Radical Technology Collective

Asymmetric Warfare Against the Surveillance State

Asymmetric Warfare

- Our idea of Asymmetric Warfare: Expend less cost for more damage

The Surveillance State - Past

- Middlebourough Talking CCTV Pilot Program, 2007

The Surveillance State - Future

- Police forces all over the UK will manned aircraft from a national fleet, according to Home Office plans. Last month it was revealed that modified military aircraft drones will carry out surveillance on everyone from protesters and antisocial motorists to fly-tippers, and will be in place in time for the 2012 Olympics.

- http://www.wired.co.uk/news/archive/2010-02/

On Software Freedom

- Free Software is a matter of liberty, not price.
- Free Software provides the user certain essential freedoms:
  - Freedom to use
  - Freedom to study/modify
  - Freedom to share
- Free Software is both more secure, and more compatible with anarchist ideals.

Talk Outline

- Data at Rest

- Data in Motion

- Conclusion: Standing Orders for Asymmetric Warfighters

Securing Data at Rest

Password Security

- Passwords are human
- Good Passwords:
  - Are phrases
  - Have a wide *character set*
- Tips for remembering Passphrases
  - Quotes
  - Replace letters with upper-case letters, numbers, or punctuation
  - Password lists – secured by a "master password"

Secure Deletion

- Even after deleting a file, it still exists on your hard disk and can be recovered.

Implementing Secure Deletion

- Windows:
  - Sdelete (from Microsoft Sysinternals)
  - Eraser Portable (from PortableApples
- Apple:
  - Finder > Secure Empty Trash
- GNU/Linux
  - THC's **srm**
  - GNU **shred**
  - **wipe**

Backups

- Should be off-site (not on the same hard drive) and encrypted

- You should back up anything you would want after getting raided/struck by lighting

Implementing Backups

- Microsoft Windows:
  - Built-in backup tool into encrypted store
  - Amanda
- Apple OS X:
  - Built-in backup tool into encrypted store
  - Amanda
- GNU/Linux:
  - **duplicity** and Deja-Dup

Distributed Data Stores

- Like backing up to the Internet!

- If there's something that CAN'T be deleted, the best way to back it up is to share it with everyone.

- If it's private, you can encrypt it and distribute the key later.

Implementing Distributed Data Stores

- BitTorrent (deluge-torrent.org)

- Freenet (freenetproject.org)

- Just sharing files ("sneakernet")

Encryption

- File encryption
- Directory encryption
- Full/Whole Disk Encryption

File Encryption

- Microsoft Windows:
  - Toucan (portableapps.com/apps)
- Apple OS X:
  - ???
- GNU/Linux
  - GNU Privacy Guard
- All Platforms:
  - Truecrypt (truecrypt.org)
  - 7zip

Directory Encryption

- Microsoft Windows:
  - Filesystem Encryption (right-click directory>properties and check "encrypt")
- Apple OS X:
  - Apple FileVault
- GNU/Linux
  - encfs
  - Ecryptfs (built into Ubuntu)
- Truecrypt

Whole Disk Encryption

- GNU/Linux
  - Installer option in Ubuntu (select "encrypted LVM")
- Apple OS X:
  - ???
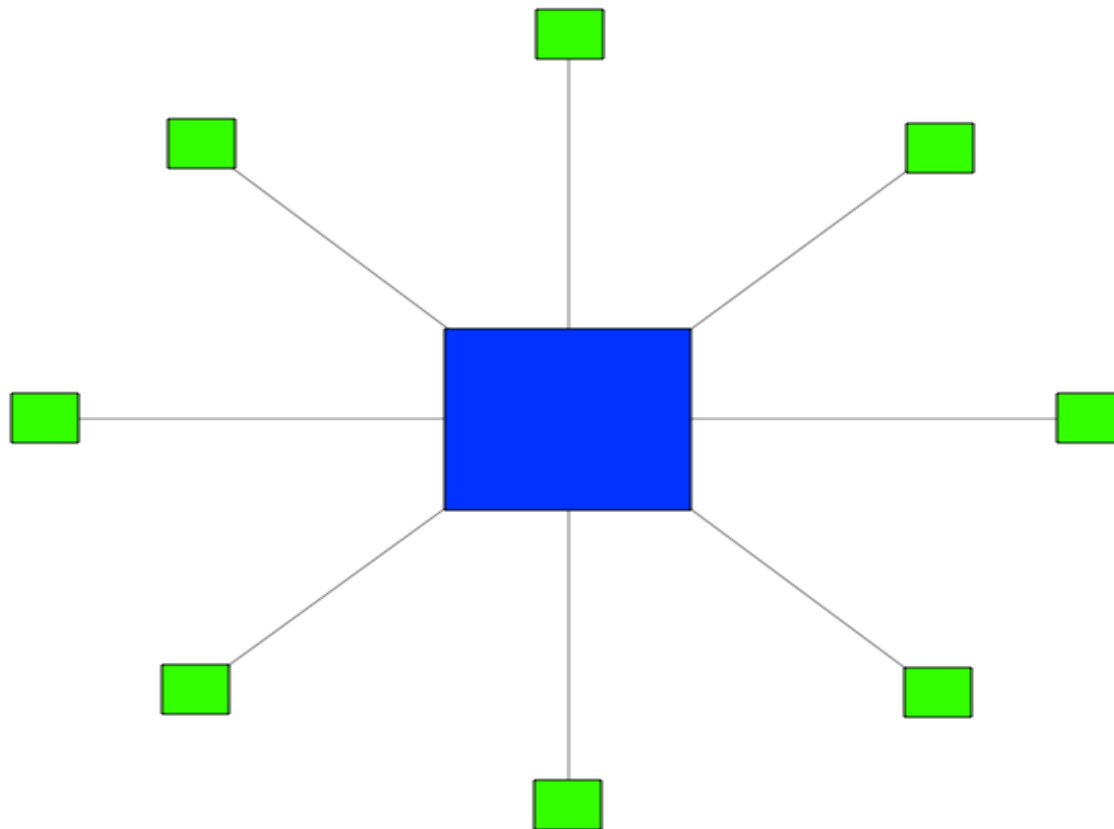- Microsoft Windows
  - Truecrypt
  - BitLocker (non-free)

