at least one cybercrime + was reported every 10 minutes in India in the first six months of 2017. That's higher than a crime every 12 minutes in 2016.

According to the Indian Computer Emergency Response Team (CERT-In), 27,482 cases of cybercrime were reported from January to June.

These include phishing, scanning or probing, site intrusions, defacements, virus or malicious code, ransomware and denial-of-service attacks.

With more Indians going online, cyber experts said putting in place critical infrastructure to predict and prevent cybercrimes was crucial.

India has seen a total of 1.71 lakh cybercrimes in the past three-and-a-half years and the number of crimes so far this year (27,482) indicate that the total number is likely to cross 50,000 by December, just as in 2016.

"It is not just enough to make efforts at the government level, which is, in some sense happening, but cybercrime affects hundreds of individual systems and firms, all of whom need to be ready with specialised teams," cybercrime expert Mirza Faizan Asad said.

While India has been dealing with crimes such as phishing and defacement, ransomware attacks have come as a surprise.

<http://timesofindia.indiatimes.com/india/one-cybercrime-in-india-every-10-minutes/articleshowprint/59707605.cms>

Wrath of cyber crime: Over 50,300 incidents observed in 2016

PTI | Feb 09, 2017, 08:24 AM IST

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Related

- Cracking down online hate! Twitter expands effort to protect its users from harassment.
- 60 per cent people pay more attention to their smartphones when out on a date: Survey

He added that the types of cyber security incidents included phishing, scanning/probing, website intrusions and defacements, virus/malicious code and denial of service attacks.

"With the proliferation of Information Technology and related services, there is a rise in instances of cyber crimes in the country like elsewhere in the world," he said.

As per the data maintained by National Crime Record Bureau (NCRB), a total of 5,693, 9,622 and 11,592 cybercrime cases were registered during the years 2013, 2014 and 2015, respectively, showing a rise of 69 per cent during 2013 to 2014 and 20 per cent during 2014 to 2015.



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Key areas to focus

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



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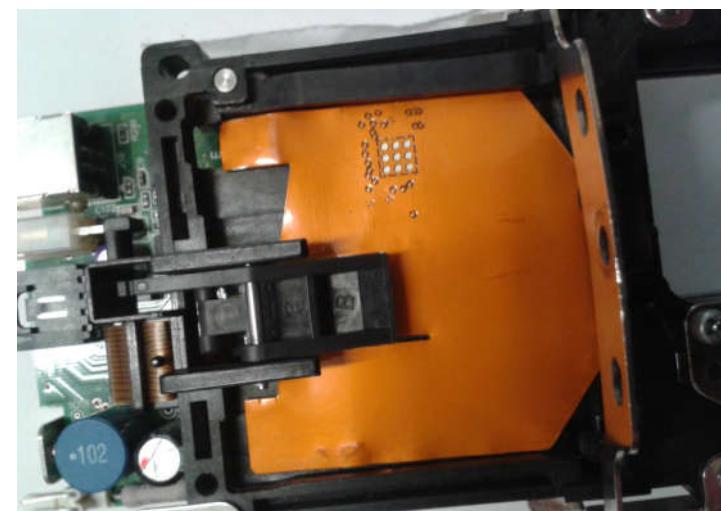
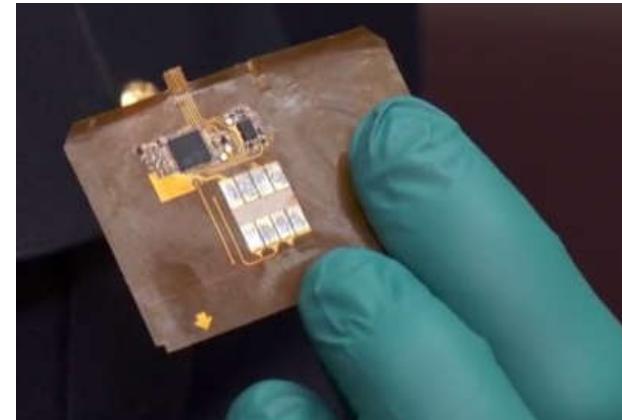
Identity

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

Skimmers / Shimmers



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What do skimming devices look like?

