

Digital Security

Digital Security

Data harvest
2021

- **Why do we need to encrypt?**

What can we learn from Dudajev, Natanz and Snowden? -

- **THE TOOLS:**

- **SIGNAL** - 10 minutes (Fredrik)

- Quick and Dirty Encryption

- **Tor** - 5 Minutes (Serena)

- Hide yourself!

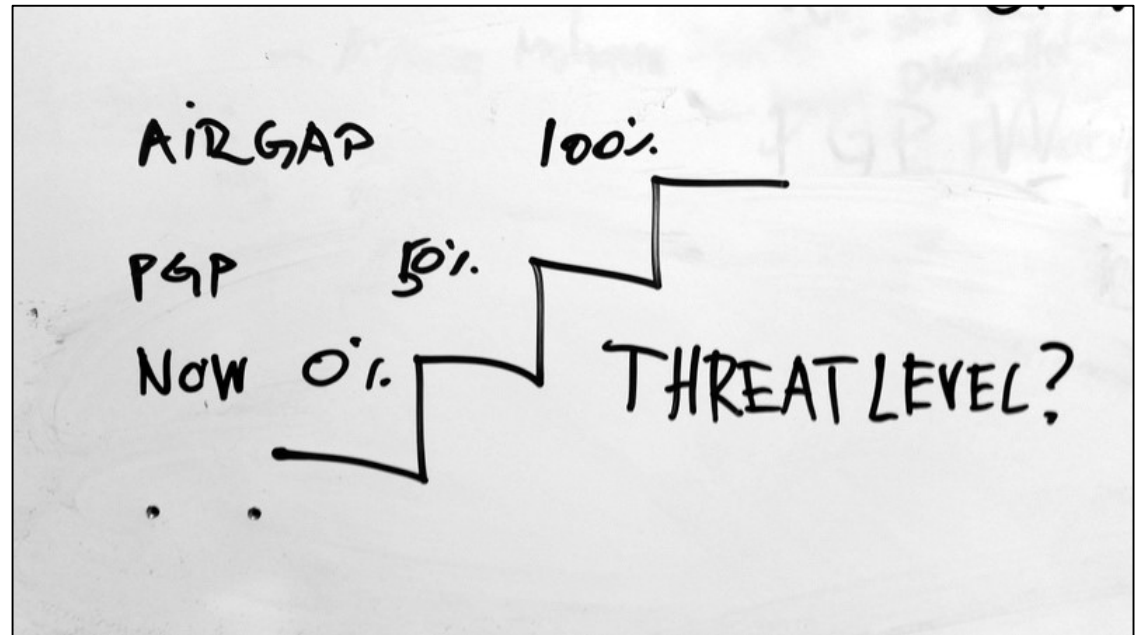
- **DOs and DONT's**

(Serena) 10 minutes

- **PGP - MAILVELOPE**

**The ever important email
encryption**

Think...
Threat
level



Think...

Dzhokhar Dudajev

Chechen president

BBC NEWS

News in Audio News in Video Newyddion Новости Noticias

Wednesday, April 21, 1999 Published at 18:44 GMT 19:44 UK

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World: Europe

'Dual attack' killed president



President Dudayev was killed in 1996

By Russia Affairs Reporter Tom de Waal

Interest in the assassination of a popular Chechen



Figure B Targeting of Croatian Drones

Think...

- **Using Telegram in Syria...**

**with proprietary encryption...
...provided by two peace-loving
Russian brothers.**

Think...

Natanz, and Stuxnet





Think...

Threat
level

*** YOUR threat level?**

*** SOURCES' s threat
level?**

- Police investigation?

- Corporate investigation?

- Libel action?

“discovery”

Worse... car bomb...

