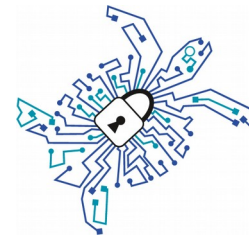
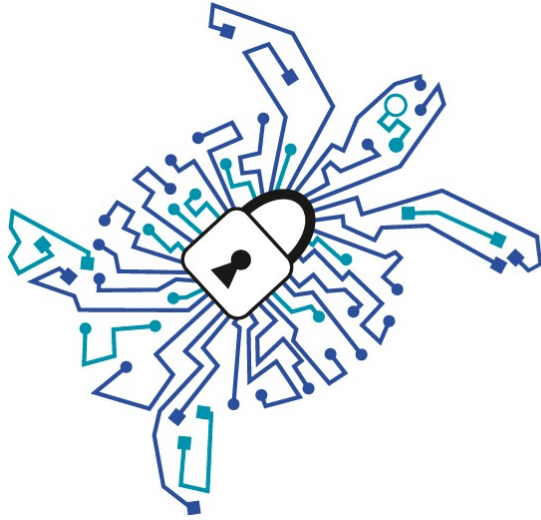


From 0 to Exit

Privacy Week 2018

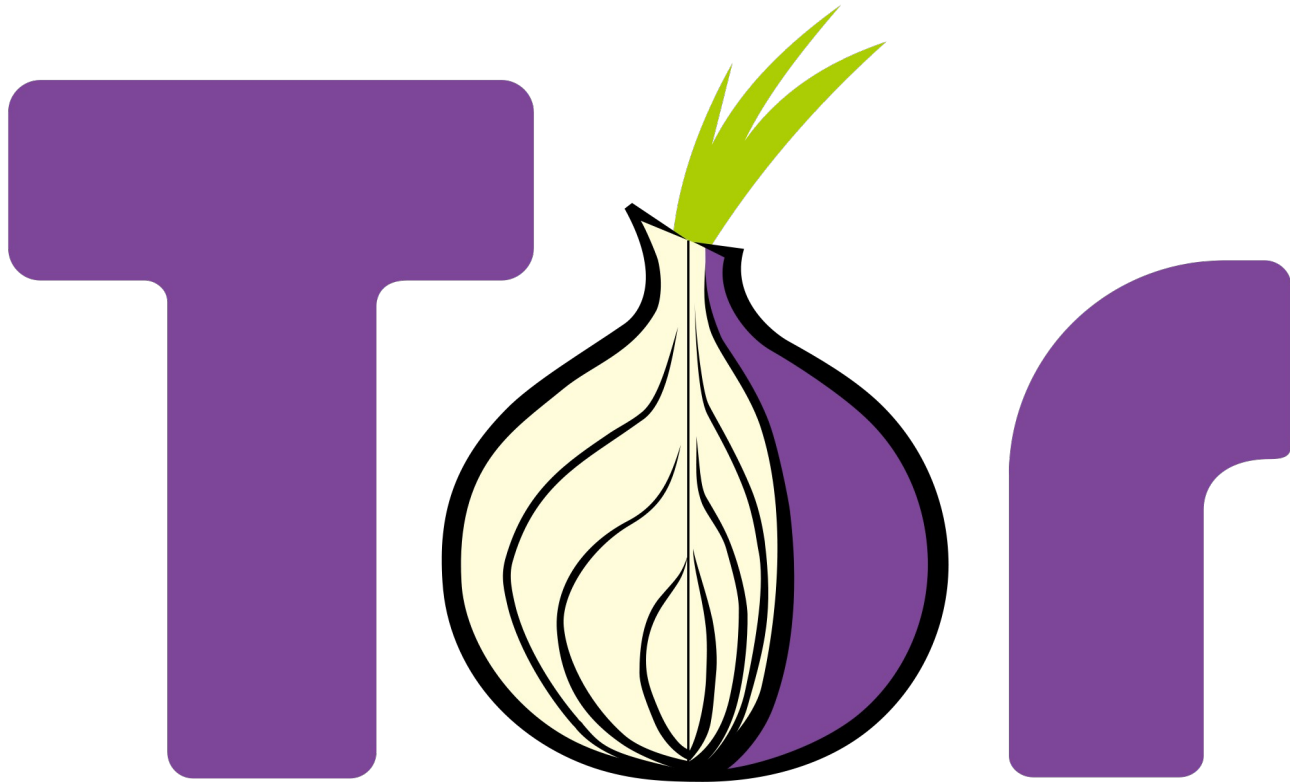


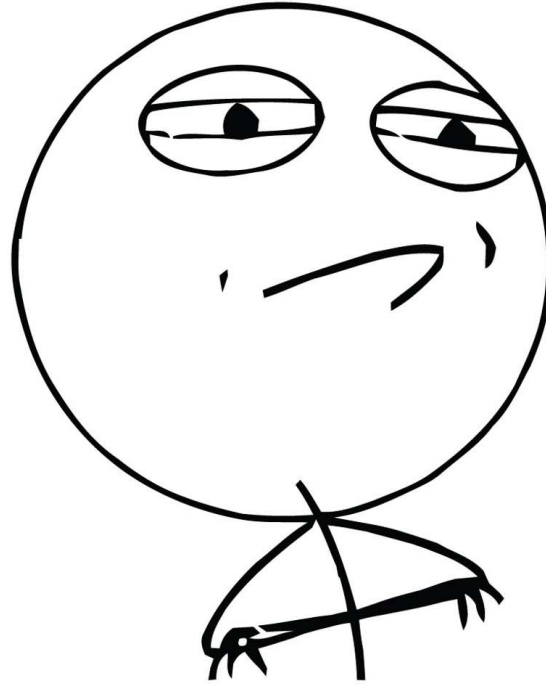
Foundation for
Applied Privacy



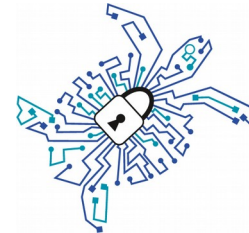
Foundation for Applied Privacy

