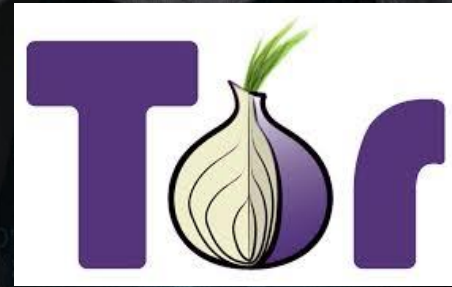


Ekosystém Darknetu - obsah

- Anonymizační síť
- Tor
- Hidden Services
- Black Markets
- De-anonymizace v síti Tor
- Krádeže Bitcoinů
- Tor & Bitcoin aféry

Anonymizační sítě

- Tor (The Onion Router)
- I2P (Invisible Internet Project)
- Freenet



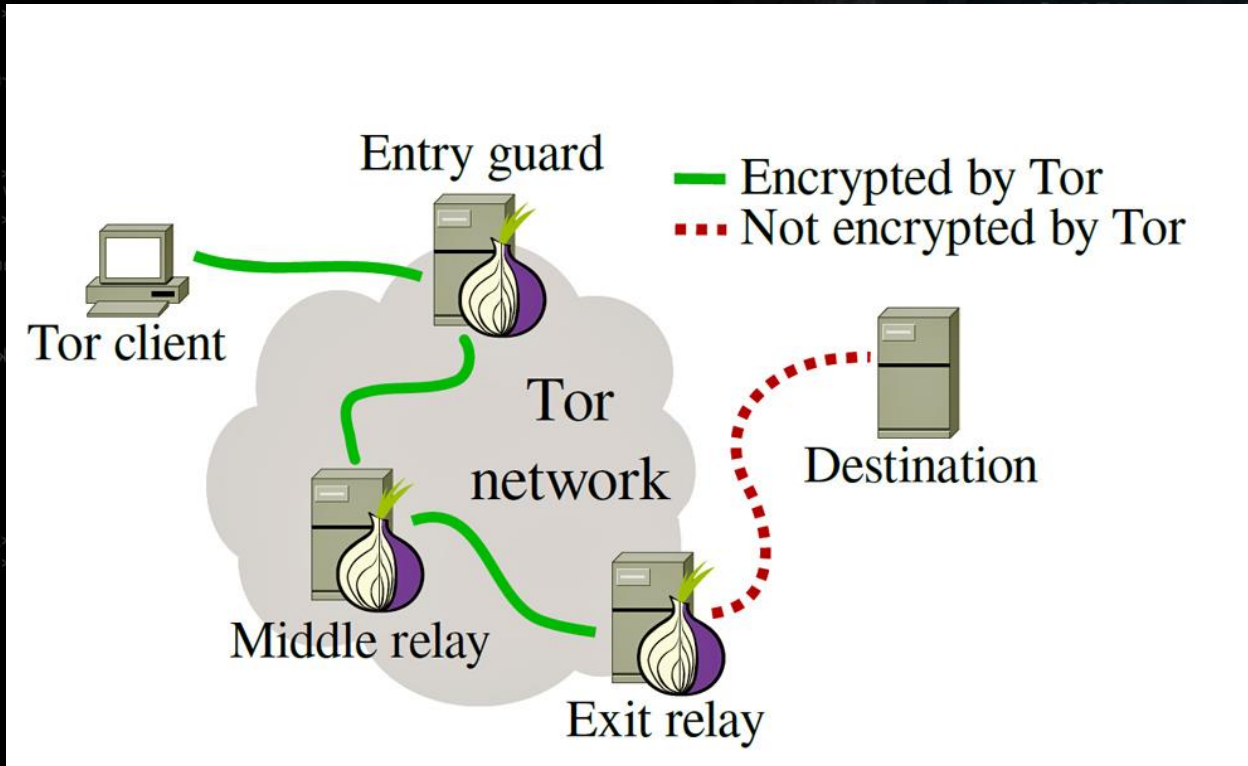
Typy sítí z pohledy anonymity

- **Cleartnet (Internet)**
 - <http://justhack.net/>
 - <https://darkode.com/>
- **Darknet**
 - Silk Road
 - Freedom Hosting
- **Deepnet**
 - Invite Only Boards

