Welcome to

IT-sikkerhed 2013

PROSA Superhelteseminar

Henrik Lund Kramshøj, internet samurai
hlk@solido.net

`http://www.solidonetworks.com`

Planen idag

Don’t Panic!

Kl 17:00-19:00

Mindre enetale, mere foredrag 2.0 med sociale medier, informationsdeling og interaktion

Send gerne spørgsmål senere

PS er her nogle timer efter foredraget til spørgsmål og snak

Formål: IT-sikkerhed passwords og dine services

Vores passwords er overalt

Vi er afhængige af cloud services

Vi er afhængige af netværk

Vi er afhængige af andres computere - servere og services

Formål: sund paranoia

The 5th Wave By Rich Tennant

© 2006 Rich Tennant/Dist. by Universal Press Syndicate 12/3

"Don't be silly — of course my passwords are safe. I keep them written on my window, but then I pull the shade if anyone walks in the room."

Opbevaring af passwords

Superheltegerninger

.

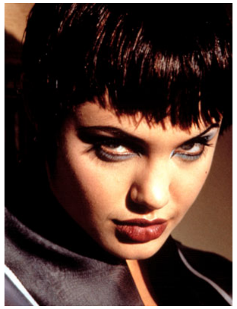
Backup - jævnligt

Kryptografi og kryptoværktøjer Sikre protokoller

Tal frit - Lær og lær fra dig

Følg med i nyheder, støt det frie internet

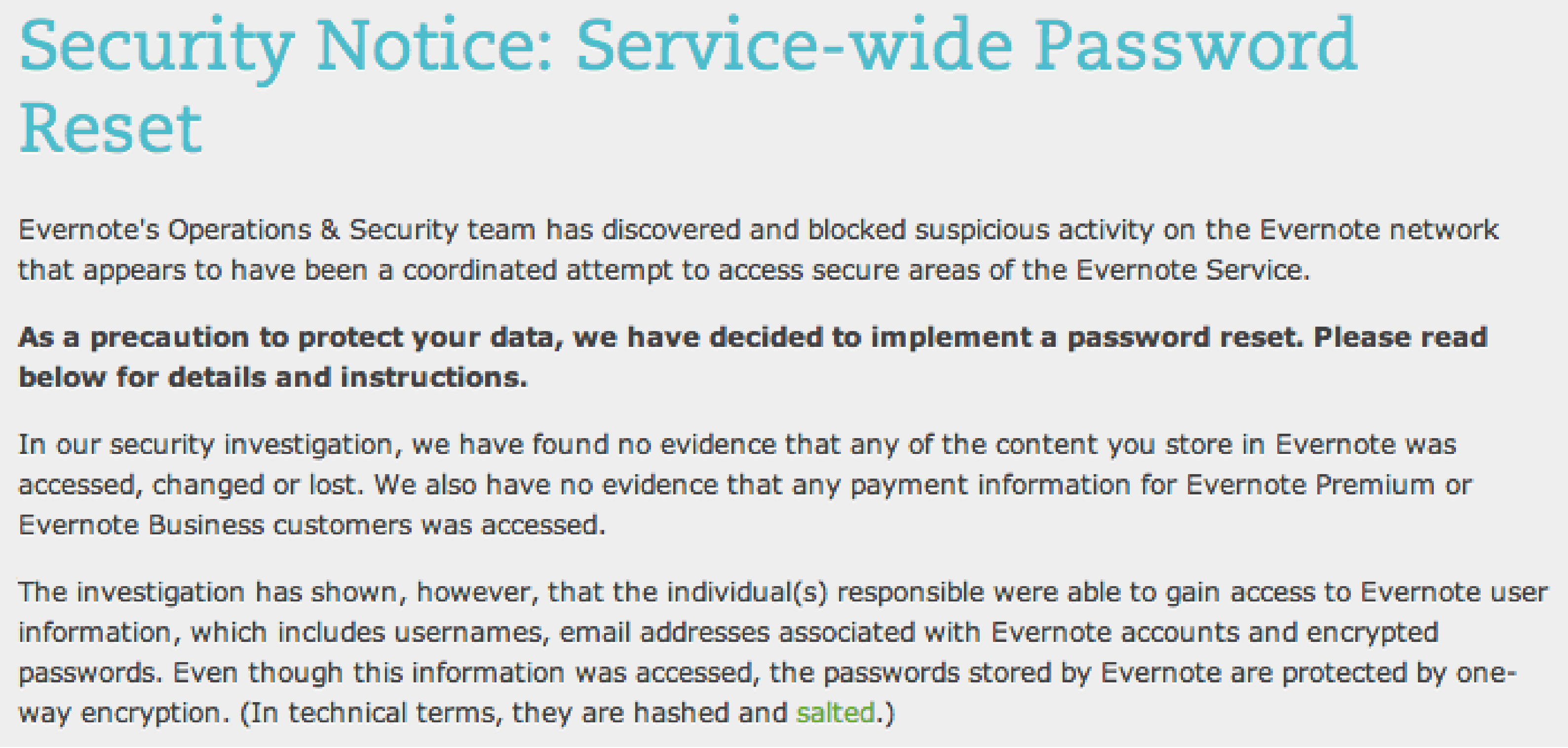
Hackerværktøjer



- Nmap, Nping - tester porte, godt til firewall admins `http://nmap.org`
- Metasploit Framework gratis på `http://www.metasploit.com/`
- Wireshark avanceret netværkssniffer - `http://http://www.wireshark.org/`
- Burpsuite `http://portswigger.net/burp/`
- Skipfish `http://code.google.com/p/skipfish/`
- Kali Linux operativsystem med fokus på sikkerhedstest `http://www.kali.org`

Billede: Angelina Jolie fra Hackers 1995

Evernote password reset



Security Notice: Service-wide Password Reset

Evernote's Operations & Security team has discovered and blocked suspicious activity on the Evernote network that appears to have been a coordinated attempt to access secure areas of the Evernote Service.

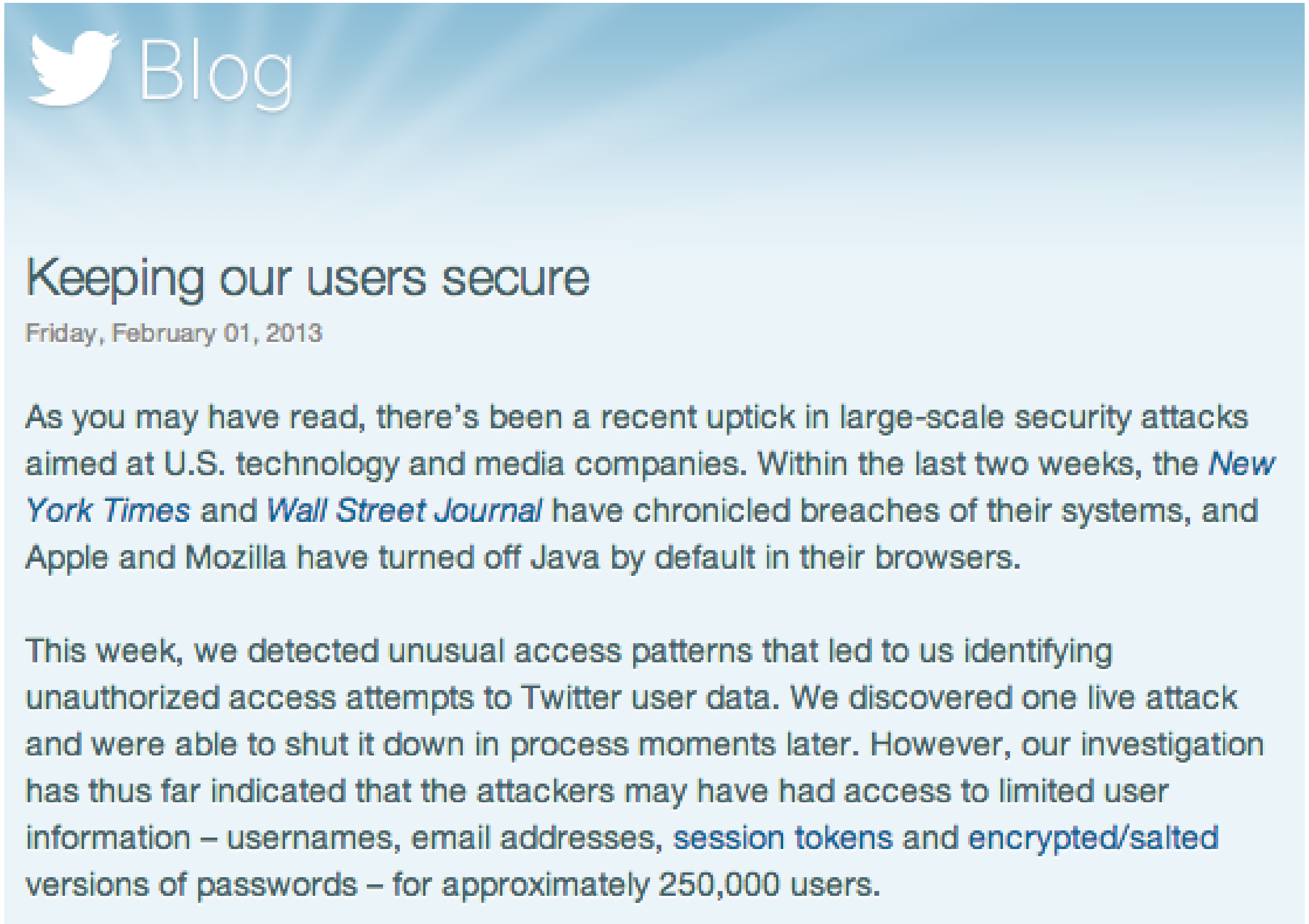
As a precaution to protect your data, we have decided to implement a password reset. Please read below for details and instructions.

In our security investigation, we have found no evidence that any of the content you store in Evernote was accessed, changed or lost. We also have no evidence that any payment information for Evernote Premium or Evernote Business customers was accessed.

The investigation has shown, however, that the individual(s) responsible were able to gain access to Evernote user information, which includes usernames, email addresses associated with Evernote accounts and encrypted passwords. Even though this information was accessed, the passwords stored by Evernote are protected by one-way encryption. (In technical terms, they are hashed and salted.)

Sources:
`http://evernote.com/corp/news/password_reset.php`

Twitter password reset



Blog

Keeping our users secure

Friday, February 01, 2013

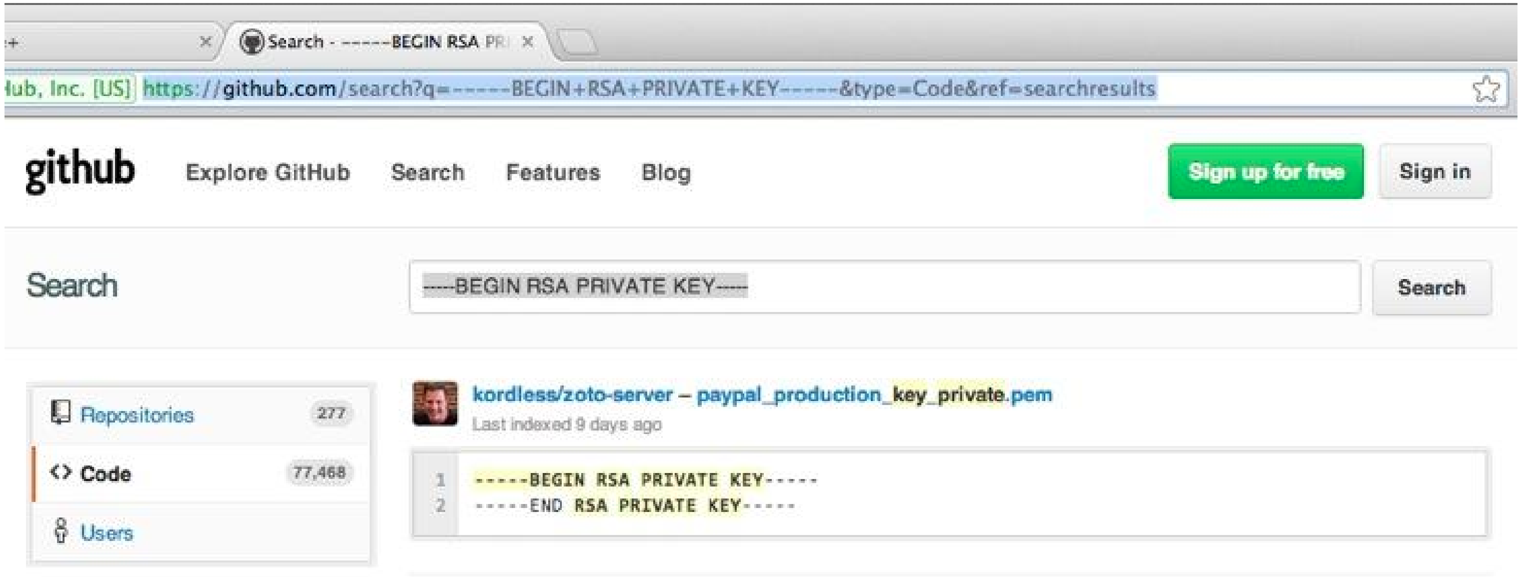
As you may have read, there's been a recent uptick in large-scale security attacks aimed at U.S. technology and media companies. Within the last two weeks, the *New York Times* and *Wall Street Journal* have chronicled breaches of their systems, and Apple and Mozilla have turned off Java by default in their browsers.

This week, we detected unusual access patterns that led to us identifying unauthorized access attempts to Twitter user data. We discovered one live attack and were able to shut it down in process moments later. However, our investigation has thus far indicated that the attackers may have had access to limited user information – usernames, email addresses, session tokens and encrypted/salted versions of passwords – for approximately 250,000 users.

Sources:

`http://blog.twitter.com/2013/02/keeping-our-users-secure.html`

January: Github Public passwords?



Search - -----BEGIN RSA PR
lub, Inc. [US] https://github.com/search?q=-----BEGIN+RSA+PRIVATE+KEY-----&type=Code&ref=searchresults
github
Explore GitHub
Search
Features
Blog
Sign up for free
Sign in
Search
-----BEGIN RSA PRIVATE KEY-----
Search
Repositories 277
Code 77,468
Users
kordless/zoto-server – paypal_production_key_private.pem
Last indexed 9 days ago

```
-----BEGIN RSA PRIVATE KEY-----
-----END RSA PRIVATE KEY-----
```

Sources:

`https://twitter.com/brianaker/status/294228373377515522`

`http://www.webmonkey.com/2013/01/users-scramble-as-github-search-exposes-passwords-security-de`

`http://www.leakedin.com/`

`http://www.offensive-security.com/community-projects/google-hacking-database/`

Are passwords dead?