Securing Data in Motion

Data in Motion

- Communications
  - Email
  - Instant Messaging
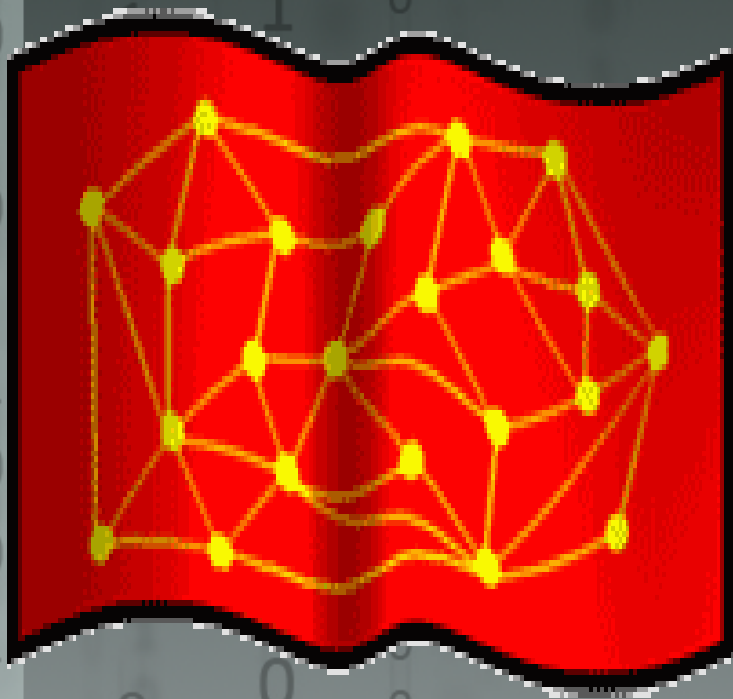- Transmitted Data
  - Web browsing

Service Providers

Friendly Service Providers

- Riseup Collective (riseup.net)
- Activix (activix.org)
- Various "hacker-friendly"/"warez-friendly" offshore hosts
- You!

You are the friendliest service provider of all

- We must work towards an Internet where communications is not mediated by "service providers", but is direct

