



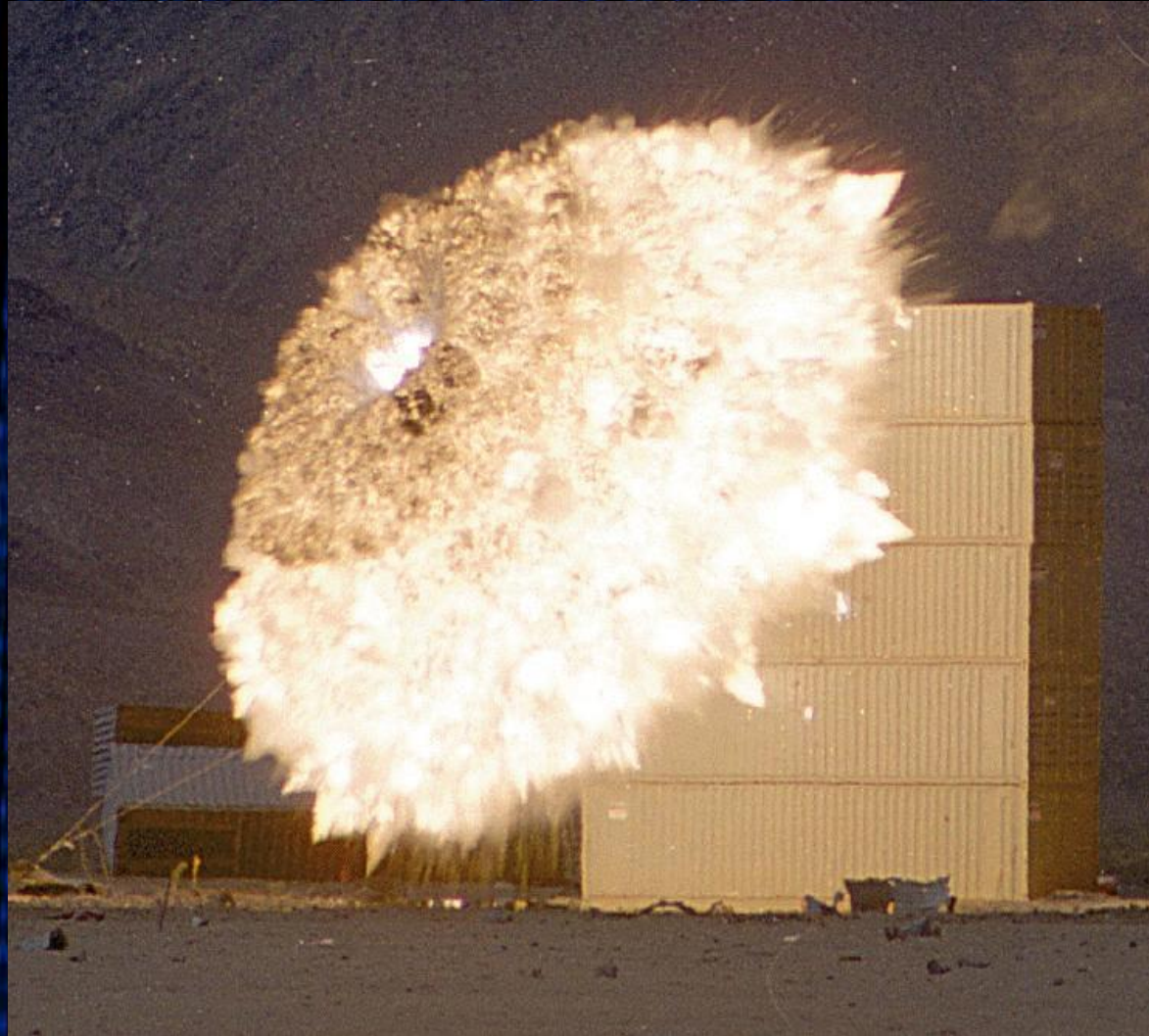
SecTheory
Internet Security

About Me

- ▣ Robert “RSnake” Hansen - CEO
- ▣ SecTheory LLC
 - Bespoke Boutique Internet Security
 - Web Application/Browser Security
 - Network/OS Security
 - Advisory capacity to VCs/start-ups
 - <http://www.sectheory.com/>
- ▣ Founded the web application security lab
 - <http://ha.ckers.org/> - the lab
 - <http://sla.ckers.org/> - the forum

What is War?

- ▣ “What do you do about that one machine that’s left over?”
- ▣ “Oh, just blow it up.”
- ▣ “You mean... kinetically?”



What is Cyber War?

Russian tekkie admits to hacking Georgian sites

27 October, 2008, by [E](#) Kremlin-backed youths launched Estonian cyberwar, says Russian official

Interesting to see a *Mea Culpa* without the *culpa*

guru Noah Shachtr By [Dan Goodin in San Francisco](#) • [Get more from this author](#)

taking part in a mas Posted in [Security](#), 11th March 2009 19:11 GMT

sites during the Aug [Free whitepaper – Vulnerability management bundle checklist](#)

At the time, the Rus
blame for the site h
group.

