

What is Internet Filtering?

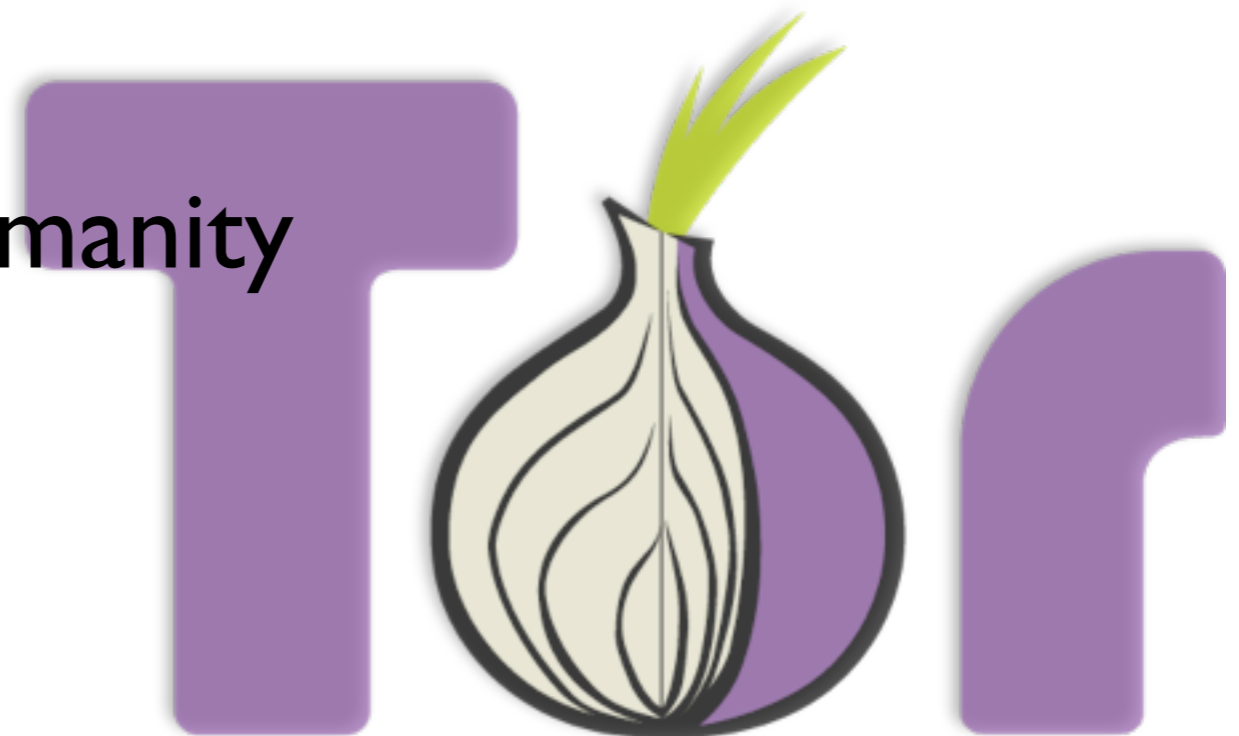
- Is a form of non democratic oppression on people
- It allows those in power to subvert reality

The worst thing
about censorship
is [REDACTED].
[REDACTED].



FilterNet

- It's a distortion of what is in reality the internet.
- Follows the subjectiveness of the authorities
- This does not help humanity



There is no just censorship.

- Internet filtering is happening in China, Iran, Syria, but also in Italy, UK, Netherlands.
- The only solution to what is considered by some wrong information is more information.



خطر!

تصفح بأمان!

عذراً، هذا الموقع غير متاح في دولة الإمارات العربية المتحدة.

تشكل شبكة الإنترنت وسيلة للتواصل والمعرفة وخدمة متطلبات حياتنا اليومية. وقد تم حجب الموقع الذي ترغب بدخوله لاشتماله محتوى مدرج تحت "فئات المحتويات المحظورة" حسب تصنيف "السياسة التنظيمية لإدارة النفاذ للإنترنت" لهيئة تنظيم الاتصالات بدولة الإمارات العربية المتحدة.

إذا كانت لديك وجهة نظر مختلفة، الرجاء [القر هنا](#).

Surf Safely!
This website is not accessible in the UAE.

The Internet is a powerful medium for communication, sharing and serving our daily learning needs. However, the site you are trying to access contains content that is prohibited under the 'Internet Access Management Regulatory Policy' of the Telecommunications Regulatory Authority of the United Arab Emirates.

If you believe the website you are trying to access does not contain any such content, please [click here](#).

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يالله بالستر...!

خدمة متطلبات بدخوله لاشتماله " حسب تصنيف تنظيم الاتصالات

Surf Safe
This website is

The Internet is a p serving our daily le access contains cor



Your request was denied because of its cont

9:28 AM

Site Blocke... x

على اللوائح والقوانين مع unblock.kw@kw.zain

http://torproject

Site Blocked

eb site has been blocked for violating tions and laws of Kingdom of Bahrain.

نواين في مملكه

believe the requested page should be blocked please [click here](#).

حجب تفصل [بالضغط](#)

Notice...

تم حظر هذا الموقع بسبب احتوائه على محتويات تعارض مع قوانين السلطنة. عليه يرجى تعبئة الاستمارة أدناه اذا كنت تعتقد بان الموقع لا يتضمن أي من هذه المحتويات.