The Onion Router

- Anonymizační šifrovaná síť
- entry/relay/exit node
- Seznam exit uzlů
 - <https://check.torproject.org/cgi-bin/TorBulkExitList.py>
- Tor Browser Bundle vs. Daemon
- Konzument vs. poskytovatel obsahu
 - Hidden Services

Struktura sítě Tor



Hidden Services

- Webový server
 - LAMP
 - VPS/Raspberry Pi
- Domény
 - <http://32rfckwuorlf4dlv.onion/>
 - <http://silkroad6ownowfk.onion/> (onioncat)

Hidden Services - konfigurace

- `/var/lib/tor/hidden_service/hostname`
- `/var/lib/tor/hidden_service/private_key`
- `/etc/tor/torrc`

```
HiddenServiceDir /var/lib/tor/hidden_service/  
HiddenServicePort 80 127.0.0.1:80
```


Hidden Services - služby

- **Katalogy**

- Onion Url Repository

- <http://32rfckwuorlf4dlv.onion/>

Onion Url Repository



Onion Anonymity



F R E E D O M - O F - S P E E C H
O N I O N - R O U T I N G
A N O N Y M I T Y - O N L I N E

Onion Url Repository

Links about or that promote: narcotics, racism and criminal activities generally will be removed. (Number of hits within parentheses)

General onion urls

Pofees - Free porn site (7160)	iPhone 6 Store (1074)	BadUSB exploit (869)
cPal (635)	USStakeIDs (426)	UK Passports (413)
USD Counterfeits (550)	Apples4Bitcoin (238)	USA Citizenship (421)
Pent-a-hacker (793)	FAKE EUJO HQER (457)	Onion Identity Services (311)
NLGrowers (329)	UK Guns and Ammo (745)	Kamagra for Bitcoins (178)
DeDope (281)	Brainmagic (495)	BiPharma (237)
OnionWallet (285)	CannabisUK (420)	PeoplesDrugStore (372)
OnionDir (850)	OnionList (1176)	EasyCoin Wallet (144)
benhack (1457)	toristore (652)	BTctoPP (291)
	PGPmail PGP-noutra... (605)	Agora (15633)
	Bitcoin Anonymity (1065)	The Fappingen (9881)
		DOUBLE YOUR BITCOINS! (1661)
		EuroGuns (2609)
		Mobile Store (1850)
		Onion Wallet (696)
		Bitcoin Fog (607)
		AppleTor (1800)
		Bitcoin Gym (1423)
		PolitiBet 2016 (1513)
		BcMixme (1091)
		Onion-Pastebin (7482)
		WorldMarket (5207)
		Darknet Marketplaces

Wiki Cards (1874)

Smokeables (2109)	EuCanna (1014)
Pent-A-Hacker (2453)	Kamagra (Viagra) (1325)
The Hidden Wiki (NO CP) (3646)	EasyCoin (917)
DOUBLE YOUR BTC (1465)	Bitcoin Blender (597)
Core Media Press (1465)	Apple Discount Store (2528)
The Pot Shop (3574)	Jailbait Pictures a... (31864)
CleanCoin darknet (1704)	Agora (3080)
Dream Market (7384)	BITSAFE (1120)
Onion Service (3811)	TCM (1720)
WorlMarket (2919)	Moneypak Exchange (2364)
	CCforever- CC good q...

Number of visitors

Today	314
Yesterday	682

Latest: Onion urls

- CommunityX Recruitment Center
 - SwissShop
 - Help the Islamic State

Latest: Forum posts

[Want to learn to pro... \(1\)](#)
by inognito
Oct.19.14 07:45:28

[Odd request. \(1\)](#)
by inognito
Oct.19.14 07:41:48

[Looking for hackers... \(7\)](#)
by tazor
Oct.18.14 17:23:48

Main Menu

Onion Url Repository
The Anonymity Forum
About this webpage
About Onion routing
Search this website
About Tor Network
About .onion TLD
Login/Register

How to use?

Client side
Client check

Hidden Services - služby

- Vyhledávače
 - Grams
 - <http://grams7enufi7jmdl.onion/>

Grams

[Home](#) [InfoDesk](#) [Helix](#) [Login](#)

Grams

"The only way to deal with an unfree world is to become so absolutely free that your very existence is an act of rebellion."



