Designed for democracy: pattern di interferenza tra codici giuridici e codici informatici nei recenti casi di censura online e offline

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e-privacy 2011 - Cloud computing e Privacy
2-4 giugno 2011
Firenze, Palazzo Vecchio
“The internet is the new frontier, a territory to conquer. But it cannot be a Wild West. It cannot be a lawless place, where people are allowed to pillage artistic works with no limits”

@Sarkozy
#eG8
code is law
The cyberspace is not a new space to conquer. It does not exist to be colonized nor civilized. The cyberspace is a space of civilization, and has been since its founding. This is an undeniable fact, because it is built and inhabited by men and women.

We oppose states abandoning the protections they own their citizens.

We oppose states violating the right to privacy in the cyberspace.

http://owni.eu/2011/06/01/manifesto-for-cyberspace/#eG8
• Cosa intendiamo per censura nel cyberspace?
• Come si manifesta?
• Come può essere contrastata?
/Space/ ?
Fifteen countries are black holes in the World Wide Web. News is not free to circulate there. These enemies of the Internet are nonetheless here in Tunis and are talking without any shame about freedom of expression. www.rsf.org
Infosphere

- new environment as a world of data, information, knowledge and communication
- What we need to do is to fight any kind of destruction, corruption, depletion (marked reduction in quantity, content, quality, value) or closure of the infosphere, what shall be referred to here as information entropy.

L Floridi - Ethics in the Infosphere, 2001 – The Philosophers’ Magazine 6

- information environment
- subjective world of information

L Floridi - Ethics and Information Technology, 2002 – Springer
subjective information environment
Censorship

destruction, corruption, depletion
(marked reduction in quantity, content, quality, value)
of the subjective information environment
**Destruction**: supporto, canale, segnale, emittente/ricevente

**Corruption**: messaggio, codici, introduzione di rumore

**Depletion**: saturazione banda (DoS)
2 faces of information space
“online”
Cyberspace

“offline”
Territory
Reality is that which, when you stop believing in it, doesn't go away.

– P.K.Dick, 1978
How to Build a Universe
That Doesn't Fall Apart
Two Days Later
**Offline** is that which, when you run out of batteries, doesn't go away.

– me, 2011
<table>
<thead>
<tr>
<th>Da $\rightarrow$ A</th>
<th>Territorio</th>
<th>Cyberspace</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Territorio</strong></td>
<td>[offline]</td>
<td><em>Deterritorializzazione</em> [DNS]</td>
</tr>
<tr>
<td><strong>Cyberspace</strong></td>
<td><em>Riterritorializzazione</em> [IP]</td>
<td>[routing]</td>
</tr>
</tbody>
</table>

This webpage is not available

The server at wikileaks.net can’t be found, because the DNS lookup failed. DNS is the web service that translates a website’s name to its internet address. This error is most often caused by having no connection to the internet or a misconfigured network. It can also be caused by an unresponsive DNS server or a firewall preventing Chromium from accessing the network.

Here are some suggestions:

- **Reload** this web page later.
- Check your internet connection. Reboot any routers, modems, or other network devices you may be using.
- Check your DNS settings. Contact your network administrator if you’re not sure what this means.
- Try disabling DNS prefetching by following these steps: Go to Wrench menu > Preferences > Under the Hood and deselect “Use DNS pre-fetching to improve page load performance.”
- Try adding Chromium as a permitted program in your firewall or antivirus software’s settings. If it is already a permitted program, try deleting it from the list of permitted programs and adding it again.
- If you use a proxy server, check your proxy settings or check with your network administrator to make sure the proxy server is working.
- If you don’t believe you should be using a proxy server, try the following steps: Go to Wrench menu > Preferences > Under the Hood > Change proxy settings and make sure your configuration is set to “no proxy” or “direct.”

Error 105 (net::ERR_NAME_NOT_RESOLVED): Unable to resolve the server’s DNS address.
Territorio-Territorio

- Comunicazione faccia a faccia, di persona …
- Censura: soppressione/confinamento della fonte/destinatario
- Wikileaks, Egitto, Libia:
  minacce di morte/rapimento/detenzione di Julian Assange/cittadini

- Codici: “sovranità dello Stato” vs “libertà”
Mr. Assange is not a journalist or publisher; rather, he is an **enemy combatant** - and should be treated as such.

Instead, the administration should have pressured Australia to take decisive action against the leaker. It also should have issued an **international arrest warrant** and demanded that he be extradited to the United States to face charges of aiding terrorists.

