Wordpress Comment, Referrer and Ghost Spam:

How to Track Down Spammers

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Talking Points

- Overview: Comment, Referrer, and Ghost Spam
- Why is Spam Bad
- Tools Used:
 - Akismet plugin, reCapcha plugin
 - Learn: Raw access log
 - Search: Whois.com: public IP information
 - Learn: CIDR IP notation
- Demo: trace WP comment spam to access log, ban
 - Dual IP Spam: How to trick akismet spam filter
- Hierarchy of Site Security
- Demo: Referrer Spam/Bad Bot Behaviour: Identify, ban
- Google Analytics and Ghost Spam

Overview of Website of Spam

- 1. Comment Spam: Hits your site
 - -where: Admin > comments > spam folder
 - -where: access log
 - -results in Google Search if not managed
- 2. Referrer Spam: Hits your site, not in WP Admin
 - -where: access log
 - -see it in Google Analytics
- 3. Ghost Spam: Spammer does not visit your site
 - -where: not in WP Admin or access log
 - -see it in Google Analytics

Why Spam is Bad

Why Kill Spam

- Clutters your site, unwanted links, unprofessional look

Why prevent Spam

- spend less time deleting comment spam
- skews Google Search and Analytics
- wastes bandwidth, server resources

Site Security Concerns

- security risk: spammers try to crack your security, site, plugins

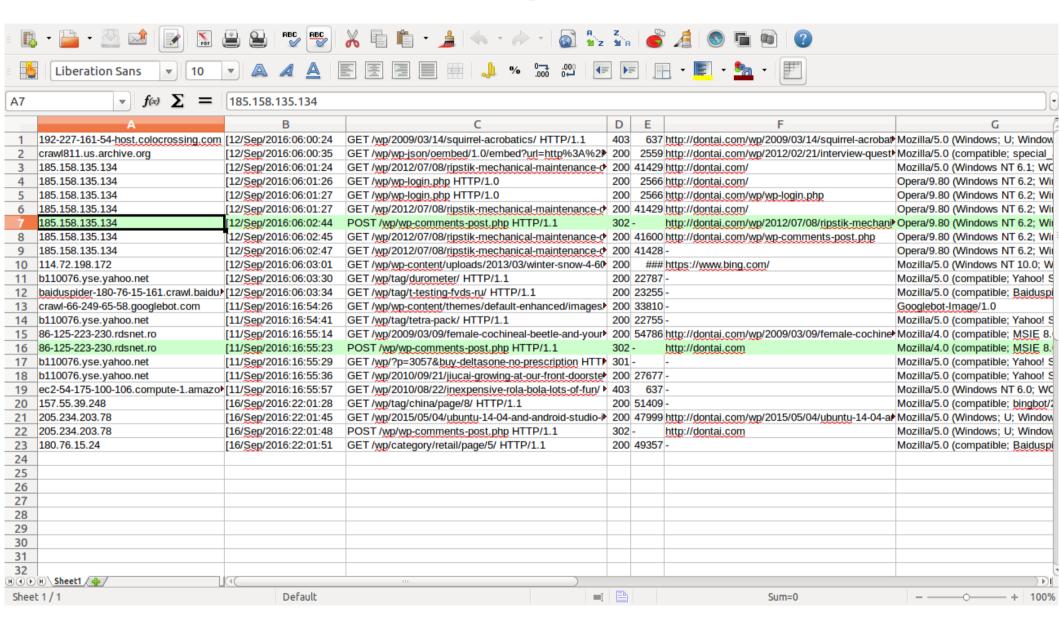
Tools Used

- Akismet plugin, reCapcha plugin
 - Isolates spam from site, does not stop it
- Learn: Raw access log
- Search: Whois.com: public IP information
- Learn: CIDR IP notation
 - Classless Inter-Domain Routing
 - 192.16.1.0 *-* 192.168.1.255 *>* 192.168.1.0/24
 - -192.16.0.0 192.168.255.255 > 192.168.1.0/16

