



# Cyber Security: SME's & The Common Man

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# Who am I?

- Security, Privacy, Cyber Crime
- GIT > George Mason > UC Berkeley > FireEye > With you
- Extensive research on Cyber Crime, Internet threats
- Currently Informant Networks & CESR
- I love the Internet, A LOT!
- <http://hitesh.xyz>

# Agenda

- What is Cyber Crime?
- How global and local is cyber crime
- Cybercrime in our very own city
- How to be safe on the Internet
- Security and Privacy for SME

# US agency in charge of power grid and nukes keeps getting breached

by [John Zorabedian](#) on September 11, 2015 | [Leave a comment](#)

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The [government records](#) show cyberattackers successfully compromised the DOE 159 times between October 2010 and October 2014, and was attacked a total of 1131 times during that period.

USA Today reports that 53 of the successful attacks were root compromises, meaning the attackers had administrator privileges on compromised DOE computer systems.

Of the 159 successful intrusions, 90 compromised the DOE Office of Science, which conducts energy research, and another 19 attacks compromised the National Nuclear Security Administration - the agency in charge of securing the nation's stockpile of nuclear weapons.

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News. 1 hour back

Please interrupt me at  
any point in time

You ask questions based on what you want to know,  
You feel better, I feel better

Thats kind of the whole point anyways

"The best minds of my generation are thinking about how to make people click ads"

– Jeff Hammerbacher  
Chief Scientist, Cloudera

“That Sucks”

- Hitesh

“The answers to your secret questions are **probably** on your <Social Network> page”

### Social Network Options:

- Facebook
- Twitter
- Instagram
- Google Plus
- Pintrest
- ...



# India lost Rs 34,200 crore to cybercrime last year

Last updated on: September 9, 2011 13:16 IST

## ‘Consumer cybercrime cost India \$8bn in a year’

PTI | Sep 13, 2012, 04.15 AM IST

READ MORE » [Cybercrime](#) | [Consumer Cybercrime](#) | [Symantec](#)



MUMBAI: Software security services provider Norton on Wednesday said consumer cybercrime has cost the country around Rs 42,000 crore in the past 12 months, impacting 42 million people.

# Talk about growth

## Karnataka top cop loses 10,000 to phishing

TNN | Jun 9, 2015, 01.04 AM IST

READ MORE » [Karnataka](#)

### ■ 3 Railway Loco Pilots Lose Rs 45,000 to Phishing

By S Lalitha | Published: 22nd June 2015 06:01 AM Last Updated: 22nd June 2015 07:57 AM

tweet6



BENGALURU: About two months ago, State DG & IGP Om Prakash became a victim to | This high-profile case points at the fact that average persons are even more gullible to su through the Internet.

BENGALURU: It's an embarrassment Ka police could well do without. The city's se cop and head of the state police force lost 10,000 to a phishing scamster. The fraud happened in April and the culprit was cau was produced in court on Saturday.

It's ironical considering that Bengaluru p have been repeatedly warning citizens wi not to fall prey to phishing scamsters and away their bank account information to u callers.



# Cyber security: 1 million cyber security professionals needed by 2020

ET Bureau Aug 25, 2015, 06.27AM IST

**Tags:** [Tata Power](#) | [Symantec](#) | [State Bank Of India](#) | [Nasscom](#) | [CEO](#)

Clearly, The problem is not solved

\*need to give them my phone number\*

“I tell people that if it’s in the news, don’t worry  
about it”

- Bruce Schneier

# But we are in Belgaum

From least to most saddening

- The APMC Police station gets ~50 complaints relating to cyber theft (1/8th)
- 3 to 4 Industries in Belgaum have experienced Ransomware and had to pay 50-60K to get data back
- 2 companies lost an amount in crores because employees stole design documents via pen drives
- Some students from Computer Science in GIT have fallen victim to Phishing scams for jobs
- Sadly, I have only been looking for 4 months

# Why do we have malware

- Ever wondered
  - Why you got spam for Pharma products?
  - Why is there more free Microsoft software than paid
  - More versions of pirated content than real content
- Because its profitable!
- Spam generates \$9500 per day for its creators
- Information is value

# Identities = Money

- A name, address, phone number costs \$3 on the internet
- 10 Million Yahoo accounts cost \$25
- A credit card costs \$10 (Depends on country)
- Voter ID, Drivers License, Social Security Number, Social Accounts and Your computer. **All have a price**
- Also, There are no free iPads/iPhones/iPods, just like there are no free lunches



# Government of Karnataka Transport Department



[Home to vehicle search](#)

**HELP:-** The vehicle details can be searched by giving Registration No/Chassis No/Engine No. To search Vehicle details using Registration number enter the registration number in this format.


Example:KA01A in the first box and 4 digit vehicle number(9999,0002) in the second box.

### Search Vehicle

Registration No       Chassis No       Engine No

Enter the Vehicle No:

Enter the text as shown:



And then this happens



# The solution

- For the common man, Awareness is everything
- Don't click on links sent by unknown individuals
- Also, There are no free iPads **\*can't emphasize enough\***
- Run an Anti-virus and Update it every single day
- Run genuine up-to-date software and install all updates
- Don't download and use apps/software from non-trusted sources
- If possible. Separate system for monetary work. Bank/Taxes Etc

# What about SME?

- Not too big, Not too small, Just Perfect
- Monitor Everything. Even browsing to a page
- Firewalls block only what is known to be bad
- Anti virus needs updates, Updates only once per day. Too slow
- The Target/Sony/Home Depot hack

# Knowing is \*everything\*

- Enable robust monitoring
- Keep a record of everything. Like CCTV tapes for the computer network
- Conduct Cyber Security awareness programs for staff and higher management
- Security measures are like insurance, You pay the premium with a hope that you never need it

# Suggested Reading

Selfish promotion:  
Includes some of our research

Contact:

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Email: [hello@hitesh.xyz](mailto:hello@hitesh.xyz)

or Google

## Questions?