At a minimum, back in the summer, the administration could have launched a devastating **cyber-attack** against the WikiLeaks website, shutting it down.

By **Jeffrey T. Kuhner** - The Washington Times; December 2, 2010
Cyberspace

Territory
Territorio-Cyberspace
deterritorializzazione

Dati locali → Indirizzi IP (geolocalizzati) → Internet

- Censura: rimozione/blocco IP, rimozione dei dati
- Wikileaks:
  - USA: Amazon interrompe il servizio per Wikileaks per timore di attacchi informatici,
  - giustificato da Acceptable Use Policy (soft Law)
  - Facebook, Twitter, Google non fanno nulla
- Risposta: replicazione dei dati
  - FR: OVH si rifiuta di interrompere il servizio su pressioni governative, che ritiene ingiustificate
  - SE, CH, …: replicazione massiccia dei siti
There have been reports that a government inquiry prompted us not to serve WikiLeaks any longer. That is inaccurate.

There have also been reports that it was prompted by massive DDOS attacks. That too is inaccurate. There were indeed large-scale DDOS attacks, but they were successfully defended against.

Amazon Web Services (AWS) rents computer infrastructure on a self-service basis. AWS does not pre-screen its customers, but it does have terms of service that must be followed. WikiLeaks was not following them. There were several parts they were violating. For example, our terms of service state that "you represent and warrant that you own or otherwise control all of the rights to the content... that use of the content you supply does not violate this policy and will not cause injury to any person or entity." It's clear that WikiLeaks doesn't own or otherwise control all the rights to this classified content. Further, it is not credible that the extraordinary volume of 250,000 classified documents that WikiLeaks is publishing could have been carefully redacted in such a way as to ensure that they weren't putting innocent people in jeopardy. Human rights organizations have in fact written to WikiLeaks asking them to exercise caution and not release the names or identities of human rights defenders who might be persecuted by their governments.

We've been running AWS for over four years and have hundreds of thousands of customers storing all kinds of data on AWS. Some of this data is controversial, and that's perfectly fine. But, when companies or people go about securing and storing large quantities of data that isn't rightfully theirs, and publishing this data without ensuring it won't injure others, it's a violation of our terms of service, and folks need to go operate elsewhere.

We look forward to continuing to serve our AWS customers and are excited about several new things we have coming your way in the next few months.

— Amazon Web Services
Amazon Web Services™ Acceptable Use Policy

*Updated May 23, 2011*

This Acceptable Use Policy (this “Policy”) describes prohibited uses of the web services offered by Amazon Web Services LLC and its affiliates (the “Services”) and the website located at [http://aws.amazon.com](http://aws.amazon.com) (the “AWS Site”). The examples described in this Policy are not exhaustive. We may modify this Policy at any time by posting a revised version on the AWS Site. By using the Services or accessing the AWS Site, you agree to the latest version of this Policy. If you violate the Policy or authorize or help others to do so, we may suspend or terminate your use of the Services.

**No Illegal, Harmful, or Offensive Use or Content**

You may not use, or encourage, promote, facilitate or instruct others to use, the Services or AWS Site for any illegal, harmful or offensive use, or to transmit, store, display, distribute or otherwise make available content that is illegal, harmful, or offensive. Prohibited activities or content include:

- **Illegal Activities.** Any illegal activities, including advertising, transmitting, or otherwise making available gambling sites or services or disseminating, promoting or facilitating child pornography.
- **Harmful or Fraudulent Activities.** Activities that may be harmful to others, our operations or reputation, including offering or disseminating fraudulent goods, services, schemes, or promotions (e.g., make-money-fast schemes, ponzi and pyramid schemes, phishing, or pharming), or engaging in other deceptive practices.
- **Infringing Content.** Content that infringes or misappropriates the intellectual property or proprietary rights of others.
- **Offensive Content.** Content that is defamatory, obscene, abusive, invasive of privacy, or otherwise objectionable, including content that constitutes child pornography, relates to bestiality, or depicts non-consensual sex acts.
- **Harmful Content.** Content or other computer technology that may damage, interfere with, surreptitiously intercept, or expropriate any system, program, or data, including viruses, Trojan horses, worms, time bombs, or cancelbots.
Cyberspace-Cyberspace

NB

Gli eventi sono sempre localizzati sempre in qualche territorio,

ma vengono percepiti attraverso la rete e ivi “localizzati”
th3j35t3r

www.wikileaks.org - TANGO DOWN - for attempting to endanger the lives of our troops, 'other assets' & foreign relations #wikileaks #fail

less than 5 seconds ago via web

ANONYMOUS
We are Legion. We do not Forgive. We do not Forget.
WE ARE ANONYMOUS.
WE ARE LEGION.
WE ARE NO ONE
AND EVERYONE.
AND WE ARE HERE
TO FIGHT FOR WIKILEAKS.