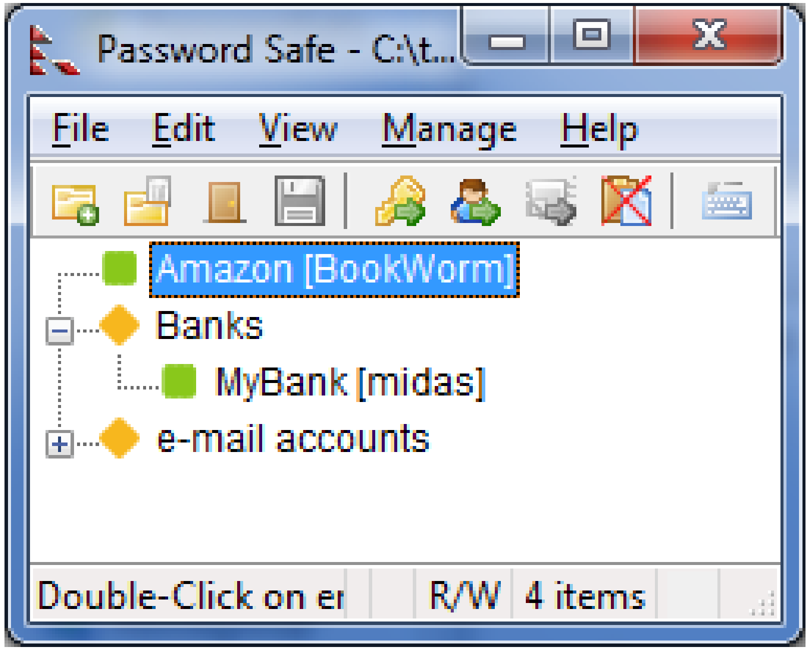
google: passwords are dead
About 6,580,000 results (0.22 seconds)

Can we stop using passwords?

Muffett on Passwords has a long list of password related information, from the author of crack `http://en.wikipedia.org/wiki/Crack_(password_software)`

`http://dropsafe.crypticide.com/muffett-passwords`

Opbevaring af passwords



Amazon [BookWorm]
Banks
MyBank [midas]
e-mail accounts

Double-Click on er R/W 4 items

PasswordSafe `http://passwordsafe.sourceforge.net/`

Apple Keychain

Browsere, Firefox Master Password

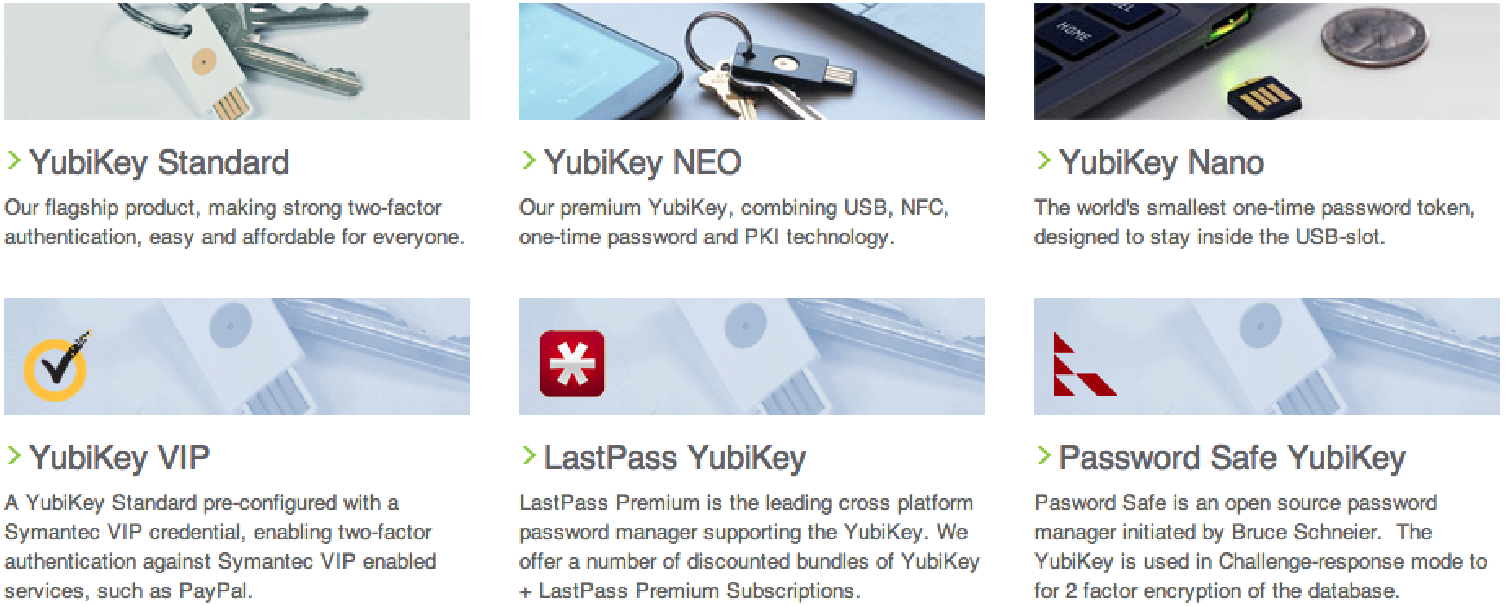
Google looks to ditch passwords for good

”Google is currently running a pilot that uses a YubiKey cryptographic card developed by Yubico

The YubiKey NEO can be tapped on an NFC-enabled smartphone, which reads an encrypted one-time password emitted from the key fob.”

Source: `http://www.zdnet.com/google-looks-to-ditch-passwords-for-good-with-nfc-based-replacement`

Yubico Yubikey



> YubiKey Standard

Our flagship product, making strong two-factor authentication, easy and affordable for everyone.

> YubiKey NEO

Our premium YubiKey, combining USB, NFC, one-time password and PKI technology.

> YubiKey Nano

The world's smallest one-time password token, designed to stay inside the USB-slot.

> YubiKey VIP

A YubiKey Standard pre-configured with a Symantec VIP credential, enabling two-factor authentication against Symantec VIP enabled services, such as PayPal.

> LastPass YubiKey

LastPass Premium is the leading cross platform password manager supporting the YubiKey. We offer a number of discounted bundles of YubiKey + LastPass Premium Subscriptions.

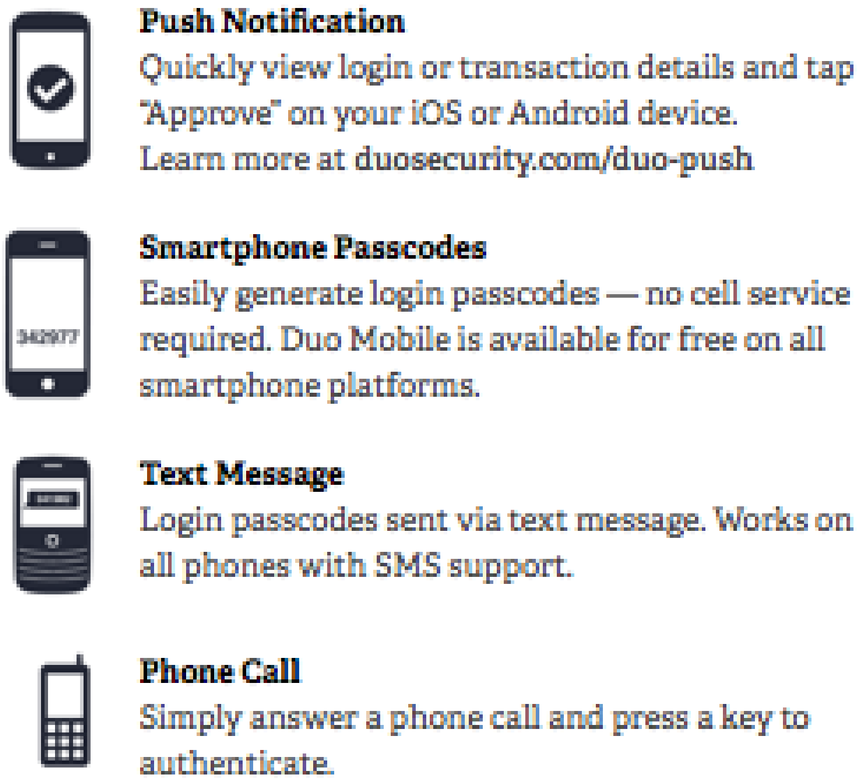
> Password Safe YubiKey

Pasword Safe is an open source password manager initiated by Bruce Schneier. The YubiKey is used in Challenge-response mode to for 2 factor encryption of the database.

A Yubico OTP is unique sequence of characters generated every time the YubiKey button is touched. The Yubico OTP is comprised of a sequence of 32 Modhex characters representing information encrypted with a 128 bit AES-128 key

`http://www.yubico.com/products/yubikey-hardware/`

Duosecurity



Push Notification

Quickly view login or transaction details and tap "Approve" on your iOS or Android device. Learn more at duosecurity.com/duo-push

Smartphone Passcodes

Easily generate login passcodes — no cell service required. Duo Mobile is available for free on all smartphone platforms.

Text Message

Login passcodes sent via text message. Works on all phones with SMS support.

Phone Call

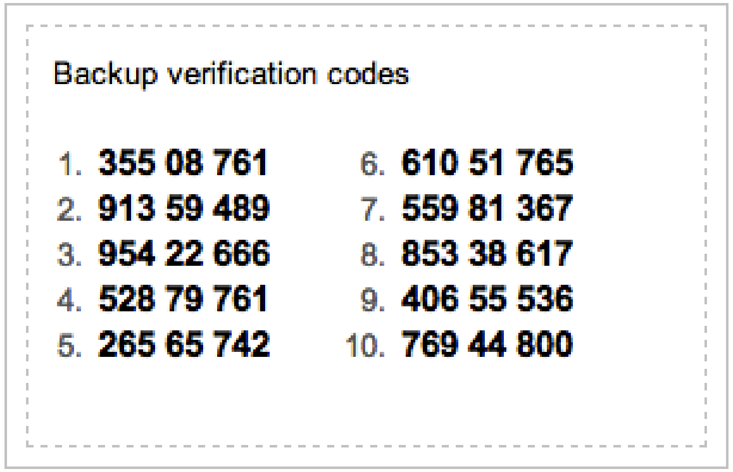
Simply answer a phone call and press a key to authenticate.

Video `https://www.duosecurity.com/duo-push`

`https://www.duosecurity.com/`

Low tech 2-step verification

Print af koder, low level pragmatisk



Backup verification codes

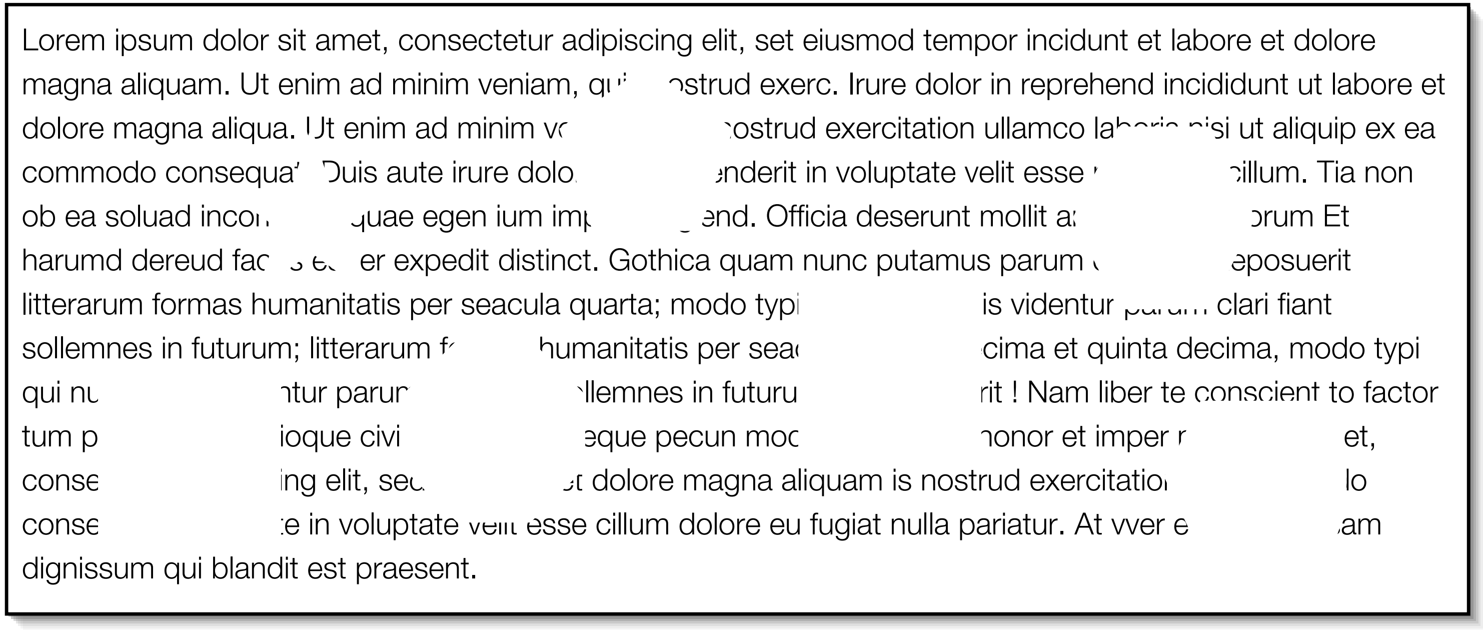
1. 355 08 761
2. 913 59 489
3. 954 22 666
4. 528 79 761
5. 265 65 742
6. 610 51 765
7. 559 81 367
8. 853 38 617
9. 406 55 536
10. 769 44 800

Login fra nye enheder kræver ekstra sikkerhed

google 2-faktor auth. SMS med backup codes

Developed at Bellcore in the late 1980s `http://en.wikipedia.org/wiki/S/KEY`

Er dine data sikre



Lorem ipsum dolor sit amet, consectetur adipiscing elit, set eiusmod tempor incidunt et labore et dolore
magna aliquam. Ut enim ad minim veniam, qu ostrud exerc. Irure dolor in reprehend incididunt ut labore et
dolore magna aliqua. Ut enim ad minim v ostrud exercitation ullamco la si ut aliquip ex ea
commodo consequa Duis aute irure dolo nderit in voluptate velit esse illum. Tia non
ob ea soluad inco quae egen ium im end. Officia deserunt mollit a rum Et
harumd dereud fac er expedit distinct. Gothica quam nunc putamus parum eposuerit
litterarum formas humanitatis per seacula quarta; modo typi is videntur clari fiant
sollemnes in futurum; litterarum f humanitatis per sea cima et quinta decima, modo typi
qui nu ntur parur llemnes in futuru rit ! Nam liber te conscient to factor
tum p ioque civi eque pecun moc nonor et imper et,
conse ing elit, sec t dolore magna aliquam is nostrud exercitatio lo
conse e in voluptate velit esse cillum dolore eu fugiat nulla pariatur. At vver e am
dignissum qui blandit est praesent.

