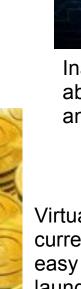
Cyber Awareness

Manish Lodha
Jt. Advisor,
Telecom Regulatory Authority of India (TRAI)

Why is it easy to commit cyber crime?



Anonymity – Easy to remain anonymous



Virtual currency easy to launder money



Rapid adoption

of new

technology

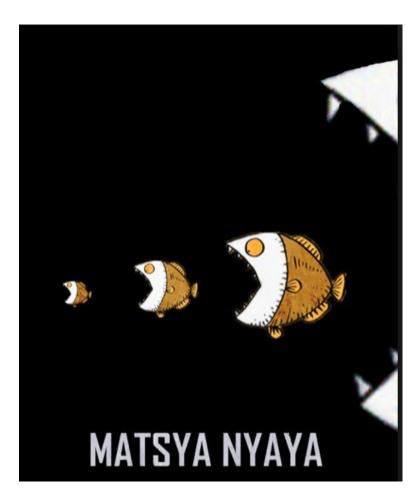
Inadequate legal jurisprudenceability to commit crime from anywhere in the world



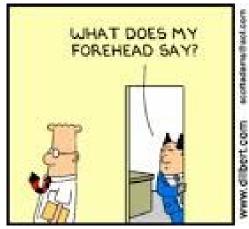
Easy availability of attack tools



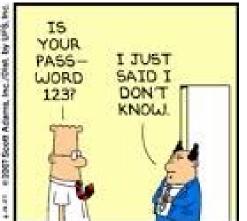
Why is Cyber awareness important?



Top 10 Tips











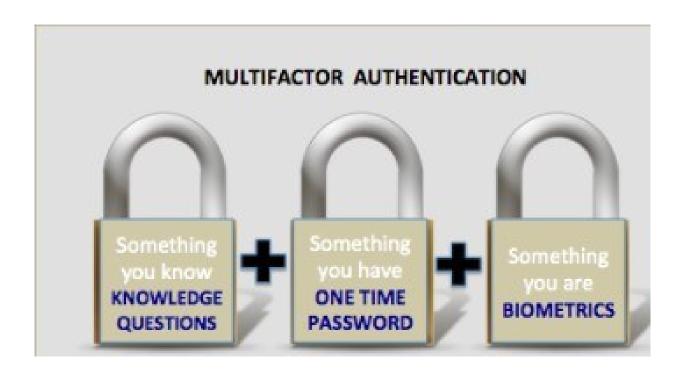


1. Strong credentials

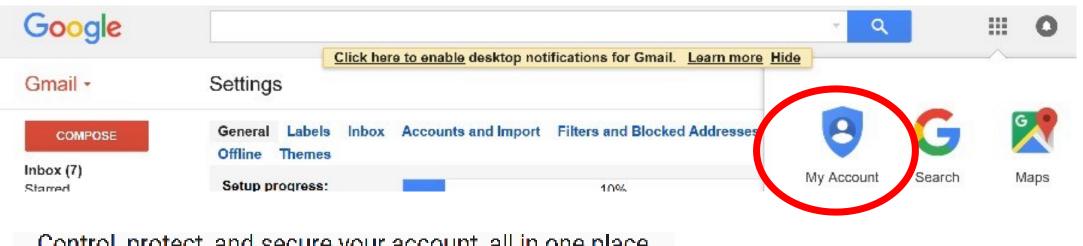
- Password hygiene
 - Have strong passwords
 - > 8 characters
 - combination of letters, numbers and special characters
 - Do not reuse passwords
 - Do not share passwords
 - Do not write passwords

Develop a method for password creation

Multi-factor authentication

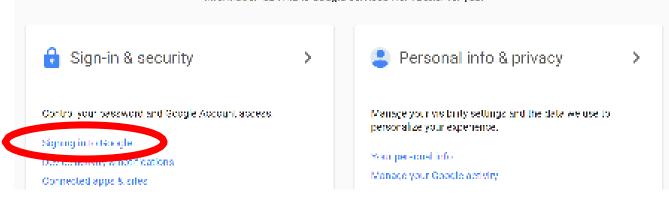


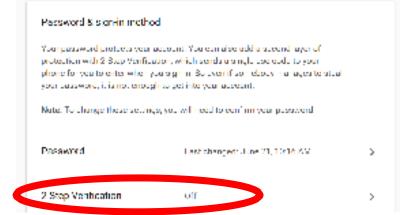
How to enable multi-factor authentication