...ein non-profit Privacy Infrastruktur Betreiber



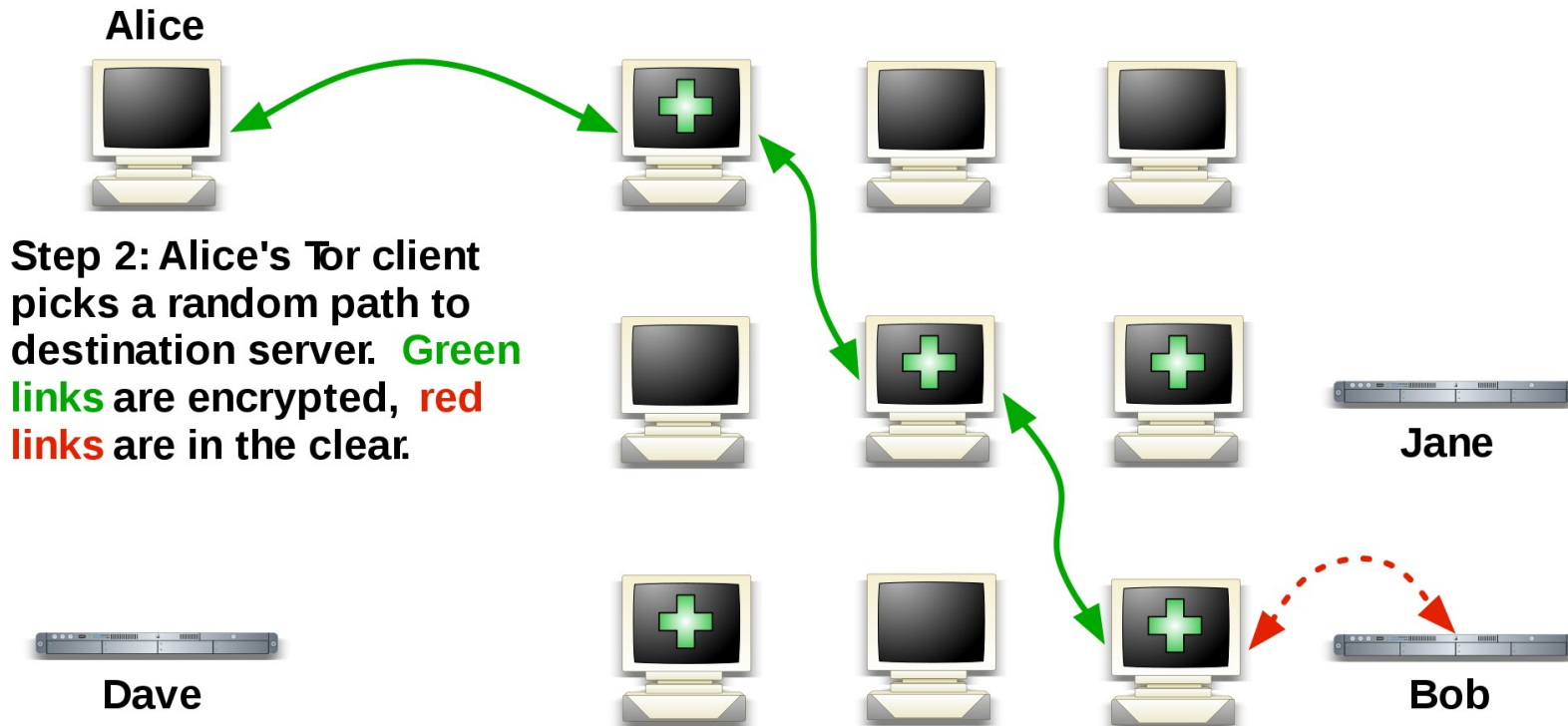


CHALLENGE ACCEPTED



Foundation for
Applied Privacy

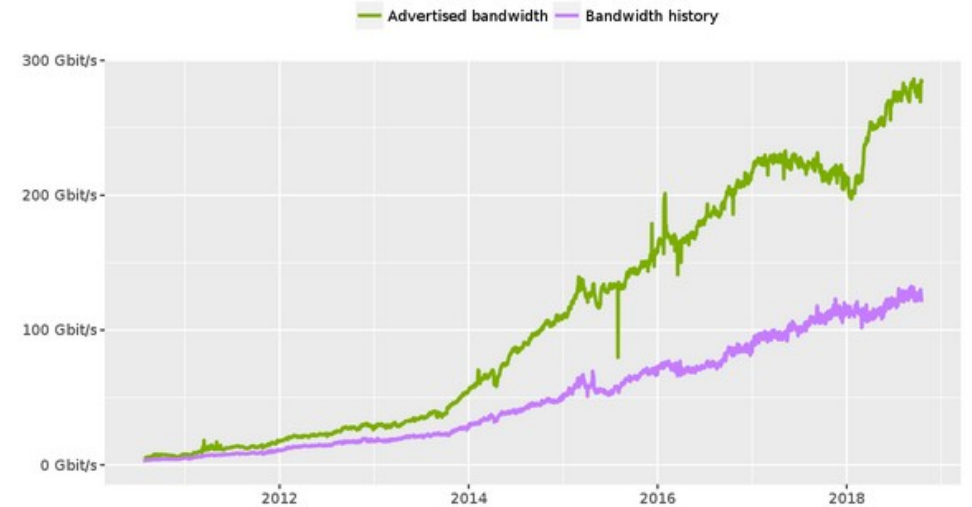
EFF How Tor Works: 2



**2 Millionen
BenutzerInnen**

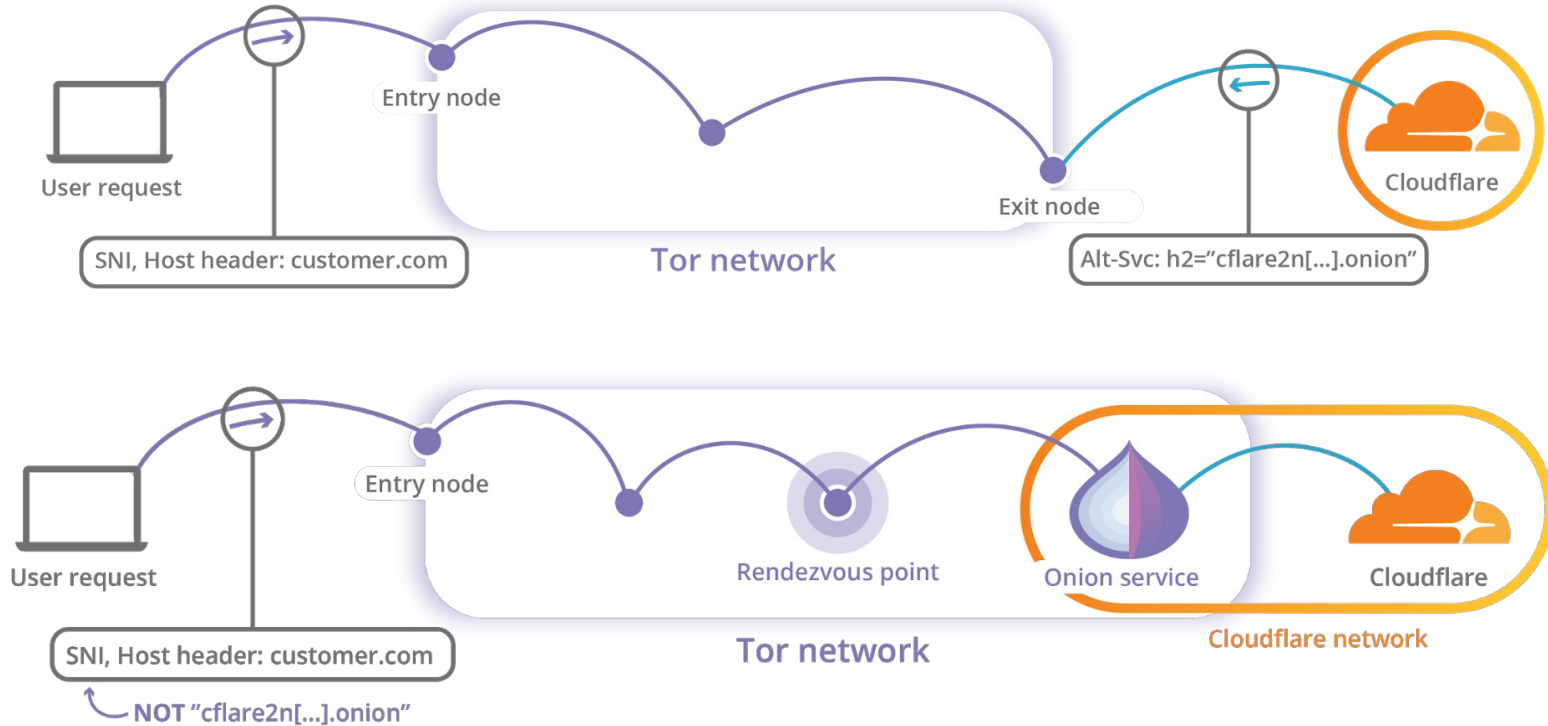


**~300 Gbit/s
Advertised bandwidth**