Tools

Signal

TOR

PGP for webmail

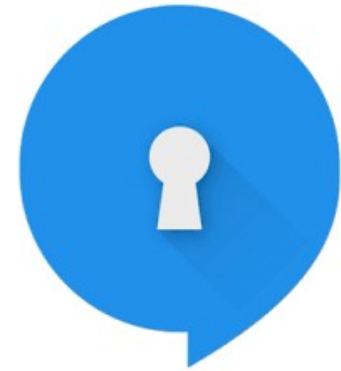
Email and
online traffic
– a sea change
in surveillance

Love all,
Trust a few
But paddle your
own canoe...

- **Threats are real**
- **Encrypt**
- **Good passwords**
- **Get on top of your technology**

SIGNAL Whisper systems

FREDRIK LAURIN
Swedish Television



- **Simple**
 - encrypted SMS
 - Internet based
(not mobile network)
= Cheap!
- **Any smartphone**
 - iOS or Android

Search for people or groups



Eliza Bot

Nov 30

How do you feel about...

1



Friedrich Nietzsche

Nov 30

And we should call every truth f...



Book Club

Nov 30

See you there.



Masha Kolenkina

Nov 30

I can't wait to try it!



Vera Zasulich

Nov 30

My piece for Iskra is ready!



Nestor Mahkno

Nov 30

Need a ride?



Friedrich Nietzsche



a minute ago

And we should call every truth false which was not accompanied by at least one laugh.

a minute ago



Send a message

SIGNAL Whisper systems

FREDRIK LAURIN
Swedish Television

- **Open Source**
 - It's audited
- **AES encryption**
 - same as PGP



SIGNAL Whisper systems

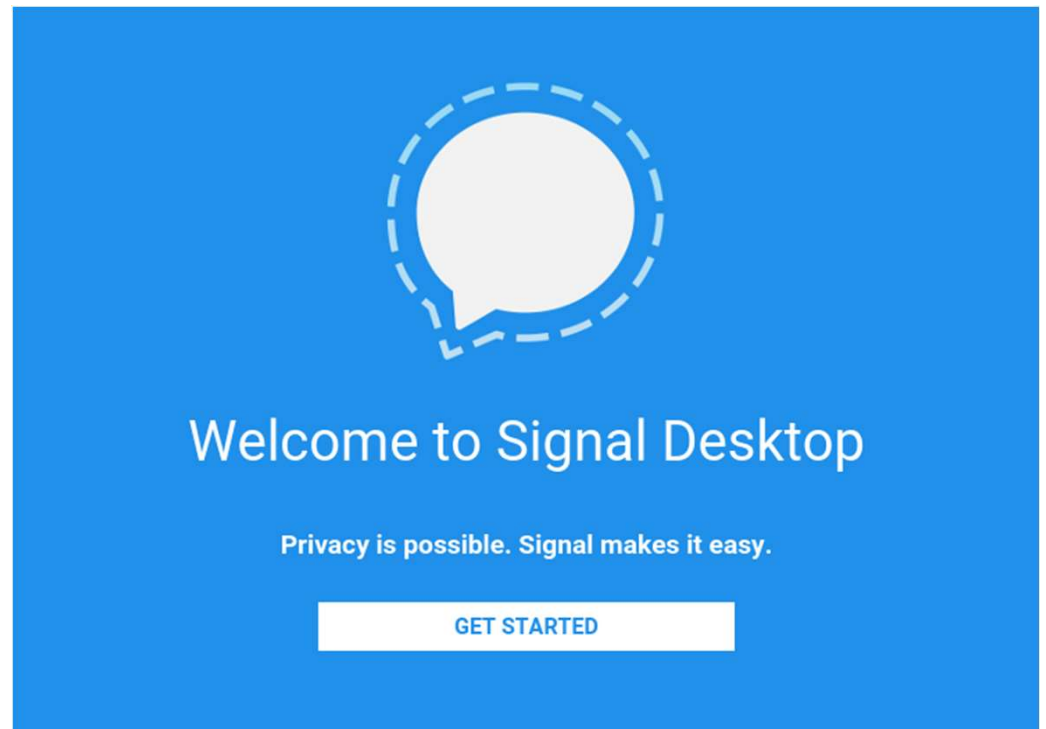
FREDRIK LAURIN
Swedish Television

- **Uses your standard phonebook**
 - Automatically syncs with other Signal users
 - Whisper Say they don't save address book...