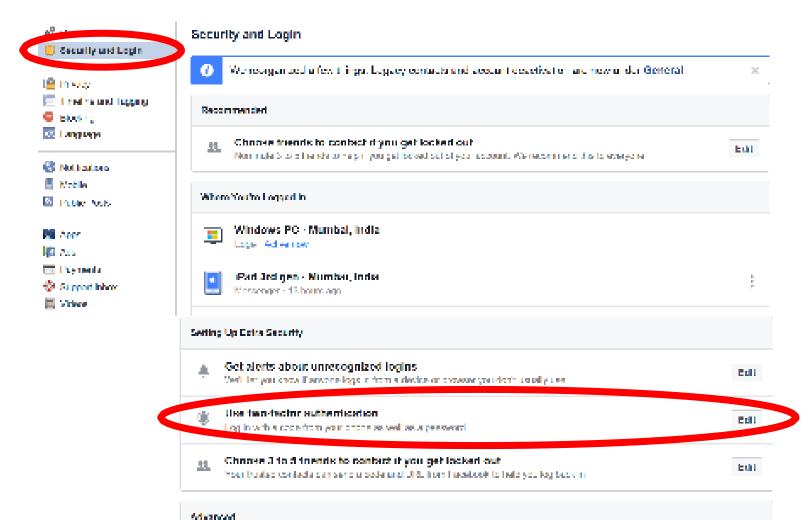
Control, protect, and secure your account, all in one place

My Account gives you guick access to settings and tools that let you safeguard your data, protect your privacy, and decide how your information can make Google services work better for you.





How to enable multi-factor authentication



2. Backups



Ransomware



To obtain protection from...

Data corruption



Device damage / loss / theft



3. Updated and Active Anti-virus

- Verify it's running
- Verify it's updating virus definitions

Verify it's scanning regularly



4. Keep all software up to date

• OS

Browsers

Browser plugins

Apps



5. Phishing

Phishing

 Phishing is the term for sending emails (considered the bait) with a link to a fake website. Once on the site, the user is tricked into giving sensitive information.

Spear phishing

 Phishing targeted at an individual, mostly someone senior in an organisation.



Phishing examples

From: PayPal Billing Department <Billing@PayPal.com>

Subject: Credit/Debit card update Date: May 4, 2006 08:16:08 PDT

To:

Reply-To: Billing@PayPal.com



Dear Paypal valued member,

Due to concerns, for the safety and integrity of the paypal account we have issued this warning message.

It has come to our attention that your account information needs to be updated due to inactive members, frauds and spoof reports. If you could please take 5-10 minutes out of your online experience and renew your records you will not run into any future problems with the online service. However, failure to update your records will result in account suspension This notification expires on 48.

Once you have updated your account records your paypal account service will not be interrupted and will continue as normal.

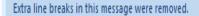
Please follow the link below and login to your account and renew your account information

https://www.paypal.com/cgi-bin/webscr?cmd= login-run

Sincerely.

http://66.160.154.156/catalog/paypal/ Paypal customer department

To receive email notifications in plain text instead of HTML, update your preferences here



United Parcel Service of America [onlineservices@lufthansa.com]

Subject: Postal Tracking #UY6LG72236FH1Y7

Message

HUPSNR 976120012.zip (37 KB)

Hello!

We were not able to deliver postal package you sent on the 14th of March in time because the recipient's address is not correct.

Sent: Mon 6/1/2009 5:00 AM

Please print out the invoice copy attached and collect the package at our office.