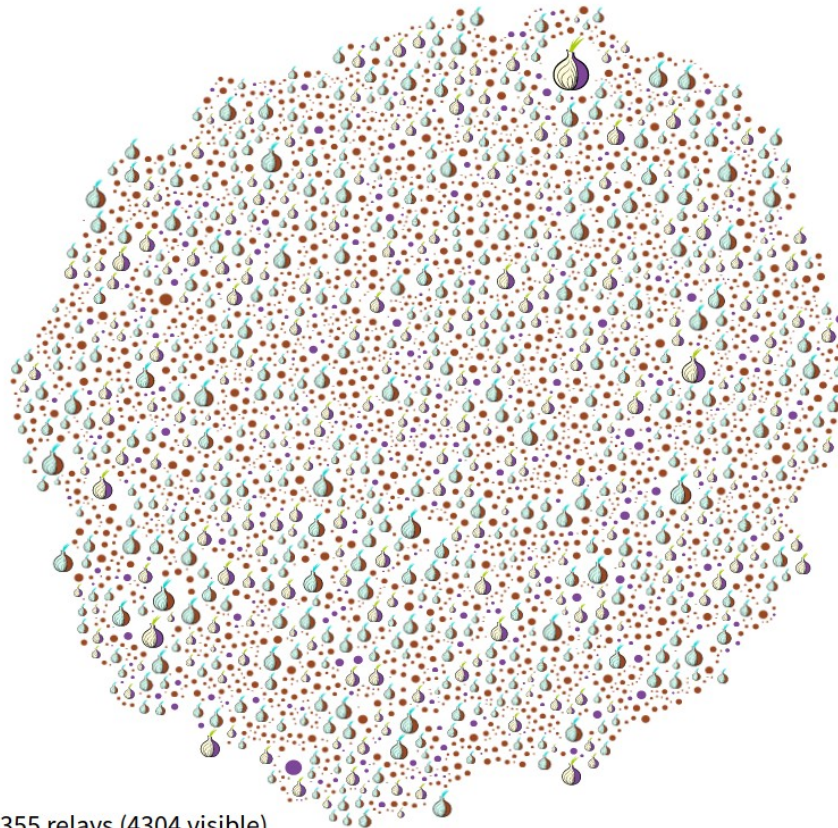


The Tor Project - <https://metrics.torproject.org/>

Cloudflare, mit Zwiebeln

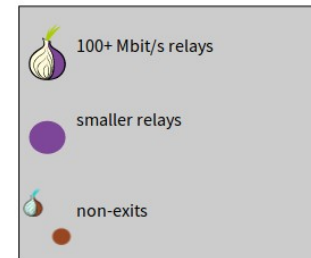


~6000 Tor Relays

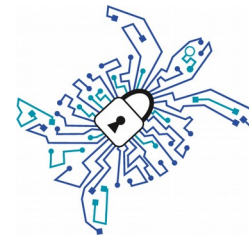


6355 relays (4304 visible)
2018-10-22 13:00:00

Tor Metrics <https://metrics.torproject.org>



Unsere Geschichte



Foundation for
Applied Privacy

Saal 1 10:48

Next talk

11:30
in 42 min

Datenschutz und Mobilität

Werner Illsinger

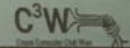


PRIVACYWEEK

PRIVATSPHÄRE IM DIGITALEN ZEITALTER

WIR WÜNSCHEN EUCH EINEN
SCHÖNEN GUTEN MORGEN!