This site has been blocked due to content that is contrary to the laws of the Sultanate. if you believe that the website you are trying to access does not contain any such content, please fill in and submit the form below:

WebSite*

Email Address*

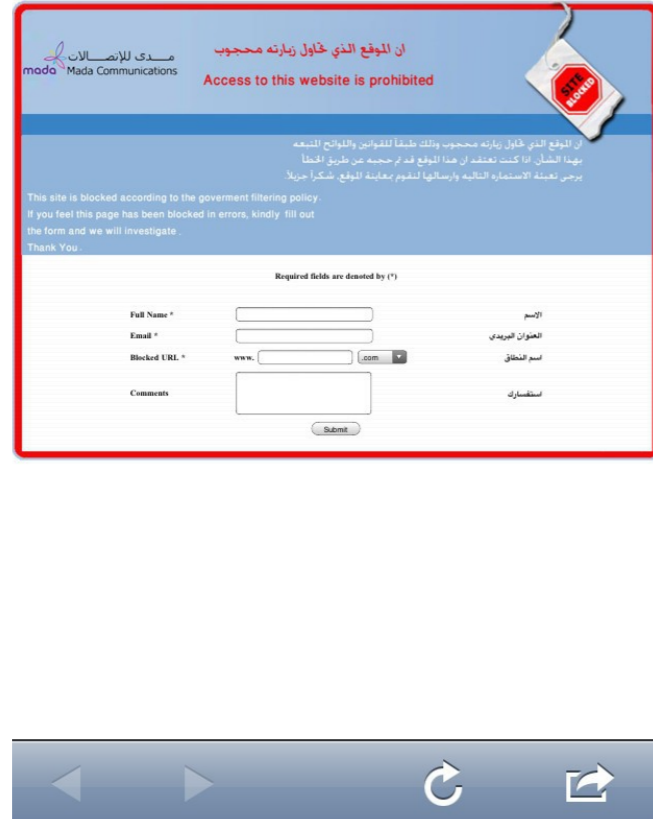
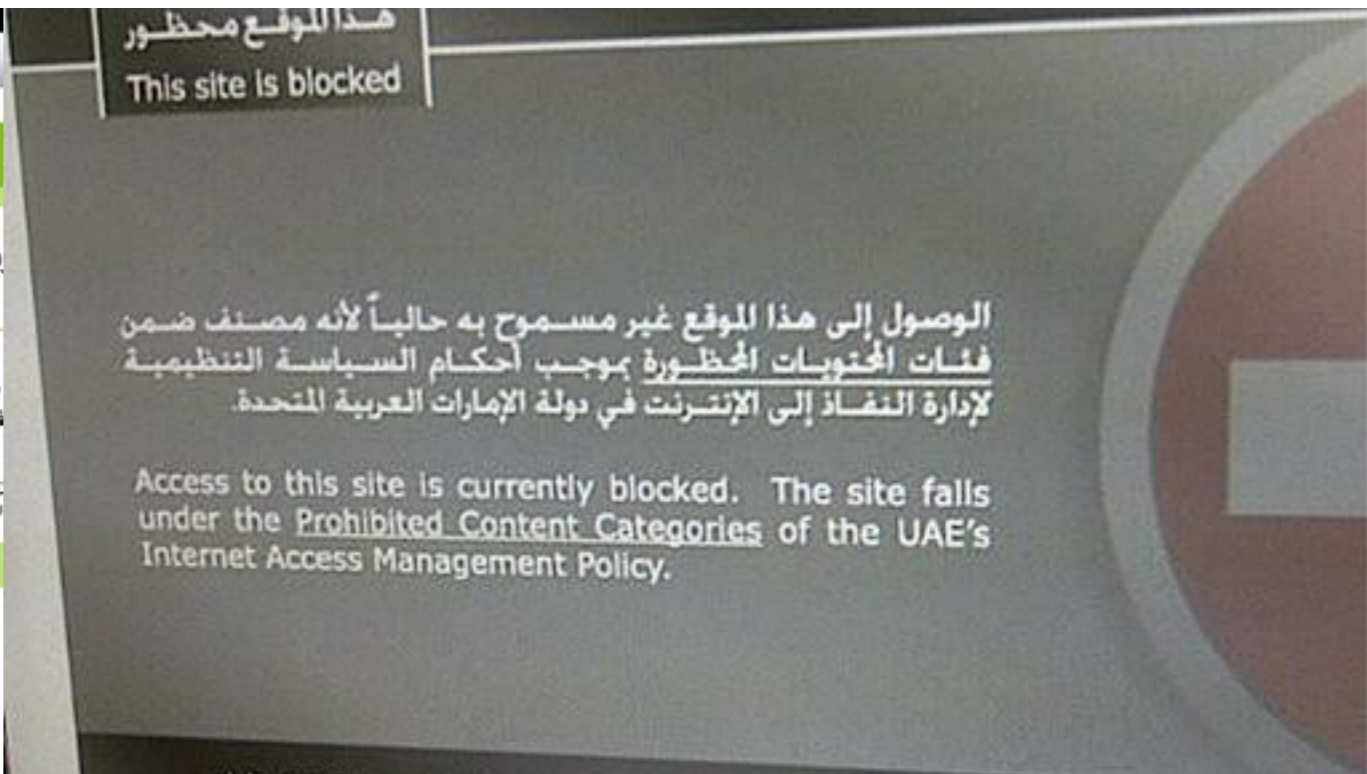
Comments*

غير متاح.

بي أن لا تُحجب

المملكة العربية www.internet.gov.kw





What we are doing?

- Help people access information
Anonymously (Tor)
- Help people circumvent censorship (Tor, Tor Bridges)
- Measure Internet filtering in the world
(OONI-Probe)
- Help people speak freely and anonymously
(Tor Hidden Services, APAF)