Members of a Kremlin **Dubious DDoS lols**

Estonia's internet traff By [John Leyden](#) • [Get more from this author](#)

Until recently, Russia Posted in [Enterprise Security](#), 10th March 2009 11:49 GMT

service) attacks, which [Watch the Application S](#) **Russian youth movement activist admits to 2007 hacker attack on Estonia websites**

[interview](#) with *The Fin* A junior Russian pol
as Nashe unapologeti played some part in
assault. Interfax

Comments by Serge
a cybercrime panel
to inflame tensions t
internet attacks duri

Moscow, 12 March: A commissar of the Nashi youth movement, Konstantin Goloskokov, has said that he personally took part in an attack on the websites of Estonian government structures in spring 2007.

"This was done by me, my acquaintances and friends - an initiative group. But it was not a hacker attack but a classical action of civil disobedience," Goloskokov told Interfax on Thursday (12 March).

Why Are Consumers Special?

- ▣ They're programmable
 - Must use social networking to be a part of the social herd
- ▣ They're ignorant
 - Do not understand technologies beyond the most simple
- ▣ When consumers think they're special, they're right but for completely the wrong reason.



Dalai Lama

Dalai Lama on Chinese hacking into his computer

Sarah Sidner / CNN

Published on Tue, Mar 31, 2009 at 11:52 in **World** section

Tags: **Dalai Lama**, **Indian Embassy**, **New Delhi**

Ads by Google

B Blissh this!

PRINT THIS

EMAIL THIS

New Delhi: In a special interview with CNN's Sara Sinder, Dalai Lama cleared the air about an alleged Chinese cyber spy network hacking into his computer. A Canadian research group says the network hacked into classified documents of the Tibetan government-in-exile but China denies it.

Analysts in China are dismissing claims that the Chinese government is behind the spying.

Dalai Lama: Personally I think they should spy more (laughs) than they know what we are doing what we are thinking. You see they too much suspicion to us and a lot of distorted information.



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Iran in Turmoil

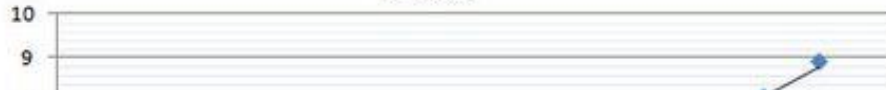


Voter Fraud

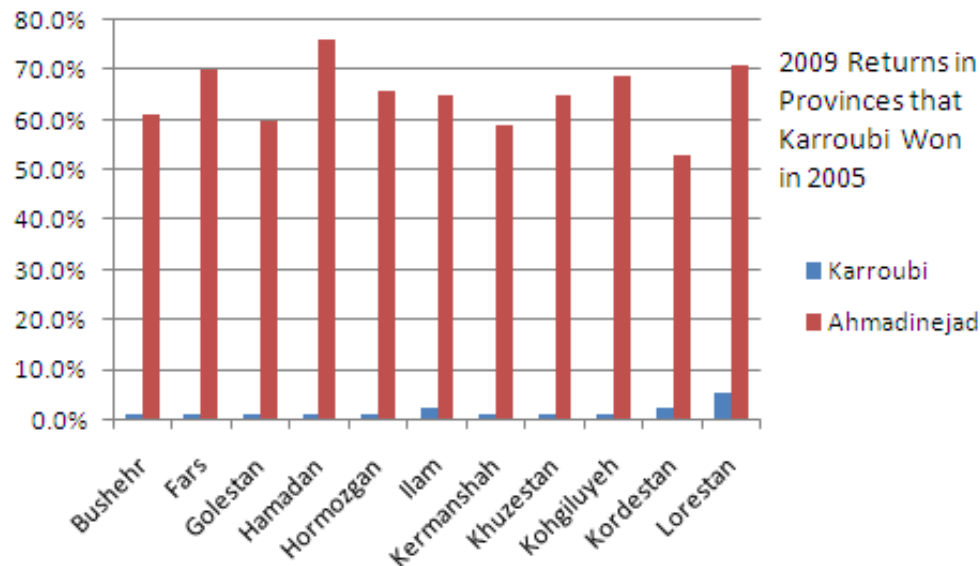
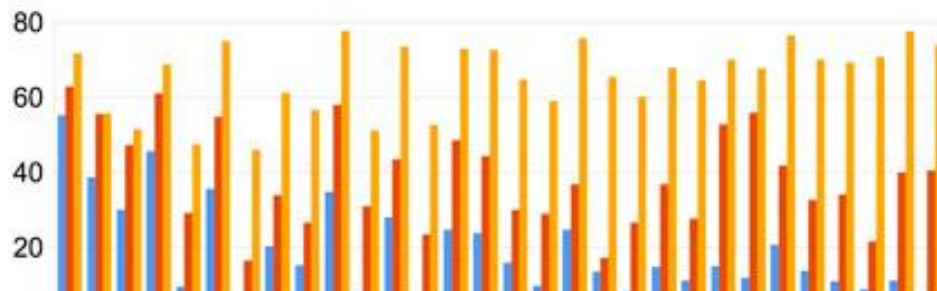
Votes for Ahmadinejad and Mousavi on 6 different official announcements

$$y = 0.507x - 0.485$$

$$R^2 = 0.998$$



■ Ahmadinejad 2005 vote (%) ■ Combined conservative 2005 vote (%) ■ Ahmadinejad 2009 vote (%)