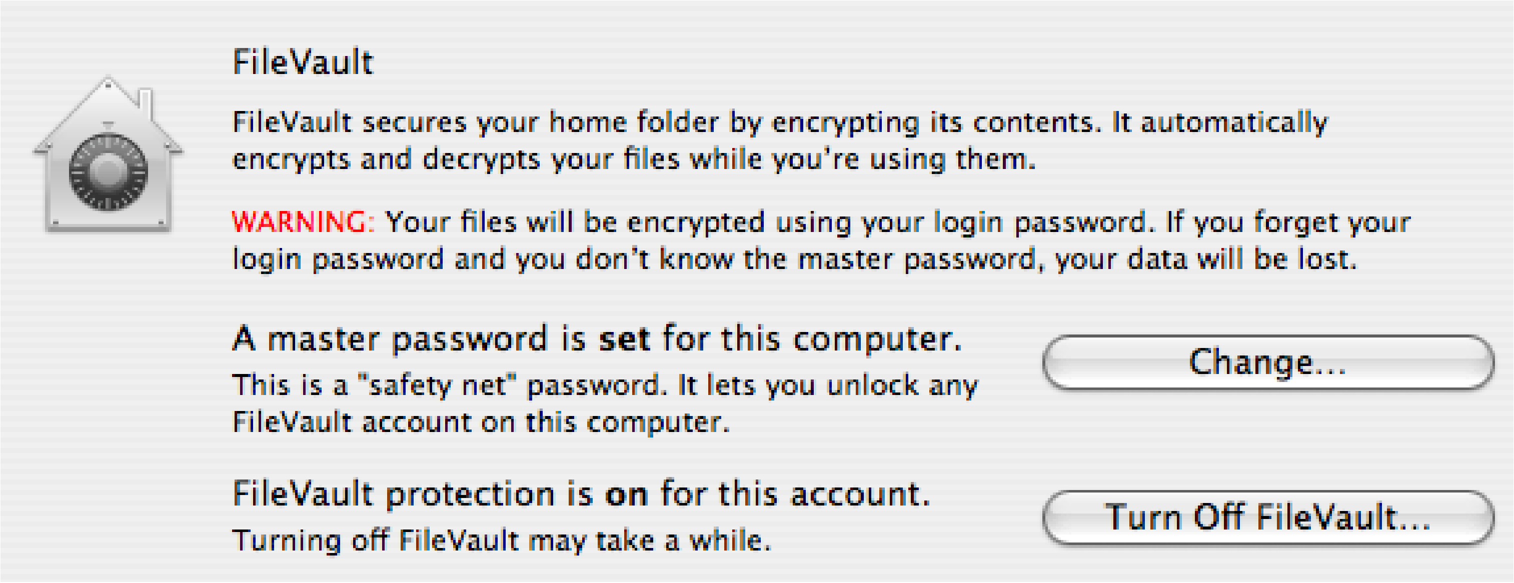
Stjålet laptop

Cloud services

Slettede eller ødelagte data

- og hvordan sletter man data? Huskede du mini SD kortet med dine private billeder?

harddisk beskyttelse og data kryptering



FileVault

FileVault secures your home folder by encrypting its contents. It automatically encrypts and decrypts your files while you're using them.

WARNING: Your files will be encrypted using your login password. If you forget your login password and you don't know the master password, your data will be lost.

A master password is **set** for this computer.
This is a "safety net" password. It lets you unlock any FileVault account on this computer.

FileVault protection is **on** for this account.
Turning off FileVault may take a while.

Kryptering findes i alle de gængse klient operativsystemer

- Microsoft Windows Bitlocker - kryptering af disken Ultimate eller Enterprise
- Apple Mac OS X - krypterer nemt med FileVault og FileVault2
- FreeBSD GEOM og GBDE - giver mulighed for at kryptere enheder generelt
- PGP disk - Pretty Good Privacy - laver en virtuel krypteret disk
- Nogle producenter har kodeord på disken - IBM harddisk BIOS kodeord

Sikre protokoller som bruger krypto

Kryptering af e-mail

- Pretty Good Privacy - Phil Zimmermann
- PGP = mail sikkerhed

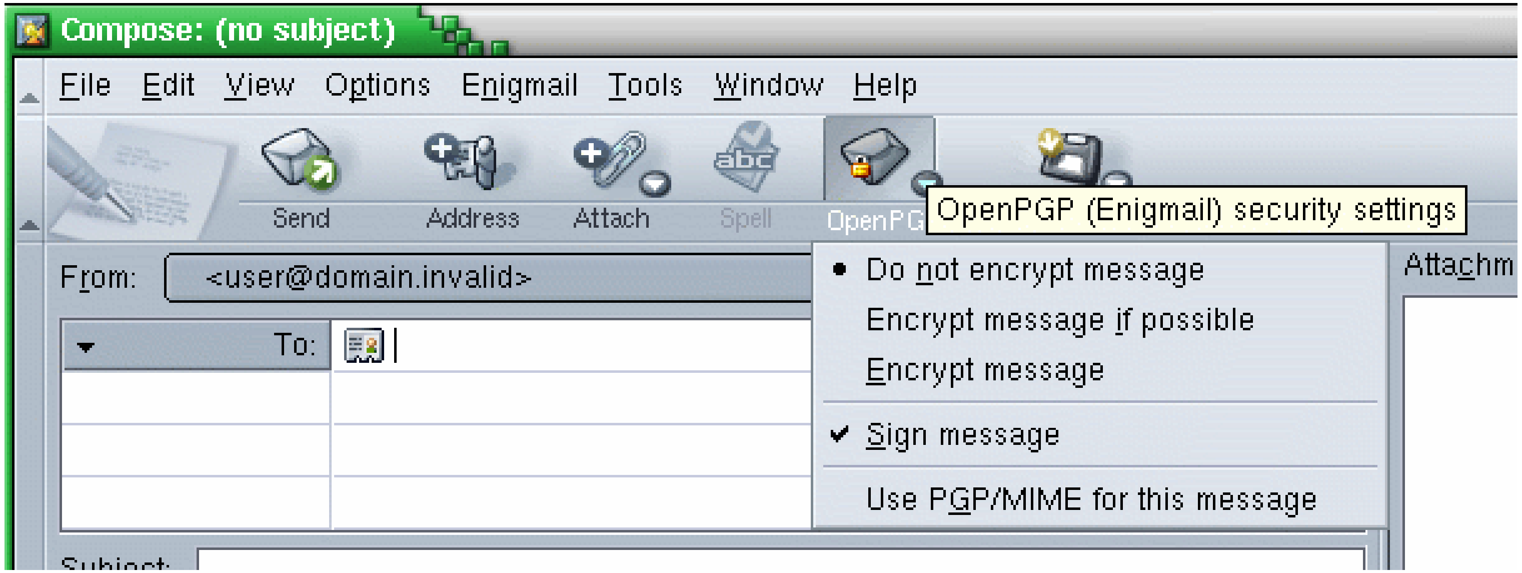
Kryptering af sessioner SSL/TLS

- Secure Sockets Layer SSL / Transport Layer Services TLS
- krypterer data der sendes mellem webservere og klienter
- SSL kan bruges generelt til mange typer sessioner, eksempelvis POP3S, IMAPS, SSH m.fl.

Kryptering af netværkstrafik - Virtual Private Networks VPN

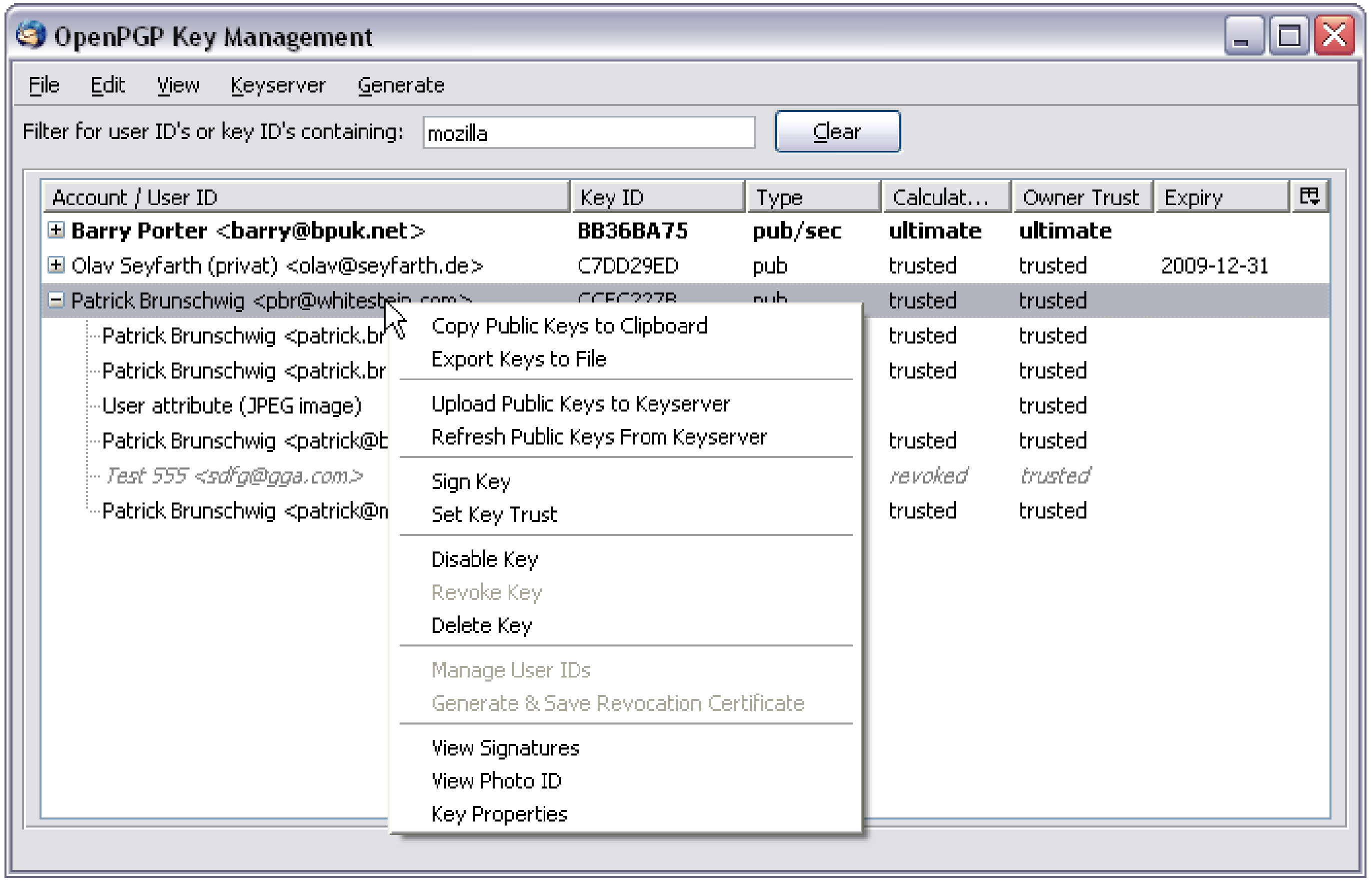
- IPsec IP Security Framework, se også L2TP
- PPTP Point to Point Tunneling Protocol - dårlig og usikker, brug den ikke mere!
- OpenVPN m.fl.

Enigmail - GPG plugin til Mail



- Enigmail er en udvidelse til
- mailklienten i Mozilla/Netscape
- standalone mailklienten Thunderbird
- Billede fra `http://enigmail.mozdev.org`

Enigmail - OpenGPG Key Manager

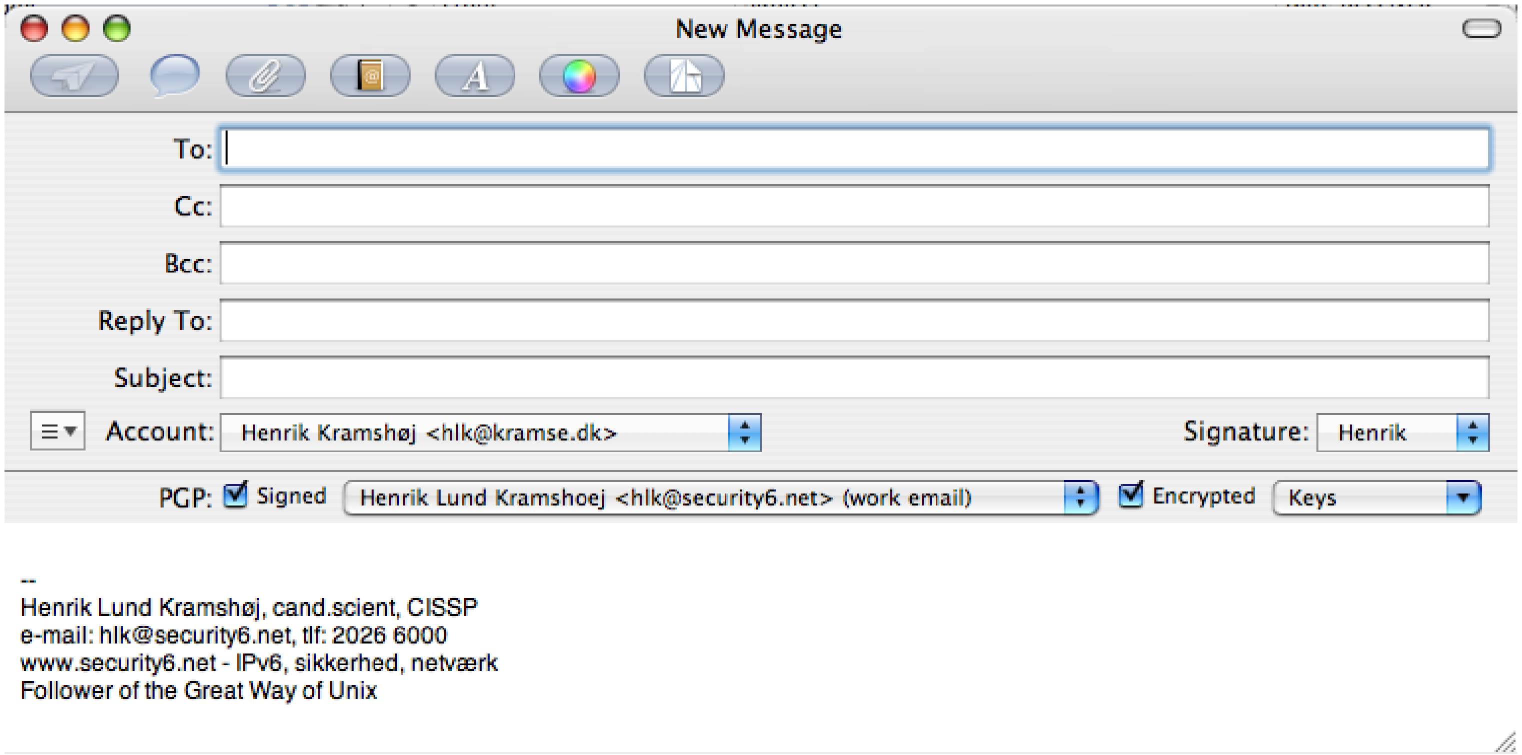


Filter for user ID's or key ID's containing: mozilla

Account / User ID	Key ID	Type	Calculat...	Owner Trust	Expiry
⊞ **Barry Porter <barry@bpuk.net>**	**BB36BA75**	**pub/sec**	**ultimate**	**ultimate**	
⊞ Olav Seyfarth (privat) <olav@seyfarth.de>	C7DD29ED	pub	trusted	trusted	2009-12-31
⊟ Patrick Brunschwig <pbr@whitestein.com>	CCFC227B	pub	trusted	trusted	
Patrick Brunschwig <patrick.br			trusted	trusted	
Patrick Brunschwig <patrick.br			trusted	trusted	
User attribute (JPEG image)				trusted	
Patrick Brunschwig <patrick@b			trusted	trusted	
Test 555 <sdfg@gga.com>			*revoked*	*trusted*	
Patrick Brunschwig <patrick@n			trusted	trusted	