Grams Search

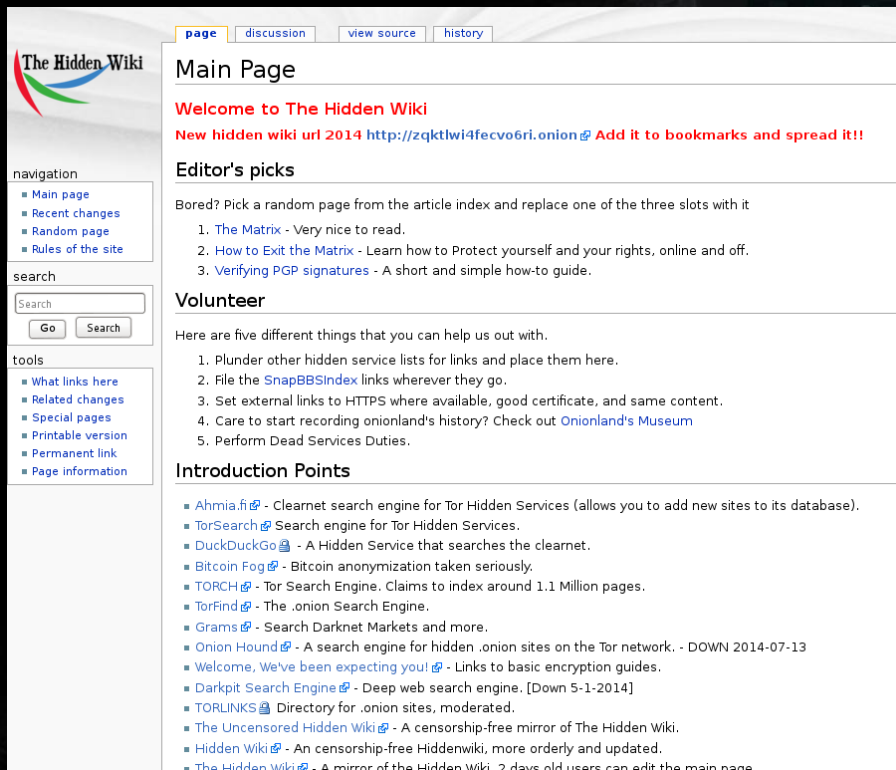
I'm Feeling Lucky



Hidden Services - služby

- Hidden Wiki
 - The Hidden Wiki
 - <http://zqctlwi4fecvo6ri.onion/>
 - <http://kpvz7kpmcmne52qf.onion/>

Hidden Wiki #1



The screenshot shows the main page of The Hidden Wiki. At the top, there are navigation tabs for 'page', 'discussion', 'view source', and 'history'. The page title is 'Main Page'. Below the title, there is a red banner with the text 'Welcome to The Hidden Wiki' and a link to a new hidden wiki url: 'http://zqkltwi4fecn06ri.onion'. Below this, there is a section for 'Editor's picks' with a list of three items: 'The Matrix', 'How to Exit the Matrix', and 'Verifying PGP signatures'. The next section is 'Volunteer', which lists five ways to help out, including plundering other hidden service lists, filing SnapBBS index links, setting external links to HTTPS, recording onionland's history, and performing dead services duties. The final section is 'Introduction Points', which lists various search engines and directories for hidden services, such as Ahmia.fi, TorSearch, DuckDuckGo, Bitcoin Fog, TORCH, TorFind, Grams, Onion Hound, Welcome, We've been expecting you!, Darkpit Search Engine, TORLINKS, The Uncensored Hidden Wiki, and Hidden Wiki.

[page](#) [discussion](#) [view source](#) [history](#)

Main Page

Welcome to The Hidden Wiki
New hidden wiki url 2014 <http://zqkltwi4fecn06ri.onion> [Add it to bookmarks and spread it!](#)

Editor's picks

Bored? Pick a random page from the article index and replace one of the three slots with it

1. [The Matrix](#) - Very nice to read.
2. [How to Exit the Matrix](#) - Learn how to Protect yourself and your rights, online and off.
3. [Verifying PGP signatures](#) - A short and simple how-to guide.

Volunteer

Here are five different things that you can help us out with.

1. Plunder other hidden service lists for links and place them here.
2. File the [SnapBBS index](#) links wherever they go.
3. Set external links to HTTPS where available, good certificate, and same content.
4. Care to start recording onionland's history? Check out [Onionland's Museum](#)
5. Perform Dead Services Duties.