RIGGING INDICATORS

IMPOSSIBLE TALLIES

The closest you can get to a smoking gun: vote tallies should be less than or equal to the number of eligible voters.

LOGICAL ANOMALIES

Candidates fail to win (or to even do well) in their home districts, especially where their ethnicity should help.

A BREAK WITH POLLS

Election returns are wildly inconsistent with recent reliable, thorough polling data, assuming it exists.

REVERSALS OF FORTUNE

Compared with a recent earlier contest, parties and candidates experience a big swing in popularity.

FISHY DIGITS

Fair vote tallies have a reliably even distribution of digits. Phony numbers made by humans do not.

LATE COMEBACKS

If results are released on a rolling basis, you can tell if a panicked party starts stuffing ballot boxes.

HASTY VERDICTS

When voting is electronic, results come fast. But with paper ballots, a speedy victor is suspicious.

DID IT HAPPEN IN IRAN?



YES: After an investigation, Iran's senior panel of election monitors said Monday that in 50 cities, the number of votes cast exceeded the actual number of voters.



YES: Mir Hossein Mousavi, an Azeri, lost East Azerbaijan. Mehdi Karrubi won 5 percent of his home district, a 10th of his 2005 result.



NO: One poll put Mahmoud Ahmadinejad up 2-1. But that was pre-debates, and most respondents refused to say who they'd vote for.



YES: Despite economic woes, reformists did more poorly than in 2005. And Ahmadinejad won in previously hostile Tehran Province.



UNCLEAR: Statisticians need precinct-level data to run their models, and Iran's rulers are unlikely to release that information.



UNCLEAR: Again, not enough data. If Iran's rulers rigged the vote, they did it right at the start of announced returns.



YES: The Interior Ministry declared victory for Ahmadinejad two hours after polls closed; results were authorized immediately.

International Protesters D/DoS

- ▣ Twitter is important
- ▣ Create auto web-page re-loader
- ▣ Add a dose of social outrage
- ▣ DoS turns into DDoS pretty quickly

PAGE REBOOT


PAGE F
great for
the start


Refresh


START


Bookm
Drag the
click on
pagereb
scores,


PAGE F


 [guinnelk](#): PLS RT [@joshkoster](#) We've almost crashed Iran's state controlled media website. Lets finish the job: <http://tinyurl.com/kpa94e> (expand) [#iranelection](#)
about 7 hours ago from [flaprogressives.com](#) · [Reply](#) · [View Tweet](#)


 [sarahburris](#): [@joshkoster](#) *PLS RT* We've almost crashed Iran's state controlled media website Lets finish the job: <http://tinyurl.com/kpa94e> (expand) [#iranelection](#)
about 7 hours ago from [web](#) · [Reply](#) · [View Tweet](#)

 [mattyton](#): RT [@iBurt](#): May be 1000s of miles away, but I can @ least help crash the Iranian state media site! <http://tinyurl.com/kpa94e> (expand) [#iranelection](#)
about 7 hours ago from [TweetDeck](#) · [Reply](#) · [View Tweet](#)

 [PeoriaPundit](#): RT [@joshkoster](#): We've almost crashed Iran's state controlled media website. Lets finish the job: <http://tinyurl.com/kpa94e> (expand) [#iranelection](#)
about 7 hours ago from [web](#) · [Reply](#) · [View Tweet](#)

 [iBurt](#): May be 1000s of miles away, but I can @ least help crash the Iranian state controlled media website! <http://tinyurl.com/kpa94e> (expand) [#iranelection](#)
about 7 hours ago from [web](#) · [Reply](#) · [View Tweet](#)

 [HumanFolly](#): RT [@joshkoster](#): We've almost crashed Iran's state controlled media website. Lets finish the job: <http://tinyurl.com/kpa94e> (expand) [#iranelection](#)
about 7 hours ago from [web](#) · [Reply](#) · [View Tweet](#)

 [stephenesherman](#): RT [stacieboschma](#) Help crash Iran's state media website. Open this auto-reloader: <http://tinyurl.com/kpa94e> (expand) [#iranelection](#) It's working! :)
about 7 hours ago from [web](#) · [Reply](#) · [View Tweet](#)

Meanwhile... in the land of the ever cute Slowloris

- ▣ Low bandwidth
- ▣ Keeps sockets alive
- ▣ Only affects certain web servers
- ▣ Doesn't work through load balancers
- ▣ Managed to work around `accf_http`



Apache's Response

“DoS attacks by tying up TCP connections are expected. Please see:

http://httpd.apache.org/docs/trunk/misc/security_tips.html#dos

Regards, Joe”

- ▣ They've known about it for years...
- ▣ So I decide to release Slowloris in a few days' time when I have a chance to clean up the code... Meanwhile...