Key Manager funktionaliteten i Enigmail kan anbefales

GPGMail plugin til Mac OS X Mail.app



To:

Cc:

Bcc:

Reply To:

Subject:

Account: Henrik Kramshøj <hlk@kramse.dk>

Signature: Henrik

PGP: ☑ Signed Henrik Lund Kramshoej <hlk@security6.net> (work email) ☑ Encrypted Keys

--
Henrik Lund Kramshøj, cand.scient, CISSP
e-mail: hlk@security6.net, tlf: 2026 6000
www.security6.net - IPv6, sikkerhed, netværk
Follower of the Great Way of Unix

- Bruger GPG
- kilde: `http://www.sente.ch/software/GPGMail/English.lproj/GPGMail.html`
- Mailserver udvidelser som `https://github.com/infertux/zeyple`

VPN

VPN `http://en.wikipedia.org/wiki/Virtual_private_network`

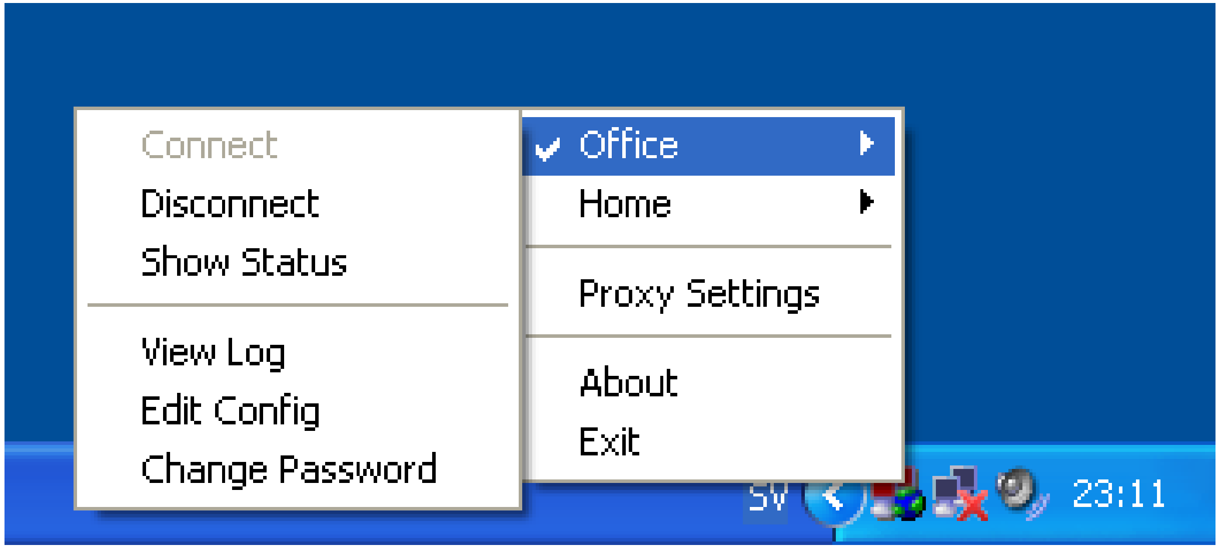
SSL/TLS VPN - Generelt koncept. Adskillige leverandører: Cisco, Juniper, F5 Big IP

De snakker ikke ret godt sammen på tværs. Brug IPSec for dette.

IPsec er desværre blokeret mange steder og man skal bruge en klient
(I praksis bruger SSL VPN ofte en klient, men den downloades fra web)

Open source variant: OpenVPN

OpenVPN client



OpenVPN GUI - easy to use

Internet sniffing by government

Ægypten, Sudan, Tunesien, ...

Den der kontrollerer ISPerne kontrollerer trafikken

Facebook revolutionerne

Blokering er umulig, men det forsøges

Spredning af falsk information

Diginotar Dutch Certificate Authority

Kilde: `http://irevolution.net/2011/02/10/facebook-for-repressive-regimes/`

HTTPS Everywhere

HTTPS Everywhere is a Firefox extension produced as a collaboration between The Tor Project and the Electronic Frontier Foundation. It encrypts your communications with a number of major websites.

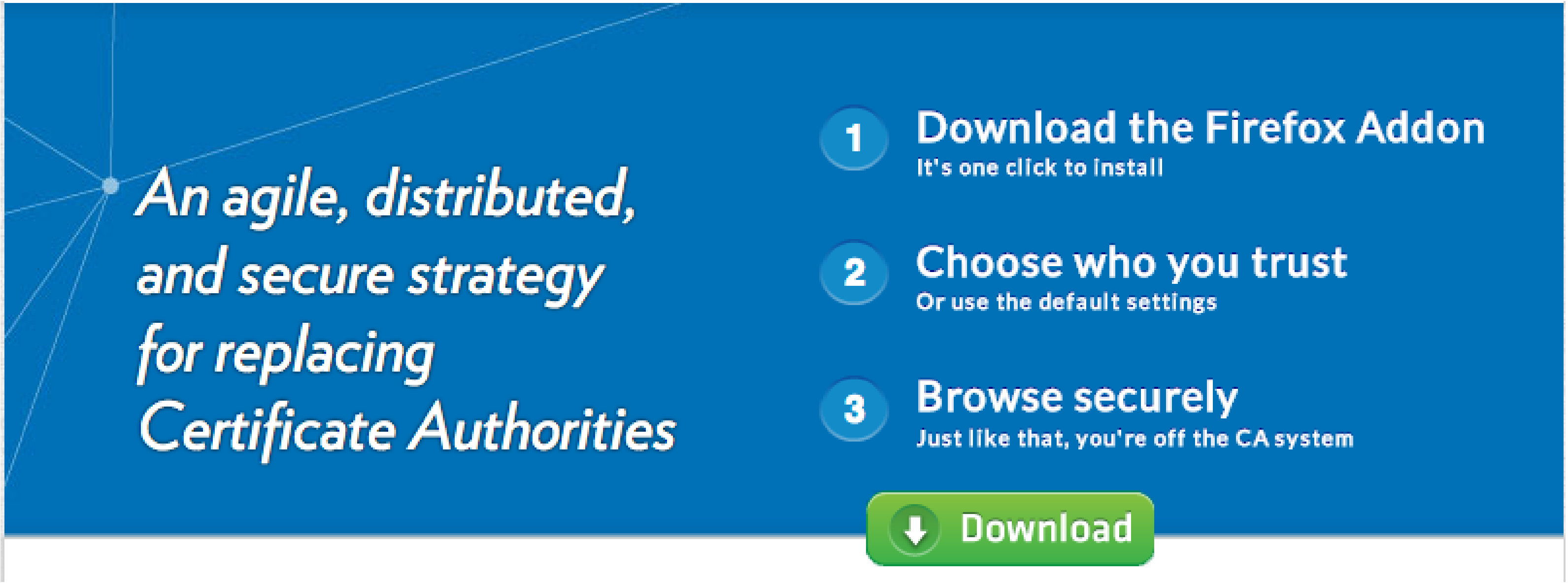
`http://www.eff.org/https-everywhere`

CertPatrol - which site uses which certificate

An add-on formerly considered paranoid: CertPatrol implements ”pinning” for Firefox/Mozilla/SeaMonkey roughly as now recommended in the User Interface Guidelines of the World Wide Web Consortium (W3C).

`http://patrol.psyced.org/`

Convergence - who do you trust



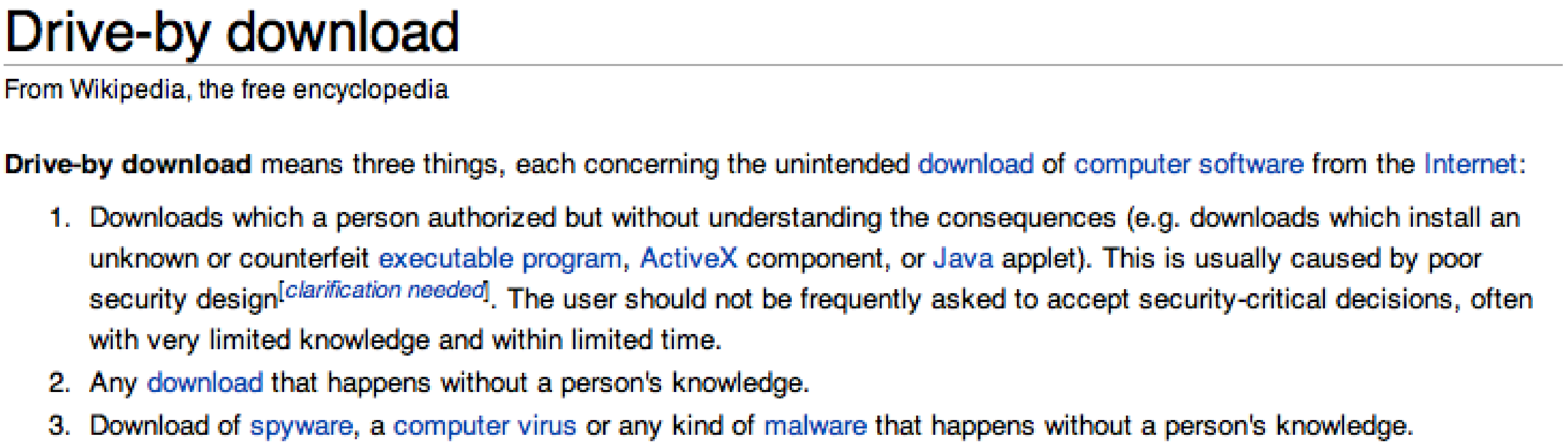
An agile, distributed, and secure strategy for replacing Certificate Authorities

1. Download the Firefox Addon
   It's one click to install
2. Choose who you trust
   Or use the default settings
3. Browse securely
   Just like that, you're off the CA system

`http://convergence.io/`

Warning: radical change to how certificates work

Client side: Flash, PDF, Facebook



Drive-by download

From Wikipedia, the free encyclopedia

Drive-by download means three things, each concerning the unintended download of computer software from the Internet:

1. Downloads which a person authorized but without understanding the consequences (e.g. downloads which install an unknown or counterfeit executable program, ActiveX component, or Java applet). This is usually caused by poor security design[*clarification needed*]. The user should not be frequently asked to accept security-critical decisions, often with very limited knowledge and within limited time.
2. Any download that happens without a person's knowledge.
3. Download of spyware, a computer virus or any kind of malware that happens without a person's knowledge.

Kan vi undvære Java, Flash og PDF?

Kilde: `http://en.wikipedia.org/wiki/Drive-by_download`

Flash blockers

Safari `http://clicktoflash.com/`

Firefox Extension Flashblock

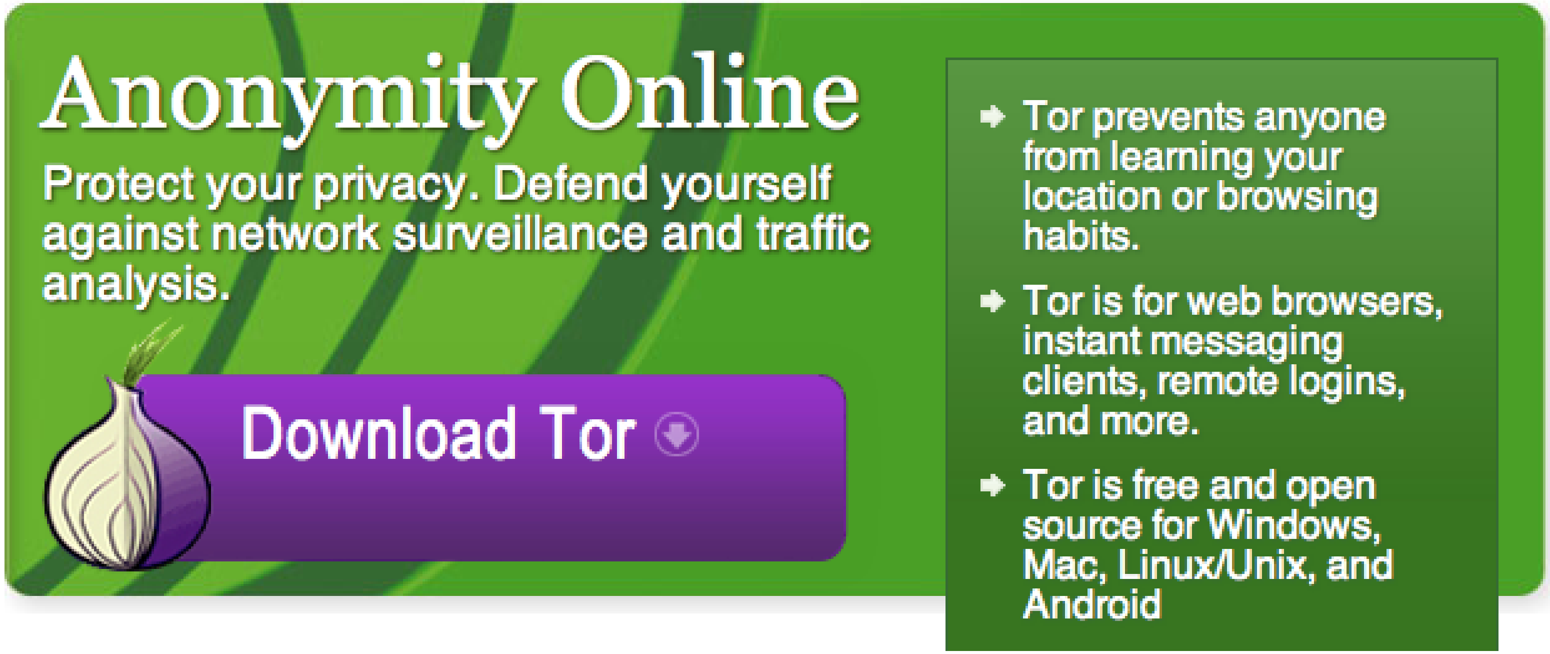
Chrome extension called FlashBlock

Internet Explorer 8: IE has the Flash block functionality built-in so you don't need to install any additional plugins to be able to block flash on IE 8.