PW17

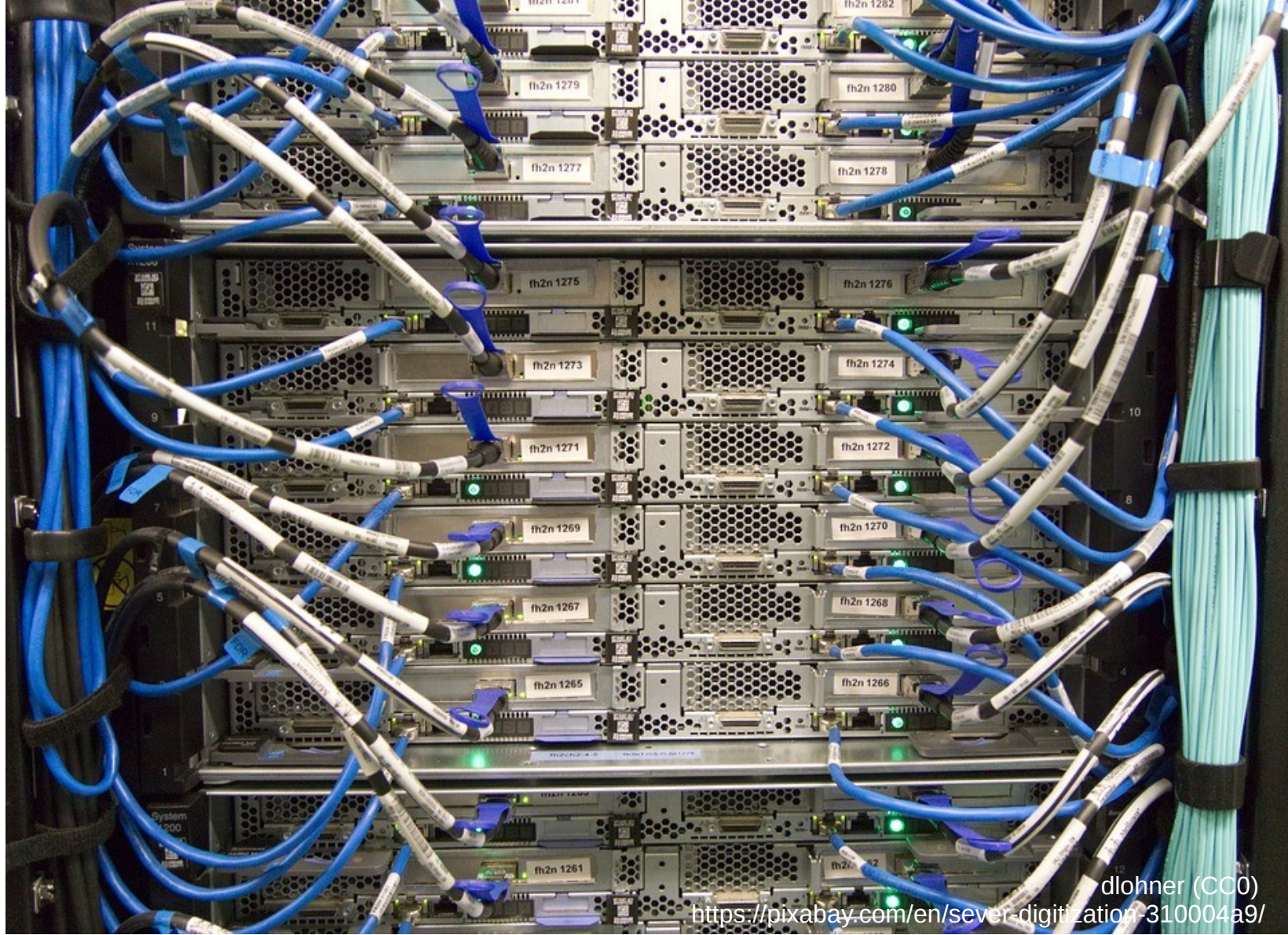


343:

676!







Tor Exit Abuse Handling

- Ticket System
- Initial Auto Reply mit Infos zu Tor

Transparenz

- Whois Eintrag
- Website auf Exit IP
 - ISPA Stopline verlinkt
- Reverse DNS Eintrag
- Abuse Handling



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This is a Tor Exit Router

אמת, זהו יציאת טור, אבל זה לא אומר שאתם יכולים להשתמש בו כדי להסתיר את זהותכם.
it is true that they can use it