Introduction Points

- [Ahmia.fi](#) - Cleantnet search engine for Tor Hidden Services (allows you to add new sites to its database).
- [TorSearch](#) Search engine for Tor Hidden Services.
- [DuckDuckGo](#) - A Hidden Service that searches the cleantnet.
- [Bitcoin Fog](#) - Bitcoin anonymization taken seriously.
- [TORCH](#) - Tor Search Engine. Claims to index around 1.1 Million pages.
- [TorFind](#) - The .onion Search Engine.
- [Grams](#) - Search Darknet Markets and more.
- [Onion Hound](#) - A search engine for hidden .onion sites on the Tor network. - DOWN 2014-07-13
- [Welcome, We've been expecting you!](#) - Links to basic encryption guides.
- [Darkpit Search Engine](#) - Deep web search engine. [Down 5-1-2014]
- [TORLINKS](#) Directory for .onion sites, moderated.
- [The Uncensored Hidden Wiki](#) - A censorship-free mirror of The Hidden Wiki.
- [Hidden Wiki](#) - An censorship-free Hiddenwiki, more orderly and updated.
- [The Hidden Wiki](#) - A mirror of the Hidden Wiki, 2 days old users can edit the main page.

Hidden Wiki #2

- [Welcome, We've been expecting you!](#) - Links to basic encryption guides.
- [AnonMail](#) - Anonymous premium email service like lavabit. (Not free).
- [Onion Mail](#) - SMTP/IMAP/POP3. ***@onionmail.in address.

Financial Services

Currencies, banks, money markets, clearing houses, exchangers.

- [\[VERIFIED\] WeBuyBitcoins](#) - Sell your Bitcoins for Cash (USD), ACH, WU/MG, LR, PayPal and more.
- [The Green Machine!](#) Forum type marketplace with some of the oldest and most experienced vendors around. Get your paypals, CCs, etc, here!
- [GreenPaper Counterfeiters](#) Highest Quality USD and EUR Counterfeits on the market. Trusted and reputable vendor.
- [\[SCAM\] WeBuyBitcoins](#) - Sell your Bitcoins for Cash (USD), ACH, WU/MG, PayPal and more.
- [\[VERIFIED\] btc-e.com](#) - Clearnet link for buying and selling bitcoins.
- [The PaypalDome](#) Live Paypal accounts with good balances - buy some, and fix your financial situation for awhile.
- [Bitply!](#) Multiply your Bitcoins through Bitcoin Malleability exploit!
- [\[VERIFIED\] Tor Carders Market](#) - Automated bitcoin marketplace of credit cards, dumps, and fullz from around the world.
- [MoneyMarket!](#) MoneyMarket has returned! VCC's, Real Credit Cards and Counterfeit money... Also portal to MoneyForum!
- [\[CAUTION\] Fake Real Plastic](#) - Credit Card vendor sharing my work for a reasonable price.
- [\[VERIFIED\] Localbitcoins.com](#) - Clearnet link for buying and selling bitcoins locally.
- [Counterfeit_Currency](#) Built to perfection currency. Euro and USD.
- [\[SCAM\] Rachels Credit Cards](#) - Stolen data on real cards.
- [Bitcoin Smoke](#) 0.5% fee Bitcoin Laundry Service on a dedicated server!
- [YaayPal](#) - Paypal accounts vendor. Sell for 8% of balance. Includes SOCKS5 and cashout method. Automated and livechat trades.
- [Double your Bitcoins](#) - Service that doubles your Bitcoins.
- [Wall Street Tor](#) - Paypal accounts, credit cards, we have everything!!
- [\[SCAM\] BestPal](#) BestPal is your Best Pal, if you need money fast. Sells stolen PP accounts.
- [\[SCAM\] Cards and Cards](#) CC AutoShop with up to 10% discount for bulk purchases!
- [\[VERIFIED\] \\$ec\\$erv\\$olutions](#) - Automated WW CC&CV2 info selling service
- [EasyCoin](#) - Bitcoin Wallet with free Bitcoin Mixer.
- [\[SCAM\] \\$ec\\$erv\\$olutions](#) - Automated Paypal and CC selling store. Lowest prices!
- [OnionWallet](#) - Anonymous Bitcoin Wallet and Bitcoin Laundry.
- [Clean My Coins](#) - Clean your coins before and after every transaction with Bitcoin! 0.2% fixed fee.
- [LARGE LAUNDRY](#) - Bitcoin mixing service specializing in large amounts (> 10 BTC) of Bitcoins. Uses advanced "Dynamic Mixing" process.
- [\[SCAM\] HQER](#) - High quality euro bills replicas / counterfeits.
- [\[SCAM\] CC Planet](#) - Best AutoShop for Credit Card mostly EU and US. New stocks, several sellers with automated Bitcoin system
- [Stolen Paypal Accounts](#) - Verified paypal accounts for sale.
- [USD Counterfeits](#) - High quality USD counterfeits.
- [\[SCAM\] SOL's Euro Counterfeits](#) - 50€ Counterfeit notes. Quality + Best Prices.