SIGNAL Whisper systems

FREDRIK LAURIN
Swedish Television

- **Desktop version**
 - syncs with phone
 - Efficient



Tor
- the onion
router

SERENA TINARI
Re-Check.ch

- **Hide your tracks**





FREEDOM ONLINE

Tor: Powering Digital Resistance
Give today and Mozilla will match your gift!

Donate Now! ▶



[Download](#) [Volunteer](#) [Donate](#)

Anonymity Online

Protect your privacy. Defend yourself against network surveillance and traffic analysis.



Download Tor ↓

- ▶ Tor prevents people from learning your location or browsing habits.
- ▶ Tor is for web browsers, instant messaging clients, and more.
- ▶ Tor is free and open source for Windows, Mac, Linux/Unix, and Android

What is Tor?

Tor is free software and an open network that helps you defend against traffic analysis, a form of network surveillance that threatens personal freedom and privacy, confidential business activities and relationships, and state security.

[Learn more about Tor »](#)

Why Anonymity Matters

Tor protects you by bouncing your communications around a distributed network of relays run by volunteers all around the world: it prevents somebody watching your Internet connection from learning what sites you visit, and it prevents the sites you visit from learning your physical location.

[Get involved with Tor »](#)


[We're hiring! »](#)

Recent Blog Posts

- [Tor 0.3.2.4-alpha is released, w...](#)
Wed, 08 Nov 2017 Posted by: *nickm*
- [Meet Nyx, a Command-Line Tor Rel...](#)
Wed, 08 Nov 2017 Posted by: *t0mmy*
- [Tor Browser 7.5a7 is released](#)
Sat, 04 Nov 2017 Posted by: *boklm*
- [Tor Browser 7.0.9 is released](#)
Fri, 03 Nov 2017 Posted by: *gk*
- [Tor's Fall Harvest: the Next Gen...](#)
Thu, 02 Nov 2017 Posted by: *asn*

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Who Uses Tor?



Family & Friends

People like you and your family use Tor to protect themselves, their children, and their dignity while using the

