



Yaksas
Cyber Security Research

PROTECTION FROM CYBER CRIME

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YAKSAS SECURITY

26 MARCH 2023

AGENDA

- State of Cyber Crime in India
- Cyber Crime vs Not a Cyber Crime
- Case Studies and Tips to Stay Safe from Cyber Crime
- Where to report a cyber crime?
- Quiz
- Questions





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STATE OF CYBER CRIME IN INDIA



STATE OF CYBER CRIME IN INDIA - 2021



Observations

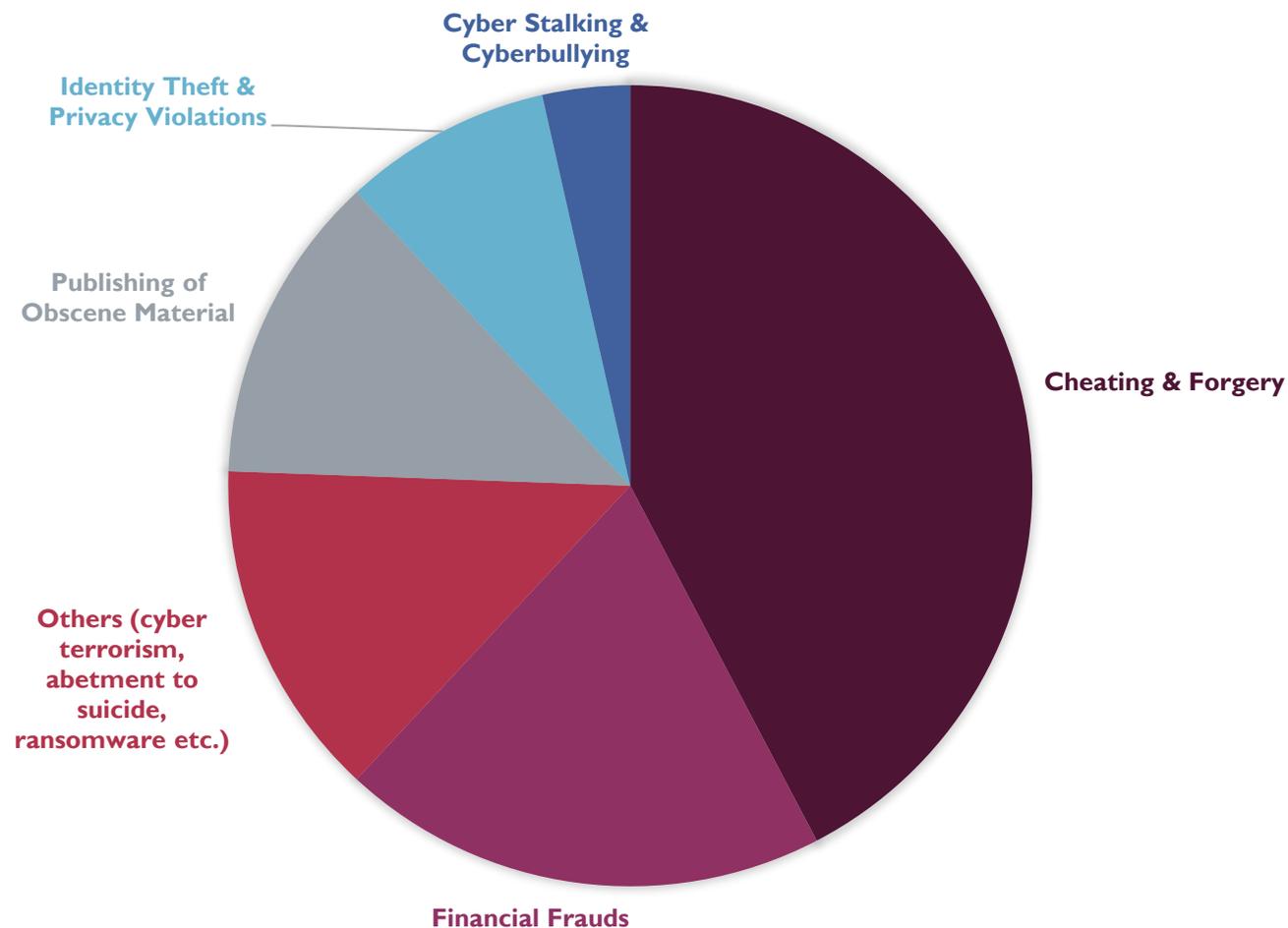
- Uttar Pradesh and Telangana reported the **most** cyber crime cases in 2021
- Karnataka was on 2nd place with 8136 cases
- Maharashtra and Assam occupied the 3rd place.
- Over 10 Lakh cyber crime complaints received in 2022 (^168%)