- Can you tell if this ATM machine has a skimming device fitted to the card reader?



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Spot the difference...Can you tell now?



- Top photo shows an unadulterated ATM fascia. The flashing lead through entry indicator is easily observed.

•Note: Most skim devices when fitted will obscure the flashing entry indicator this should be a vital clue as to any suspect tampering.

•Spot the difference in the next photo.

- A skim device has been placed in or near the card reader slot. Although the device has been given the appearance of being a standard part of the terminal it is in fact an additional fitted piece & clearly is different from the above photo.

•Note: No flashing lead through light can be seen. The shape of the bezel is clearly different.



BIOMETRICS



PRIVACY



PAN CARD



PERSONAL DATA



Aadhaar Misuse ... Are you Scared ?



mAadhaar

Unique Identification Authority of India Tools

★★★★★ 380

3+

This app is compatible with all of your devices.

Add to Wishlist

Install

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

NOTE
This is a beta version of the
app. Some of the features
services would be fully
applicable only in the
subsequent updates.



T-OTP generation
for Aadhaar Services

Share your eKYC
information with
any service
provider

ANDROID APP ON
Google play OR

Scan



f @AadhaarOfficial

G+ @AdhaarUIDAI

t @UIDAI

y @AadhaarUID

Aadhaar Misuse ... Are you Scared ?

#AadhaarVirtualID



ANNOUNCING THE LAUNCH OF **Virtual ID**

visit uidai.gov.in
to generate your VID

Soon, service providers will start accepting
VID in place of Aadhaar number

Currently, you can use **VID** to update
your address in Aadhaar online

@AadhaarOfficial @AadhaarUIDAI @UIDAI @AadhaarUID



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 would be optional.
The Aadhaar holder can choose
to use Aadhaar number instead

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

The VID will be a temporary number
that shall be automatically revoked once
the Aadhaar holder generates a new
VID or after the validity of the current VID
lapses (to be specified by UIDAI policy)

UIDAI shall offer means to generate
VID via the resident portal
(resident.uidai.net.in),
at Aadhaar Kendra or via
the mAadhaar mobile app

Only the Aadhaar holder would
be able to generate the VID.
No one else including the
authentication agency can generate
this VID on behalf of the Aadhaar holder

- UIDAI shall implement the VID service by 1st March 2018.
- All service providers are requested to make necessary changes in their systems.
- All AUAs and ASAs (Aadhaar authentication service providers) to complete the implementation by 1st June 2018.

#AadhaarVirtualID

*Source UIDAI Social Media



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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

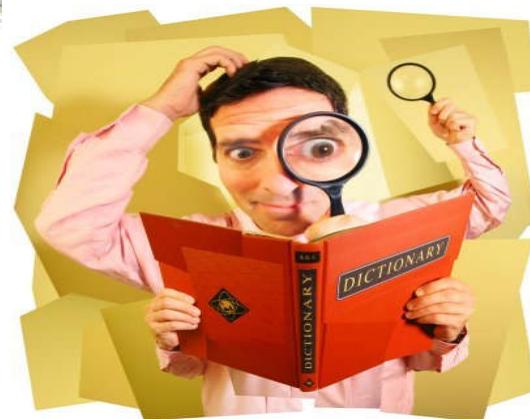


Password Attacks

Brute force attack ↗



Shoulder Surfing ↗



Take care about 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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Mobile Security

Mobile Security

- [Mobile Security](#)
- [OTP based Frauds](#)
- [WhatsApp Security](#)
- [SIM Swap](#)
- [Wi-Fi Security](#)
- [Wi-Fi AP](#)
- [Vishing](#)
- [SMSing](#)



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Mobile Security Tips to **REMEMBER**

- Doing these simple tips will 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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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

(26 unread) Yahoo! Mail, mdmisiabuddin - 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 INDIA Hi, mdmisiabuddin | Invisible | Sign Out

Check Mail New Search Mail... Go

Inbox (26) Drafts (5) Sent (Empty) 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 Docs Downloads IEEE CSDA 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 Up! ALERT: Update Your B.