Raw Access Log

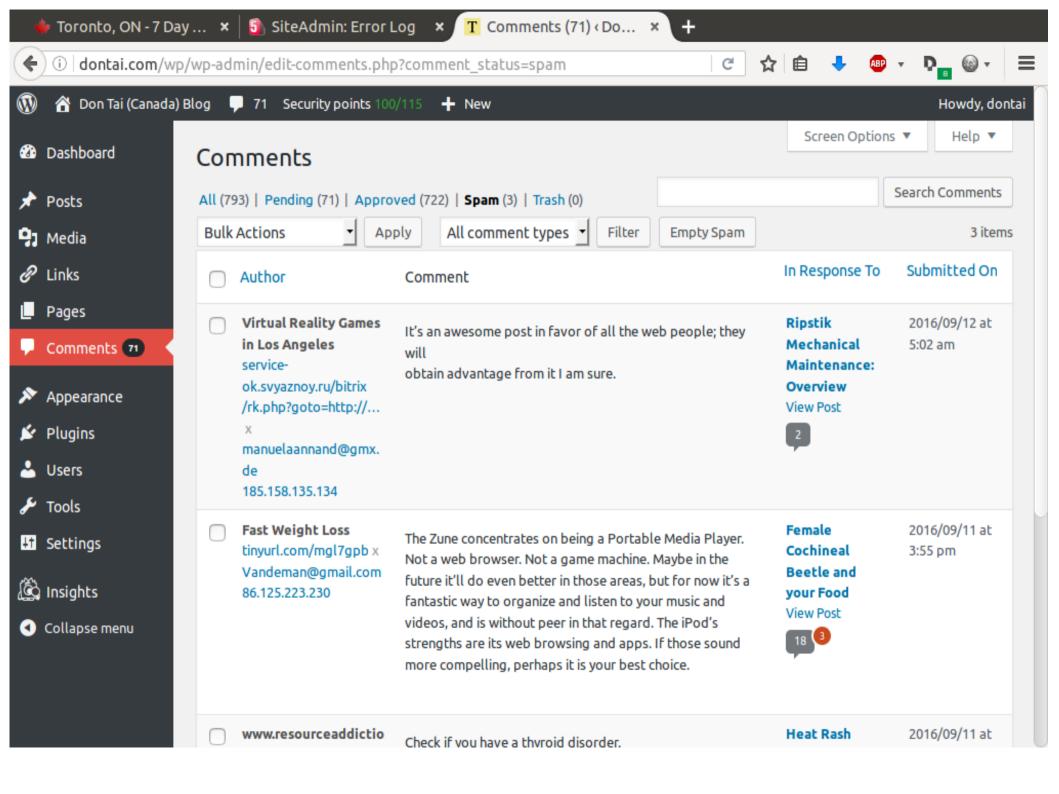
- What is it, where to find yours?
 - Important web site forensic tool: daily, cumulative monthly
 - Available for Shared service, ISP: cpanel
 - Not available from wordpress.com
- Download, unzip, import access log into spreadsheet
- The columns of the access log
 - Ip/host name, date-time, action done, result code, bytes transferred, referrer, user agent
 - Ex: Don, yesterday evening, drive to Chinese store to buy moon cake, success, gas used/moon cake cost, came from home, Honda Fit
- How do I use it?