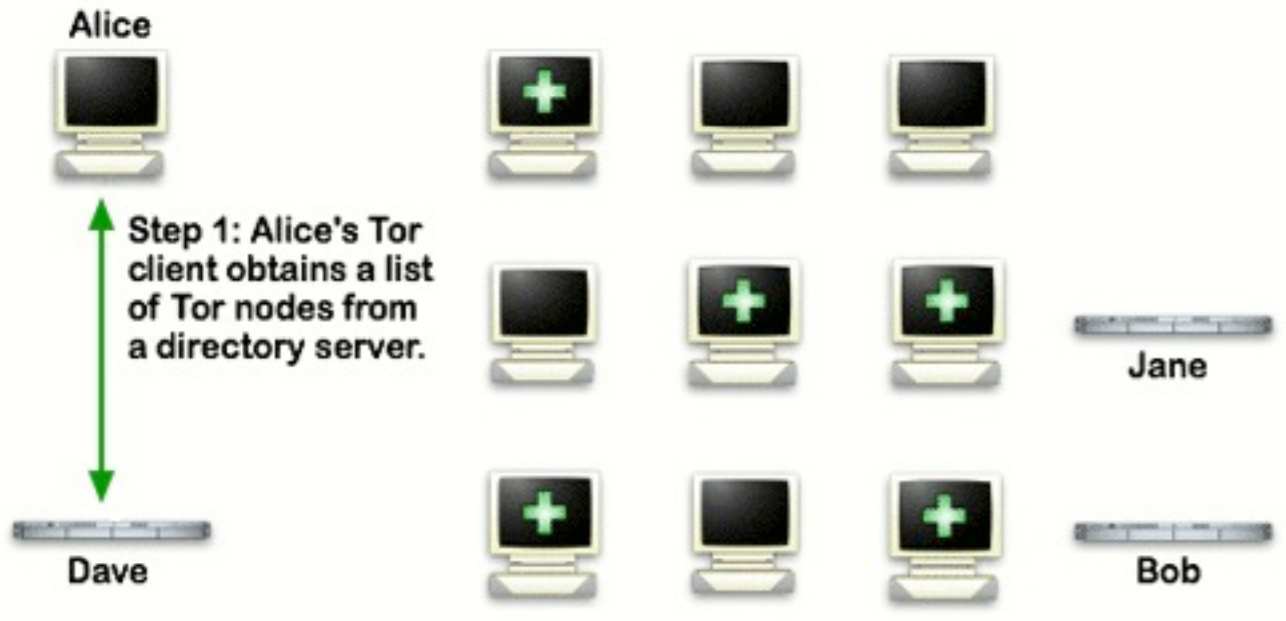


Brief Timeline of Tor Censorship

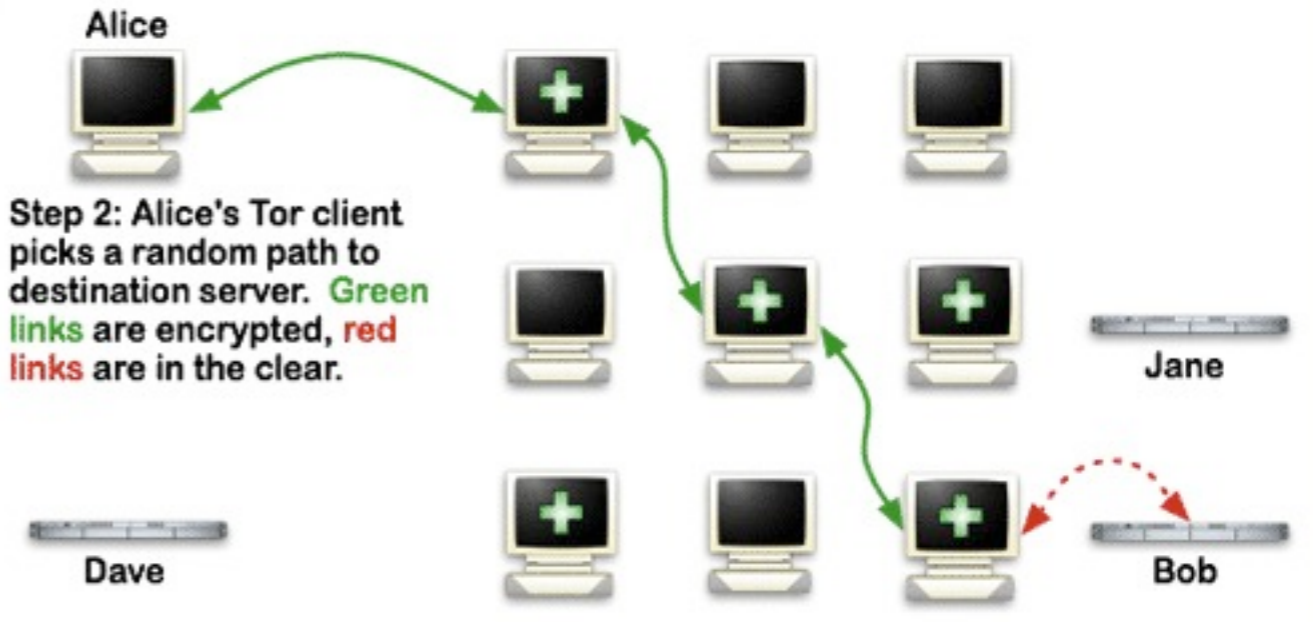
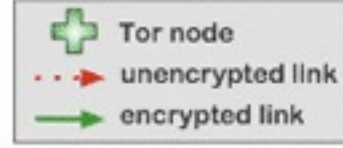
- 2002 - The Source code for Tor is released
- 2006, April - Thailand - DNS Filtering of tpo
- 2006 - Websense/netfilter - Block Tor based on Tor GET requests
- 2007 - Iran, Saudi - Blocks Tor thanks to Websense
- 2009, Tunisia - Smartfilter to block all except 443, 80
- XXX - Tor bridges are introduced