Delete Reply Forward Spam Move Print Actions

ALERT: Update Your Bank of India Account Details

From: Bank of India <nlwmg@accounts.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.

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/

Threats and ... law_phishin... parno_phoo... presentation... KINGSTON ... Bank of Ind... Bank of Ind...



Star Connect Internet Banking Services

USER ID : mis

PASSWORD : *****

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

बैंक ऑफ इंडिया

रिश्तों की जगाँजी

Relationships beyond banking

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

[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
Important : In our constant endeavor to give you better service and user experience, we have enhanced our Internet banking site. You may feel changes in the User Interface (look and feel). Please change your password regularly and keep your computer protected and updated with latest Antivirus and patches. Please do not click on any hyperlinks to reach to our site, but type our site address <http://bankofindia.co.in/>.
[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]

Reported Web Forgery! [Get me out of here!](#) [This isn't a web forgery...](#) [x](#)

 बैंक ऑफ इंडिया
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:



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

Another Example of Phishing Attempt on Income Tax Website

Tax refund (5416533) 820.50 Rs Inbox | X

 India Tax Department 

[show details](#) 4:24 AM (7 hours ago)  

Images are not displayed.
[Display images below - Always display images from fihktr@yahoo.com](#)

Dear Income Tax Department of India customer,

After the last annual calculation of your fiscal activity we have determined that you are going to receive a tax refund of \$820.50 Rupees.

Please submit the tax refund form and allow 3-5 days in order to approve it.

A refund can be delayed for a variety of reasons. For example submitting invalid records or sending the form after the deadline.

To complete the form please [Click Here](#).

NOTE!
For security reasons your ip may be recorded.

Thank you,
Income Tax Department of India Online Department.

Google

Income Tax Department of...

http://intaxdepartamenet.com/Folder/

Income Tax Department

Department of Revenue, Ministry of Finance, Government of India

Draft Direct Tax Code

PAN

TAN

eTDS

AIR

OLTAS

PAY TAXES ONLINE

VIEW YOUR TAX CREDIT

Tax-Payers Information Booklet

BPR

Foreign Remittance (Form 15CA)

Aaykar Sampark Kendra (ASK)

Where's My Refund

Dear applicant,

After the last annual calculation of your fiscal activity we have determined that you are eligible to receive a tax refund of 820.50 Rupees.

Please submit the tax refund and allow us 3-5 business days in order to process it.

If you don't receive your refund within 5 business days from the original IRS mailing date shown on Where's My Refund?, you can start a refund trace online.

To get to your personal refund information, be ready to enter your:

- Full name, Address and the Debit/Credit Card where refunds will be made.

To access the form for your tax refund, please click on the "**Where's My Refund?**" above image or **Tax Refund Online Form**.

Note:

- For security reasons, we will record your ip-address and date.
- Deliberate wrong inputs are criminally pursued and indicted.

Press Release

Educational Institutions under section 10(23 C)

Industrial Parks u/s 80 IA(4)(iii)

Tax Information Network

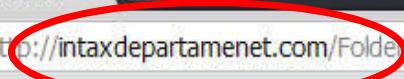
TIN Helpdesk

Tax Calculator

Departmental News

Cadre Review and Restructuring of Income Tax Department

trbs



Original Website of Income Tax Department at that time

National Website of the Inc... <http://www.incometaxindia.gov.in/>

Income Tax Department

Department of Revenue, Ministry of Finance, Government of India

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Visit Field Offices: [Select] Go

The Directorate of Income-tax(IT) has issued admit cards and roll numbers to the candidates of the new pattern of the Departmental Examination 2009.