Hidden Services - služby

- **Freemail**
 - TorBox
 - <http://torbox3uiot6wchz.onion/>

TorBox

[TorBox] torbox3uiot6wchz.onion

[Welcome](#)[FAQ](#)[Relay](#)[Sign Up](#)[Webmail Login](#)[Account Login](#)[Cambiar a Español](#)

Welcome to TorBox.

This is a hidden mailbox service only accessible from TOR. There is no connection between TorBox and the public internet: All the messages are sent and received within TorBox.

Just [sign up](#) for a new TorBox and start sending and receiving email within TOR.

TorBox

| Unbeatable Mailbox service in TOR

| torbox3uiot6wchz.onion



AEC

DATA SECURITY

Hidden Services - služby

- Freehosting
 - Freedom Hosting II
 - <http://fhostingeps6bly.onion/>

Freedom Hosting II

[Sign Up](#) | [Log In](#)

Freedom Hosting II

Anonymous Freehosting with PHP/MySQL Support @ [fhostingesps6bly.onion](#)

- Free of charge
- PHP 5
- MySQL 5
- SQLite support
- FTP Access
- SFTP Access
- 100 MB HDD quota
- 1 MySQL database
- Unlimited traffic
- Custom or generated .onion domain
- Fast network with 24/7 uptime
- No e-mail or personal data required to sign up
- No JavaScript required to sign up or sign in
- Export of the attached .onion domain with private key
- No IP logging or user tracking
- High-Level security
- Instant wipe button

We do not give permission for upload of any illegal files. If you choose to do so anyway, we are not responsible for your actions.

Custom plans and pricing available upon request.

If you have any pre-sales or support related requests you may contact us via *TorChat* for assistance.

TorChat: [jrl7hxrzcr2yojqo](#)

Please support us:

Bitcoin: [1QJyndkpaUvUFi4dTXYLsVDW3eDUR5mjw8](#)

Litecoin: [LdpVGYFs7dtMBHezRhWC4nXsSdcQz2pLvx](#)

2014 Freedom Hosting II @ [fhostingesps6bly.onion](#)

Soom!

AEC
DATA SECURITY

Hidden Services - služby

- Webhosting
- VPS/Shells
- Image Hosting
- File Sharing
- IRC
- Dětské porno (CP)
- Black Markets
- ...

Black Markets

- Silk Road 2.0
 - <http://silkroad6ownowfk.onion/>
- Pandora
 - <http://pandorajodqp5zrr.onion/>
- Agora
 - <http://agorahooawayyfoe.onion/>
- Carders Market
 - <http://carding2bil6j7ja.onion/>

Black Markets - zboží

- Drogy a zakázaná léčiva
- Čísla kreditních karet (cc)
- Zakázaná pyrotechnika, literatura
- Služby (hacking)
- Kradená elektronika
- Zbraně
- Falešné doklady, bankovky
- Nájemná vražda
- ...

Black Markets – systém důvěry

- Hodnocení uživatelů
- Escrow systém
- Finalize early (FE)
- Nedůvěryhodný inzerát
 - z podstaty věci (hitman)
 - Hidden Wiki „Scam“ tag
 - fotografie produktu

Hodnocení uživatelů



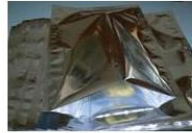
MBB 6cm x 8cm 100 flat foil pouches

£0.077639

ships from: United Kingdom
ships to: Worldwide

★★★★☆ (16)

sold by PlutoPete **93**



Moisture Proof Mylar Bags (MBB) All shapes and sizes (NAME BRAND 3M)