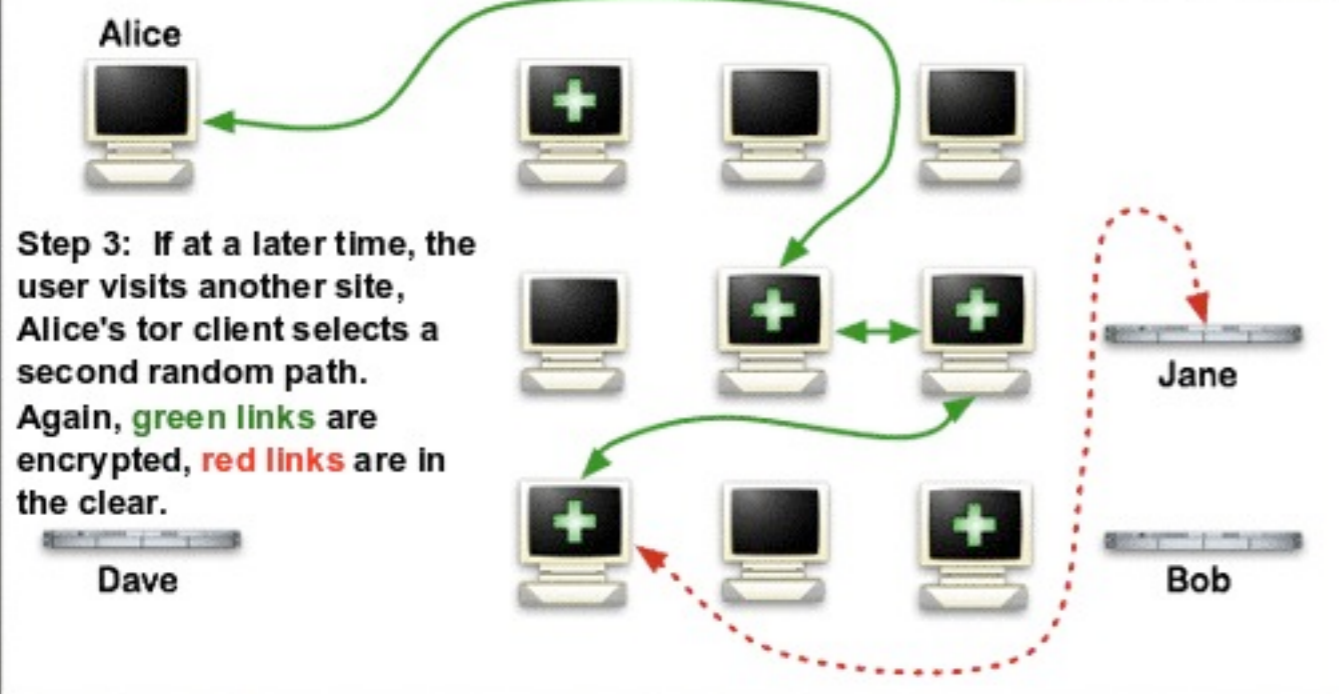
How Tor Works: 1



How Tor Works: 2



How Tor Works: 3



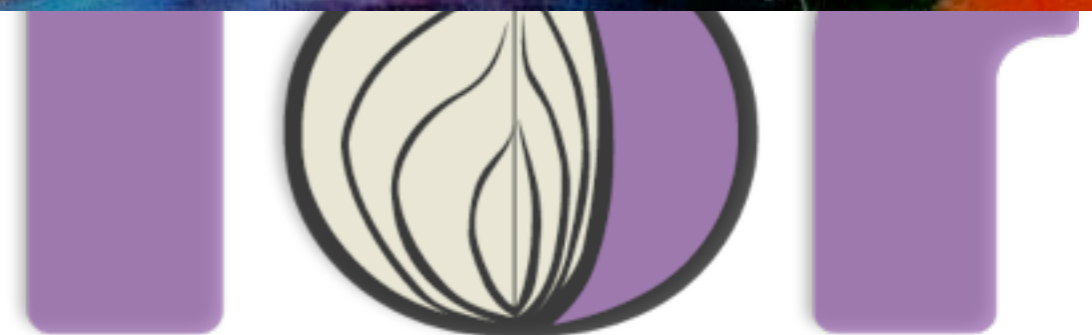
getTor

- Tor software downloads are currently blocked from China, Iran, Lebanon, Qatar, etc.
- Tor delivers via email, write to gettor@torproject.org and we will send you a client to bootstrap a Tor client
- learn more: <https://torproject.org/>



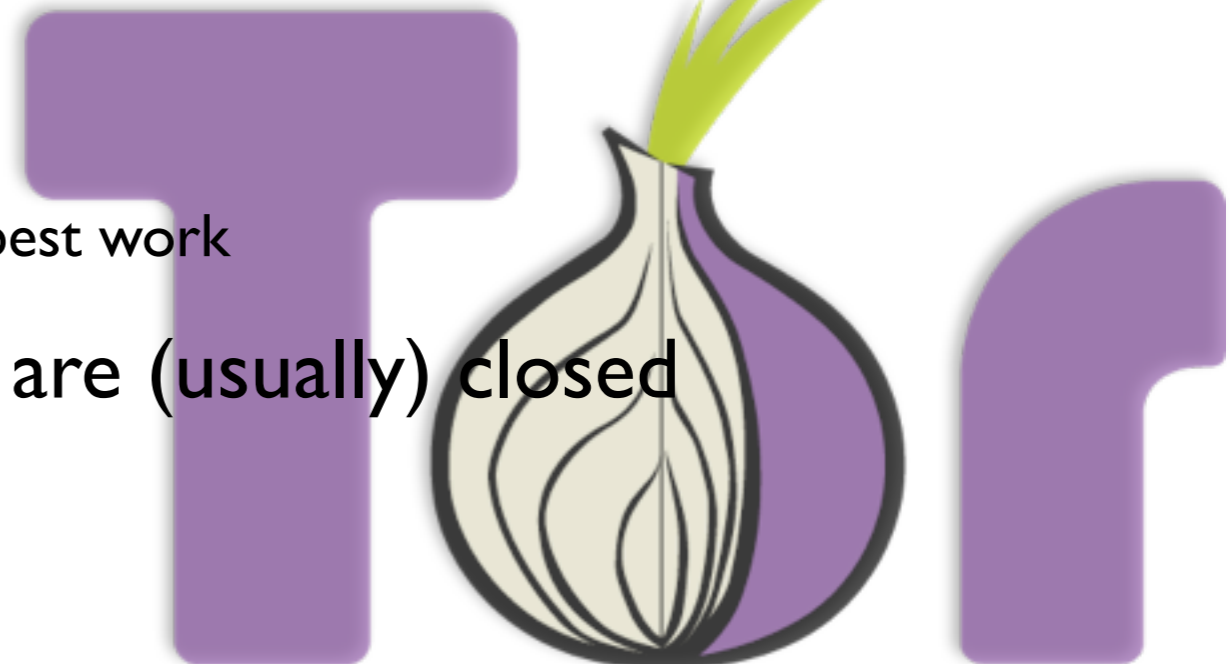
Tor Bridges

- When the Tor network is blocked you can use bridges
- They are not published so it makes them harder to block
- learn more: <https://www.torproject.org/docs/bridges>