How Tor Works



Alice



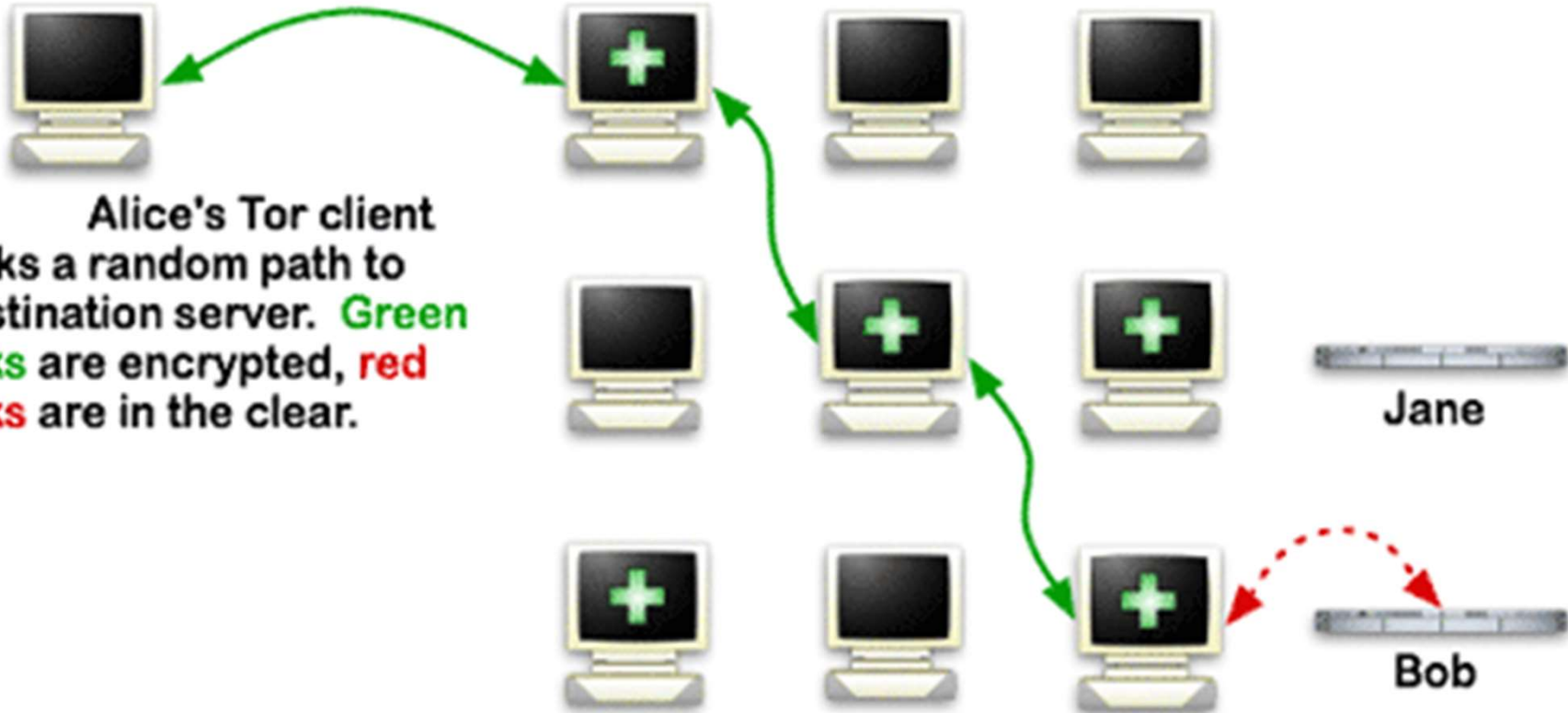
Alice's Tor client picks a random path to destination server. **Green links** are encrypted, **red links** are in the clear.



