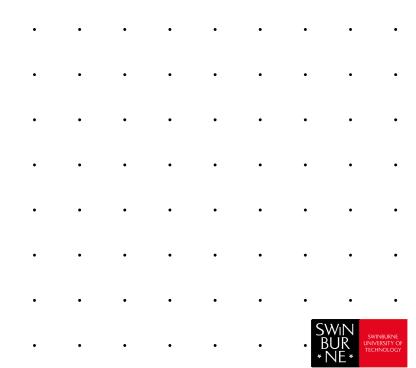# Illegal Activities

Fraud

Fraud

Investment fraud

The criminal buys worthless stock, artificially inflates the value (by seeding rumours of some new development), sells it at a profit

The Nigerian scam

A [deceased] government official e-mails you and asks for your assistance in transferring money out of his country, for which you will receive a commission. You send money to pay for taxes and expenses

Auction fraud

You buy an item from an auction site, send the money and the item never arrives

Romance Scams

Fraud prevention

Only use legitimate investment brokers

Don't respond to un-solicited e-mail

Use well-known auction sites only

Read the seller's feedback

- The feedback for sales, not purchases

Money Laundering

Hi Mate jhamlynharris@swin.edu.au**,**

Are you a college student with odd class schedules impairing regular work time? Are you jobless sitting at home and connected to the Internet?
We are looking for honest and communicative people to sort, store, and make readily available our delivered correspondence from your own home.

There is no necessity to visit any office for this job. You can do your job sitting at home. You need only to check your email twice a day to be informed about job processing. This will take a few minutes of your day. This is not a sales gimmick requiring you to pay set-up fees or sign up to a mailing list. This is a business requiring only limited amounts of your time You will earn money even without going out of you house or office. The job is regular the wages are solid. Spaces are limited so act now for this great intuitive job offer.
Job short description:
This job consists of 3 steps.

1.You receive packages from shops (stores). Before receiving the packages you are informed about it by e-mail or phone. The packages are delivered by courier such as UPS, FeDex, DHL, Startrack, Courierplease and TNT.

2.When you receive all orders (package by package), you collect them in one whole box. Then receive money to post it or it may be picked up by courier service. You don't have to pay anything.

3.After the package is sent, you receive an e-mail during 48 hours where is a Money Transfer Control Number of Western Union. Now you suppose to visit the nearest bank and get your salary. For every sent package your salary is $100. So if you are hard working you can earn more in a week.

Already ready to deal with us? Drop your full name, your age and current address to:

Email: Joshy@deliveryman.com

Josh Carrington
Mobile: 0457355509
Tel: 0280074797

Ethics

Ethics

Ethical dilemmas for network admins:

Is it OK to read your users' mail?

Use remote desktop?
let your users print their kids' assignments?

let your users take paper home?

let your users send private e-mails?

let your boss use company resources for his private consulting business?

let your boss download mp3s?

Ethics

Ethical dilemmas for network admins:

Legal / **Illegal**

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Ethics

Who maintains the web sites / databases of shady web sites?

- gambling
- adware
- cracker sites
- Moderating sites (game consoles)
- pornography
- paedophile forums

What will you do if offered a job maintaining such as site?

Ethics

- **What are your responsibilities to your profession?**
- **Public Interest takes precedence over the other values**
- **Not knowingly mislead a client**
- **Give credit for work done by others where credit is due**
- **Give realistic estimates for projects**

ACM Code of Ethics

https://www.acs.org.au/search.html?q=Code+of+ethics

Ethical Dilemmas?

Sys admin for Black Market Reloaded?

Protect and promote the health and safety of those affected by your work

Identity theft

Identity theft

The criminal collects enough information about the victim to
– conduct on-line transaction in the target's name.
– convince banks / governments to issue credit cards, driver's licences, and potentially passports.
– In Australia, you need 100 points of documentation to prove your identity

http://www.eaussie.com.au/images/pdf/Aussie100PointForm.pdf

Looks like a shopping list for a dumpster dive.
Information may be collected by
– using Google.
– using government and genealogy web sites.
– dumpster diving at your work / home.
– asking your co-workers casual questions about you.
– packet sniffing.

Identity theft protection

- **Reveal as little as possible to web sites**
- **Construct an alternate identity (separate e-mail address, modified version of your name)**
- **Shred all documents before disposal**
- **Do data mining on-line to see what attackers can see about you (ego-surfing, checking VicRoads, government and CityLink web sites)**
- **Lock down your browser (disable scripting, password storage, cookies)**

Paranoid?