Existing filter detection tools

- Various captive portal software
 - Windows/iOS/Android/Google Chrome
- ONI has a tool called “rTurtle”
 - ...
- Herdict “The verdict of the herd”
 - ...
- Some academic research
 - GATech and UC Berkeley have the best work
- Methodology, tools and data are (usually) closed



ooni-probe: Measuring filtering

- Open Observatory of Network Interference
- Provide a methodology and framework
- Make our data and code publicly available

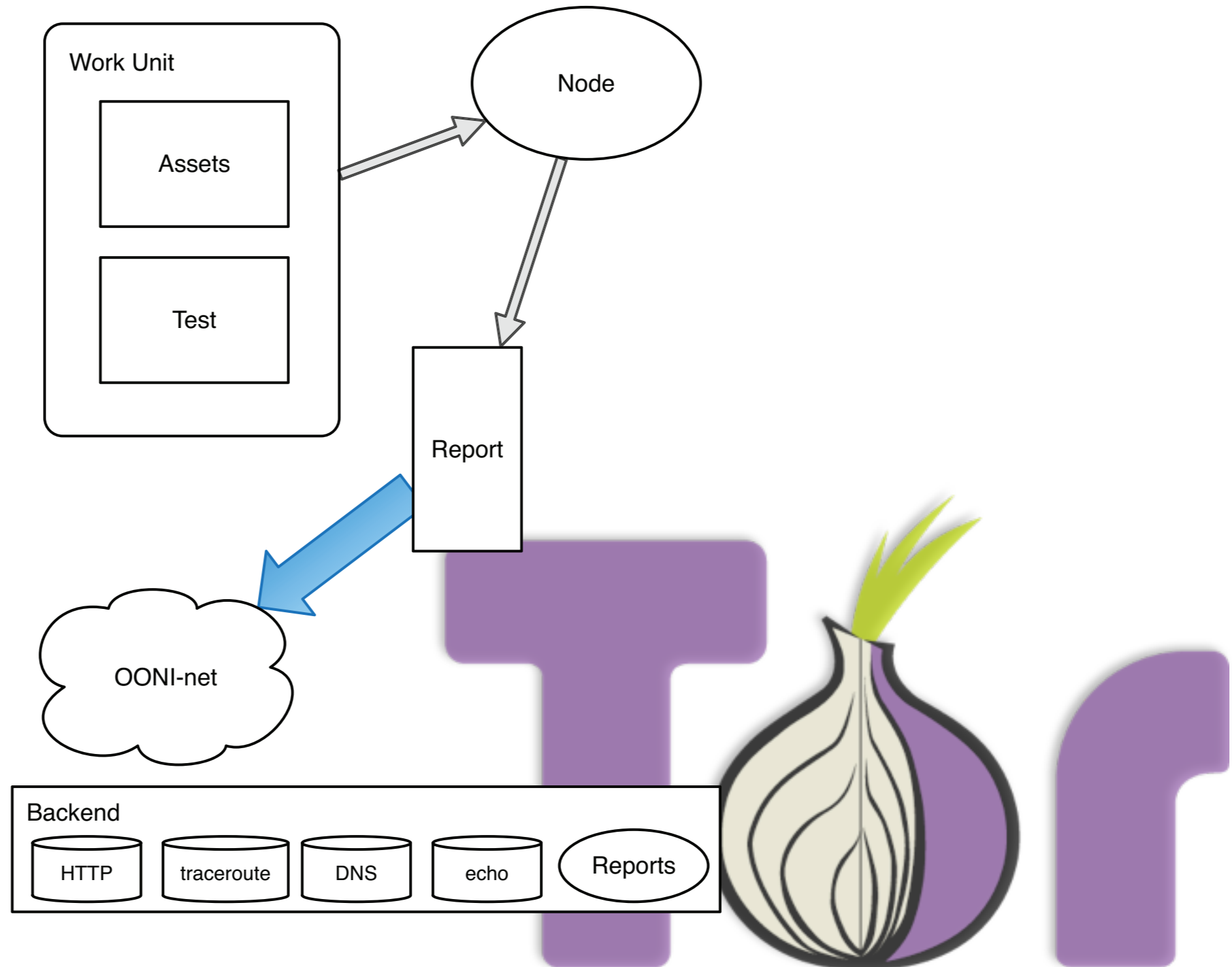


What it detects

- It's goals is to detect:
 - Network filtering (“Is my network traffic being tampered with?”)
 - Content restrictions (“What is being blocked?”)
 - Filtering technique (“How is it being blocked?”, “What software are they using?”)