£0.000268

ships from: Undeclared
ships to: Undeclared

★★★★☆ (13)

sold by SatoshiShop **92**



MBB 8cm x 12cm 100 Flat Foil Pouches

£0.142059

ships from: United Kingdom
ships to: Worldwide

★★★★☆ (10)

sold by PlutoPete **93**



MBB 10cm x 15cm 100 Flat Foil Pouches

£0.172532

ships from: United Kingdom
ships to: Worldwide

★★★★☆ (11)

sold by PlutoPete **93**



100pcs empty capsules size 00 Great to pack powdered drugs;)

£0.015519

★★★★☆ (8)

Black Markets – fotografie produktů



Black Markets - objednávka

- Produkt
- Množství
- Příplatek za Tracking number
- Sklad
- Jméno + adresa, resp. PM
- Komunikace pomocí PM (Private Message)

Black Markets - Adresa

- Anonymní P.O.Box
- Opuštěná stavba s číslem popisným
- Balík na poštu
- Internetové kavárny

Black Markets - Platba

- Bitcoin
- Webmoney
- Perfectmoney
- Systémy bez Money Back Guarantee

Black Markets - Packaging

- **Obal**
 - Vakuové sáčky
 - Alobal
 - Mylar fólie (MBB)
 - Knihy/časopisy
 - Systém dvojitého dna
- **Balíček nedošel**
 - Scam
 - Nevhodně zvolený obal – neprošel přes celnici

Zadržaná zásilka

Deutsche Post | letter | item status - Iceweasel

File Edit View History Bookmarks Tools Help

Deutsche Post | letter ...

https://www.deutschepost.de/sendung/simpleQueryResult.html

Suche

SHIPMENT TRACKING **Single inquiry** Business customer International investigation request

Result:

Shipment number	Item status
RG795118046DE	The item was scanned in the country of destination Czech Rep at May 2, 2014.

New inquiry

The item was scanned in the country of destination Czech Rep at May 2, 2014

Let us help you:

Customer service BRIEF Domestic registered and COD items national: 0228 4333113 Mon.-Fri.: 8:00 a.m. - 6:00 p.m. *	Customer service BRIEF International: 0228 4333118 Mon.-Fri.: 8:00 a.m. - 6:00 p.m. *	Business customer service BRIEF: (Postident and Postzustellungsauftrag) 01806 555555 Mon.-Sat.: 7:00 a.m. - 8:00 p.m. **
---	--	---

De-anonymizace v síti Tor

- De-anonymizace konzumentů služeb
- De-anonymizace provozovatelů služeb
- Hledání Deepnet služeb

De-anonymizace konzumentů služeb

- Zastaralý Tor Bundle Browser
 - Exploit
 - JavaScript (standardně povolen)
- Čas operačního systému návštěvníka (JS)
- Locales
 - Accept-Language: cs
- Poslat odkaz na URL v Clearnetu
- Poslat odkaz na PDF/Word dokument

Out of Date Tor Bundle Browser

About Tor – Tor Browser


File Edit View History Bookmarks Tools Help

About Tor

about:tor

Startpage

Tor Browser
3.6.6-Linux



Congratulations!

This browser is configured to use Tor.

[Test Tor Network Settings](#)

HOWEVER, this browser is out of date.

Click on the onion and then choose [Download Tor Browser Bundle Update](#).

Search securely with Startpage.

What Next?

Tor is NOT all you need to browse anonymously! You may need to change some of your browsing habits to ensure your identity stays safe.

[Tips On Staying Anonymous »](#)

You Can Help!

There are many ways you can help make the Tor Network: faster and stronger.

- [Run a Tor Relay Node »](#)
- [Volunteer Your Services »](#)
- [Make a Donation »](#)

The Tor Project is a US 501(c)(3) non-profit dedicated to the research, development, and education of online anonymity and privacy. [Learn more about The Tor Project »](#)

MS Word – IP Disclosure

- Vytvořit dokument se zajímavým textem
- Dokument uložit jako HTML stránku
- Vložit na konec dokumentu element s ext. Zdrojem

```

```

- Změna přípony z .html na .doc(x)
- Funguje i v OpenOffice a LibereOffice
- MS Office 2010/2013 používá jádro IE 7

De-anonymizace provozovatelů HS

- Poslat přes PM odkaz na URL v Clearnetu
- PDF/Word IP Disclosure
- Rogue Tor Nodes
- Hacking

De-anonymizace - Hacking

- hostname -l
- curl ipecho.net/plain
 - iptables
- Exploit na aplikační vybavení
- Module server-status
 - date/time
 - návštěvnost
 - skrytá administrační rozhraní
 - krádeže BTC (session token v URL)