Visit Directorate Generals: [Select] Go

The Directorate of Income-tax(IT) has issued admit cards and roll numbers to the candidates of the new pattern of the Departmental Examination 2009. The admit cards can be downloaded by the candidates by filling their application number and centre choice. [ADMIT CARD - DE 2009 \(NEW PATTERN\)](#)

Following instructions may be kept in mind by the candidates:-

- (i) For ITO Examn., Asansol, Jalpaigudi candidates have been given Kolkata Centre.
- (ii) For ITO/ITI Examn., Silchar candidates have been given Guwahati Centre.
- (iii) For ITI Examn. Bareilly candidates have been given Lucknow centre.

List of candidates (69 for ITO and 14 for ITI) who were not allotted admit cards for wrong eligibility as per application forms.

- 1. Wrong Eligibility List I
- 2. Wrong Eligibility List II
- 3. Wrong Eligibility List III
- 4. Wrong Eligibility List IV
- 5. Wrong Eligibility List V

CBOT has rescheduled the ITO/ITI/MS Examination 2009

The old/new pattern of Departmental Examination 2009 for ITOs/ITIs/MS have been rescheduled in view of assembly elections in certain states.

- 1. Notification
- 2. Schedule for Collection of Papers
- 3. Schedule for ITI/ITO Exam
- 4. Schedule for MS Exam

CBOT has issued amendments in Income Tax Act 1962 (the Act)

The Income Tax Act 1961 (the Act) has been amended with effect from 1st October 2009 to provide that any gift-in-kind, being an immovable property or any other property, the value of which exceeds Rs.50,000 (rupees fifty thousand) [Press Release](#)

Growth in direct Tax collections (Upto September, 2009)

Net direct tax collections during first six months of the present fiscal (up to September 2009) stood at Rs.1,52,625 crore, up from Rs.1,47,197 crore in the same period last fiscal, registering a growth of 3.69 percent. Growth in Corporate Taxes was 5.55 percent (Rs.1,00,572 crore as against Rs.95,283 crore), while Personal Income Tax (including STT, and residual FBT and BCTT) grew at 0.38 percent (Rs.51,897 crore as against Rs.51,700 crore). Lower growth in net collection was mainly on account of higher tax refund outgo of 51.1 percent at Rs.28,281 crore

Hindi Version

FAQs

Press Release

Educational Institutions under section 10(23 C)

Industrial Parks u/s 80 IA(4)(iii)

Tax Information Network

TIN Helpdesk

Tax Calculator

Departmental News [New](#)

Cadre Review and Restructuring of Income Tax Department

Income Tax Department of... X

http://intaxdepartamenet.com/Folder/profile.php

Income Tax Department

Department of Revenue, Ministry of Finance, Government of India

Tax Refund Online Form

Please enter your information where the refund will be made.

* Cardholder Name:

* Date of Birth: Month Day Year

* Mother Maiden Name:

* Address:

* Town/City:

* State/Province/Region:

* Postal Code:

* Phone Number:

* Bank Name:

* Card Number:

* Expiration Date: Month Year

* Card Verification Number:

* ATM Pin:

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Cadre Review and Restructuring of Income Tax Department


trps
Tax return preparers scheme

Homographic Attack

amazon

Fake Google Ad

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/)

[https://www.amazon.com/ ▾](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 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

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 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	kK	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

