

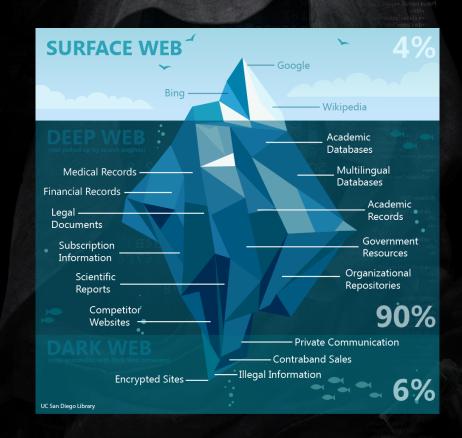
Content

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- Tor News in 2018
 - Next Gen Onion Services
 - Tor Browser for Android
- Statistics
- Vulnerabilities
- Seizure & Conviction
- Popular Hidden Services
- DEMO: Tor Real Hacking



Terminology

- Clearnet/Surface web
 - https://www.google.com/
 - http://crdclub.su/
- Darkweb (Darknet)
 - Hidden Wiki
 - Silk Road
- Deepweb
 - Invite Only Sites



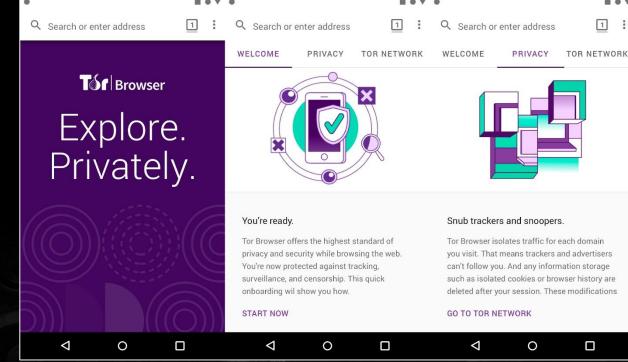
Next Gen Onion Services aka prop224

- Better crypto
- Improved directory protocol
- Better onion address security against impersonation
- More extensible introduction/rendezvous protocol
- A cleaner and more modular codebase
- Onion v3 Addresses
 - 56 characters long

vww6ybal4bd7szmgncyruucpgfkqahzddi37ktceo3ah7ngmcopnpyyd.onion

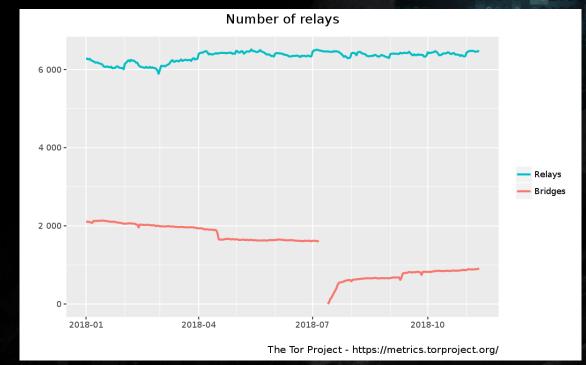
Tor Browser for Android

- Google Play (Alpha)
 https://play.google.com/store/apps/details?id=org.torproject.torbrowser_alpha
- Alternatives
 - Orfox (don't use anymore)
 - Onion Browser (iOS)