Data source: <https://data.gov.in>
Catalog: Cyber Crime in India -2021



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TOP CYBER CRIME CASES REPORTED IN 2021 (INDIA)



Observations

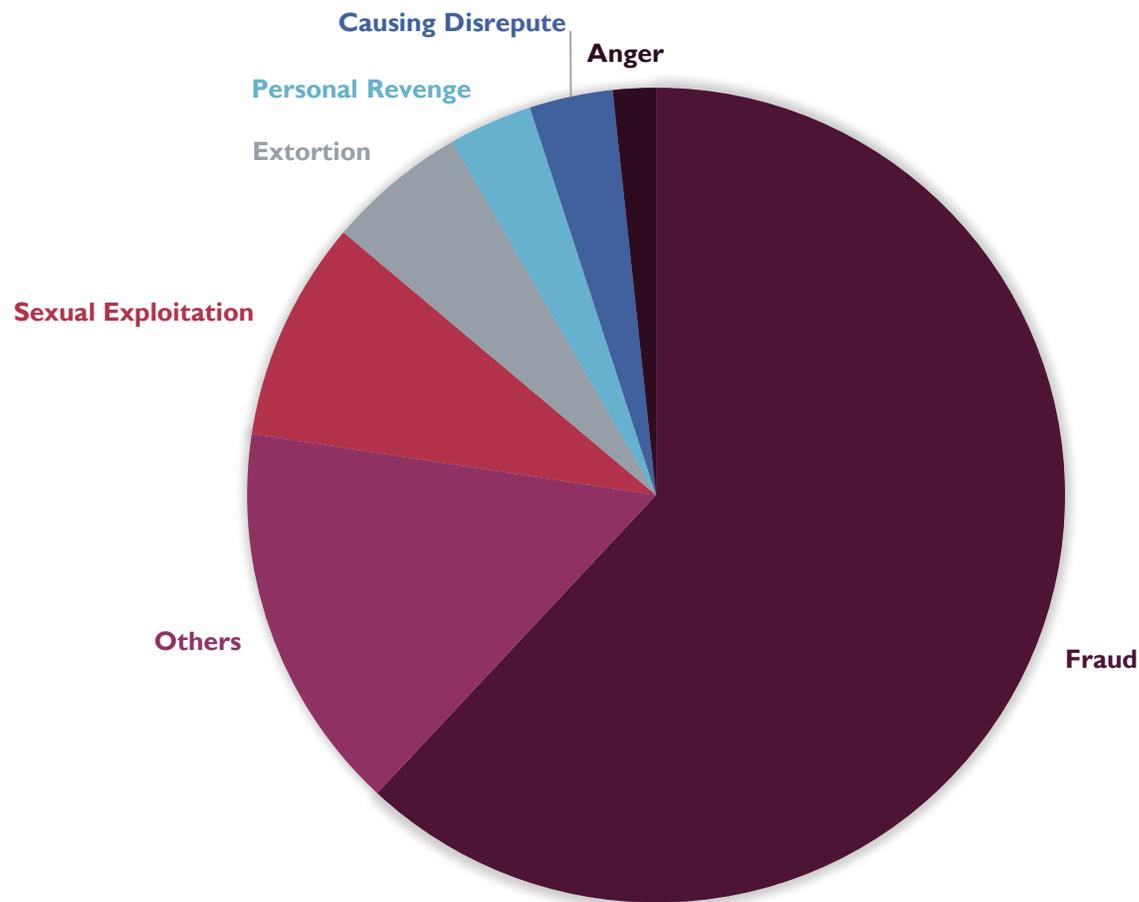
- Maximum number of cyber crime cases reported in 2021 belonged to Cheating & Forgery category.
- Financial Frauds (OTP, ATM, Online banking etc.) followed next.