Your United Parcel Service of America

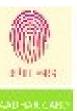
Phishing cheatsheet

- 1.Did you expect this?
- 2.Did it identify you? Or is it asking you to identify yourself?
- 3. Are there spelling / grammatical mistakes
- 4. Observe the email id both displayed as well as actual email id
- 5.Do not trust URL text; see the URL carefully by hovering over
- 6.Do not click on the URL; login to the legitimate site directly
- 7.Do not go by look and feel
- 8.Check full URL of shortened URLs
- 9.Be wary of unsolicited attachments
- 10. Is it trying to bait you with urgency?

6. Careful what apps you install...







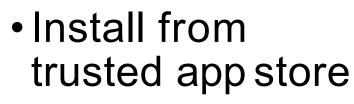










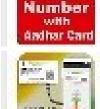












































...and what apps are already installed!

What data is it collecting?

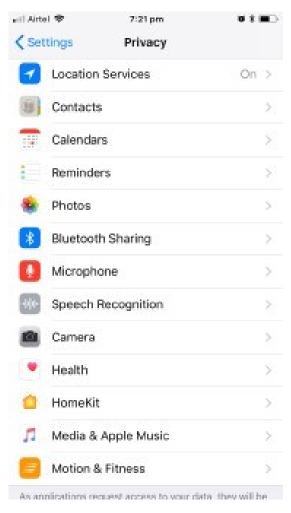
Where is the data transferred?

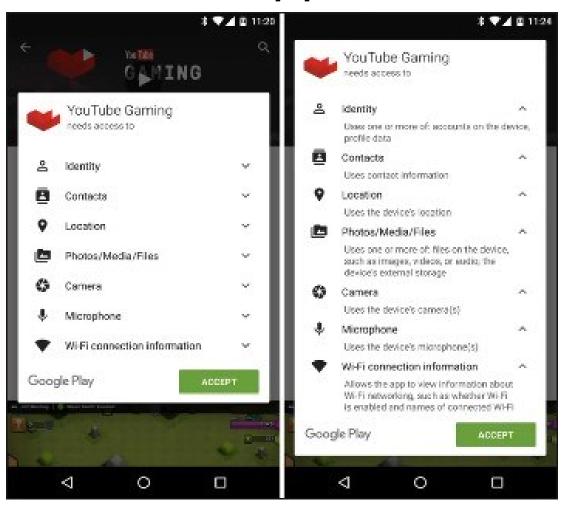
What is the data used for?

How long is the datastored?



7. Review data access of apps





8. Share minimum data on social media



Careful with PII and social data

- Date of birth
- Living address
- Names of family members
- Phone number
- Email address
- School
- Vacation plans

9. Avoid using public hotspots

 Especially if you are browsing http sites



10. Use ad blocker

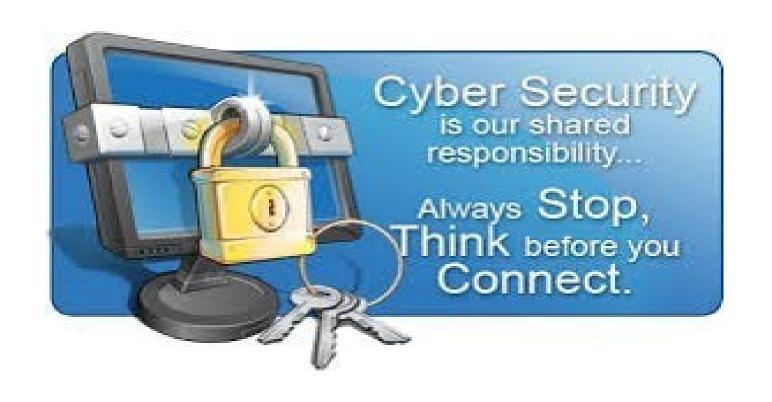


 Malwares are injected through malicious ads

 Ad servers track your browsing

Cyber awareness - Top 10 Tips

S.No.	Tip
T#1	Strong credentials
T#2	Backup data
T#3	Keep anti-virus up to date
T#4	Keep all software up to date
T#5	Beware of phishing
T#6	Fake mobile appsand factory built apps
T#7	Review data access of apps
T#8	Share minimum data on social media
T#9	Avoid using public hotspots
T#10	Use ad blocker



Thank you