Anonymous

Hello, leaders of Iran. We are Anonymous.

As the eyes of the entire world hold you under close scrutiny, the eyes of the internet have taken a similar notice of your recent actions. While the governments of the world condemn you for your suppression of human rights, Anonymous has taken a particular interest in your recent attempts to censor the internet, not only for your own people, but for the citizens of the entire world.

Such suppression of dissent cannot go unpunished. By cutting off communication of the Iranian citizens to the rest of the world, you have made it clear to us that the most revered of human rights - the right to free speech - is no longer important to you. By seeking to silence the voice of the people in an election and subsequently seeking to silence criticism of such a gross cover-up, you have perpetuated the anger and rage of your people. Anonymous has therefore made it our mission to see to it that the voice of the Iranian people can be heard around the world.

Just like another authoritarian religious extremist group, Anonymous will tear down the walls of silence using only the truth - the truth that you are trying so hard to suppress by use of violence, intimidation, and fascist laws.

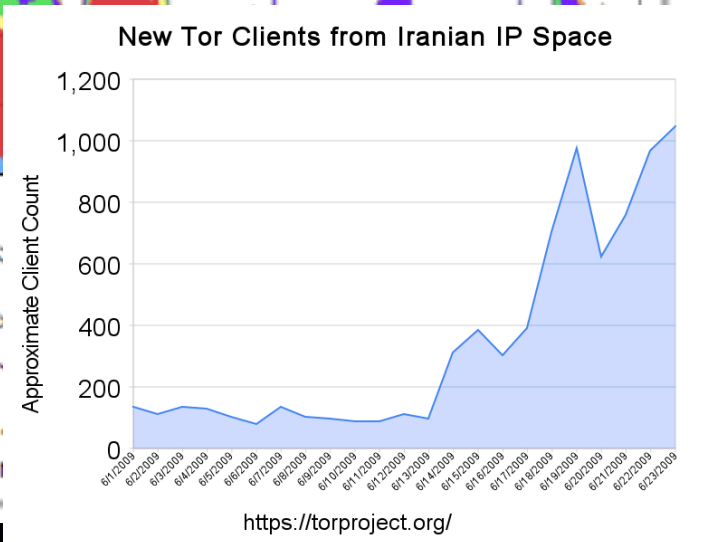
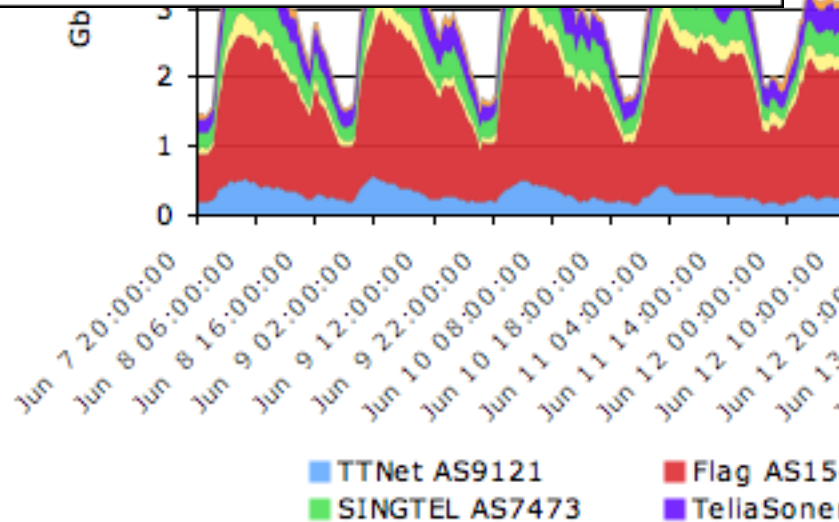
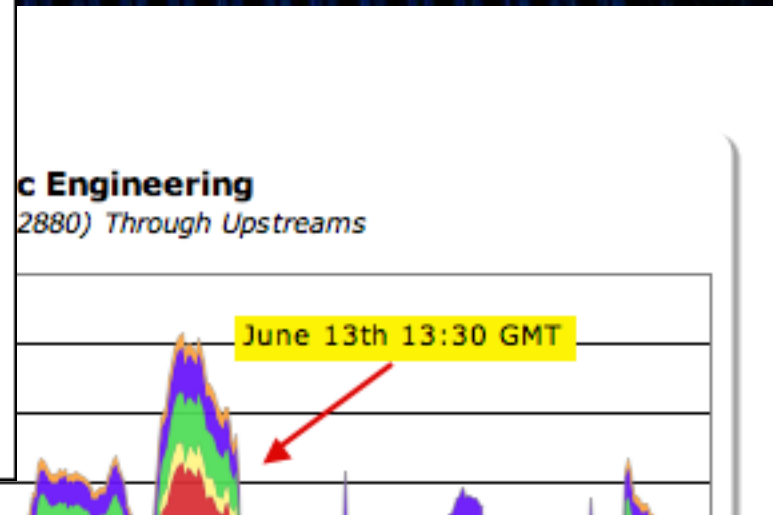
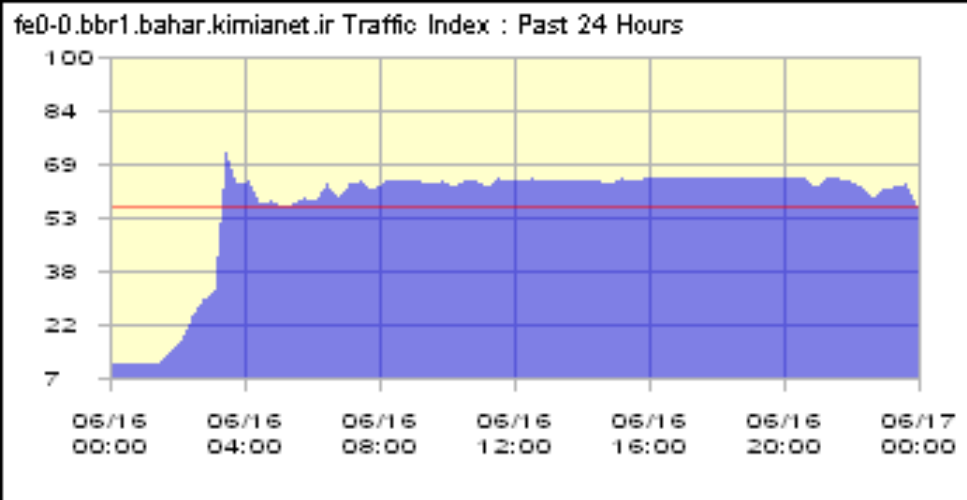
As your people continue to riot and to speak out against you; as you continue to beat and shoot your own citizens in the street; as you continue to lie to the face of the entire world; know that the internet is watching - and we do not like what we see.