Data source: <https://data.gov.in>
Catalog: Cyber Crime in India -2021



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TOP MOTIVES BEHIND CYBER CRIME IN 2021 (INDIA)



Observations

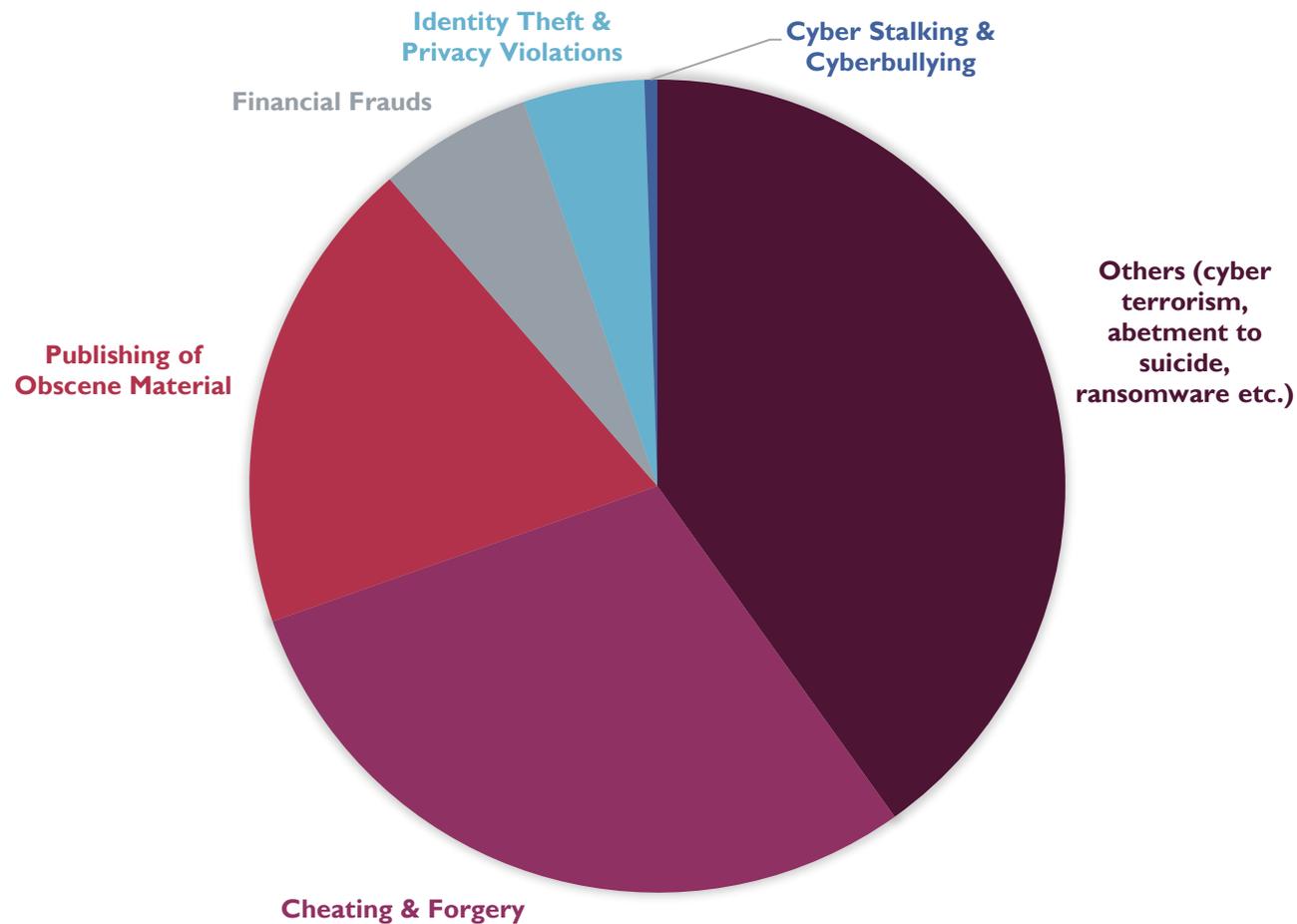
- The biggest motive behind cyber crime cases reported in 2021 is Frauds.
- Other motives such as cyber terrorism, abetment to suicide, cyber bullying, sexual exploitation etc. were a close second.