Jane



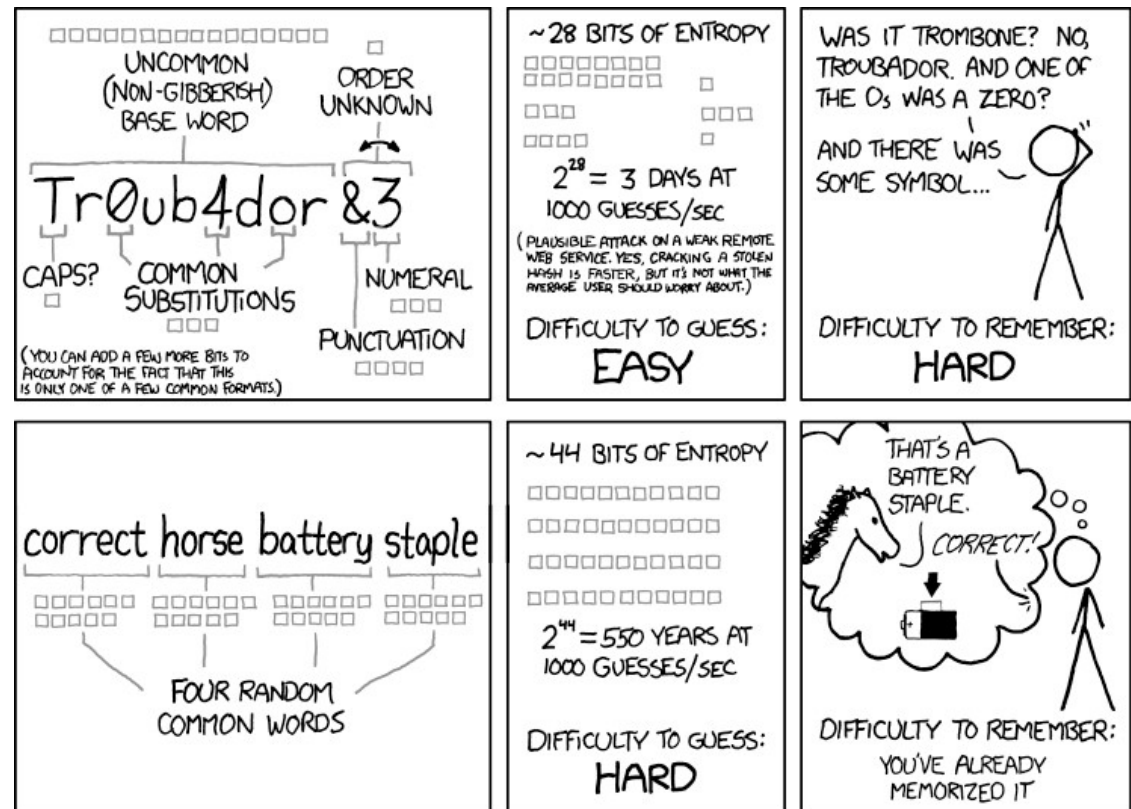
Bob



PASSWORD

- the daily headache

SERENA TINARI
Re-Check.ch



THROUGH 20 YEARS OF EFFORT, WE'VE SUCCESSFULLY TRAINED EVERYONE TO USE PASSWORDS THAT ARE HARD FOR HUMANS TO REMEMBER, BUT EASY FOR COMPUTERS TO GUESS.

Contact me!

Fredrik Laurin

fl@trojkan.se

+46708326202

Browser window showing the KeePassX homepage. The address bar displays <https://www.keeppassx.org>. The page title is "KeePassX" with the subtitle "Cross Platform Password Manager".

Navigation menu: Latest version: 2.0.3 | Forum | Links | Testimonials


Left sidebar menu:

- Main Page
- News
- Features
- Requirements
- Screenshots
- Changelog
- Downloads
- Bug Reporting
- FAQ
- Contact

The Official KeePassX Homepage

Just in case you do not know what KeePassX is, here is a short description...

KeePassX is an application for people with extremely high demands on secure personal data management. It has a light interface, is cross platform and published under the terms of the [GNU General Public License](#).



KeePassX saves many different information e.g. user names, passwords, urls, attachments and comments in one single database. For a better management user-defined titles and icons can be specified for each single entry. Furthermore the entries are sorted in groups, which are customizable as well. The integrated search function allows to search in a single group or the complete database.

KeePassX offers a little utility for secure password generation. The password generator is very customizable, fast and easy to use. Especially someone who generates passwords frequently will appreciate this feature.

The complete database is always encrypted either with AES (alias Rijndael) or Twofish encryption algorithm using a 256 bit key. Therefore the saved information can be considered as quite safe. KeePassX uses a database format that is compatible with KeePass Password Safe. This makes the use of that application even more favourable.

Originally KeePassX was called KeePass/L for Linux since it was a port of Windows password manager [Keepass Password Safe](#). After KeePass/L became a cross platform application the name was not appropriate anymore and therefore, on 22 March 2006 it has been changed.

Latest News

- [KeePassX 2.0.3 released](#)
- [KeePassX 2.0.2 released](#)
- [KeePassX 2.0.1 released](#)
- [KeePassX 0.4.4 Security Update released](#)
- [KeePassX 2.0 has arrived](#)

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do not
click

- why?

Because

nowadays it can turn out
nasty.... the most if your
government doesn't really
like journalists and human
rights defenders.