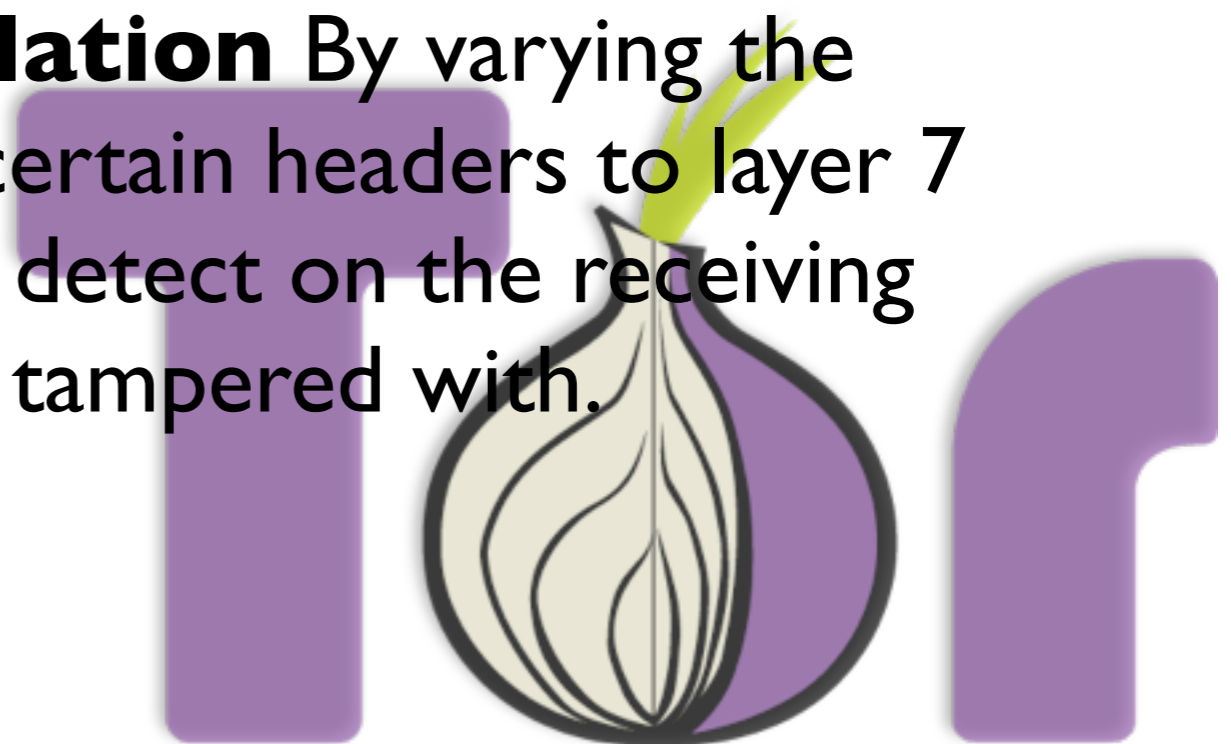


Architecture



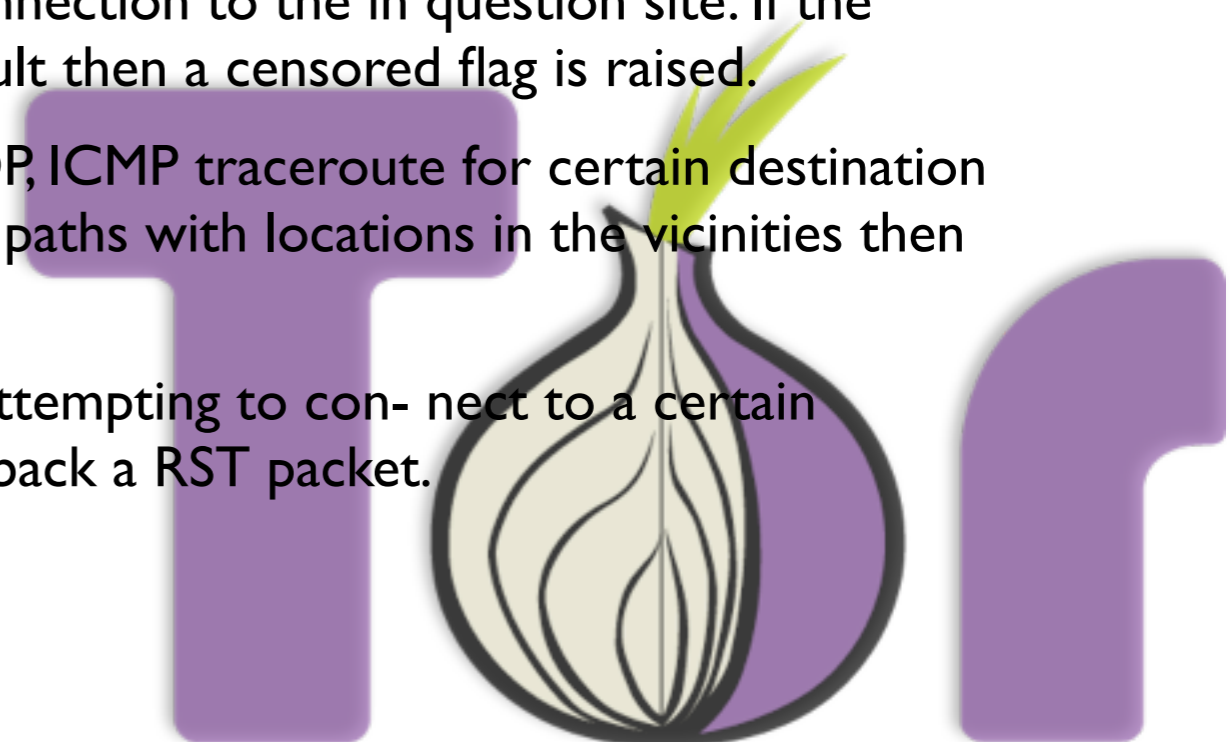
Network filtering detection

- **Two way traceroute** If there is a difference between an inbound traceroute and an outbound traceroute for certain source and destination ports this may be an indication of traffic being routed to interception devices.
- **Header field manipulation** By varying the capitalization and adding certain headers to layer 7 protocols it is possible to detect on the receiving end if the traffic has been tampered with.



Filtered content tests

- **HTTP Host** This involves changing the Host header field of an HTTP request to that of the site one wishes to check for censorship.
- **DNS lookup** This involves doing a DNS lookup for the in question hostname. If the lookup result does not match the expected result the site is marked as being censored.
- **Keyword filtering** This involves sending an receiving data that contains certain keywords and matching for censorship. It is possible to use bisection method to understand what subset of keywords are triggering the filter.
- **HTTP scan** This involves doing a full connection to the in question site. If the content does not match the expected result then a censored flag is raised.
- **Traceroute** This involves doing TCP, UDP, ICMP traceroute for certain destination addresses if there are discrepancies in the paths with locations in the vicinities then a censorship flag is raised.
- **RST packet detection** This involves attempting to connect to a certain destination and checking if the client gets back a RST packet.



Recent impact: T-Mobile USA

T-Mobile USA Web Guard

Wed 21 Mar 2012

T-Mobile USA offers a "feature" to restrict access to certain kinds of content. This is called Web Guard. Supposedly Web Guard is supposed to inhibit access to content that falls under the following categories: Alcohol, Mature Content, Violence, Drugs, Pornography, Weapons, Gambling, Suicide, Guns, Hate, Tobacco, Ammunition.