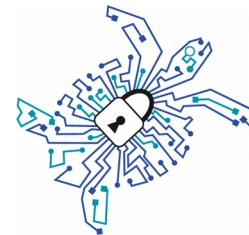


PRIVACYWEEK

PRIVATSPHÄRE IM DIGITALEN ZEITALTER

2018

Unsere Ergebnisse



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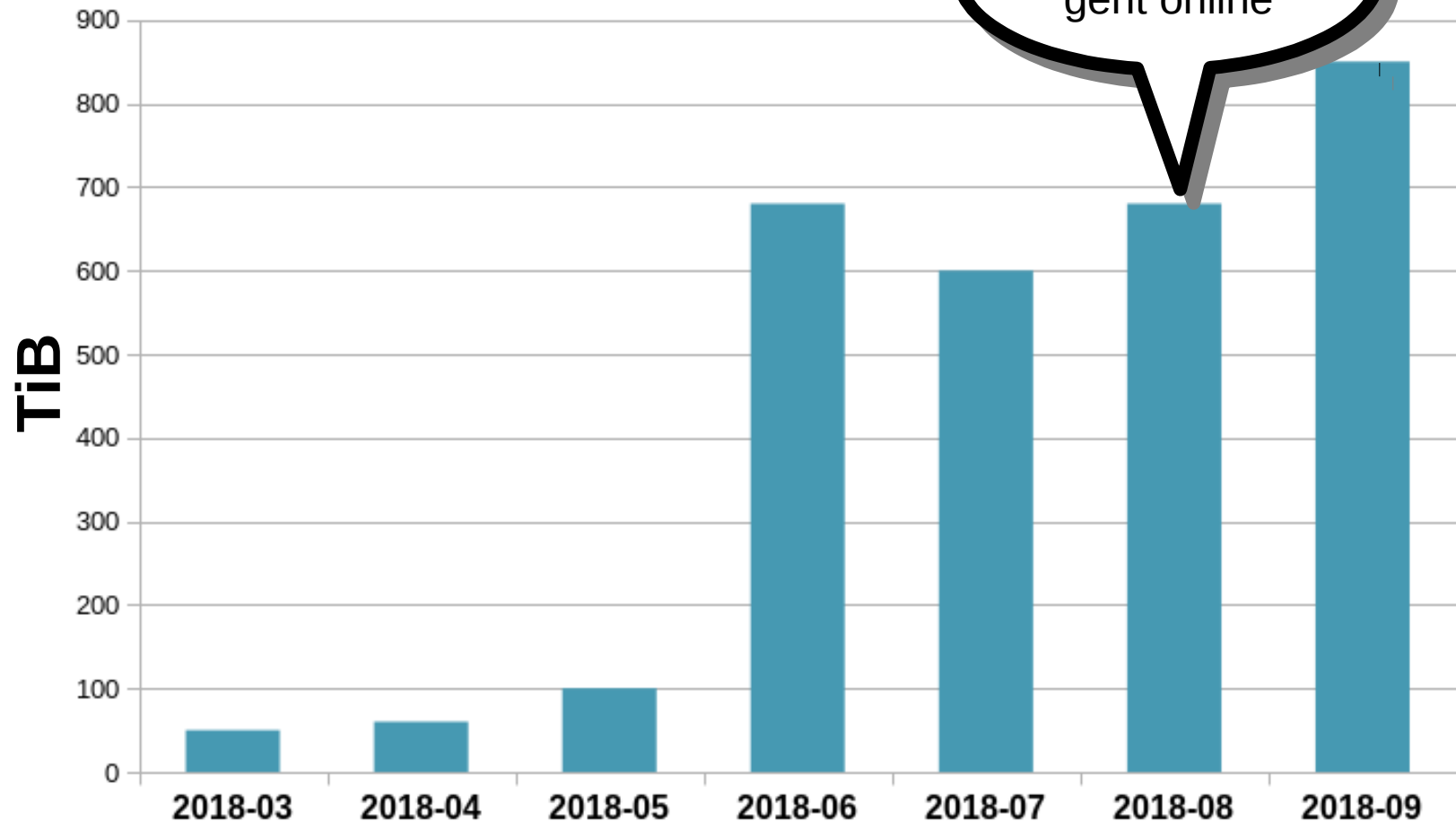


Urheber : W-onroad (CC BY-SA 3.0)
https://de.m.wikipedia.org/wiki/Datei:Hochbeet_holz.jpg