FlashBlock for Opera 9 - bruger nogen Opera mere?

FlashBlockere til iPad? iPhone? Android? - hvorfor er det ikke default?

Tor project



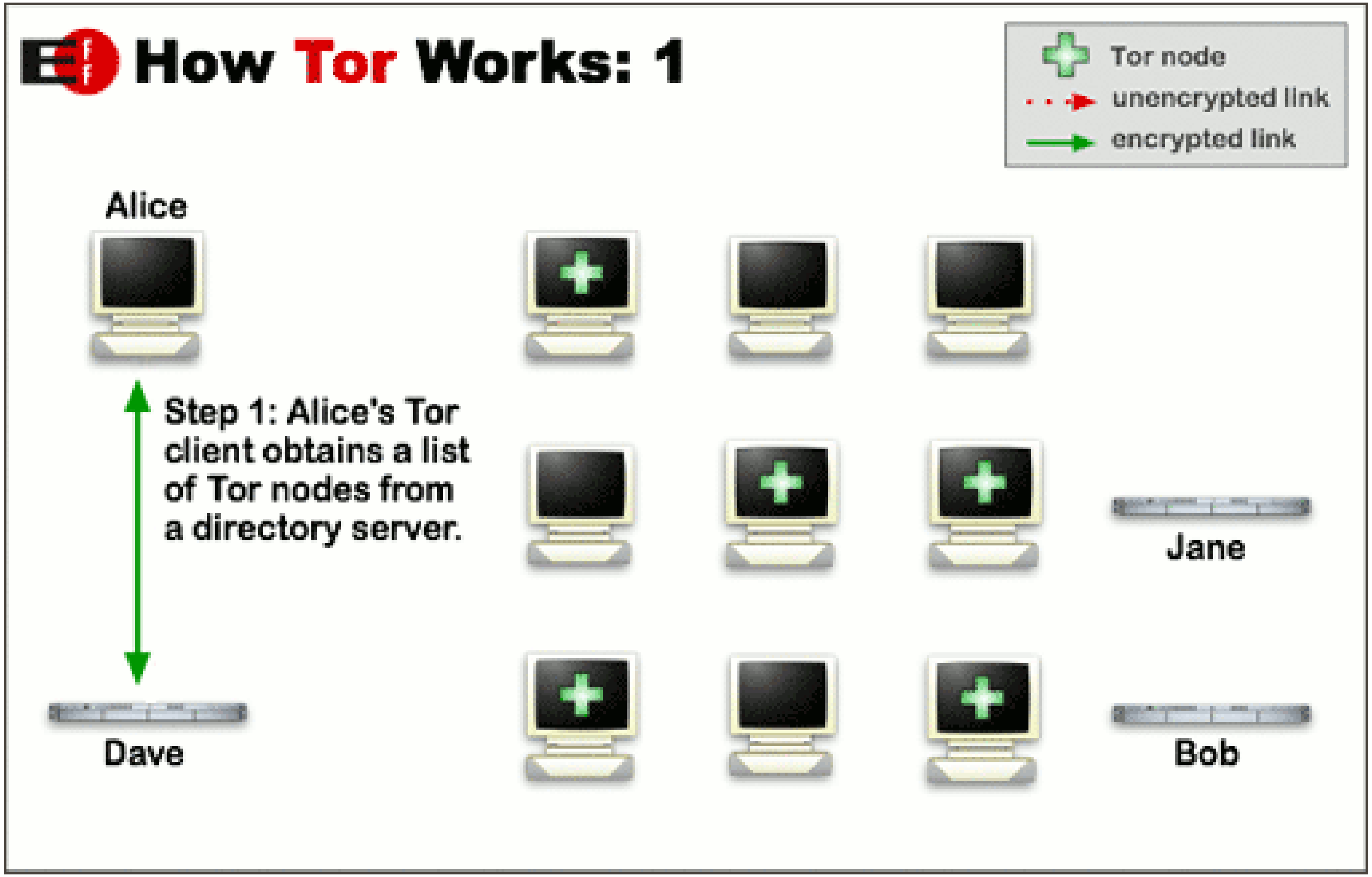
Anonymity Online

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

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

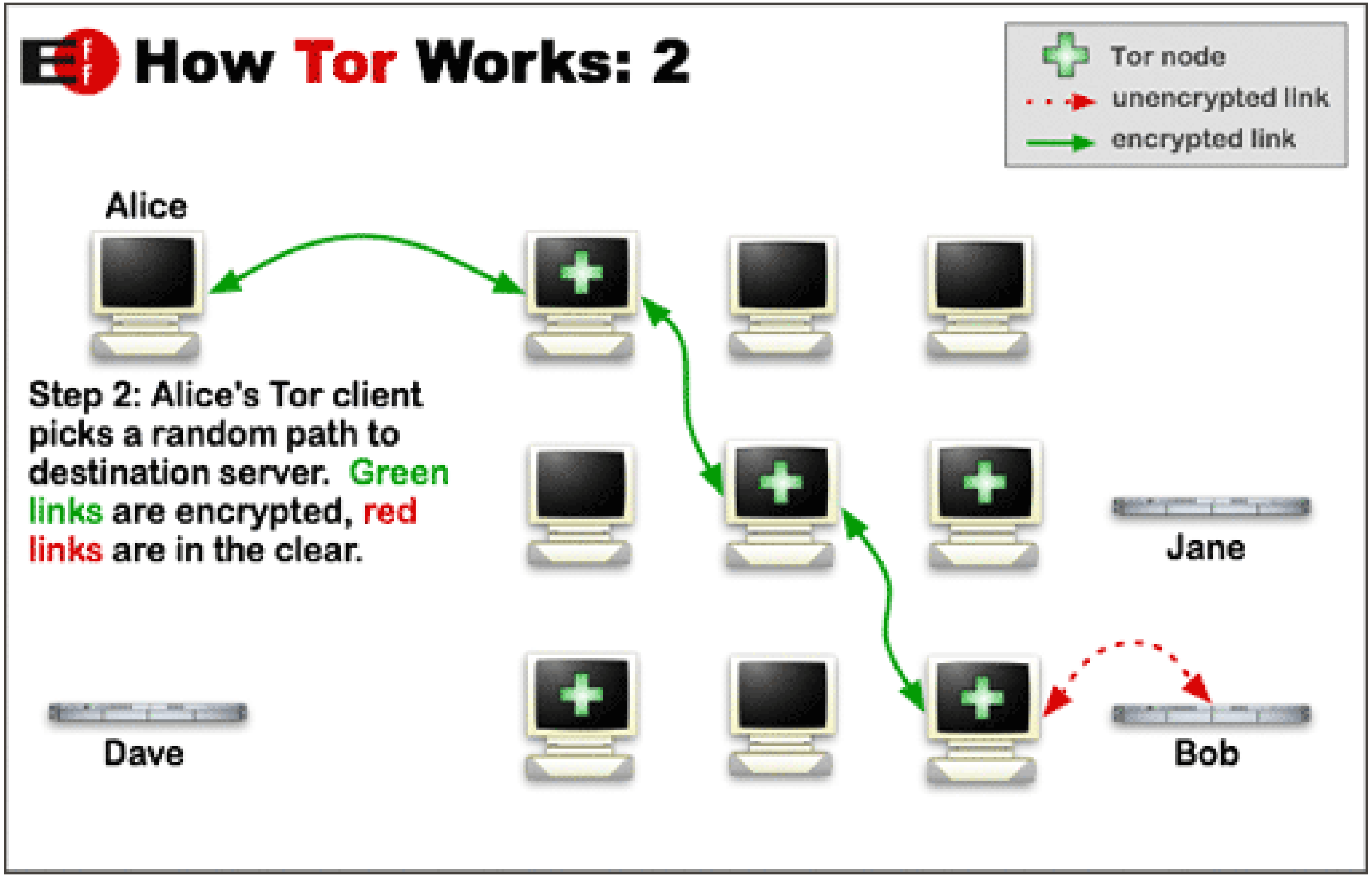
`https://www.torproject.org/`

Tor project - how it works 1


How Tor Works: 1
Tor node
unencrypted link
encrypted link
Alice
Step 1: Alice's Tor client obtains a list of Tor nodes from a directory server.
Jane
Dave
Bob

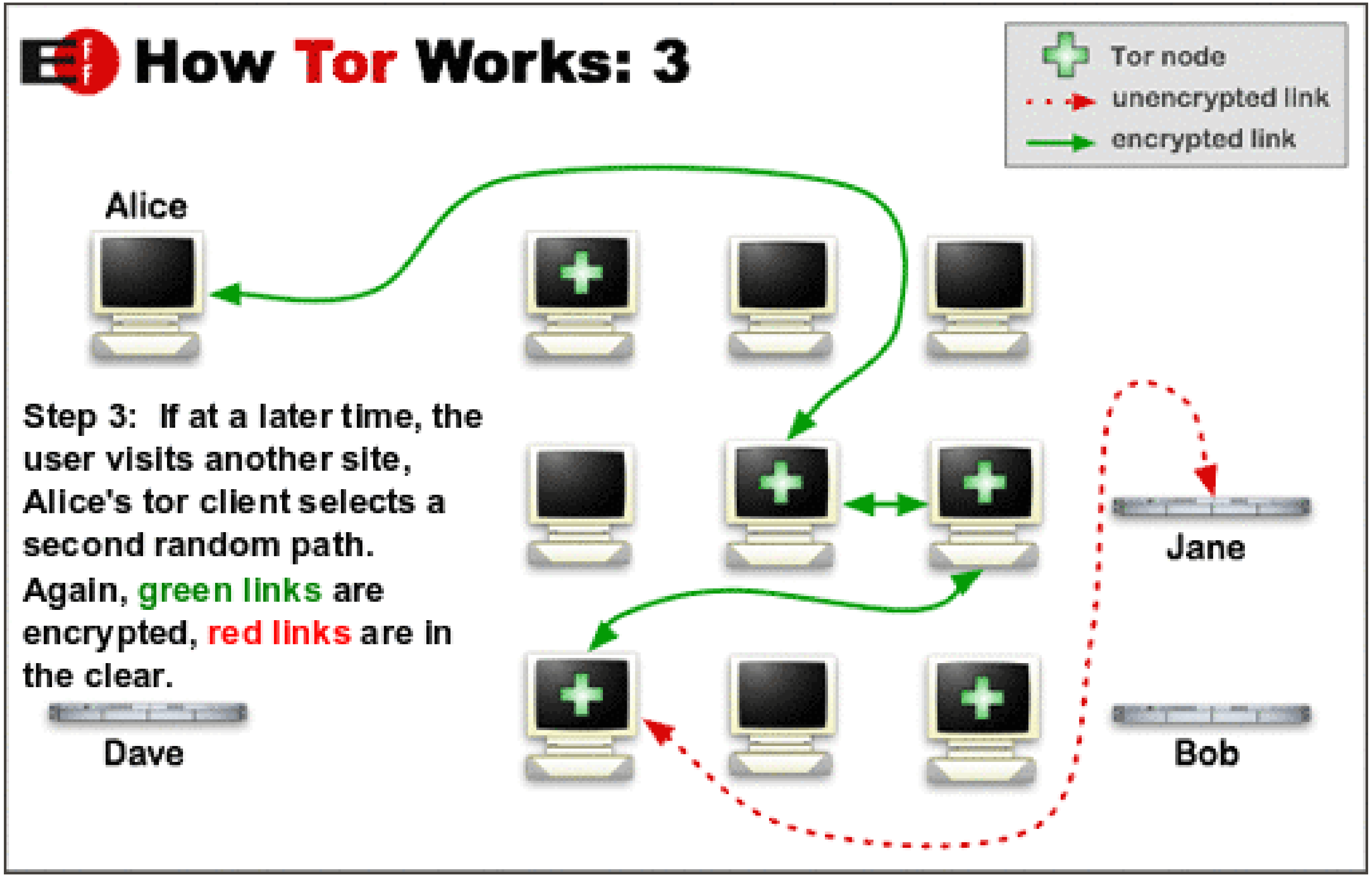
pictures from `https://www.torproject.org/about/overview.html.en`

Tor project - how it works 2


How Tor Works: 2
Tor node
unencrypted link
encrypted link
Alice
Step 2: Alice's Tor client picks a random path to destination server. Green links are encrypted, red links are in the clear.
Jane
Dave
Bob

pictures from `https://www.torproject.org/about/overview.html.en`

Tor project - how it works 3



Step 3: If at a later time, the user visits another site, Alice's tor client selects a second random path. Again, green links are encrypted, red links are in the clear.

pictures from `https://www.torproject.org/about/overview.html.en`

Hvordan bliver du sikker

Lad være med at bruge een computer til alt

Forskellige computere til forskellige formål, webserver vs mailserver

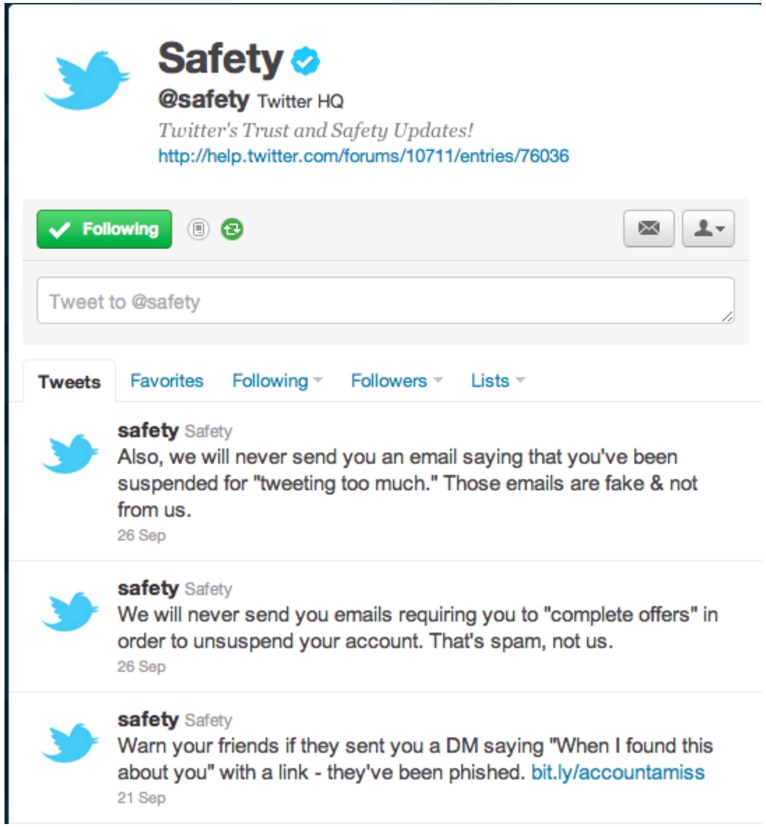
Brug en sikker konfiguration, minimumskonfiguration