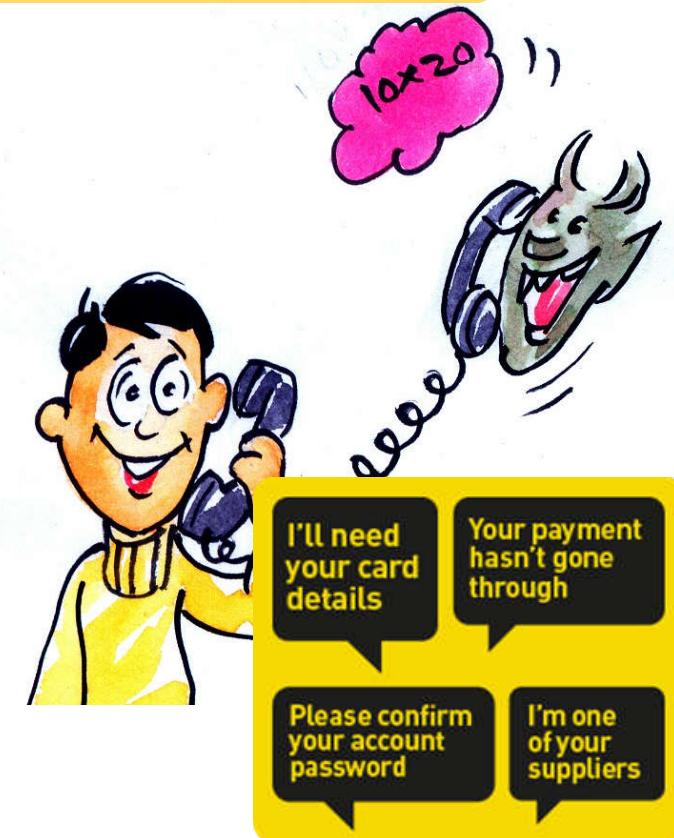


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VISHING

Be aware of Fraudulent calls



[www.
InfoSec
awareness.in](http://www.InfoSecawareness.in)

सांकेतिक
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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/20wpYK6>

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/2KVr2ls>

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](#). 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](#). 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



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



[www.
InfoSec
awareness.in](http://www.InfoSecawareness.in)

सीआईएस
CDAC

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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सीआईडीएक
CDAC

Conclusion

- ❖ Nothing comes free in this world – Understand it
- ❖ Nothing is Secure in the World of Security
- ❖ Risks are inherent in any Cryptographic System
- ❖ Any security system is only as safe as the weakest link in a security chain!
- ❖ Anti-virus, Firewall is not a one-stop solution for all your security needs