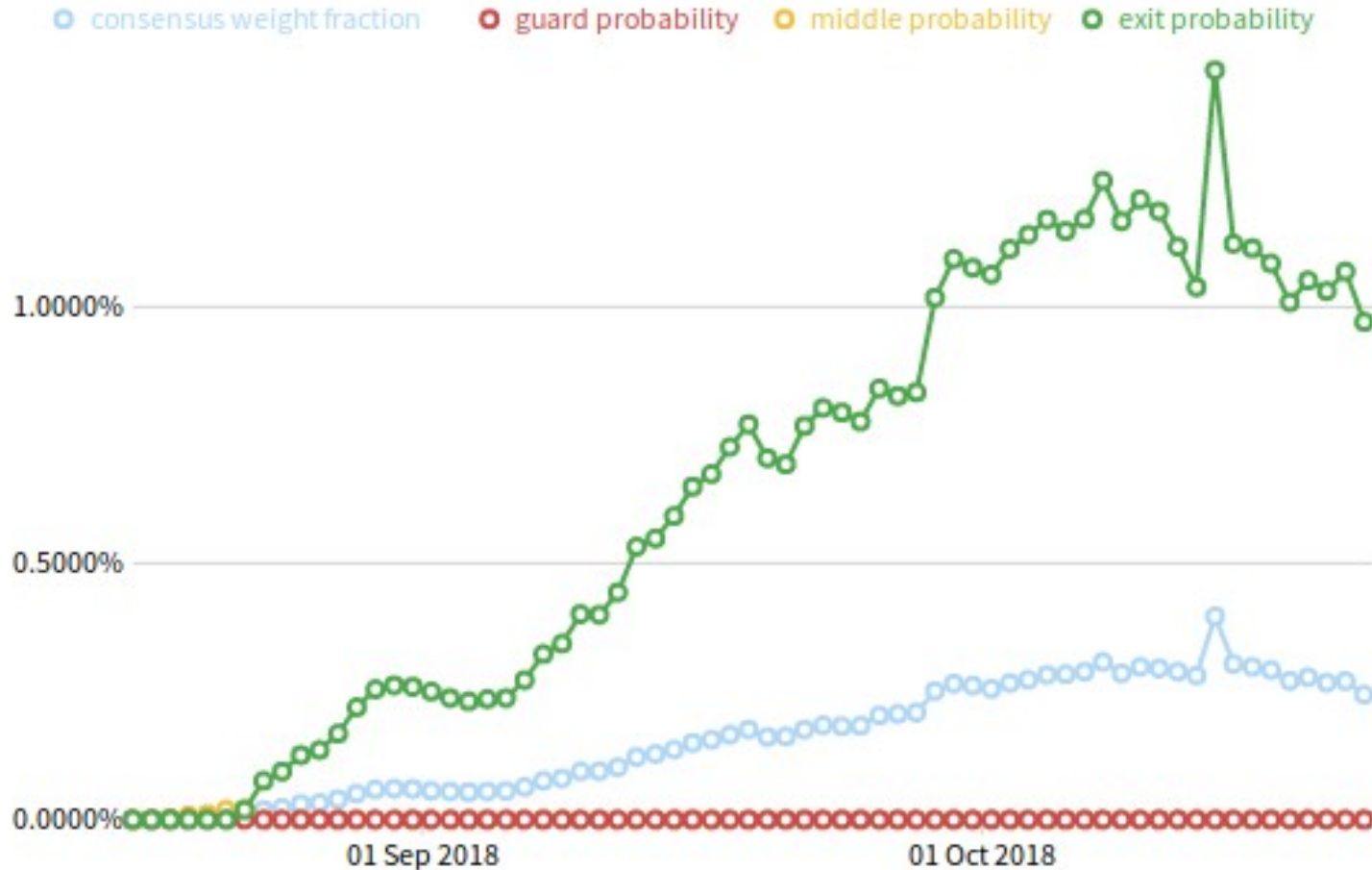
20 Tor Relays - Alles außer Zwiebel

● radieschen (20)	67.82 MiB/s		109.70.100.2	● rucola (20)	17.39 MiB/s		109.70.100.9
● erbse (20)	64.97 MiB/s		109.70.100.3	● zucchini (20)	17.32 MiB/s		109.70.100.6
● karfiol (20)	47.97 MiB/s		109.70.100.11	● kohlrabi (20)	15.5 MiB/s		109.70.100.15
● erdapfel (20)	26.63 MiB/s		109.70.100.5	● broccoli (20)	13.68 MiB/s		109.70.100.16
● gurke (20)	25.81 MiB/s		109.70.100.8	● kaeferbohne (20)	13.45 MiB/s		109.70.100.13
● karotte (20)	22.95 MiB/s		109.70.100.4	● kukuruz (20)	12.99 MiB/s		109.70.100.14
● paradeiser (20)	21.3 MiB/s		109.70.100.7	● steinpilz (20)	11.56 MiB/s		37.252.185.180
● paprika (20)	19.43 MiB/s		109.70.100.17	● eierschwammerl (20)	11.42 MiB/s		37.252.185.87
● sellerie (20)	18.92 MiB/s		109.70.100.10	● parasol (20)	9.68 MiB/s		37.252.185.182
● fenchel (20)	17.63 MiB/s		109.70.100.12	● parasol2 (20)	7.57 MiB/s		37.252.185.182