Data source: <https://data.gov.in>
Catalog: Cyber Crime in India -2021



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TOP CYBER CRIME CASES REPORTED IN 2021 (UTTAR PRADESH)



Observations

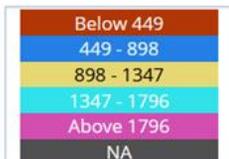
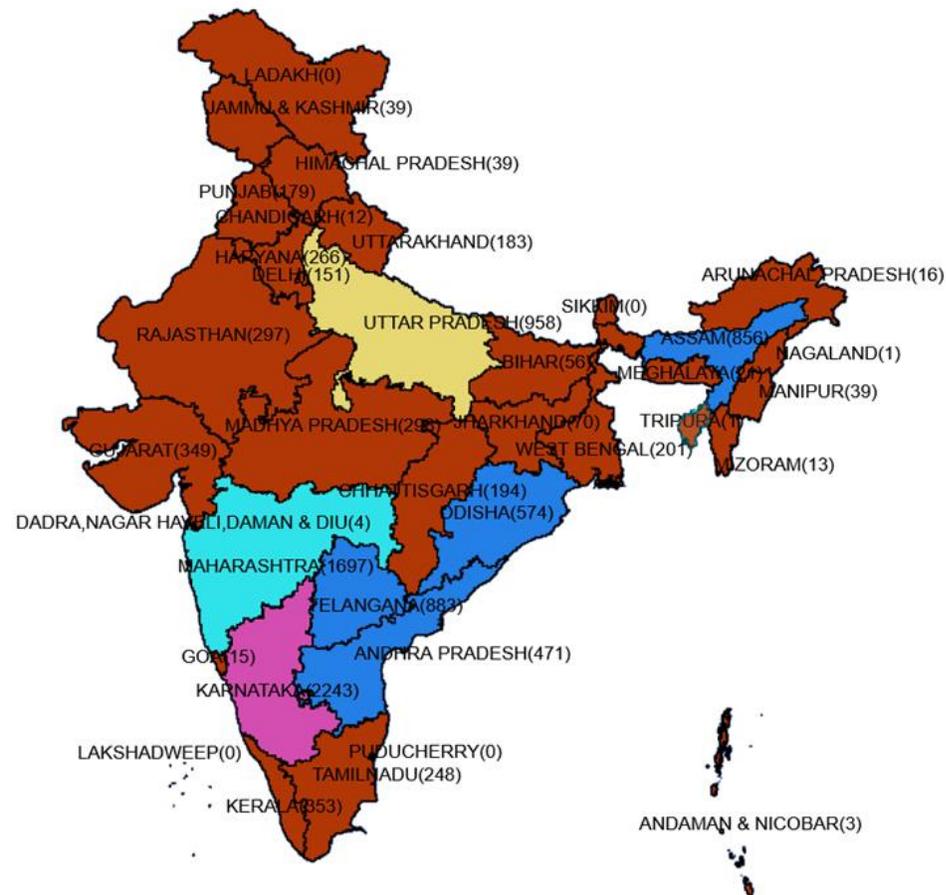
- Cheating & Forgery and Publishing of Obscene Material were the top two cyber crime categories in Uttar Pradesh in 2021.

Data source: <https://data.gov.in>
Catalog: Cyber Crime in India -2021



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STATE / UT WISE CYBER CRIME AGAINST WOMEN - 2021



Observations

- Karnataka reported the **most** cases of cyber crime against women in 2021.
- Maharashtra was on 2nd place with 1697 cases
- Uttar Pradesh occupied the 3rd place.

Data source: <https://data.gov.in>
Catalog: Cyber Crime in India -2021



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STATE / UT WISE CYBER CRIME AGAINST CHILDREN - 2021



Observations

- Maharashtra, Karnataka and Kerala reported the **most** cases of cyber crime against children in 2021.
- Uttar Pradesh and Chhattisgarh occupied the 2nd place.