Brug sikre protokoller, kryptering, evt. TOR

Opsætning af netværk, hvordan? Security Configuration Guides + paranoia

- `http://csrc.nist.gov/publications/PubsSPs.html`
- `http://www.nsa.gov/research/publications/index.shtml`
- `http://www.nsa.gov/ia/guidance/security_configuration_guides/index.shtml`

Følg med Twitter news



Safety

@safety Twitter HQ

Twitter's Trust and Safety Updates!

http://help.twitter.com/forums/10711/entries/76036

safety Safety
Also, we will never send you an email saying that you've been suspended for "tweeting too much." Those emails are fake & not from us.
26 Sep

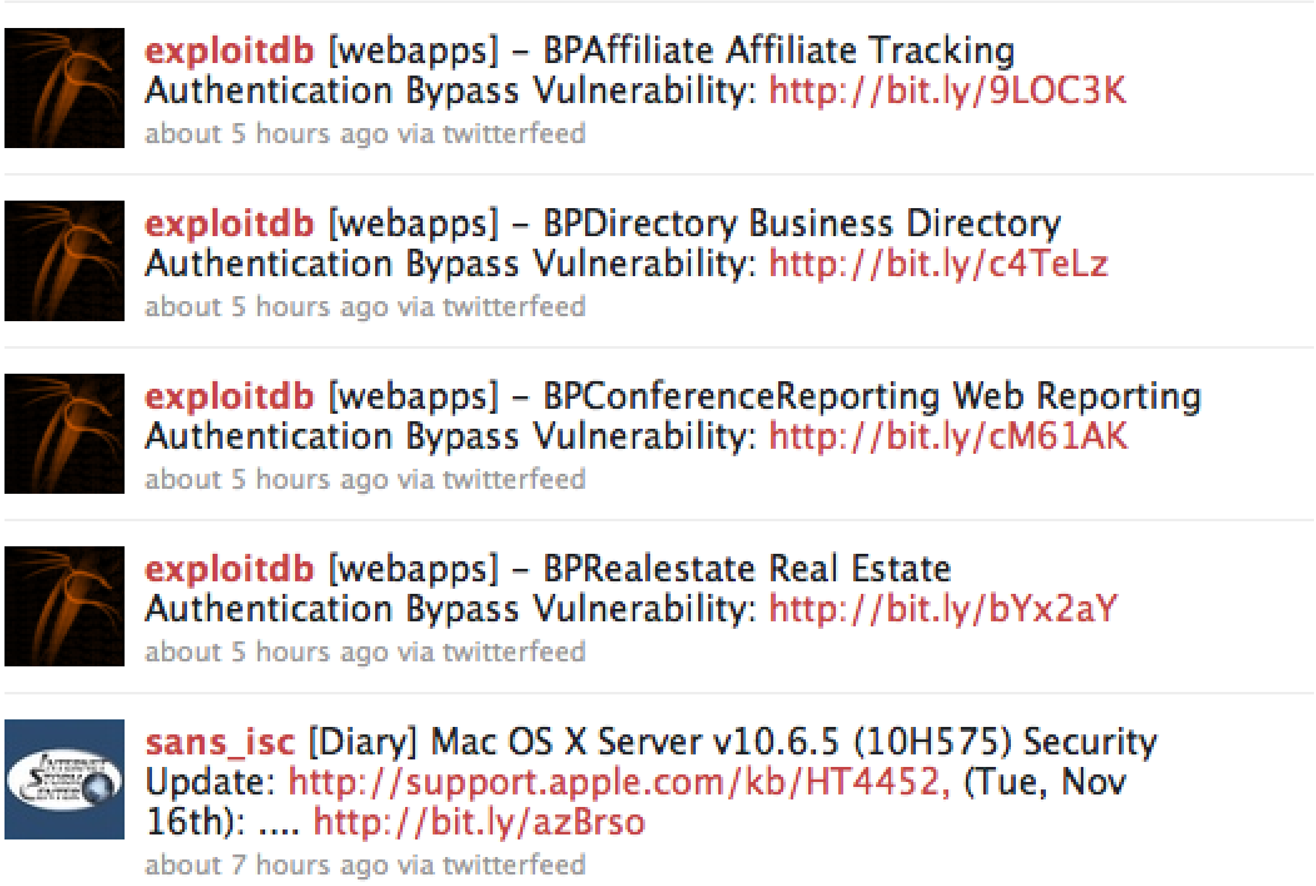
safety Safety
We will never send you emails requiring you to "complete offers" in order to unsuspend your account. That's spam, not us.
26 Sep

safety Safety
Warn your friends if they sent you a DM saying "When I found this about you" with a link - they've been phished. bit.ly/accountamiss
21 Sep

Twitter has become an important new resource for lots of stuff

Twitter has replaced RSS for me

Følg med Twitter news



exploitdb [webapps] - BPAffiliate Affiliate Tracking Authentication Bypass Vulnerability: http://bit.ly/9LOC3K
about 5 hours ago via twitterfeed

exploitdb [webapps] - BPDirectory Business Directory Authentication Bypass Vulnerability: http://bit.ly/c4TeLz
about 5 hours ago via twitterfeed

exploitdb [webapps] - BPConferenceReporting Web Reporting Authentication Bypass Vulnerability: http://bit.ly/cM61AK
about 5 hours ago via twitterfeed

exploitdb [webapps] - BPRealestate Real Estate Authentication Bypass Vulnerability: http://bit.ly/bYx2aY
about 5 hours ago via twitterfeed

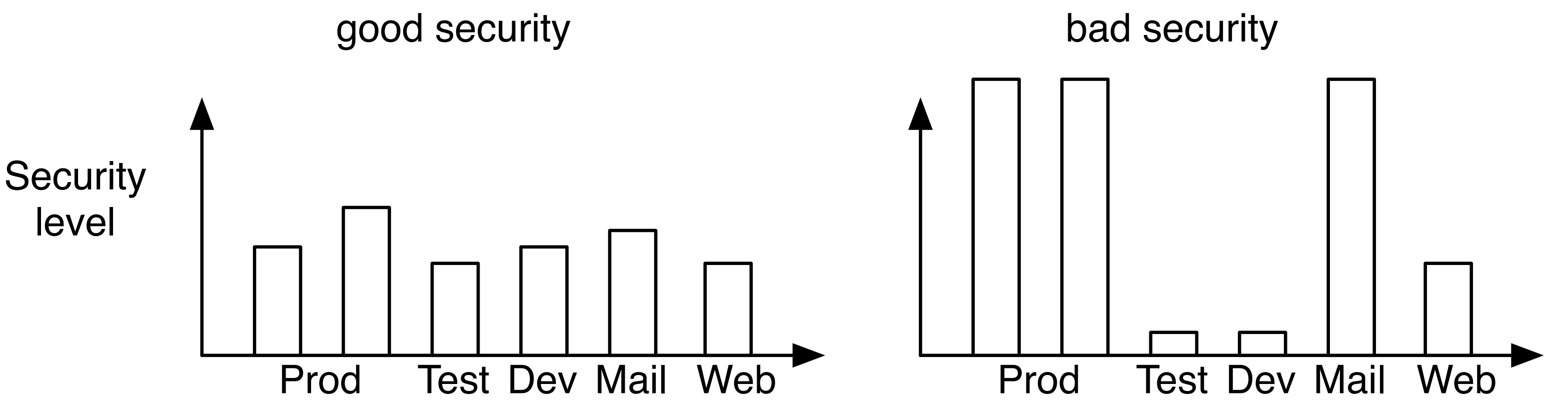
sans_isc [Diary] Mac OS X Server v10.6.5 (10H575) Security Update: http://support.apple.com/kb/HT4452, (Tue, Nov 16th): .... http://bit.ly/azBrso
about 7 hours ago via twitterfeed

Exploits og nye sårbarheder

Checklisten

- BIOS kodeord, pin-kode til telefon
- Firewall - specielt på laptops
- Installer anti-virus og anti-spyware hvis det er på Windows
- Brug to browsere med forskellige indstillinger
- Brug evt. PGP til mailkryptering
- Brug Password Safe, Keychain Access (OSX) eller tilsvarende
- Overvej at bruge harddisk eller filkryptering
- Opdatere alle programmer jævnligt
- **Backup af vigtige data - harddiske i bærbare kan også dø**
- Husk: sikker sletning af harddiske, medier osv.

Afbalanceret sikkerhed



Det er bedre at have et ensartet niveau

Hvor rammer angreb hvis du har Fort Knox et sted og kaos andre steder

Hackere vælger ikke med vilje den sværeste vej ind

Part II

Fri adgang til hackerværktøjer

I 1993 skrev Dan Farmer og Wietse Venema artiklen
Improving the Security of Your Site by Breaking Into it

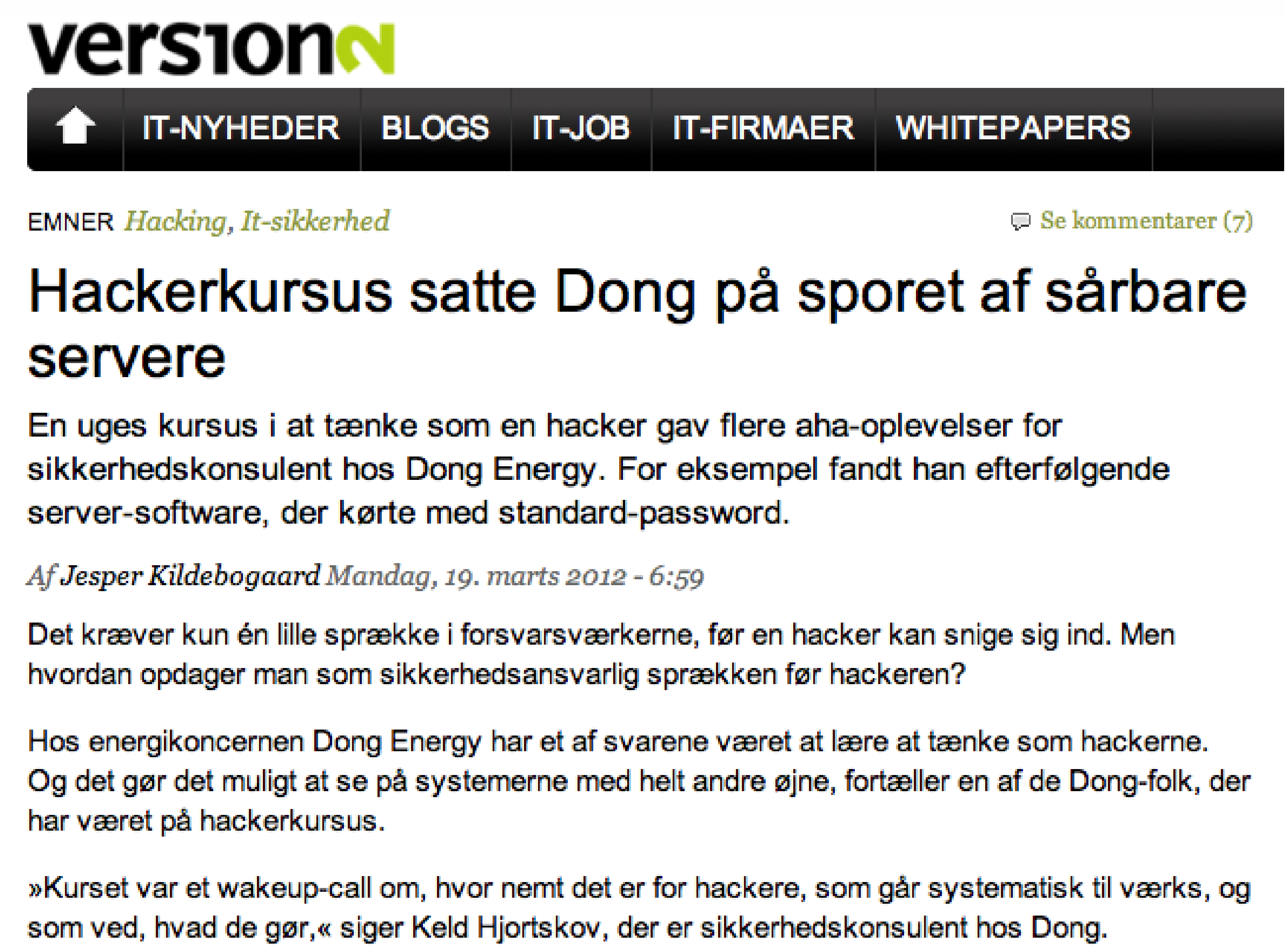
I 1995 udgav de softwarepakken SATAN
Security Administrator Tool for Analyzing Networks

> We realize that SATAN is a two-edged sword - like many tools, it can be used for good and for evil purposes. We also realize that intruders (including wannabees) have much more capable (read intrusive) tools than offered with SATAN.

Se `http://sectools.org` og `http://www.packetstormsecurity.org/`

Kilde: `http://www.fish2.com/security/admin-guide-to-cracking.html`

Pentest in the news



EMNER *Hacking, It-sikkerhed*

Se kommentarer (7)

Hackerkursus satte Dong på sporet af sårbare servere

En uges kursus i at tænke som en hacker gav flere aha-oplevelser for sikkerhedskonsulent hos Dong Energy. For eksempel fandt han efterfølgende server-software, der kørte med standard-password.