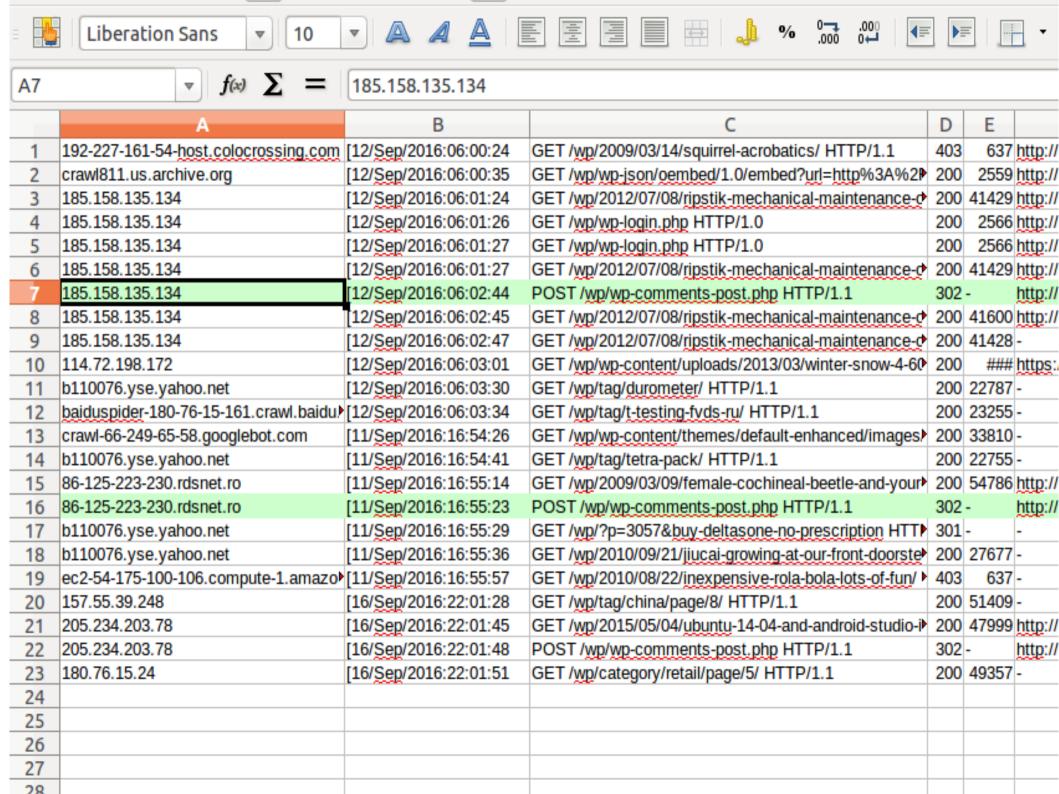
Access Log: Columns



Demo: WP Comment Spam

- Find a spam entry in Admin > comments > Spam
- Find identical spam transaction in access log
- Check log for dual IP spammer
- Search Whois.com, find their IP range
- Ban ip using htaccess, WP-Ban
 - Ban as little as possible, but enough
 # Digital Energy UK 185.158.132.0 185.158.135.255
 deny from 185.158.135.0/24 86.125.223.0/24

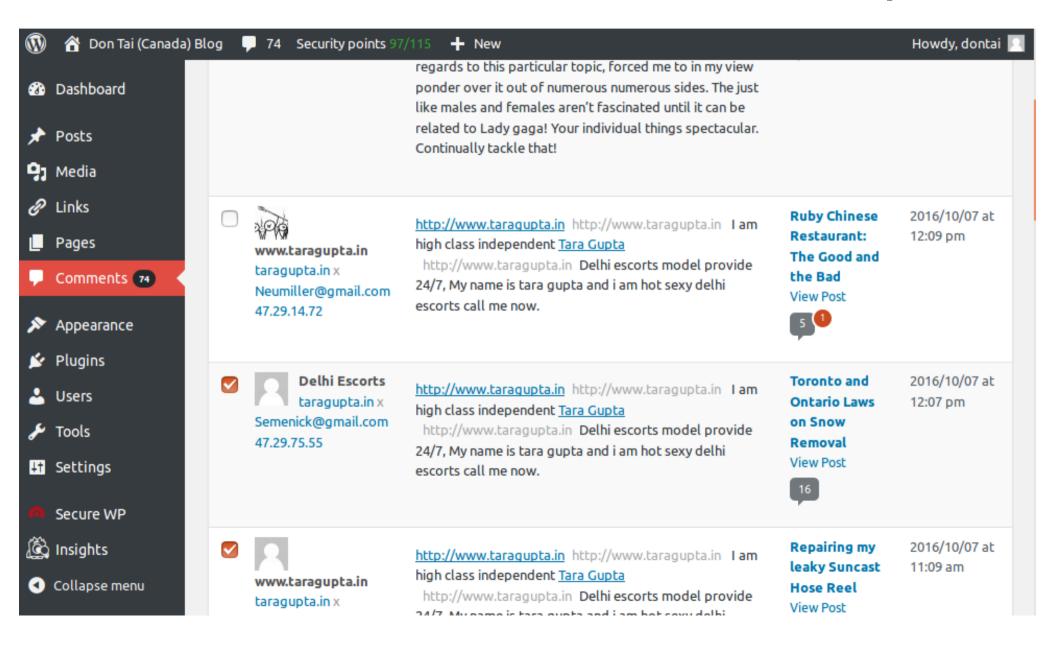




IP Ban Strategy

- Spammer's Naughty IP: 86.125.223.230
- Immediate Ban: 86.125.223.0/24 (256 addresses in last octet)
- Whois Lookup:
 - 86.125.216.0 86.125.223.255
 - netname: RO-RCS-RDS, RCS & RDS Residential
 - Secondary Ban range: 86.125.216.0/21 (1,792 lps)
- Ban their ISP
 - 86.120.0.0 86.127.255.255
 - Third Ban range: 86.120.0.0/13 (462,336 IPs)
 - descr: RDSNET
 - Could try contacting their ISP
- Ballistic Ban Strategy: Find all Ips owned by RO-RCS-RDS, ban them