Data source: <https://data.gov.in>
Catalog: Cyber Crime in India -2021



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CYBER CRIME VS NOT A CYBER CRIME



CYBER CRIME VS NOT A CYBER CRIME

- Cyber Crime - Crime in which computers or the internet are **used as a medium** to commit the crime or **are the target** of the crime. E.g. Net Banking frauds, fake news, social media account theft, installing malicious software in an unauthorized manner etc.
- Not a Cyber Crime – Crime in which computers are **used as a mere tool** to enable the crime. For example, transferring black money to an offshore account via online banking or kidnappers asking ransom in crypto currency.



CASE STUDIES AND TIPS TO STAY SAFE FROM CYBER CRIME



FRAUDULENT MAIL TO STEAL CREDENTIALS

Remittance Report / Info Feb' 2023

 appsupport <appsupport@cloudninecare.com>
To mailme@udaymittal.com

 If there are problems with how this message is displayed, click here to view it in a web browser.
Click here to download pictures. To help protect your privacy, Outlook prevented automatic download of some pictures in this message.

 Remittance Info.html
961 bytes

Hi mailme,

Please see attached is the remittance advice for the Eft payment effective as of March. 06. 2023

We appreciate your prompt attention to this matter.

Thanks & Regards
App Support
Cloudnine Group of Hospitals
Download "Its Our Baby" App for seamless Cloudnine Experience
[Download App Now](#)

 T: +91 99728 99728

- How to identify such mails?
 - Check for improper greeting or grammatical errors in the content of the mail.
 - Have you received such mail from the sender in past? OR are you expecting such a mail?
 - Check for unusual attachment extensions.
- What not to do?
 - Do not open the attachment or enter any personal information e.g. credentials
 - Do not respond to the mail.
- What to do?
 - Mark such mails as spam.
 - Follow-up with the concerned person or organization to validate the authenticity.

BEWARE OF WHO YOU MAKE FRIENDS WITH ONLINE

Cyber Scam: Thane Woman Cheated Of Rs 12 Lakhs By Conmen On Facebook

- A man from Malaysia became friends with the woman and claimed to sent her a gift.
- Woman was notified that gift is held with Customs.
- She ended up paying over 12 Lakhs.

Source: <https://www.the420.in/cyber-scam-thane-woman-cheated-of-rs-12-lakhs-by-conmen-on-facebook/>

- How to identify such scams?
 - Beware of people claiming or wanting to send unsolicited gifts.
 - Beware of calls demanding payment to release the gift
- What not to do?
 - Do not accept friend requests from strangers.
 - Do not trust such messages.
- What to do?
 - Report such messages as fraud.
 - Verify the details before making a payment.



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CLONING APPS TO STEAL MONEY

Alert! New Phishing Attack: Scammers Are Creating Clones Of Banking Apps To Steal Your Money

- Cybercriminals created clone apps of popular banks such as SBI, ICICI etc.
- Used fraud SMS to get customers to download them.
 - *Dear customer, your HDFC bank account will be closed today. Please update your PAN number via the given link <http://rb.gy/xxdyhi> thank you!”.*

Source: <https://www.the420.in/alert-new-phishing-attack-scammers-creating-clone-of-banking-apps-to-steal-your-money/>

- How to identify such scams?
 - SMS from bank demanding urgent call to action.
 - Check the link.
- What not to do?
 - Do not click the link.
 - Do not call the number (if given).
- What to do?
 - Download apps from authorized app stores.
 - Validate the information with bank.



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USING 'IMAGINARY' PARCELS TO CON PEOPLE

Your FedEx Package Has Drugs: Know The Latest Scam Where Scammers Impersonate Cops

- Call from a number posing as FedEx Customer Care claiming a parcel has been flagged because of illicit items.
- CC agent pretended to transfer call to the city's Cyber Cell. Thereafter, they tried to intimidate.
- Victim asked to share personal information and make a payment.