By developing an OONI-probe test we were able to extract part of the list of censored content and discovered that sites that do not fall under these categories were also censored. This feature is enabled by default on all prepaid accounts and although it can be disabled by customers who wish to do so (if over 18 years of age), it is not clearly stated in the error page how to do so. This means that T-Mobile USA customers may be drawn into the Filinternet without knowing how to get out.

How is the censorship performed?

The technique being used by T-Mobile USA to restrict access to certain content involves deploying a transparent HTTP proxy. This proxy intercepts every HTTP packet going through the network and checks its Host header field to see if it is on the censored list. If the site is to be blocked it injects a fake response warning the user of the block. What this means is that the block is only effective against unencrypted HTTP traffic, but does not work for encrypted HTTPS traffic.

Some sites should not be censored

While most of the censored sites are legitimately categorized, there are certain ones that do not fall under the categories of the block. Here is a list of sites that we found to be censored, but that we don't believe belong to any of the following categories: Alcohol, Mature Content, Violence, Drugs, Pornography, Weapons, Gambling, Suicide, Guns, Hate, Tobacco, Ammunition.



Télé 2 semaines **www.programme.tv**

Retrouvez le programme télé complet de 76 chaînes, par horaire, par thème ou par genre en un clic.

Programme TV **Replay TV** TV en Direct News TV Trafic routier Horoscope Sudoku Shopping Petites annonces Rencontres

Archives Hier 22/03 **Vendredi 23/03** Samedi 24/03 Dimanche 25/03 Lundi 26/03 Mardi 27/03 Mercredi 28/03 Jeudi 29/03

20h-21h

Nouveau service dans la grille : Replay TV
Retrouvez et regardez vos émissions directement depuis la grille avec la signalisation suivante :

Disponible dès maintenant gratuitement ou en VOD Posez une alerte

20.50 Divertissement **20.35** Série

Les 30 histoires les plus extraordinaires
Au sommaire :
- Une guérison miraculeuse
- Une maison hantée
- Aelita André, jeune prodige de la peinture
- Une loterie exceptionnelle
- Jungle thaïlandaise

Antigone 34
Jours d'une soirée étudiante de la faculté de médecine de Montpellier, une jeune fille est agressée. Le lendemain, elle est retrouvée morte. Lorsqu'un second cadavre est découvert peu après, le lieutenant... Lire »

20.35 **CANAL+ 20.55**

Faut pas rêver
En Chine
Au sommaire :
- La ville des architectes

Le chasseur de primes
Ancien policier et grand joueur d'échecs, Milo

Αγγελιακοσ

Αγγελια	Βιντεο	Αγγελια	Αγγελια
Τοπ	133	Δελτία	
Σελήνη	64	ΔΝΤ	
Είδη	126	Ελλάδα	

22 Μαρ 12 04:17:00

Το Σύνταγμα είναι το σπίτι

Με προαίρεση τη σύζυγγο του νεοπροέδρου για το σπίτι του Ελληνικού, κλέφτικα του Ελληνικού και της Αρχής πραγματοποιήσαν συγγένευση διαμαρτυρίας έξω απ'την έδρα να μετατραπεί το Ελληνικό σε Μητροπολιτική Κλίμακα από τους κατοίκους είχαν αρχίσει πάνω στην επιστροφή για την παράδοση της αρχής Μαργίτου. Στο Στ και πανό της Αιχμής Συνέλευσης Πανελλήνιου Μετακόμια

Ο ΔΕΝ ΠΩΛΕΙΤΑΙ
NOT FOR SALE



AVVERTENZA - SITO NON RAGGIUNGIBILE

In applicazione del decreto dell'Amministrazione autonoma dei monopoli di Stato (AAMS) del 2 gennaio 2007, disciplinante la rimozione dei casi di offerta in assenza di autorizzazione, attraverso rete telematica, di giochi, lotterie, scommesse o concorsi pronostici con vincite in denaro, con il quale è stata data attuazione all'art. 1, comma 50, della Legge 27 dicembre 2006, n° 296, il sito richiesto non è raggiungibile poiché sprovvisto delle autorizzazioni necessarie per operare la raccolta di giochi in Italia.

L'elenco degli operatori autorizzati al gioco telematico è disponibile sul sito istituzionale www.aams.gov.it.

WHAT REALLY HAPPENED
Putting America First, Second, and Third!

HOME WITH STORE WITH WHO READER EMAILS EMAIL WITH ADVERTISE ON WITH RADIO PODCAST DONATE!

BANKERS COME WILD | THE ELECTRO | US GOVERNMENT TREASON | FAME TERROR | CLINTONSCATE | LE OF THE CENTURY | NEW MCCARTHYISM | ECONOMY | 9-11 | OK CITY | TWA 800 | MENA | WACO | JFK | RFK | JFK JR. | MLK | POSTER | RON BROWN | CONTOLEPRO | WOCKINGBIRD | ATHESM | HAKAI | PEARL HARBOR | KILLING JESSE FAMILY | OPUM AND AFGHANISTAN | IRAN - BRAIL | THE FACTS | IRAN A THREAT? | BIG BANG | OBAMA THE LOVE CHILD - END OF THE BROTHER NOSENSE | A GALLERY OF FAKE DEAD BIN LADENS | THE ELEVENTH WARRIOR | SLAVE TO THE BANKERS | MORTGAGE FRAUD 4 DUMMIES

User login
Username:
Password:
Log in

Request new password

MEMBER SIGNUP

WRH JOIN WRH

WRH GEAR

THOUGHT FOR THE DAY!
"If we have to use force, it is because we are America. We are the indispensable nation. We stand tall. We see further into the future." - Secretary of State Madelaine Albright describing her vision of America's role in the world

Weird Hair Growth Herb
Stops hair thinning & falling
Reverses premature greying
Helps with balding / alopecia

WHAT HAPPENS WHEN ...