WP Admin: IP Dual Comment Spam



Access Log: Dual IP Comment Spam

207.46.13.55	[07/Oct/2016:13:07:26	GET /wp/2010/08/18/banning-kite-flying-in-toron	200	42938	-
192.243.55.129	[07/Oct/2016:13:07:32	GET /wp?lumigan-for-sale&p=3707 HTTP/1.1	500	-	-
207.35.163.162	[07/Oct/2016:13:08:22	GET /wp/wp-content/uploads/2012/07/Toronto-D	200	###	http://www.bing.com/images
207.35.163.162	[07/Oct/2016:13:08:22	GET /wp/wp-content/uploads/2012/07/Toronto-P	200	###	http://www.bing.com/images
180.76.15.160	[07/Oct/2016:13:08:28	GET /wp/tag/charter-of-rights/ HTTP/1.1	200	29377	-
66.249.65.56	[07/Oct/2016:13:09:04	GET /wp/2013/10/05/ikea-aventuria-halogen-cei	200	27988	-
203.124.29.64	[07/Oct/2016:13:09:05	GET /wp/wp-content/uploads/2016/02/presto-pr	200	###	-
192.243.55.130	[07/Oct/2016:13:09:06	GET /wp/2010/09/21/looking-for-ryan-wright-mov	500	-	-
47.29.116.88	[07/Oct/2016:13:09:16	GET /wp/2009/10/10/ruby-chinese-restaurant-th	200	36598	http://dontai.com
47.29.14.72	[07/Oct/2016:13:09:20	POST /wp/wp-comments-post.php HTTP/1.1	302	-	http://dontai.com
47.29.14.72 163.150.129.55	[07/Oct/2016:13:09:20 [07/Oct/2016:13:09:21	POST /wp/wp-comments-post.php HTTP/1.1 GET /wp/wp-content/uploads/2009/11/DSC0161			http://dontai.com https://www.google.com/
_	•	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	200	###	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
163.150.129.55	[07/Oct/2016:13:09:21	GET /wp/wp-content/uploads/2009/11/DSC0161	200	###	https://www.google.com/ http://dontai.com
163.150.129.55 47.29.18.198	[07/Oct/2016:13:09:21 [07/Oct/2016:13:09:22	GET /wp/wp-content/uploads/2009/11/DSC0161 GET /wp/2009/10/10/ruby-chinese-restaurant-the	200 200 200	### 36678 26249	https://www.google.com/ http://dontai.com
163.150.129.55 47.29.18.198 68.180.229.111	[07/Oct/2016:13:09:21 [07/Oct/2016:13:09:22 [07/Oct/2016:13:09:49	GET /wp/wp-content/uploads/2009/11/DSC0161 GET /wp/2009/10/10/ruby-chinese-restaurant-the GET /prettybuttoner/tag/marvel/ HTTP/1.1	200 200 200 403	### 36678 26249 635	https://www.google.com/ http://dontai.com -
163.150.129.55 47.29.18.198 68.180.229.111 70.28.245.79	[07/Oct/2016:13:09:21 [07/Oct/2016:13:09:22 [07/Oct/2016:13:09:49 [07/Oct/2016:13:09:52	GET /wp/wp-content/uploads/2009/11/DSC0161 GET /wp/2009/10/10/ruby-chinese-restaurant-the GET /prettybuttoner/tag/marvel/ HTTP/1.1 GET /wp/wp-content/uploads/2016/05/briggs-str	200 200 200 403 200	### 36678 26249 635 62886	https://www.google.com/ http://dontai.com - https://www.google.ca/ https://www.google.ca/
163.150.129.55 47.29.18.198 68.180.229.111 70.28.245.79 142.26.99.72	[07/Oct/2016:13:09:21 [07/Oct/2016:13:09:22 [07/Oct/2016:13:09:49 [07/Oct/2016:13:09:52 [07/Oct/2016:13:10:31	GET /wp/wp-content/uploads/2009/11/DSC0161 GET /wp/2009/10/10/ruby-chinese-restaurant-the GET /prettybuttoner/tag/marvel/ HTTP/1.1 GET /wp/wp-content/uploads/2016/05/briggs-stell GET /wp/wp-content/uploads/2009/02/missouri-	200 200 200 403 200 200	### 36678 26249 635 62886 20497	https://www.google.com/ http://dontai.com - https://www.google.ca/ https://www.google.ca/

Hierarchy of Site Security

Priority

- Attempt to break into site: POST /wp-login
- Look for security loopholes in WP core, plugins, server, odd URLs, other
- Comment spam
- Referrer spam

Secondary

- Wasting server resources, bandwidth > ISP might shut down your site
- Content scraping
- Hotlinking to your images
- Ghost spam

Demo: Referrer Spam/Bad Bot Behaviour

Look in your Access Log for suspicious referrer entries, ban

```
RewriteCond %{HTTP_REFERER} ^http://.*pornogig [OR]
RewriteCond %{HTTP_REFERER} ^http://.*buttons-for-website [OR]
```

- Do not go to referrer sites with a browser, you'll get malware
- Suspicious User Agent: ban
 - RewriteCond %{HTTP_USER_AGENT} ^.*sysomos [NC,OR]
 - RewriteCond %{HTTP_USER_AGENT} ^.*kodomia [NC,OR]
- Look for Bad behaviour, then ban IP
 - Document and Ban
 - larger range provides more protection, more collateral damage (inadvertently ban users near this ip address)
 - smaller range provides less protection, less collateral damage