Knowledge is free.

We are Anonymous.
We are Legion.
We do not forgive.
We do not forget.



DDoS Increases Against Iran



Unwittingly, I Release Slowloris

- ▣ I release it on my blog and on Twitter
- ▣ Expecting little to no attention
- ▣ For the first few hours things were pretty quiet...

Okay, released the low bandwidth "Slowloris" HTTP DoS:
<http://bit.ly/NAeQk>

8:33 AM Jun 17th from web



[t3rmin4t0r](#): Sometimes some issues are face-palm egg-on-the-face -
<http://hackers.org/slowloris/> ... we have accept buffering, but not for POST!

12 days ago from web · [Reply](#) · [View Tweet](#)

Slowloris and Iran Elections Flare at the Same Time



↑ **lol-dongs** 1 point 2 hours ago [-]

↓ Slowloris, meet 4chan. 4chan, Slowloris.

4chan: O HAI

Slowloris, meet Scientology. Scientology, ...

...

Scientology...?

[permalink](#) [reply](#)

Slashdot /.

So slashdot... (Score:5, Funny)

by [santax \(1541065\)](#) on Friday June 19, @10:22AM (#28389621)

be prepared to feel the slashdot-effect yourself for once!

Reply to This

Re:So slashdot... (Score:5, Informative)

by [jamie \(78724\)](#) * <jamie@slashdot.org> on Friday June 19, @11:13AM (#28390369) [Homepage](#) [Journal](#)

We have a hardware load-balancer and a software reverse proxy (varnish) in front of our apache.

I kinda doubt this would work on us.

Note, I am not inviting anyone to try. It might work great for all I know :(

Reply to This

Parent

Don't Kill All of Iran – Just The Government Websites



Anonymous Iran


From <http://iran.whyweprotest.net/>

Yesterday, 07:38 PM

#4 ([permalink](#))

Unregistered
Guest

Posts: n/a

 **Do not use this dDoS tool, use Slowloris instead.**

Do not do a conventional ddos attack on Iranian targets, as this wastes bandwidth needed by ALL Iranians. Rather, use something like Slowloris which can take down http servers without using much bandwidth at all:

[Slowloris HTTP DoS](#)

This code just hit the wild and should still be quite effective... It was slashdotted earlier today.