This page is in French | Would you like to translate it? Options

zonebourse

Bourse **Actualités** Analyses **Palmarès / Outils** Pédagogie Communauté **Concours Boursier** Offres Exclusives Portefeuilles

Accueil Actions Indices Matières Premières Devises / Forex Futures Fonds / OPCVM Trackers Produits Dérivés

ACCES PREMIUM OFFRE SPECIALE : Tout Zonebourse pour seulement 49€ TTC/mois ▶ S'abonner

La croissance 2012 relevée à 0,7%, celle de 2013 baissée à 1,75%
Le gouvernement français a relevé sa prévision de croissance économique pour 2012 à 0,7%, contre 0,5% auparavant, et l'a abaissée pour 2013 à 1,75%, contre 2,0%, a annoncé jeudi le ministre de l'Economie...

Hausse des résultats 2011 de Bolloré, malgré les investissements
22/03 - PARIS, 22 mars - Bolloré a annoncé jeudi une hausse de 19% de son résultat opérationnel, la croissance de sa division de transport et logistique et l'amélioration des...

BOURSE DE PARIS : L'économie de la zone euro se dégrade en mars
22/03 - L'économie de la zone euro s'est dégradée contre toute attente en mars, plombée par un repli aussi marqué qu'inattendu de l'activité industrielle en France et en Allemagne...

L'AMF inflige 500.000 euros d'amende à BNP Paribas

Trading Actions
2203 - DAWONE
Marché européen compliqué

2203 - FAURECIA
Surperforme le secteur automobile

2203 - GROUPE OPEN
Valorisation atoyante

Plus de trading sur actions

Stratégies d'investissement
2103 - BONDUELLE
Décorchée de la tendance générale

1903 - GDF SUEZ
Un énergéticien international

Plus de stratégies d'investissement

Analyses Indices

Quotidien du trader
CLÔTURE TOKYO
La Bourse de Tokyo en baisse de près de 1% à la mi-séance

Indices
Streaming Temps Réel Interactives Data

● CAC 40	3472.46	-1.58%
● BEL 20	2323.27	-0.99%
● SMI	4249.56	-0.84%
● AEX	326.82	-1.17%
● IBEX 35	8353.80	-1.82%
● PSI 20	3604.95	-0.97%
● DOW JONES	13046.14	-0.80%
● NASDAQ 100	2731.80	-0.20%
● NASDAQ C.	3083.32	-0.39%
● NYSEI 225	10328.05	-0.98%
● SHANG. CMP	2378.2	0.06%

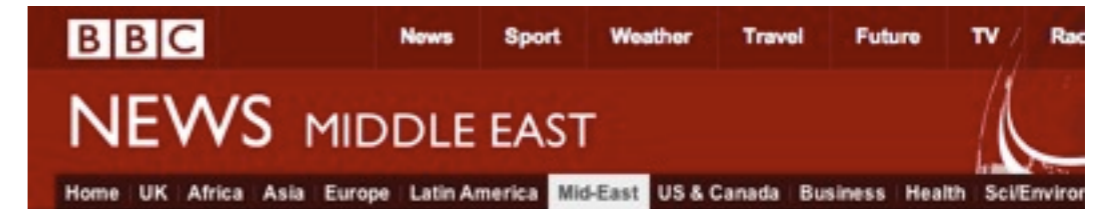
● CAC 40 FUT. 3474.50 -1.50%

Accès dynamiques ON | OFF

Mes Listes Mes Portefeuilles Mes Alertes

Handara Palestine

- 23 April 2012, released report on politically motivated censorship
- 27 April 2012, Palestian minister of Communications resigns
- 5 May 2012, Censorship removed



27 April 2012 Last updated at 10:55 GMT



Palestinian minister resigns over web censorship

The communications minister of the Palestinian Authority has resigned, claiming it was trying to silence its critics and curb freedom of expression.

Mashour Abu Daqa said senior officials had ordered several opposition websites to be blocked over the past six months.



Included Firas Press

Israel and the Palestinians

Gazans 'inured' to endless conflict

Israel's Iron Dome defence

Palestinians' geographic divide



Tor Hidden Services

- Anonymity for the server
- `eqt5g4fuenphqinx.onion`
- End-to-end encryption

Why use Hidden Service?

- Avoid retaliation for what you publish
- Securely serve content
- Stealth Hidden Services

Tor2web

- Allows Tor Web HS to be accessible from the world
- Instead of xxxxxx.onion you use xxxxx.tor2web.org
- Tradeoff between security and anonymity for usability



Tor2web 1.0 issues

- Exposed to abuse complaints
- Misuse of HS to spread of illicit content
- No disclaimer
- No reporting system
- High latency -> Little usability
- The leads to **server takedown**

Tor2web 1.0 bodycount

- In 2010 there were at one point 3 tor2web nodes
- In April 2011, there was only one server left
- In June 2011, the last of the 3 original tor2web nodes went offline

Tor2web 2.0

You are visiting a [Tor Hidden Service](#) Website through [Tor2web](#) Proxy.



Tor2web servers **are not hosting this web content** you are viewing.

Tor2web can identify the IP of visitors of this site, we strongly suggest to access this site directly with [Tor Browser Bundle](#) to increase your anonymity and efficiency.

If you feel this website violate some kind of user policy or ethical code, you can fill an [Abuse Complain](#).

If you want to report a bug or a problem, you can Send us an [Error Notification](#).

Click [here to hide this disclaimer](#).

This is the example page for [Tor's](#) rendezvous points system.

Read [Thomas Paine's Common Sense](#).

Or read [The Federalist papers](#), which were also originally published anonymously.

Future of tor2web

- Distribute responsibility
- Rewrite the code
- **Get more Tor2web node!**

tor2web mode

- An experimental implementation will be in tor 0.2.3.x
- Compile time flag `--enable-tor2web-mode`

Multidomain

- To run a tor2web node currently we need to entrust you with the wildcard SSL cert
- You should be able to run tor2web on `xxxx.your_domain.org`
- There can be a list of all supported tor2web domains

We need more nodes!

- Do you have a dedicated IP space?
- Do you want to help support tor2web network?
- Currently there is only 1 tor2web node :(

Legal help

- Write good Terms of Service
- Any lawyer interested in helping out?