Access Log: Referrer Spam

111.47.171.57	[07/Apr/2016:09:32:34	GET /wp/2009/02/09/monster-ne	301 -		http://businessfields.ru/jokes/45.html	Mozill
111.47.171.57	[07/Apr/2016:09:32:41	GET /reasoned.php HTTP/1.1	200	9410	http://businessfields.ru/jokes/45.html	Mozill
ec2-52-53-219-173.us-west-1.compute.a	[07/Apr/2016:09:33:32	GET /reasoned.php HTTP/1.1	200	9369	http://businessfields.ru/jokes/45.html	Mozill
177-2-85-220.3g.brasiltelecom.net.br	[27/Apr/2016:11:26:05	GET / HTTP/1.1	301	231	http://buttons-for-website.com	Mozill
177-2-85-220.3g.brasiltelecom.net.br	[27/Apr/2016:11:26:06	GET /root/ HTTP/1.1	200	11242	http://buttons-for-website.com	Mozill
187-13-181-82.user.veloxzone.com.br	[22/Apr/2016:17:07:31	GET / HTTP/1.1	301	231	http://buttons-for-website.com	Mozill
187-13-181-82.user.veloxzone.com.br	[22/Apr/2016:17:07:32	GET /root/ HTTP/1.1	200	11228	http://buttons-for-website.com	Mozill
191.249.9.151.dynamic.adsl.gvt.net.br	[18/Apr/2016:12:17:21	GET / HTTP/1.1	301	231	http://buttons-for-website.com	Mozill
191.249.9.151.dynamic.adsl.gvt.net.br	[18/Apr/2016:12:17:22	GET /root/ HTTP/1.1	200	41170	http://buttons-for-website.com	Mozill
196.21.236.5	[21/Apr/2016:04:24:47	GET / HTTP/1.1	301	231	http://buttons-for-website.com	Mozill
196.21.236.5	[21/Apr/2016:04:24:48	GET /root/ HTTP/1.1	200	40967	http://buttons-for-website.com	Mozill
203.215.117.85	[11/Apr/2016:03:27:06	GET / HTTP/1.1	301	231	http://buttons-for-website.com	Mozill
203.215.117.85	[11/Apr/2016:03:27:07	GET /root/ HTTP/1.1	200	42939	http://buttons-for-website.com	Mozill
250.pool92-177-96.dynamic.orange.es	[23/Apr/2016:08:27:11	GET / HTTP/1.1	301	231	http://buttons-for-website.com	Mozill
250.pool92-177-96.dynamic.orange.es	[23/Apr/2016:08:27:12	GET /root/ HTTP/1.1	200	41202	http://buttons-for-website.com	Mozill
78-187-162.adsl.cyta.gr	[22/Apr/2016:08:20:40	GET / HTTP/1.1	301	231	http://buttons-for-website.com	Mozill
78-187-162.adsl.cyta.gr	[22/Apr/2016:08:20:40	GET /root/ HTTP/1.1	200	41185	http://buttons-for-website.com	Mozill
93-40-201-145.ip40.fastwebnet.it	[25/Apr/2016:14:58:32	GET / HTTP/1.1	301	231	http://buttons-for-website.com	Mozill
93-40-201-145.ip40.fastwebnet.it	[25/Apr/2016:14:58:33	GET /root/ HTTP/1.1	200	11242	http://buttons-for-website.com	Mozill
b39f48a8.virtua.com.br	[19/Apr/2016:17:33:35	GET / HTTP/1.1	301	231	http://buttons-for-website.com	Mozill
b39f48a8.virtua.com.br	[19/Apr/2016:17:33:35	GET /root/ HTTP/1.1	200	41204	http://buttons-for-website.com	Mozill
porta78.shop-le-bescuit.as28624.oops.net	[20/Apr/2016:12:05:33	GET / HTTP/1.1	301	231	http://buttons-for-website.com	Mozill
porta78.shop-le-bescuit.as28624.oops.net	[20/Apr/2016:12:05:35	GET /root/ HTTP/1.1	200	41103	http://buttons-for-website.com	Mozill
static-wan-bl3-198-90.rev.webside.pt	[08/Apr/2016:10:48:09	GET / HTTP/1.1	301	231	http://buttons-for-website.com	Mozill
static-wan-bl3-198-90.rev.webside.pt	[08/Apr/2016:10:48:10	GET /root/ HTTP/1.1	200	11558	http://buttons-for-website.com	Mozill
176-8-91-153-lvv.broadband.kyivstar.net	[21/Apr/2016:15:46:22	GET /wp/tag/awstats/ HTTP/1.1	500 -		http://buutranelun.wordpress.com	Mozill
107.151.152.210	[05/Apr/2016:03:35:45	GET /reasoned.php HTTP/1.1	200	9334	http://buycheapsildenafils.net/	Mozill
	TOT 14 1004 C-00-0T-00	OFT III	201		L.L. 111	NA:II