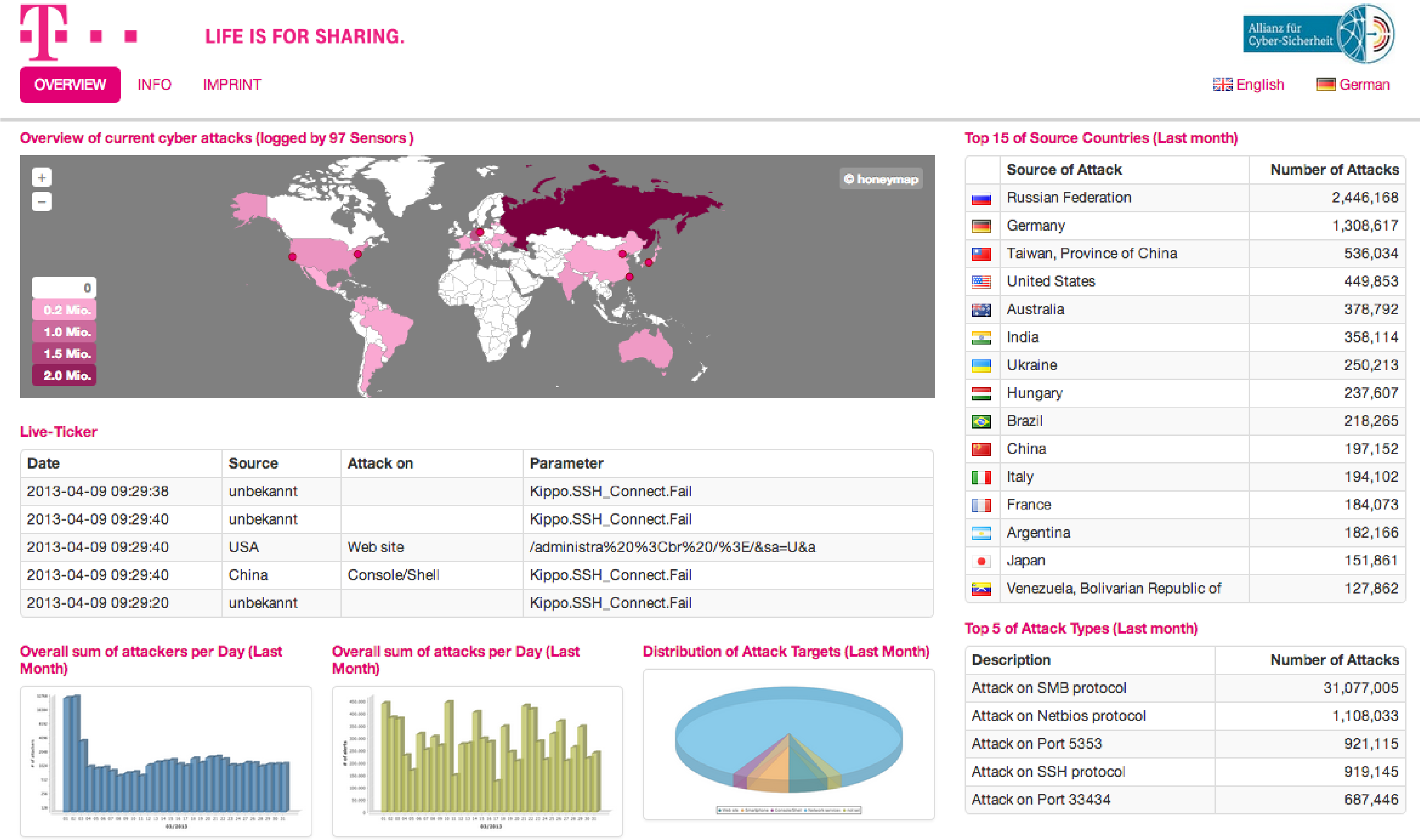
Af Jesper Kildebogaard Mandag, 19. marts 2012 - 6:59

Det kræver kun én lille sprække i forsvarsværkerne, før en hacker kan snige sig ind. Men hvordan opdager man som sikkerhedsansvarlig sprækken før hackeren?

Hos energikoncernen Dong Energy har et af svarene været at lære at tænke som hackerne. Og det gør det muligt at se på systemerne med helt andre øjne, fortæller en af de Dong-folk, der har været på hackerkursus.

»Kurset var et wakeup-call om, hvor nemt det er for hackere, som går systematisk til værks, og som ved, hvad de gør,« siger Keld Hjortskov, der er sikkerhedskonsulent hos Dong.

Attack overview



Overview of current cyber attacks (logged by 97 Sensors)

Live-Ticker

Date	Source	Attack on	Parameter
2013-04-09 09:29:38	unbekannt		Kippo.SSH_Connect.Fail
2013-04-09 09:29:40	unbekannt		Kippo.SSH_Connect.Fail
2013-04-09 09:29:40	USA	Web site	/administra%20%3Cbr%20/%3E/&sa=U&a
2013-04-09 09:29:40	China	Console/Shell	Kippo.SSH_Connect.Fail
2013-04-09 09:29:20	unbekannt		Kippo.SSH_Connect.Fail

Overall sum of attackers per Day (Last Month)

Overall sum of attacks per Day (Last Month)

Distribution of Attack Targets (Last Month)

Top 15 of Source Countries (Last month)

	Source of Attack	Number of Attacks
	Russian Federation	2,446,168
	Germany	1,308,617
	Taiwan, Province of China	536,034
	United States	449,853
	Australia	378,792
	India	358,114
	Ukraine	250,213
	Hungary	237,607
	Brazil	218,265
	China	197,152
	Italy	194,102
	France	184,073
	Argentina	182,166
	Japan	151,861
	Venezuela, Bolivarian Republic of	127,862

Top 5 of Attack Types (Last month)

Description	Number of Attacks
Attack on SMB protocol	31,077,005
Attack on Netbios protocol	1,108,033
Attack on Port 5353	921,115
Attack on SSH protocol	919,145
Attack on Port 33434	687,446

http://www.sicherheitstacho.eu/?lang=en

Carna Botnet

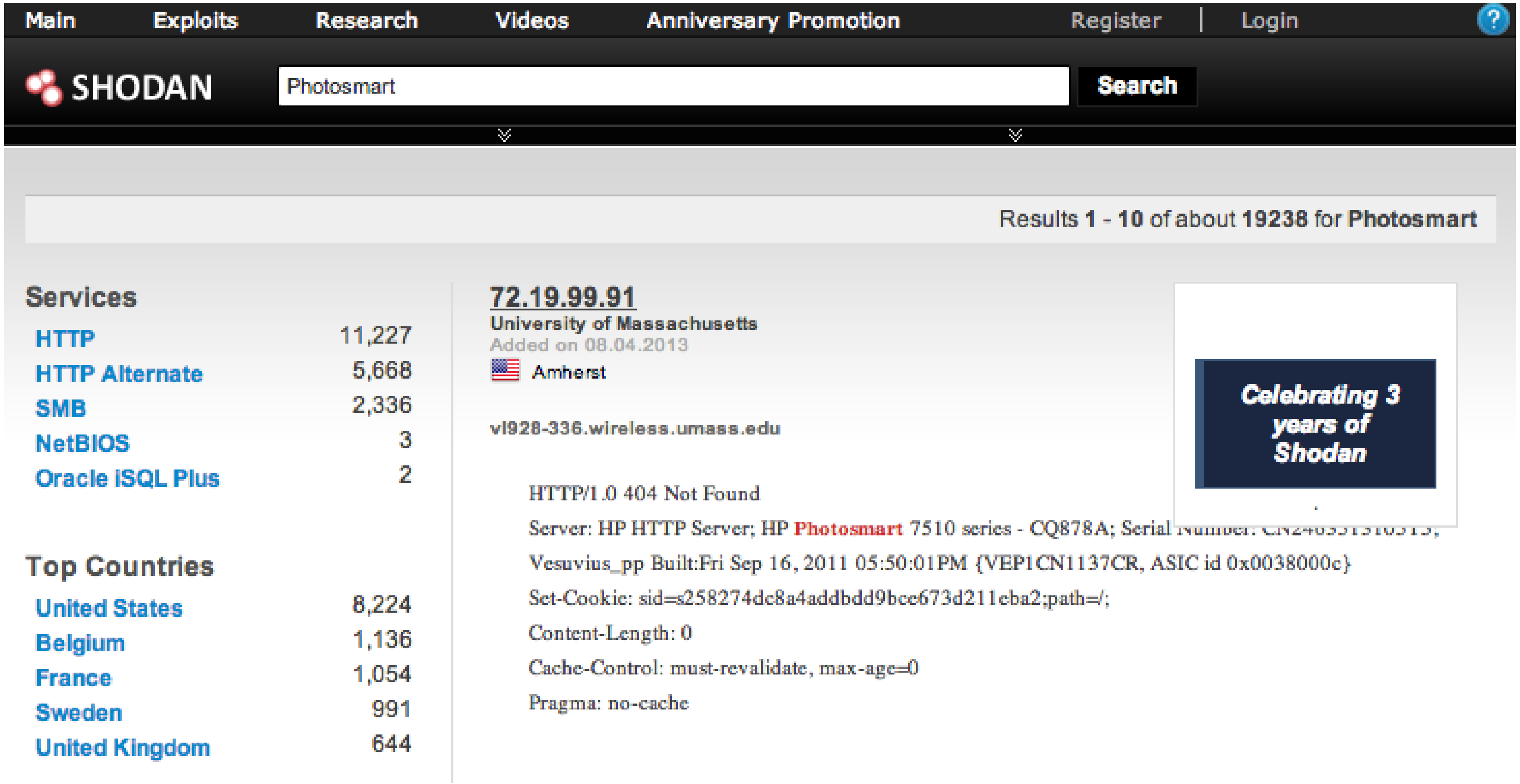
Internet Census 2012 Port scanning /0 using insecure embedded devices

Abstract While playing around with the Nmap Scripting Engine (NSE) we discovered an amazing number of open embedded devices on the Internet. Many of them are based on Linux and allow login to standard BusyBox with empty or default credentials. We used these devices to build a distributed port scanner to scan all IPv4 addresses. These scans include service probes for the most common ports, ICMP ping, reverse DNS and SYN scans. We analyzed some of the data to get an estimation of the IP address usage.

Additionally, with one hundred thousand devices scanning at ten probes per second we would have a distributed port scanner to port scan the entire IPv4 Internet within one hour.

Source: `http://internetcensus2012.bitbucket.org/paper.html`
`http://www.theregister.co.uk/2013/03/19/carna_botnet_ipv4_internet_map/`

Shodan *dark google*



Results **1** - **10** of about **19238** for **Photosmart**

Services

HTTP	11,227
HTTP Alternate	5,668
SMB	2,336
NetBIOS	3
Oracle iSQL Plus	2

Top Countries

United States	8,224
Belgium	1,136
France	1,054
Sweden	991
United Kingdom	644

72.19.99.91
University of Massachusetts
Added on 08.04.2013
Amherst

vl928-336.wireless.umass.edu

```
HTTP/1.0 404 Not Found
Server: HP HTTP Server; HP Photosmart 7510 series - CQ878A; Serial Number: CN246551510515;
Vesuvius_pp Built:Fri Sep 16, 2011 05:50:01PM {VEP1CN1137CR, ASIC id 0x0038000c}
Set-Cookie: sid=s258274dc8a4addbdd9bce673d211eba2;path=/;
Content-Length: 0
Cache-Control: must-revalidate, max-age=0
Pragma: no-cache
```

http://www.shodanhq.com/search?q=Photosmart

Cisco IOS password

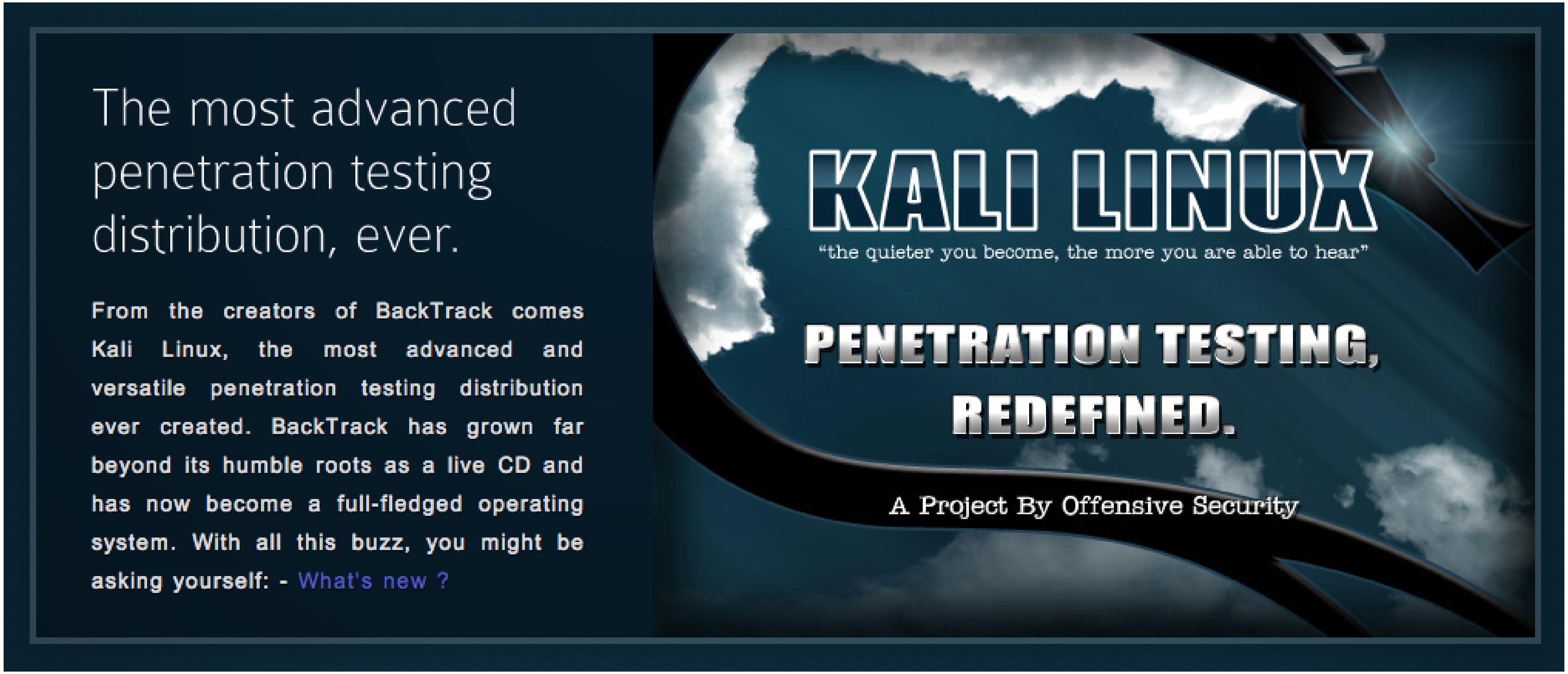
Title: Cisco's new password hashing scheme easily cracked

Description: In an astonishing decision that has left crytographic experts scratching their heads, engineer's for Cisco's IOS operating system chose to switch to a **one-time SHA256 encoding - without salt** - for storing passwords on the device. This decision leaves password hashes vulnerable to high-speed cracking - modern graphics cards can compute over **2 billion SHA256 hashes in a second - and is actually considerably less secure than Cisco's previous implementation.** As users cannot downgrade their version of IOS without a complete reinstall, and no fix is yet available, security experts are urging users to avoid upgrades to IOS version 15 at this time.

Reference: via SANS @RISK newsletter

`http://arstechnica.com/security/2013/03/cisco-switches-to-weaker-h`

Kali Linux the new backtrack



The most advanced penetration testing distribution, ever.