Hledání Deepnet služeb

- Webhosting
 - PHP funkce *posix_getpwnuid()*
 - Přístup k shellu přes PHP „exec“ funkce
 - mod_perl, mod_python
 - MySQL

```
LOAD DATA LOCAL INFILE '/etc/passwd' INTO TABLE test;
```

Hledání Deepnet služeb

- VPS/Shells
 - Exploitace
 - Logování historie
 - /etc/passwd

Krádeže bitcoinů

- Module server-status
- wallet.dat (private/public key)
- Private Key = number
 - 256 bit unsigned integer (32 bytes)
 - 1157920892373161954235709850086879078532699846656
40564039457584007913129639936 (10^{77})
- Brain Wallet
 - brainwallet.org
 - blockchain.info

Brain Wallet – bitcoind/bitcoin-cli

```
bitcoin-cli getbalance
```

```
# 0.00000000
```

```
bitcoin-cli importprivkey 5JdeQ39z8NUkNVvB37tt74Cu2WSNVj7qb9PdY651UoQnqyCm937
```

```
bitcoin-cli importprivkey 5JcHF3GtHTXHm2VVLyevaBYmp1MLEmrhQu4hL4gaPpXWxaQrJsa
```

```
bitcoin-cli importprivkey 5JXvHQfGHxUffo8BLRG1RBecRCZ2Jygtx5cNSiZoyk5Zcmhsdso
```

```
bitcoin-cli importprivkey ...
```

```
bitcoin-cli getbalance
```

```
# 0.61120000
```

```
bitcoin-cli sendtoaddress <attacker_btc_addres> <amount>
```

Praní špinavých Bitcoinů

- Všechny Bitcoinové transakce veřejné
 - <https://blockchain.info/>
- Mixing Service
 - <https://bitmixer.io/>
- Směňárny
 - BTC to USD
 - BTC to EUR

Tor & Bitcoin aféry

▪ Silk Road

- Spuštěna roku 2011
- Vypnuta FBI roku 2013
- Zakladatel Ross William Ulbricht aka „Dread Pirate Roberts“ (29 let, San Francisco)
- Obviněn z praní špinavých peněz, obchodu s narkotiky, hackingu a objednání nájemných vražd
- V roce 2013 původní admini zakládají Silk Road 2.0
- Captcha



Tor & Bitcoin aféry

- Freedom Hosting
 - Spuštěn roku 2011
 - Vypnut FBI roku 2013
 - Zakladatel Eric Eoin Marques (28 let, Irsko)
 - Zanikla ½ všech Hidden Services v síti Tor
 - V roce 2014 spuštěn Freedom Hosting II



Tor & Bitcoin aféry

- Sheep Marketplace
 - Spuštěn 2013
 - Provoz ukončen koncem téhož roku
 - Zakladatelem Čech Tomáš Jiříkovský aka Sheep
 - Odcizeno 5 400 BTC (~ 100 mil Korun)
 - Trestně stíhán
 - Webhosting snekweb.cz (Šnekweb)



Tor & Bitcoin aféry

- bitcash.cz
 - Provozovatelem Karel Minx aka Carlos
 - Fake e-mail koncem roku 2013
 - Odcizeny BTC v hodnotě 3,4 mil Kč
 - Závěr



De-anonymizační útok v Tor

- Největší dosud známý útok na anonymitu v Tor
- Od 30. ledna 2014 do 4. července 2014
- Přidáno 115 „zlých“ relay uzlů (6,4 %)
- Confirmation Attack & Sybila Attack
- Zaměřeno na de-anonymizaci Hidden Services
- Doporučen přesun HS na nové IP



```
<div class="container">  
<header class="header">  
<div class="culture">  
<div class="zone">  
<article class="widget-header">  
  
<strong><a href="/RM/Local">  
</strong></div>  
</div>  
</div>  
<div class="citation">  
"Pokud nezáš nepřítel ani záš"  
</div>  
<a class="opas-link">  
<div class="title">  
<span class="date">  
</span>  
<a class="hackerlink">  
</a>  
</div>  
</header>  
<div class="navbar">  
<div class="bomb">  
<div class="countdown">  
</div>  
<div class="navbar-inner">  
<div class="container">  
<button type="button">  
<span class="icon">  
<span class="icon">
```