Google Analytics: Referrer Spam

		Acquisition	Behavior			
	Source ?	Sessions (?)	% New Sessions	New Users (?)	Bounce Rate	
		2,844 % of Total: 4.80% (59,269)	46.03% Avg for View: 73.47% (-37.35%)	1,309 % of Total: 3.01% (43,542)	26.65% Avg for View: 30.00% (-11.15%)	
		2 € € %	Z E ≡ %	Z E ≡ %	z E ≡ %	
	1. 173.194.44.2	1 (0.04%)	100.00%	1 (0.08%)	100.00%	
	2. akademie.medio.cz	1 (0.04%)	100.00%	1 (0.08%)	100.00%	
	3. alexa.com	1 (0.04%)	100.00%	1 (0.08%)	100.00%	
	4. allmetrics.ru	1 (0.04%)	100.00%	1 (0.08%)	100.00%	
0	5. app.yaware.com.ua	1 (0.04%)	100.00%	1 (0.08%)	100.00%	
0	6. blog.commercialtribe.com	1 (0.04%)	0.00%	0 (0.00%)	100.00%	
0	7 buttons-for-website.com	29 (1.02%)	100.00%	29 (2.22%)	100.00%	

Access Log: User Agents

)	204.112.53.31	[25/Sep/2016:1) G	ET /wp/wp-content/uploads/2	200 91944	http://dontai.com/wp/2010/06/03/d	Mozilla/5.0 (Macintosh; Intel Mac OS X 10_11_6) AppleWebKit/537.36 (KHTML
	204.112.53.31	[25/Sep/2016:1) G	ET /wp/wp-includes/js/wp-en	200 10414	http://dontai.com/wp/2010/06/03/d	Mozilla/5.0 (Macintosh; Intel Mac OS X 10_11_6) AppleWebKit/537.36 (KHTML
!	204.112.53.31	[25/Sep/2016:1) G	ET /wp/wp-content/themes/d	200 846	http://dontai.com/wp/wp-content/t	Mozilla/5.0 (Macintosh; Intel Mac OS X 10_11_6) AppleWebKit/537.36 (KHTML
1	204.112.53.31	[25/Sep/2016:1) G	ET /favicon.ico HTTP/1.1	200 894	http://dontai.com/wp/2010/06/03/d	Mozilla/5.0 (Macintosh; Intel Mac OS X 10_11_6) AppleWebKit/537.36 (KHTML
ļ	204.112.53.31	[25/Sep/2016:1) GI	ET /wp/wp-content/themes/d	200 894	http://dontai.com/wp/2010/06/03/d	Mozilla/5.0 (Macintosh; Intel Mac OS X 10 11 6) AppleWebKit/537.36 (KHTML
5	204.12.255.130	[26/Sep/2016:0) GI	ET //wp/wp-login.php HTTP/)	500 -	-	-
j	204.194.29.4	[26/Sep/2016:0) GI	ET /root/comment/reply/58/ >	200 33243	http://dontai.com/root/comment/re	Mozilla/5.0 (Windows NT 10.0; WOW64) AppleWebKit/537.36 (KHTML, like Geo
,	204.194.29.4	[26/Sep/2016:0) Po	OST /root/comment/reply/58	200 33645	http://dontai.com/root/comment/re	Mozilla/5.0 (Windows NT 6.1; WOW64; rv:42.0) Gecko/20100101 Firefox/42.0
1	204.237.81.150	[25/Sep/2016:2 G	ET /images/cb125sShemCly	200 ###	https://www.google.ca/	Mozilla/5.0 (Windows NT 6.0) AppleWebKit/537.36 (KHTML, like Gecko) Chrom
)	204.80.187.229	[25/Sep/2016:1 G	ET /wp/wp-content/uploads/2	200 ####	https://www.bing.com/	Mozilla/5.0 (Windows NT 6.0) AppleWebKit/537.36 (KHTML, like Gecko) Chrom
)	205.139.141.54	[25/Sep/2016:0) G	ET /root/rss.xml HTTP/1.1	500 -	-	Mozilla/5.0 (compatible; Sysomos/1.0; +http://www.sysomos.com/; Sysomos)