- This makes us <u>autonomous</u>

- autonomo.us

Data in Motion

- What you're talking ABOUT
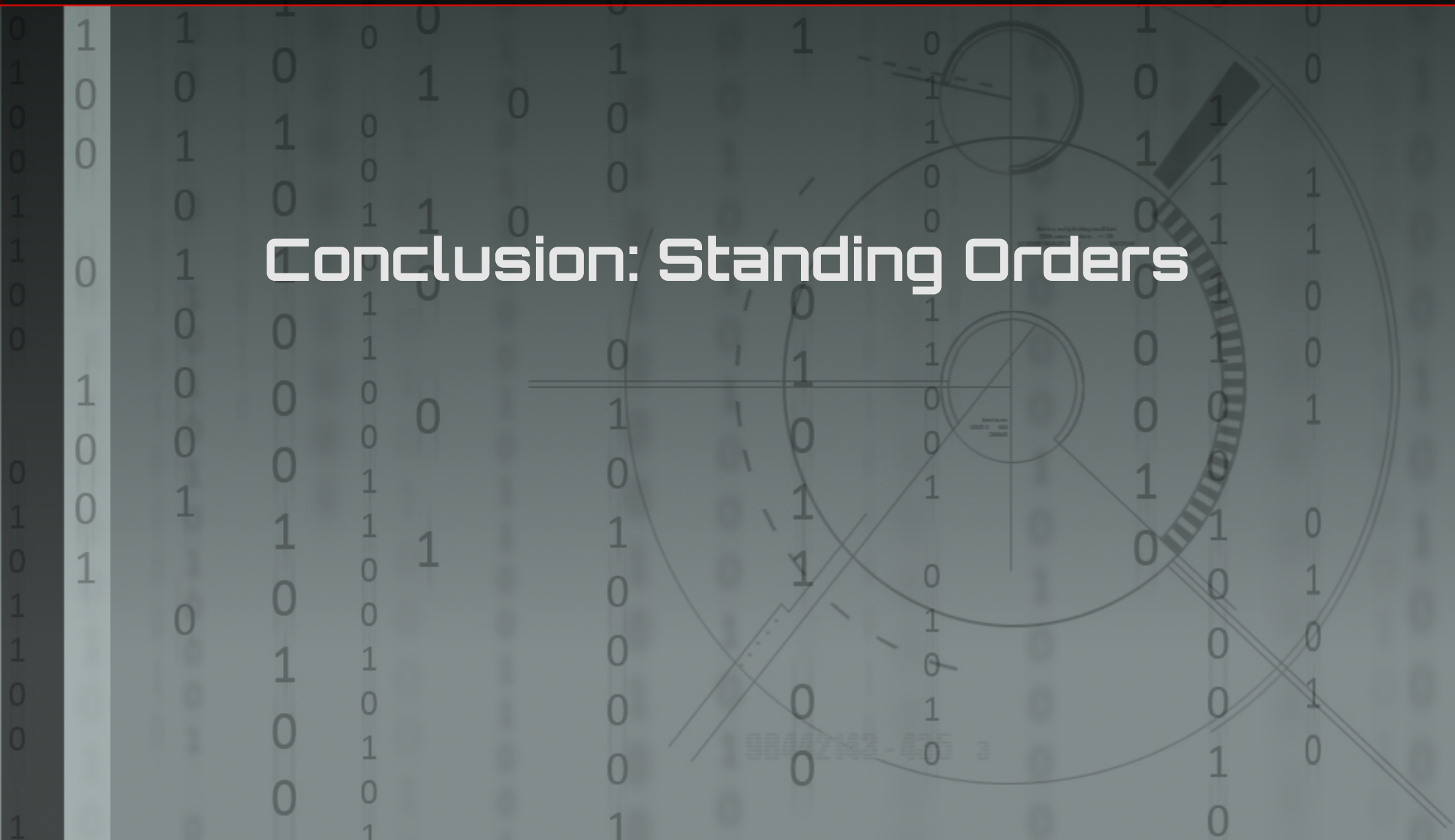- Who you're talking TO

What you're talking about

- Encryption Systems

- Web – HTTPS

  - "httpseverywhere" addon from EFF for Firefox

- IM – OTR

  - Adium for OS X

  - Pidgin and Pidgin-OTR for GNU/Linux and Windows

- Email – OpenPGP

  - Thunderbird + Enigmail + GNU Privacy Guard

Who you're talking to

- General Purpose
  - Tor – Anonymizing network overlay
- Email
  - Mixminion/Mixmaster
    - perfectprivacy.de
-

On Handles

- Detective work is what the cops are best at

- Use handles not connected with you at all

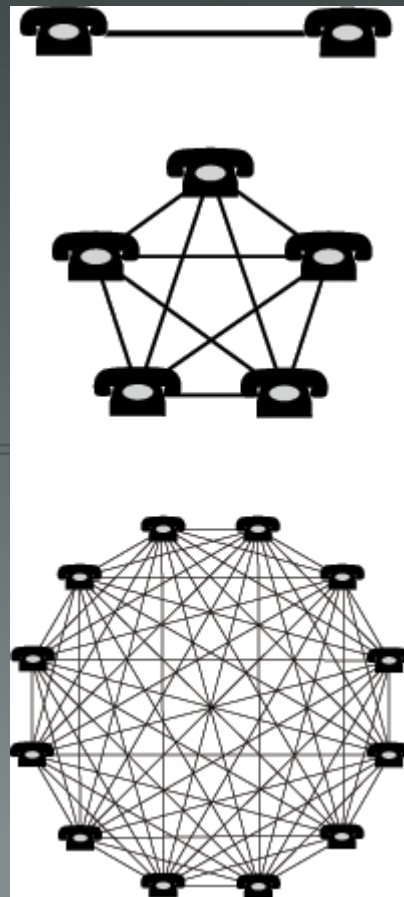- Randomly generated names are better

Conclusion: Standing Orders

Standing Order #1:
Default Deny

Standing Order #2:
Some is better than none

Standing Order #3: the Network Effect

Get In Touch

- rtc@riseup.net
- https://we.riseup.net/radtechcol
- http://groups.fsf.org/wiki/Group:RTC
- **apt-get install anarchism**