NEW LEAK:
NAMES, ADDRESSES, IP,
AND PHONE NUMBERS OF
EVERYONE IN ANONYMOUS.

© xkcd
Egypt: BGP routes withdrawal


Libya "warm standby mode": Unique State ISP First chokes traffic Then withdraws BGP routes

Risposte

• Wikileaks:
  minaccia implicita di anonymous a chiunque attacchi Wikileaks

• Egitto:
  operatori occidentali lasciano linee telefoniche aperte verso Internet

• Libia:
  kit “da campo” con hotspot wifi
Cyberspace

Territory
Cyberspace-Territorio
rilocalizzazione

• da una risorsa potenzialmente delocalizzata a una localizzata attraverso un indirizzo IP:

  Domain Name System: wikileaks.org → Indirizzo IP.

• Censura: dirottamento a un altro IP/cancellazione nome a dominio

• Wikileaks:
  • EveryDNS cessa il servizio per WL, per una serie di errori di WL stesso
  • Alcuni servizi pubblici USA (Libreria del congresso) censurano gli accessi verso i nuovi indirizzi di Wikileaks
  • Paypal, Visa, Mastercard bloccano i canali di finanziamento a Wikileaks

• Risposta:
  • Ridondanza dei nomi: wikileaks.fr, ch, …
  • uso di indirizzi IP “nature” distribuiti via twitter e altri canali “manual DNS”
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<td>Reclusione, sequestro, minaccia, intimidazione, aggressione, distruzione di supporti</td>
<td>Rendere irraggiungibile l'IP <em>address</em> o i dati presso ISP</td>
</tr>
<tr>
<td><strong>Cyberspace</strong></td>
<td>Dirottamento DNS presso DNS server</td>
<td>Isolamento delle rotte presso ISP</td>
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Lezioni apprese

• Ridondanza offre delocalizzazione
• Delocalizzazione offre resilienza
• Civil liberties sites are an easy target

“Distributed Denial of Service Attacks Against Independent Media and Human Rights Sites Ethan Zuckerman, Hal Roberts, Ryan McGrady, Jillian York, John Palfrey The Berkman Center for Internet & Society at Harvard University December 2010

• “Regulate locally, Think globally”
Interferenze di Codici

- **Codici informatici**: i sw per costruire cloud sono sempre più disponibili, ma anche quelli per cyberattack sofisticati.
- **I codici giuridici** forti (le leggi), vigono se gli ISP li invocano a tutela dei clienti. La *soft law* è un facile pretesto per cedere alle pressioni politiche.
- **Codici sociali**: reciprocità brutale ("occhio per occhio") a difesa delle risorse nel cyberspace.
- **Codici economici**: chi ha soldi può difendersi meglio.
Designed for democracy

- TT: Crittografazione
- CT: Ridondare e rendere migrabili dati e applicazioni
- CC: Difesa dal DDOS
  - Nuovo *statuto giuridico* delle reti?
- TC: Alternative decentrate al DNS
Prospettive

- **Ridondanza:**
  - Applicazioni aterritoriali, che possono migrare da server a server

- **Policentrismo:**
  - Servizio DNS che non rinuncia all'autoritatività ma che non sia centralizzato: eg *P2P DNS*
  - Applicazioni che possono migrare a caldo: eg *Unhosted*

- **Statuto giuridico/ontologico di Internet:**
  - risorse infrastrutturali globali e sovranità statale coesistono?
Grazie

http://twitter.com/mmzz

http://tagmenot.info

http://cammozzo.com
Proposta

Se ancora non si è capito che tipo di “Spazio” è Internet...

“The exploration and use of outer space, [...] shall be carried out for the benefit and in the interests of all countries, irrespective of their degree of economic or scientific development, and shall be the province of all mankind.”

Outer Space Treaty 27 gennaio 1967

Against the weaponization of cyberspace, let's declare the Internet "province of all mankind", as Outer Space has been since 1967!