	205.139.141.54	[25/Sep/2016:1 G	ET /wp/feed HTTP/1.1	500 -	-	Mozilla/5.0 (compatible; Sysomos/1.0; +http://www.sysomos.com/; Sysomos)
	205.139.141.54	[25/Sep/2016:1 G	ET /wp/feed HTTP/1.1	500 -	-	Mozilla/5.0 (compatible; Sysomos/1.0; +http://www.sysomos.com/; Sysomos)
	206.190.34.200	[25/Sep/2016:0) G	ET /wp/wp-content/uploads/2	200 56682	http://in.images.search.yahoo.com	YahooCacheSystem; YahooWebServiceClient
ļ	206.217.142.135	[25/Sep/2016:1) G	ET /root/comment/reply/51 ₽	403 638	http://dontai.com/	Mozilla/5.0 (X11; Linux i686; rv:17.0) Gecko/20100101 Firefox/17.0
;	206.217.142.135	[25/Sep/2016:1) G	ET / HTTP/1.1	403 638	http://dontai.com	Mozilla/5.0 (X11; Linux i686; rv:17.0) Gecko/20100101 Firefox/17.0
j	206.25.68.217	[25/Sep/2016:0 G	ET /wp/ HTTP/1.1	500 -	-	GridBot/1.0 crawler@sysomos.com
,	206.25.68.218	[25/Sep/2016:1) G	ET /wp/ HTTP/1.1	500 -	-	GridBot/1.0 crawler@sysomos.com
}	207.102.138.158	[25/Sep/2016:2) G	ET /prettybuttoner/ HTTP/1.3	301 -	http://prettybuttoner.com/	Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chro
)	207.102.138.158	[25/Sep/2016:2) G	ET /prettybuttoner/ HTTP/1.3	200 56255	http://prettybuttoner.com/	Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chro
)	207.182.140.210	[26/Sep/2016:0 G	ET / HTTP/1.1	301 231	L -	M
	207.182.140.210	[26/Sep/2016:0 G	ET /root/ HTTP/1.1	200 11057	http://www.dontai.com/	M
	207.182.140.213	[26/Sep/2016:0) G	ET / HTTP/1.1	301 231	L -	Mozilla/5.0 (Windows NT 6.1; Win64; x64; +http://www.komodia.com/newwiki/ir
	207.182.140.214	[26/Sep/2016:0) G	ET /root/ HTTP/1.1	200 41190)-	Mozilla/5.0 (Windows NT 6.1; Win64; x64; +http://www.komodia.com/newwiki/ir
ŀ	207.210.45.238	[25/Sep/2016:1) G	ET /wp/wp-content/uploads/2	200 47125	https://www.google.ca/	Mozilla/5.0 (Linux; Android 6.0.1; SAMSUNG SM-G920W8 Build/MMB29K) App
	207.210.45.238	[25/Sep/2016:1 G	ET /wp/wp-content/uploads/2	200 47125	https://www.google.ca/	Mozilla/5.0 (Linux; Android 6.0.1; SAMSUNG SM-G920W8 Build/MMB29K) App
j	207.46.13.0	[25/Sep/2016:1 G	ET /wp/2012/04/21/xubuntu->	301 -	-	Mozilla/5.0 (compatible; bingbot/2.0; +http://www.bing.com/bingbot.htm)
,	207.46.13.113	[26/Sep/2016:0 G	ET /wp/2009/12/10/when-you	200 30233	3 -	Mozilla/5.0 (compatible; bingbot/2.0; +http://www.bing.com/bingbot.htm)
	207 40 10 112	1001010010-0101	FT 1 14 14 14 1 1 k	200 22122	,i i	Manifest O. Communication bisochesto Oc. (better former bisochest