 **Quote**

Today, 04:48 PM

#16

Blue Goo

Junior Member

Join Date: Jun 2009
Posts: 5



Brand new technique / tool to bring down ah nej's sites without ruining bandwidth for the iranian rebels <http://ha.ckers.org/slowloris/>



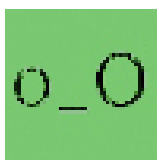
 **Quote**

Twitter Explosion



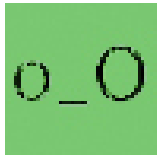
DannoHunn: slowloris is an ir

sanity/whit @renak



muddletoes: انگار
<http://tiny.cc/jQISl>

about 20 hours ago



muddletoes: Try
bad packet attack

about 20 hours ago



buttfungus: @daVidG82 RT URGENT ANYONE USING "SLOWLORIS" TAKE DOWN THIS SITE showing protesters in" wanted list" <http://bit.ly/aareA> (expand) #iranelection #Neda

about 1 hour ago from web · Reply · View Tweet · Show Conversation



AlixandraLove: RT RT URGENT ANYONE USING "SLOWLORIS" TAKE DOWN THIS SITE showing protesters in" wanted list" <http://bit.ly/aareA> (expand) #iranelection #Neda

about 1 hour ago from TweetDeck · Reply · View Tweet



xtarastan: RT URGENT ANYONE USING "SLOWLORIS" TAKE DOWN THIS SITE showing protesters in" wanted list" <http://bit.ly/aareA> (expand) #iranelection #Neda

about 1 hour ago from web · Reply · View Tweet



daVidG82: RT URGENT ANYONE USING "SLOWLORIS" TAKE DOWN THIS SITE showing protesters in" wanted list" <http://bit.ly/aareA> (expand) #iranelection #Neda #Tehran

about 1 hour ago from web · Reply · View Tweet



DominiqueRdr: RT @SashaKane: URGENT ANYONE USING "SLOWLORIS" TAKE DOWN THIS SITE showing protesters in wanted list <http://bit.ly/aareA> (expand) #iranelection #Neda

about 1 hour ago from TweetDeck · Reply · View Tweet



vizcult: RT URGENT ANYONE USING "SLOWLORIS" TAKE DOWN THIS SITE showing protesters in" wanted list" <http://bit.ly/aareA> (expand) #iranelection #Neda

about 1 hour ago from web · Reply · View Tweet



OwlAmerica: RT URGENT ANYONE USING "SLOWLORIS" TAKE DOWN THIS SITE showing protesters in" wanted list" <http://bit.ly/aareA> (expand)

about 1 hour ago from Power Twitter · Reply · View Tweet

- 42 pages later... slowloris is de-facto turned into a DDoS tool

Oh Apache... *sigh*

ASF Bugzilla - Bug 47386

Actions: [Home](#) | [New](#) | [Search](#) |

[First](#) [Last](#) [Prev](#) [Next](#) No search results available

[Bug 47386](#) -

Summary: Remote Apache TCP stack DOS

Status: RESOLVED INVALID

Product: Apache httpd-2

Component: All

Version: 2.2.11

Platform: All All

Importance: P2 critical ([vote](#))

Target Milestone: ---

Assigned To: [Apache HTTPD Bugs Mailing List](#)

URL:

Keywords:

Depends on:

Blocks:

Show dependency [tree](#) / [graph](#)

Remote Apache TCP stack DOS

[#] DoS - Httpd Wiki - Mozilla Firefox [#]

File Edit View History Bookmarks Tools Help

[http://wiki.apache.org/httpd/DoS](#)

Httpd Wiki

[Login](#)

Search:

Titles

Te:

[FrontPage](#)

[RecentChanges](#)

[FindPage](#)

[HelpContents](#)

DoS

Immutable Page

[Show Changes](#)

[Get Info](#)

More Actions:

[Show Raw Text](#)

[Do](#)

DoS

The "slowloris" script is not a new attack. But by demonstrating the attack and giving it a personality, it has drawn attention to a significant weakness in Apache HTTPD. We need a response to that, with information on risks and mitigation for server admins.

Mitigation is the wrong approach.

We all know our architecture is wrong.

We have started on fixing it, but we need to finish the async input rewrite on trunk, but all of the people who have hacked on it, myself included have hit ENOTIME for the last several years.

Hopefully the publicity this has generated will get renewed interest in solving this problem the right way, once and for all :)

It doesn't need to be the simple mpm, or the event mpm, its not even about MPMs, its about how the whole input filter stack works.

So.. i write yet another email about it... and disappear in the ether of ENOTIME once again.....