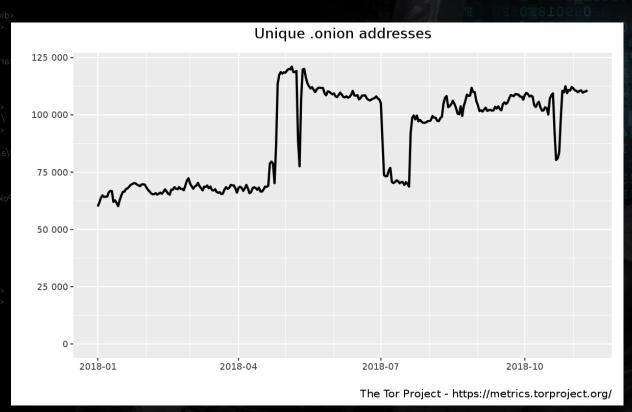


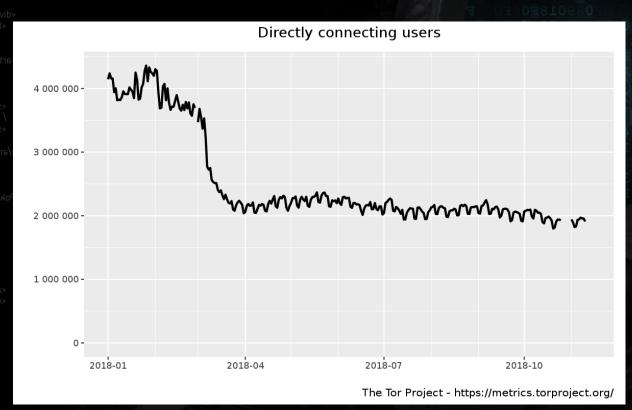
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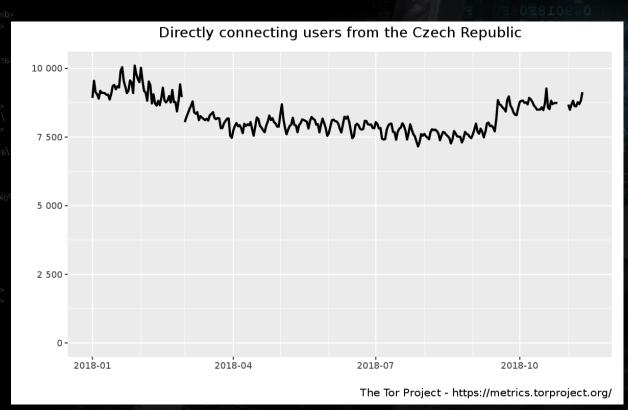
- Atlas List of relays
 - https://atlas.torproject.org/



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Top 10 countries by relay users in 2018

Germany 466948 (18.68 %)

- USA 403368 (16.14 %)

- UAE 292873 (11.72 %)

- Russia 250015 (10.00 %)

- France 102353 (4.10 %)

Ukraine98135 (3.93 %)

Indonesia 83692 (3.35 %)

- UK 63145 (2.53 %)

Netherlands 55173 (2.21 %)

- India 43275 (1.73 %)



Vulnerabilities

- Tor Browser 0-Day Exploit
 - version 7.x
 - vulnerability in the NoScript plugin
 - JavaScript execution in Safest Security Level
 - Tor users deanonymization
 - patched in the latest branch 8.x

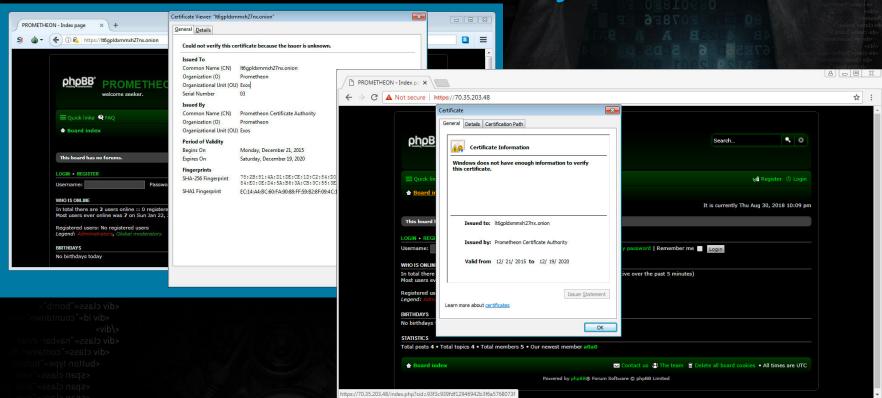
https://twitter.com/Zerodium/status/1039127214602641409

Vulnerabilities

- Guard Discovery
 - the most serious threat of the v3 onion services
 - lots of relays under the attacker control required
 - Hidden Services & Tor users deanonymization
 - Patched through the Vanguards Add-On
 - not a part of the Tor core yet

https://blog.torproject.org/announcing-vanguards-add-onion-services

SSL Certificate Deanonymization



Vulnerabilities

- SSL Certificate Deanonymization
 - Use Shodan
- DigiCert.com issues trusted .onion certs
- SSL certs are redundant in Tor

https://twitter.com/ydklijnsma/status/1025796349541769217

Seizure & Conviction

- No significant Hidden Service seized
- Conviction
 - Gary Davis (Irish)
 - Silk Road admin
 - Pleaded guilty to drug trafficking (up to 20 years)
 - Gal Vallerius (French)
 - Dream Market admin
 - Pleaded guilty to drug trafficking/launder money (20 years)