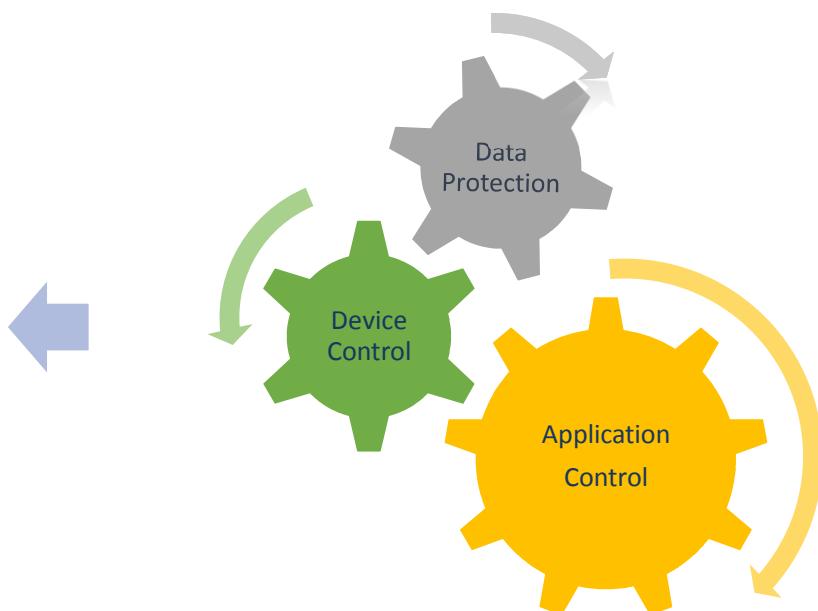
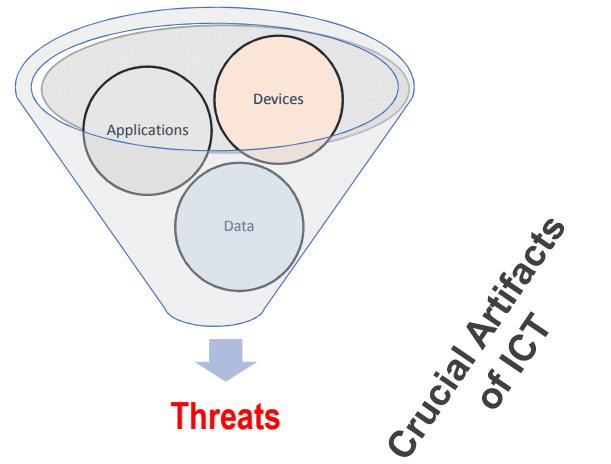
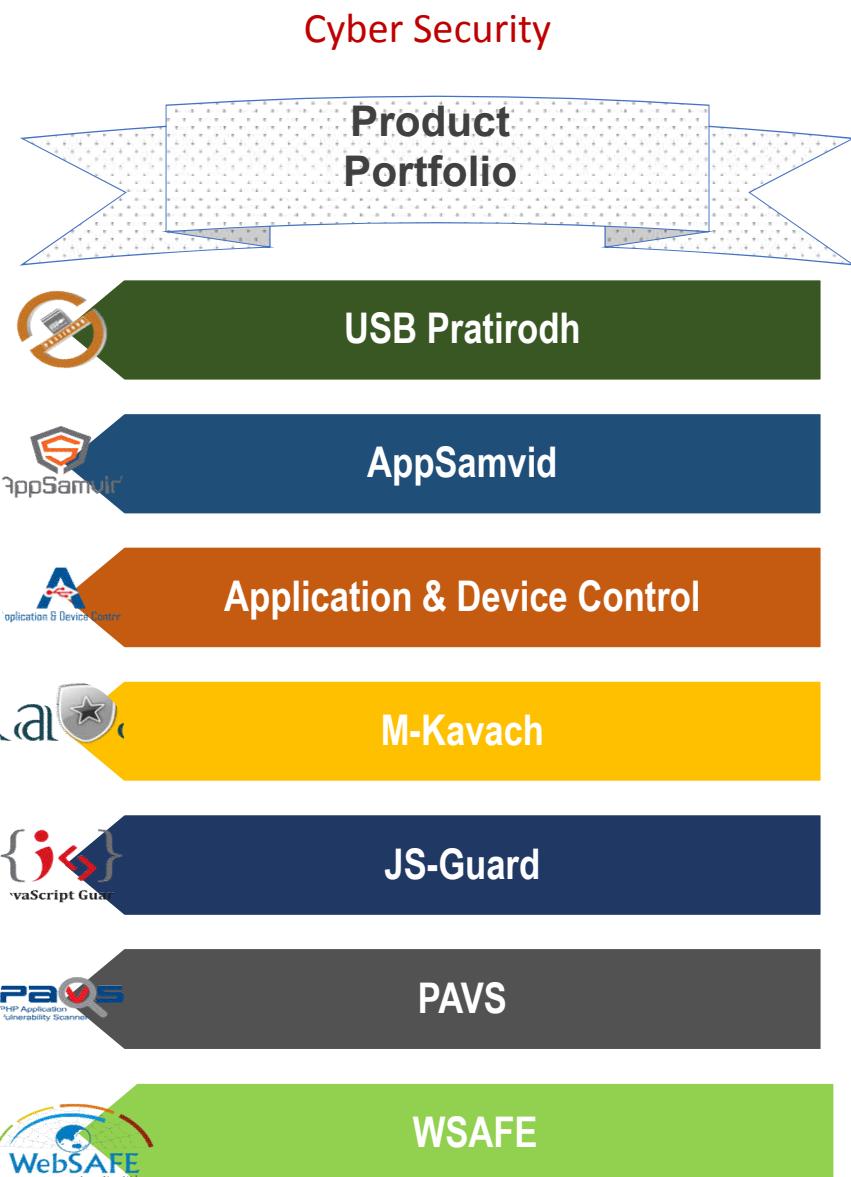




Information Security
Education & Awareness
Team

C-DAC Bengaluru

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Thank You

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