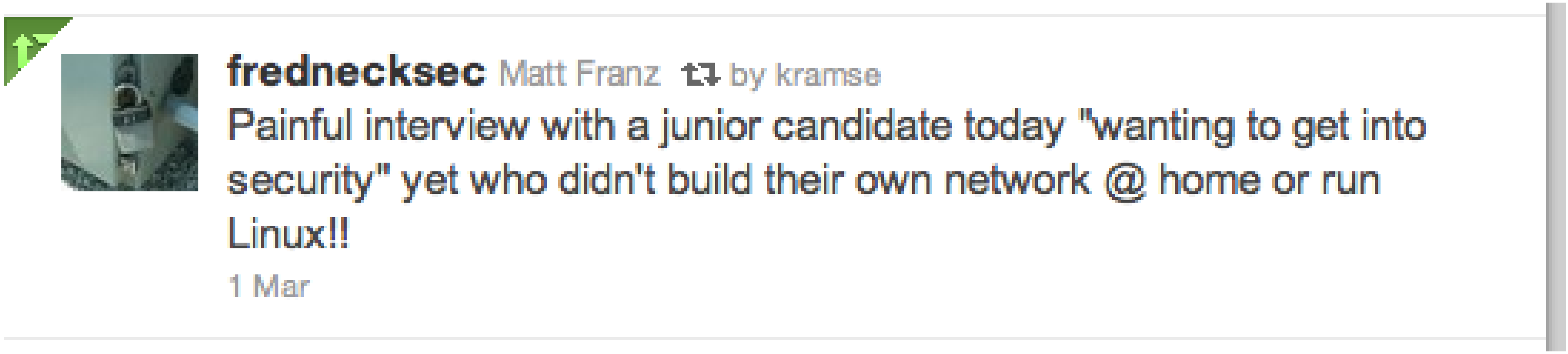
From the creators of BackTrack comes Kali Linux, the most advanced and versatile penetration testing distribution ever created. BackTrack has grown far beyond its humble roots as a live CD and has now become a full-fledged operating system. With all this buzz, you might be asking yourself: - What's new ?

KALI LINUX
"the quieter you become, the more you are able to hear"
PENETRATION TESTING, REDEFINED.
A Project By Offensive Security

BackTrack `http://www.backtrack-linux.org`

Kali `http://www.kali.org/`

it’s a Unix system, I know this



frednecksec Matt Franz by kramse

Painful interview with a junior candidate today "wanting to get into security" yet who didn't build their own network @ home or run Linux!!

1 Mar

Skal du igang med sikkerhed?

Installer et netværk, evt. bare en VMware, Virtualbox, Parallels, Xen, GNS3, ...

Brug BackTrack, se evt. youtube videoer om programmerne

Quote fra Jurassic Park `http://www.youtube.com/watch?v=dFUlAQZB9Ng`

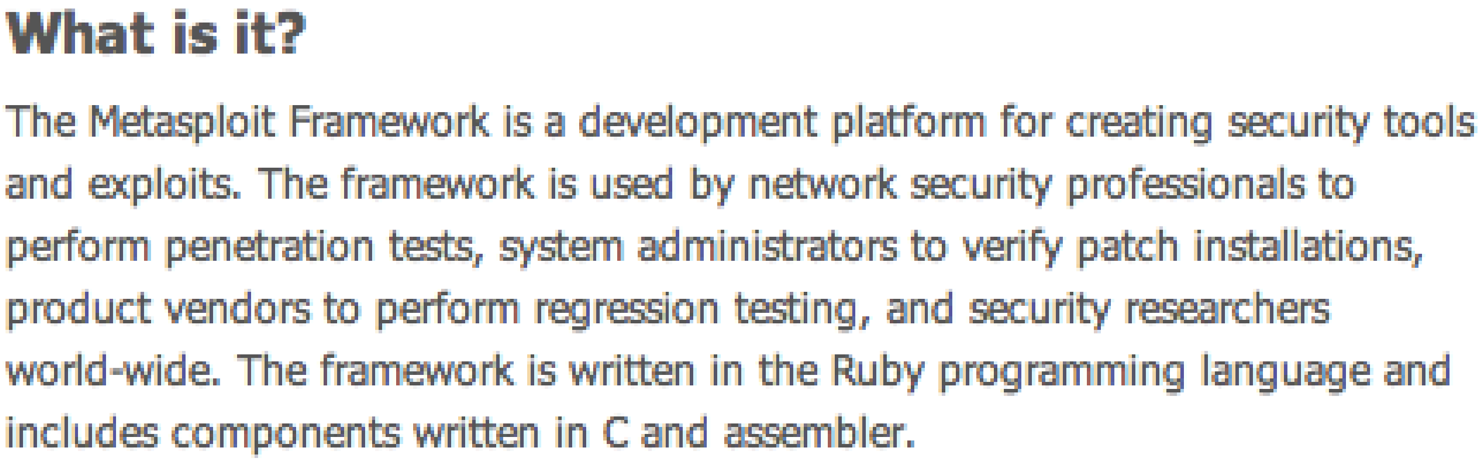
Hackerværktøjer

- Nmap, Nping - tester porte, godt til firewall admins `http://nmap.org`
- Aircrack-ng `http://www.aircrack-ng.org/`
- Wireshark netværkssniffer - `http://http://www.wireshark.org/`
- Burpsuite `http://portswigger.net/burp/`
- Skipfish `http://code.google.com/p/skipfish/`

Generelt findes der hackerværktøjer indenfor alle nicheområder!

Listen over de mest anvendte hacker tools `http://sectools.org/`

Metasploit and Armitage Still rocking the internet



What is it?

The Metasploit Framework is a development platform for creating security tools and exploits. The framework is used by network security professionals to perform penetration tests, system administrators to verify patch installations, product vendors to perform regression testing, and security researchers world-wide. The framework is written in the Ruby programming language and includes components written in C and assembler.

`http://www.metasploit.com/`

Armitage GUI fast and easy hacking for Metasploit
`http://www.fastandeasyhacking.com/`

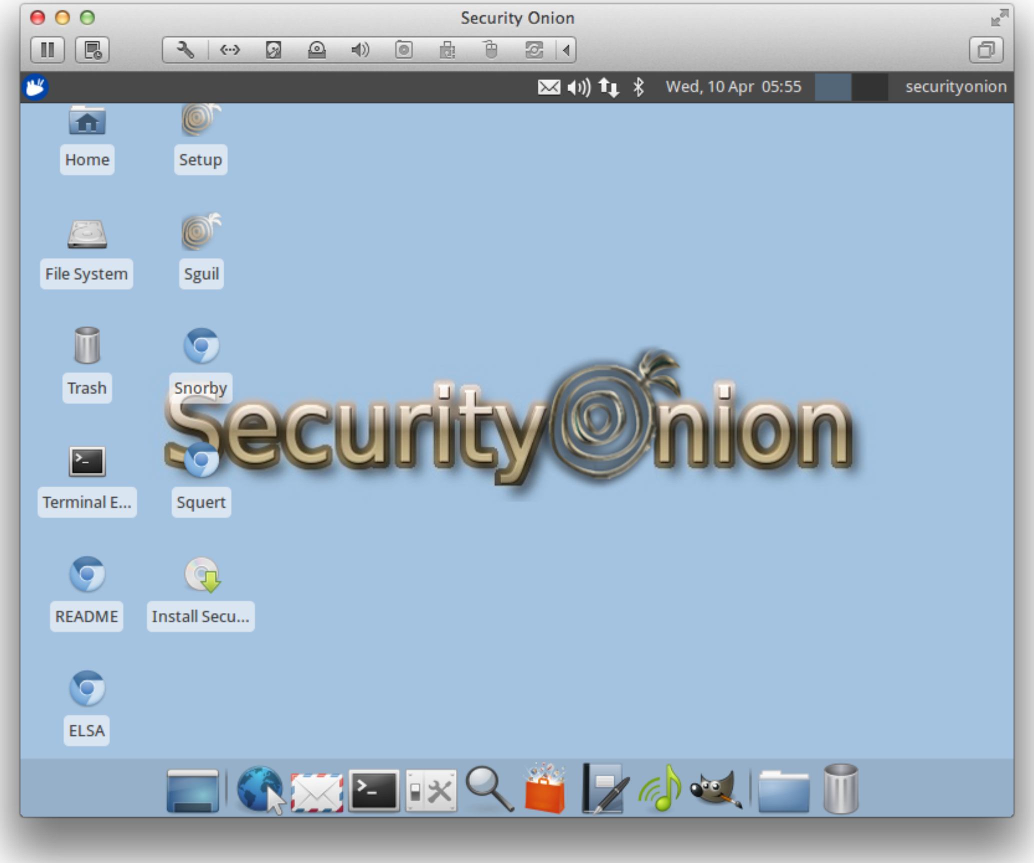
Kursus Metasploit Unleashed
`http://www.offensive-security.com/metasploit-unleashed/Main_Page`

Bog: Metasploit: The Penetration Tester's Guide, No Starch Press
ISBN-10: 159327288X

Demo, snak, visning, surfing

hackertools, step by step instruktioner, Kali Linux demo osv.

Security Onion



securityonion.blogspot.dk

BRO IDS

The Bro Network Security Monitor

Bro is a powerful network analysis framework that is much different from the typical IDS you may know.

While focusing on network security monitoring, Bro provides a comprehensive platform for more general network traffic analysis as well. Well grounded in more than 15 years of research, Bro has successfully bridged the traditional gap between academia and operations since its inception.

`http://www.bro.org/`

BRO more than an IDS

> The key point that helped me understand was the explanation that Bro is a domain-specific language for networking applications and that Bro-IDS (http://bro-ids.org/) is an application written with Bro.

Why I think you should try Bro

`https://isc.sans.edu/diary.html?storyid=15259`

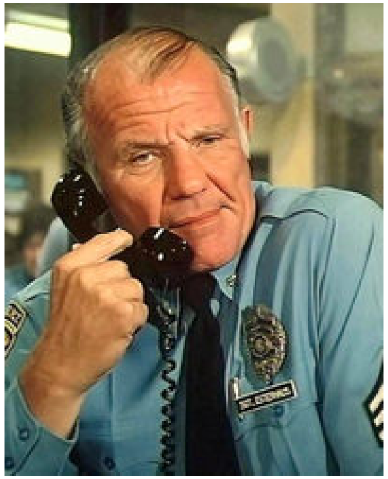
Bro scripts

```
global dns_A_reply_count=0;
global dns_AAAA_reply_count=0;
...
event dns_A_reply(c: connection, msg: dns_msg, ans: dns_answer, a: addr)
{
++dns_A_reply_count;
}

event dns_AAAA_reply(c: connection, msg: dns_msg, ans: dns_answer, a: addr)
{
++dns_AAAA_reply_count;
}
```

source: dns-fire-count.bro from
`https://github.com/LiamRandall/bro-scripts/tree/master/fire-script`

Be careful - spørgsmål?

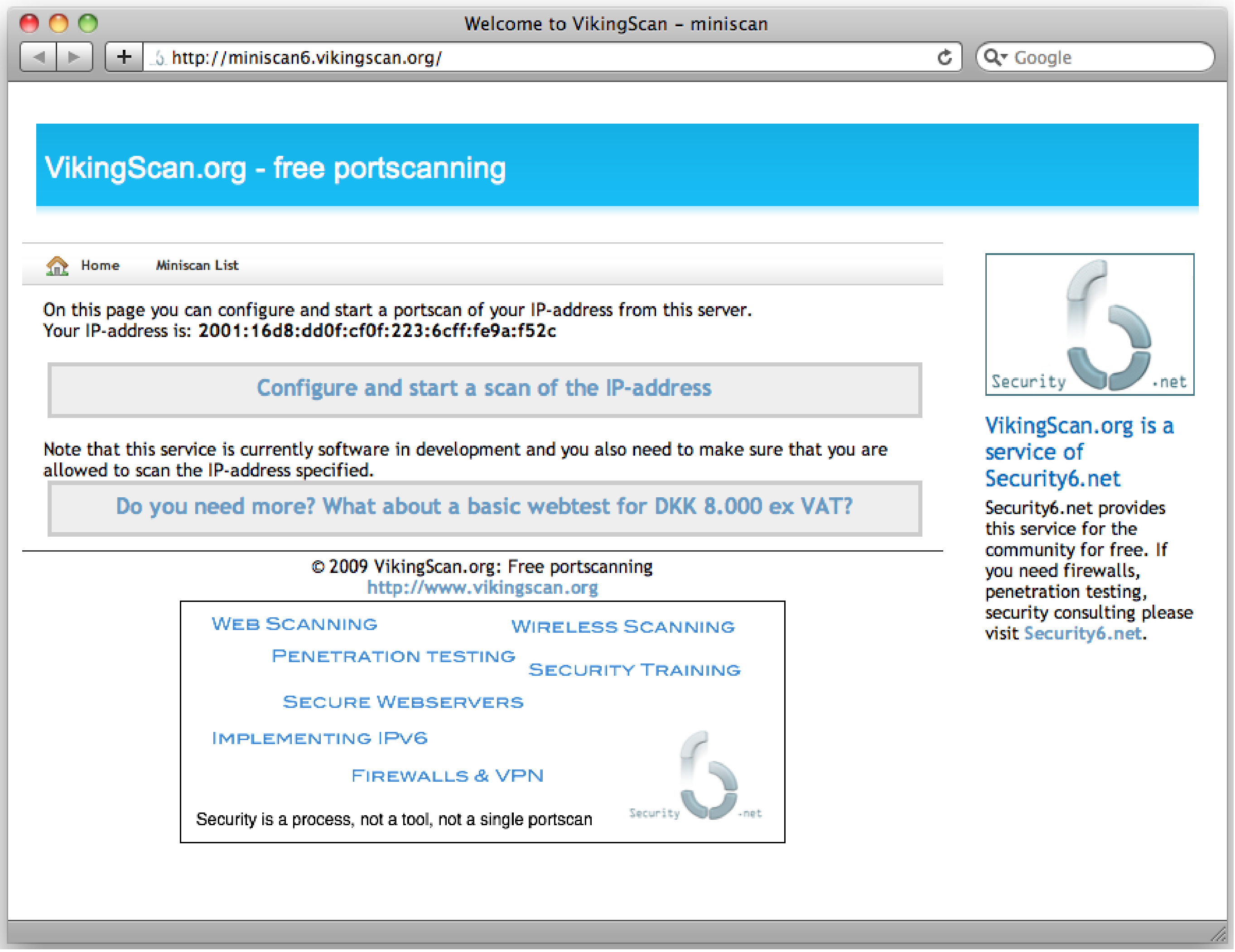


Hey, Lets be careful out there!

Henrik Lund Kramshøj, internet samurai
hlk@solido.net

Billede: Michael Conrad `http://www.hillstreetblues.tv/`

VikingScan.org - free portscanning



Welcome to VikingScan – miniscan
http://miniscan6.vikingscan.org/
Google

VikingScan.org - free portscanning

On this page you can configure and start a portscan of your IP-address from this server.
Your IP-address is: **2001:16d8:dd0f:cf0f:223:6cff:fe9a:f52c**

Configure and start a scan of the IP-address

Note that this service is currently software in development and you also need to make sure that you are allowed to scan the IP-address specified.

Do you need more? What about a basic webtest for DKK 8.000 ex VAT?

© 2009 VikingScan.org: Free portscanning
http://www.vikingscan.org

Security is a process, not a tool, not a single portscan

VikingScan.org is a service of Security6.net

Security6.net provides this service for the community for free. If you need firewalls, penetration testing, security consulting please visit Security6.net.