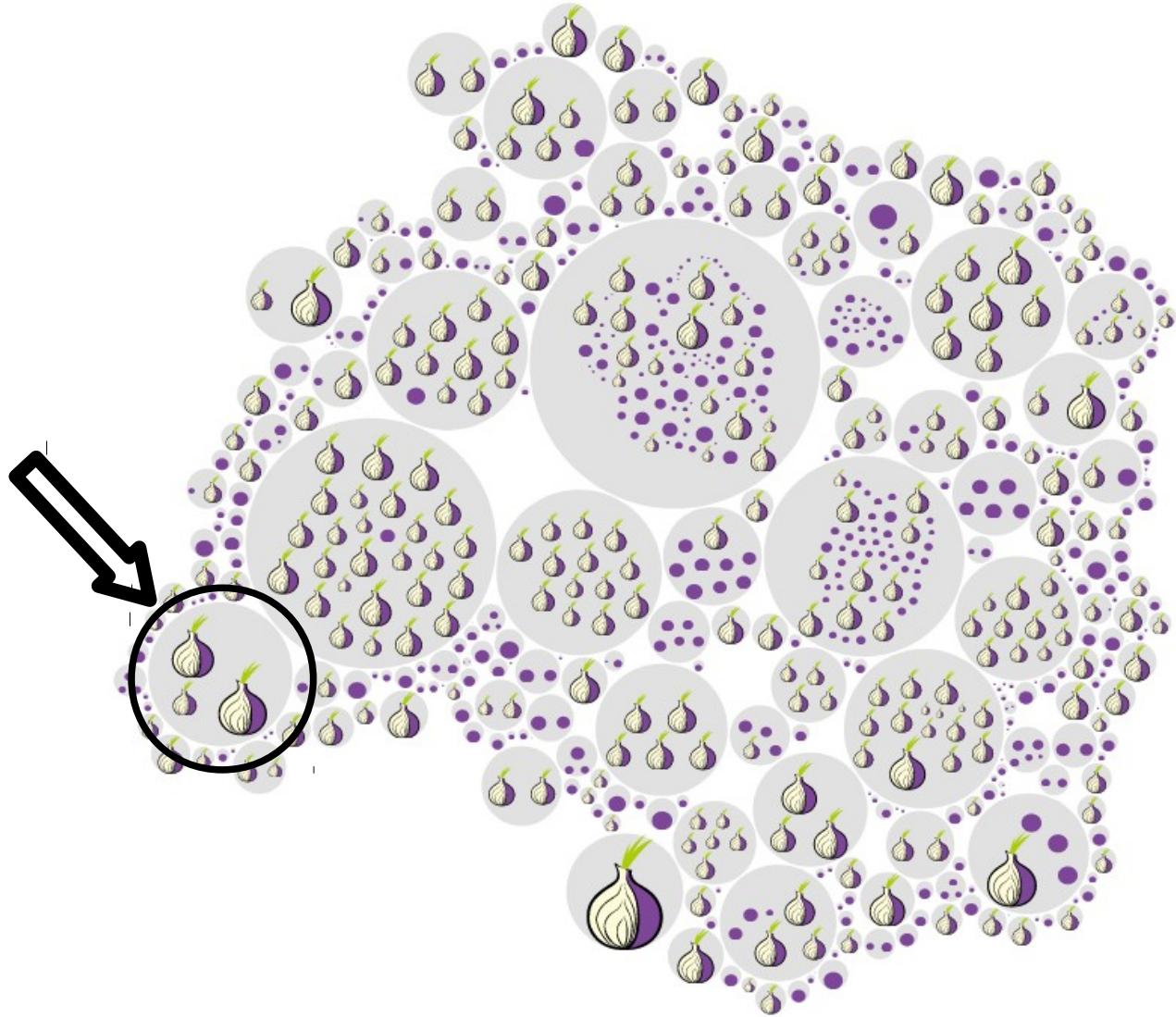
Traffic



Erster Exit Relay: Radieschen



**~1 %
exit
probability**



412 contact infos with 824 exits (716 visible)
2018-10-23 14:00:00

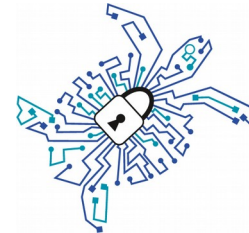
<https://metrics.torproject.org/bubbles.html#contact-exits-only>

Eckdaten

- Größter BSD Tor Relay Betreiber
(~90% des Tor Netzes sind Linux Server)
- Größter Non-Exit Relay Betreiber
- Top10 Exit Relay Betreiber

~ 4 Petabyte Traffic

(01.03.2018 - 24.10.2018)



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Tor Exit Abuse Stats

(1.10.2018 – 23.10.2018)

Automatisiert generierte Emails (zB *fail2ban*): [**27**]

Händisch: [**2**]

Behördenanfragen: [**0**]

~12 TB Exit Traffic / Abuse Mail

Österreich

Country	Consensus Weight	Advertised Bandwidth
 Germany	25.3341%	7804.7 MiB/s
 France	22.2058%	6173.23 MiB/s
 Netherlands	8.8446%	2642.72 MiB/s
 United States	8.4037%	3869.48 MiB/s
 United Kingdom	3.4496%	950.39 MiB/s
 Switzerland	3.3572%	1264.87 MiB/s
 Sweden	3.3166%	1213.74 MiB/s
 Canada	3.2795%	1386.5 MiB/s
 Austria	2.3311%	655.48 MiB/s
 Romania	1.8138%	683 MiB/s
	100.00%	33776.54 MiB/s



#9

Andere Tor Exit Betreiber in Österreich



JOHANNES KEPLER
UNIVERSITY LINZ

● ins0 (1)

21.99 MiB/s 

193.171.202.146

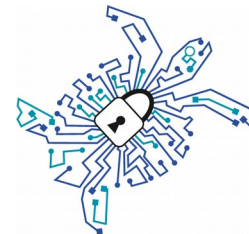


Austrian Privacy Foundation

● merge (1)

1.95 MiB/s 

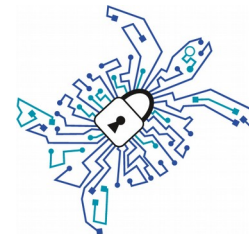
78.41.115.145



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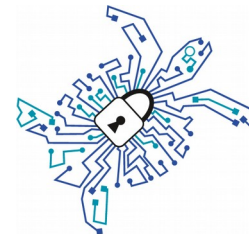
Nächste Schritte

- Tor Relay Betrieb
 - Skalieren
 - Betrieb langfristig aufrecht erhalten
 - Erfahrungen austauschen
 - Weitere Organisationen motivieren
- Aufklärung für Alle!
- Nächstes Ziel: DNS Privacy Dienst
- Weitere Privacy Services...



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Wie ihr uns unterstützen könnt



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Privacy Enhancing Technologies
protect your online privacy



Time to adopt PETs!

Privacy Enhancing Technologies (PETs) help to protect
online privacy following the simple approach "reduce, protect, detect".
The future starts now: make it a habit, adopt PETs.

Quelle: ENISA – European Union Agency for Network and Information Security
<https://www.enisa.europa.eu/topics/data-protection/privacy-enhancing-technologies>

Unterstützung

Mitarbeiten

Kontakte knüpfen

Spendenmöglichkeit

- <https://appliedprivacy.net/de/donate>

<https://appliedprivacy.net>



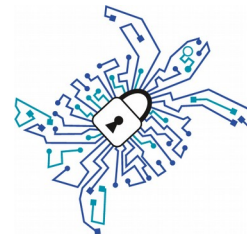
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contact@appliedprivacy.net



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STICKERS!!!!!!11