-Paul



شماره 49



شماره 50



شماره 51



شماره 52



شماره 53



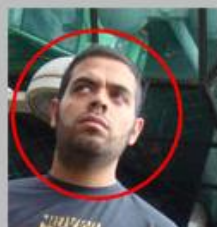
شماره 54



شماره 55



شماره 56



شماره 57



شماره 58



شماره 59



شماره 60



شماره 61



شماره 62



شماره 63



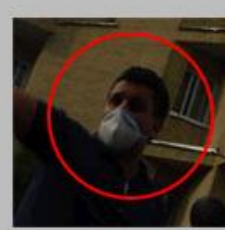
شماره 64



شماره 65



شماره 66



شماره 67



شماره 68



شماره 69



شماره 70



شماره 71



شماره 72



dimanche 28 juin 2009

How to help take down gerdab.ir in 5 easy steps

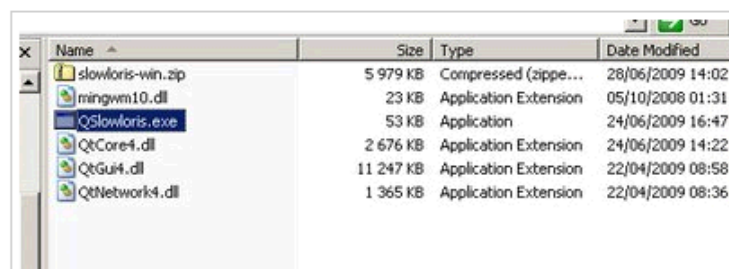
Please help the protestors and send addresses of similar ill-intended websites to cyberwar4iran@gmail.com

[This page on gerdab.ir](#) shows faces of protestors in the previous Iran demonstrations. We now very well [what will happen to them if they get caught...](#)

This ominous site can be bought down with your help in 5 easy steps (Windows only) :

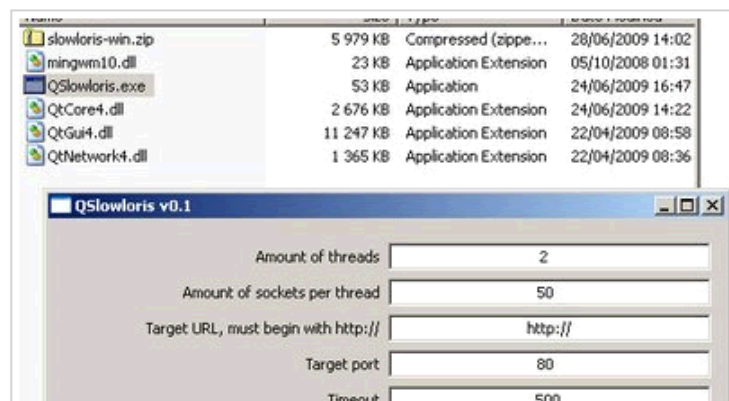
1 - Download Slowloris here : <http://www.megaupload.com/?d=P5BARST4>

2 - Extract the files in slowloris.zip . You would obtain that :



Name	Size	Type	Date Modified
slowloris-win.zip	5 979 KB	Compressed (zippe...	28/06/2009 14:02
mingwm10.dll	23 KB	Application Extension	05/10/2008 01:31
QSlowloris.exe	53 KB	Application	24/06/2009 16:47
QtCore4.dll	2 676 KB	Application Extension	24/06/2009 14:22
QtGui4.dll	11 247 KB	Application Extension	22/04/2009 08:58
QtNetwork4.dll	1 365 KB	Application Extension	22/04/2009 08:36

3 - Execute QSlowloris.exe



3rd Party Implementations

- ▣ PyLoris
 - <http://motomastyle.com/pyloris-a-python-implementation-of-slowloris/>
- ▣ PHP version:
 - <http://seclists.org/fulldisclosure/2009/Jun/0207.html>
- ▣ Questionable EXE version
 - <http://cyberwar4iran.blogspot.com/>
- ▣ “Slugsend”?





Grains of Sand

“When consumers think they’re special, they’re right but for completely the wrong reason.”

Passwords

- ▣ 100 embassy passwords
- ▣ 50% password re-use between social networking and web-mail (est. by phishers).
- ▣ Password management is not a solved problem for consumers.
- ▣ Single factor.

Kazakhstan Embassy in Egypt
213.131.64.229 kazaemb piramid

Mongolian Embassy in USA
209.213.221.249
n.tumenbayer@mongolianembassy.us
temp

UK Visa Application Centre in Nepal
208.109.119.54 vfsuknepal@vfs-uk-
np.com Password

Defense Research & Development
Organization Govt. Of India, Ministry of
Defense jpsingh@drdo.com password+1

Indian Embassy in USA
amb@indianembassy.org 1234

Iran Embassy in Ghana 217.172.99.19
iranemb_accra@mfa.gov.ir accra

Iran Embassy in Kenya 217.172.99.19
iranemb_kenya@mfa.gov.ir kenya

Hong Kong Liberal Party 202.123.79.164
miriamlau 123456

Clouds of Insecurity

 H_i

Google Apps Security Questioned After Twitter Leak

Analysis: Twitter suffers a significant security breach, brought on by a Twitter employee's Google Apps account being hacked.

Seth H. Weintraub, Computerworld

 [Email](#)  [Print](#)  [RSS](#)  [0 Comments](#)

Regards,

Cindy S.
Amazon Web Services
<http://aws.amazon.com>

Google Apps Security Questioned After Twitter Leak

Analysis: Twitter suffers a significant security breach, brought on by a Twitter employee's Google Apps account being hacked.