- Dream Market
 - http://uffti3lhacanefgy.onion/
 - Black Market
 - online from November 2013

Dream Market

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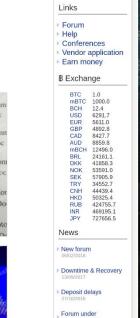
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Logout

- The Hidden Wiki
 - http://zqktlwi4fecvo6ri.onion/
 - Directory of Links

The Hidden Wiki



Search Go Search

tools

- What links here Related changes
- Special pages
- Printable version
- Permanent link
- Page information

Main Page

Welcome to The Hidden Wiki New hidden wiki url 2018 http://zqktlwi4fecvo6ri.onion @ Add it to bookmarks and spread it!!!!

Editor's picks

Pick a random page from the article index and replace one of these slots with it:

1. The Matrix - Very nice to read.

discussion

- 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.
- In Praise Of Hawala Anonymous informal value transfer system.
- 5. Terrific Strategies To Apply A Social media Marketing Approach Great tips for the internet marketer.

Volunteer

Here are the six different things that you can help us out with:

- 1. Plunder other hidden service lists for links and place them here!
- 2. File the SnapBBSIndex 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.
- Remove CP shitness.

Introduction Points

- Ahmia.fi 🗗 Clearnet search engine for Tor Hidden Services.
- DuckDuckGo A Hidden Service that searches the clearnet.
- Torlinks 🗹 TorLinks is a moderated replacement for The Hidden Wiki
- Torch Tor Search Engine. Claims to index around 1.1 Million pages.
- The Hidden Wiki 🗗 A mirror of the Hidden Wiki, 2 days old users can edit the main page.

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- 13 H/P/A/W/V/C
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- 15 Video Movies / TV
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 - 20.2 Finnish / Suomi
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 - 20.5 Greek / ελληνικά

- Ahmia
 - http://msydqstlz2kzerdg.onion/
 - Fulltext Search Engine

Ahmia

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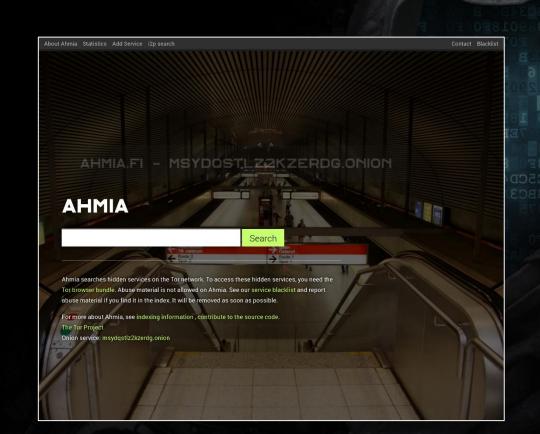
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- ProtonMail
 - https://protonirockerxow.onion/
 - Anonymous Freemail
 - Branch of ProtonMail.com

ProtonMail

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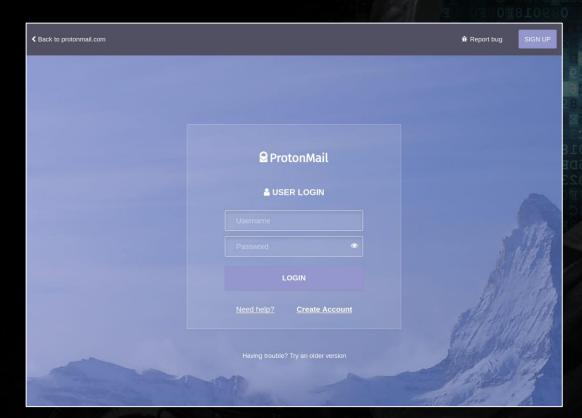
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- Daniel's Hosting
 - http://dhosting4okcs22v.onion/
 - Webhosting
 - Most popular webhosting at the moment
 - 4002 public hosted sites
 - 1604 hidden hosted sites
 - Deepweb
 - Let's hack it ©



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Thank you or your attention!

Any questions?

The Zeitgeist of Darknet

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