Source: <https://www.the420.in/your-fedex-package-has-drugs-know-the-latest-scam-where-scammers-impersonate-cops/>

- How to identify such scams?
 - If you haven't send a parcel, do not entertain such calls.
 - Closely scrutinize any document shared.
- What not to do?
 - Do not share personal information or govt. IDs.
 - Do not make a payment.
- What to do?
 - Verify with the concerned company,
 - Verify with local police station or concerned cyber cell.



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USING FAKE CUSTOMER SUPPORT CHANNELS TO CHEAT PEOPLE

Fake Customer Support: This Is How Actress Payal Rohatgi Lost Rs 20,000 While Shopping Online

- Payal Rohatgi contacted customer support to return an item.
- Was asked to pay Rs. 10 via card and also share the OTP.
- Immediately Rs 20,238 were taken out of her account.

Source: <https://www.the420.in/fake-customer-support-this-is-how-actress-payal-rohatgi-lost-rs-20000-while-shopping-online/>

- How to identify such scams?
 - Customer care asking for money.
 - Customer care asking to share OTP.
- What not to do?
 - Do not trust customer care numbers reported by Google.
- What to do?
 - Use customer care numbers / channels available on the vendor website.
 - Report such cases to the concerned vendor company



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WHERE TO REPORT A CYBER CRIME?



WHERE TO REPORT A CYBER CRIME?

- **National Cybercrime Reporting Portal** - <https://cybercrime.gov.in>
- **Cybercrime helpline** - Helpline number is 1930
- **Nearest local Police station** - 112 / 100 Women helpline number is 181
- **Nodal cyber cell** -
https://www.rbi.org.in/commonman/Upload/English/Content/PDFs/LNA100112C_M.pdf
- **Additional information available at:**
 - <https://www.the420.in/cyber-crime-helpline-reporting-cyber-crime-in-india-keep-this-information-ready-before-calling-1930/>
 - <https://www.the420.in/step-by-step-guide-how-to-file-cybercrime-complaint-online-in-india/?swcfpc=1>





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QUIZ



QUIZ

Which is the real website of Gmail?

- A. gmail.com
- B. gm̈ail.com

Answer:A. Option B looks similar but the 'ɑ' in gm̈ail.com looks like an alphabet but it's not. Such characters are called Homoglyphs.They are identical to letters. Such letters are often used in scam (phishing) mails to mislead people.

People can know your exact location from the photos you share on social media.

- A. True
- B. False

Answer:True. Most cameras have a feature to embed location co-ordinates in the photo.When you upload a photo to social media this information also gets uploaded. It is possible to turn off this feature in cameras. It is also possible to auto-remove this information via the privacy settings.



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QUIZ

A person Z posted a picture on social media. They receive a negative comment on it and it upsets them. Select what they should not do:

- A. Delete the picture or comment
- B. Reply to that comment
- C. Block the person who posted the comment
- D. Take time to cool down before proceeding

Answer: B. It is not advised to respond to such comments when you are upset or angry as it may lead to further trolling and other people may also get involved. It is best to step away and cool down before deciding what to do next. A and C are also valid but they will be of little help to restore your peace of mind.



QUIZ

You received an OTP and following it a call asking for the OTP. What should you do?

- A. Share the OTP
- B. Ask the caller why they need the OTP
- C. Do not entertain the caller
- D. Block / report the calling number
- E. Check how the caller was generated the OTP

Answer: C, D and E.

If you ever find yourself in such a situation, it is most likely a scam, never share the OTP. Do not entertain the caller as they are trained to convince people on why they need the OTP. Block the caller. Most importantly, check how they were able to generate the OTP. If they reached this stage, most likely it means that some part of the account (card details, username and password etc.) is known to the caller.



QUIZ

Z received an email stating that someone compromised their computer. It also states that they recorded Z's 'sensitive' videos and pictures. Next is the demand for ransom in exchange of not leaking those videos and pics. What should Z do?

- A. Pay the ransom
- B. Ask for proof
- C. Evaluate and ignore the mail

Answer: C is the best option for this. Such mails try to play on the recipient's fear. It is easy to panic and fall into the trap. However, they are usually Spam. Z should carefully evaluate the contents of the mail to validate its authenticity. Z must not opt for A and B as this will give the criminal an upper hand.

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QUESTIONS

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THANK YOU