- **Boot from a read-only Linux distro**
- **Use a diskless workstation**
- **Disable JavaScript**
- **Sandbox all applications**
- **Tunnel all network traffic through TOR / VPN / Tor hidden services / ProXPN**

Really Paranoid?

Use a burn PC

– Tails OS

– Use once, throw away

– Use somebody else's PC

  • preferably in China

Stalking

Stalking

- Threatening e-mails.
- Pornographic e-mails.
- Spoofed* (and defamatory) Facebook pages
- Spoofed e-mails.

- Create a false identity with nothing in it to connect it to you.
- Keep all threatening e-mails, etc.
- Report to WHO@ http://www.haltabuse.org

Spam and "Helpers"

- **Companies who use spam ("push advertising") and browser hijackers (targeted marketing tools) insist that they operate legally (and ethically)**

- **These companies operate in the grey area of the law, often through a chain of other parties**

- **Google participates in some of these chains**
  - http://www.google.com.au/intl/en/ads/
  - Is this a scam? http://getgoogleadsfree.com/

- **How about this? http://www.perrymarshall.com/google/**

Filtering

Porn Filtering techniques

Parental Control Tags:
– Must be implemented by the web site. Not all are ethical

Clean feed:
– Filtering of Australian internet proposed (2008) and then abandoned by previous government

https://www.efa.org.au/2011/01/12/europe-gets-it-filters-dont-protect-children/
https://www.efa.org.au/2012/11/09/internet-filtering-backdown/

Image filtering:
– Still in it's infancy
– Proposed in 2008

http://www.somebodythinkofthechildren.com/sunday-wrap-up-image-filter-mistakes-conroy-for-porn/
– One classifies George W Bush as offensive material

http://www.dansdata.com/pornsweeper.htm

Porn Filtering techniques

Pornography filtering uses blacklists, keywords and parental control tags

Blacklists:

- Filter by IP address, domain name
- Reactive security measure which will not filter new web sites
- Whitelists are better.

Keywords:

- Cause false positives and false negatives

http://www.news.com.au/porn-filter-fails-say-web-experts/story-e6frfkp9-1111115235591
http://www.techdirt.com/articles/20090803/0323345754.shtml

- "intelligent keyword" filtering uses a keyword score?

Porn Filtering Tools

- **If running as administrator, can be uninstalled/disabled by anyone.**

- **Ordinary users may be able to kill the process with Task Manager**

– Some use Root-kit technology to prevent user from killing process

http://www.netdogsoft.com/

"No Process will be found when running, NetDog Porn Filter works quietly in the background when surfing on the internet ! "

Porn Filtering Tools

Most kids are more computer literate than their parents. This one disabled NetAlert in 30 mins

– To prevent tampering on the PC, install the filter at the ISP

http://www.zeropaid.com/news/9749/australian_government_to_finance_faulty_internet_filtering_technology/

Filters don't work:

http://sfgate.com/cgi-bin/article.cgi?f=/c/a/2002/11/13/BU158763.DTL

Blocking

Access Blocked

Access to this site has been blocked by an order of the Federal Court of Australia because it infringes or facilitates the infringement of Copyright.

If you think you have been redirected to this page incorrectly, please contact your service provider.

Piracy site blocking – 57 more

- **Started in 2014**

- **Not successful**

- **Resumed/renewed push August 2017**
  - http://www.abc.net.au/news/2017-08-18/pirate-sites-to-be-blocked/8820076
  - https://torrentfreak.com/court-orders-aussie-isps-to-block-dozens-of-pirate-sites-170818/

Technology: fake certificates + HTTPS

"We Got Past The Government's Anti-Piracy Blocks In Five Seconds"

https://www.kotaku.com.au/2017/02/we-got-past-the-governments-anti-piracy-blocks-in-five-seconds/

ISPs were left to choose their own methods of site blocking

– URL block or a DNS-based redirection

VPN

Tor Browser

Rules

Stuff you can't do (legally)

- **Perform a DOS on a spammer**
- **Release a virus that disables bots or zombies**
- **Release a worm that patches software or removes security vulnerabilities**
- **Contact the owner of a zombie and tell them they're 'owned'**
- **Pen-Test your own network**
  - But you can if it's off the internet

Stuff you can do

- **Block packets from a zombie's IP address**
- **Offer to disinfect your auntie's computer**
- **Contact the ISP of a suspected spammer**
- **Report new worms and Trojans**
- **Report new scams and hijackers**
- **Use white-lists**
- **Become a system administrator and create non-root accounts for normal use (even your own)**