Seth H. Weintraub, Computerworld

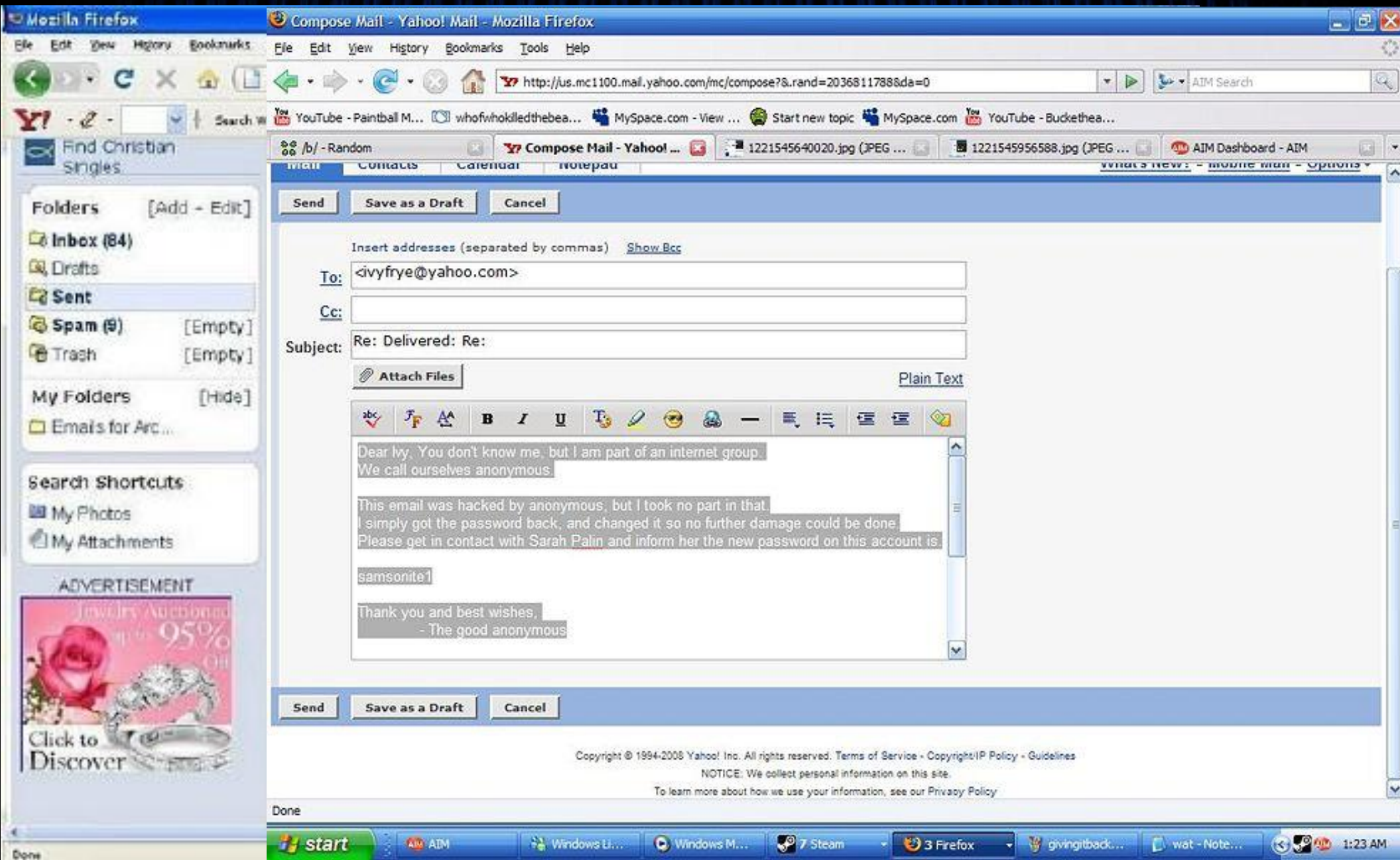
 [Email](#)  [Print](#)  [RSS](#)  [0 Comments](#)

0 Yes 0 No

Recommends

Twitter uses Google Docs for information sharing. How do I know this? Well, it seems Twitter Inc. has had a pretty significant security breach which was brought on by a Twitter employee's Google Apps account being hacked. Have a look below at one of the screenshots the hacker has sent to various news sites.

Sarah Palin



Future of Spamming

- ▣ Personas
 - ▣ Age
 - ▣ Demographic
 - ▣ Marital status
 - ▣ Interests
 - ▣ Zodiac
 - ▣ Birth date
 - ▣ Friends
 - ▣ Perfect weather
 - ▣ Locale
 - ▣ Etc...

Questions/Comments?

▣ Robert Hansen

- Robert aT sectheory d0t c0m
- <http://www.sectheory.com/>
- <http://ha.ckers.org/>
- TBD: Book – “Detecting Malice”
- XSS Book: XSS Exploits and Defense
 - ▣ ISBN: 1597491543