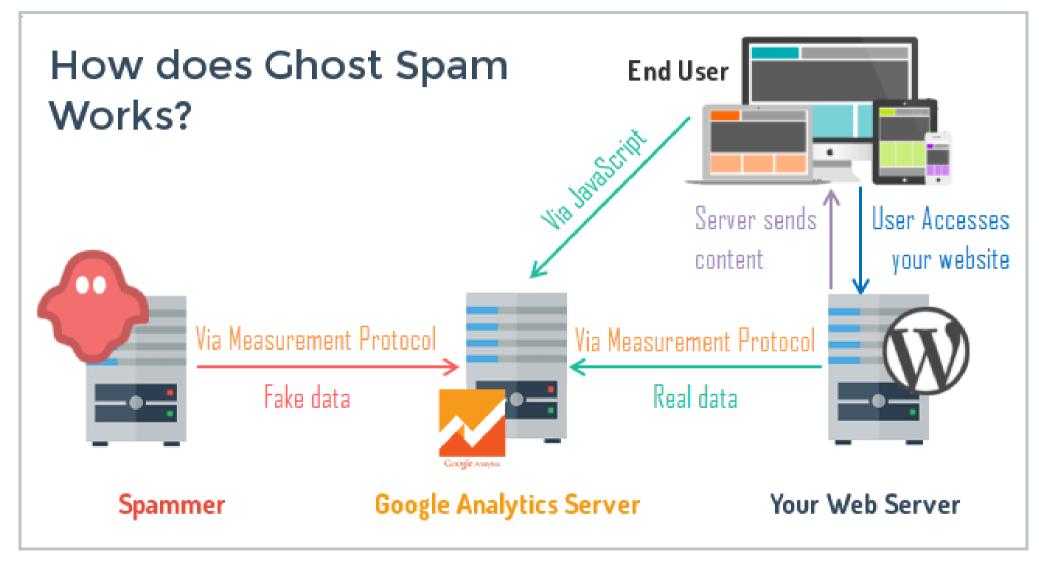
Access Log: Login Attempts

182.71.210.86	[22/Sep/2016:19:56:11	POST /wp/wp-login.php HTTP/1.0	200	3430 -
182.71.210.86	[22/Sep/2016:19:56:13	POST /wp/wp-login.php HTTP/1.0	200	3430 -
182.71.210.86	[22/Sep/2016:19:56:14	POST /wp/wp-login.php HTTP/1.0	200	3430 -
182.71.210.86	[22/Sep/2016:19:56:17	POST /wp/wp-login.php HTTP/1.0	404 -	- -
220.178.107.242	[22/Sep/2016:19:56:18	POST /wp/wp-login.php HTTP/1.0	301 -	- -
31.214.152.205	[22/Sep/2016:19:57:12	POST /wp/wp-login.php HTTP/1.0	200	3478 -
31.214.152.205	[22/Sep/2016:19:57:14	POST /wp/wp-login.php HTTP/1.0	200	3478 -
31.214.152.205	[22/Sep/2016:19:57:15	POST /wp/wp-login.php HTTP/1.0	200	3478 -
31.214.152.205	[22/Sep/2016:19:57:17	POST /wp/wp-login.php HTTP/1.0	200	3478 -
31.214.152.205	[22/Sep/2016:19:57:18	POST /wp/wp-login.php HTTP/1.0	200	3478 -
31.214.152.205	[22/Sep/2016:19:57:19	POST /wp/wp-login.php HTTP/1.0	200	3478 -
31.214.152.205	[22/Sep/2016:19:57:20	POST /wp/wp-login.php HTTP/1.0	200	3478 -
31.214.152.205	[22/Sep/2016:19:57:21	POST /wp/wp-login.php HTTP/1.0	200	3478 -
31.214.152.205	[22/Sep/2016:19:57:23	POST /wp/wp-login.php HTTP/1.0	200	3478 -
31.214.152.205	[22/Sep/2016:19:57:24	POST /wp/wp-login.php HTTP/1.0	200	3478 -
31.214.152.205	[22/Sep/2016:19:57:26	POST /wp/wp-login.php HTTP/1.0	200	3478 -
31.214.152.205	[22/Sep/2016:19:57:27	POST /wp/wp-login.php HTTP/1.0	200	3478 -
31.214.152.205	[22/Sep/2016:19:57:28	POST /wp/wp-login.php HTTP/1.0	200	3478 -
31.214.152.205	[22/Sep/2016:19:57:29	POST /wp/wp-login.php HTTP/1.0	200	3478 -
31.214.152.205	[22/Sep/2016:19:57:31	POST /wp/wp-login.php HTTP/1.0	200	3478 -
31.214.152.205	[22/Sep/2016:19:57:32	POST /wp/wp-login.php HTTP/1.0	200	3478 -
31.214.152.205	[22/Sep/2016:19:57:33	POST /wp/wp-login.php HTTP/1.0	200	3478 -
31.214.152.205	[22/Sep/2016:19:57:34	POST /wp/wp-login.php HTTP/1.0	200	3478 -
61.190.214.186	[22/Sep/2016:19:56:39	POST /wp/wp-login.php HTTP/1.0	200	3478 -
61.190.214.186	[22/Sep/2016:19:56:41	POST /wp/wp-login.php HTTP/1.0	200	3478 -
61.190.214.186	[22/Sep/2016:19:56:42	POST /wp/wp-login.php HTTP/1.0	200	3478 -
61.190.214.186	[22/Sep/2016:19:56:44	POST /wp/wp-login.php HTTP/1.0	200	3478 -
61.190.214.186	[22/Sep/2016:19:56:46	POST /wp/wp-login.php HTTP/1.0	200	3478 -
61.190.214.186	[22/Sep/2016:19:56:48	POST /wp/wp-login.php HTTP/1.0	200	3478 -
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Access Log: Looking for Security Loopholes

50.87.15.217	[17/Sep/2016:11:34:16	POST /xmlrpc-activate.php HTTP/1.1	403
50.87.15.217	[17/Sep/2016:11:34:16	POST /wp-load.php HTTP/1.1	404 -
171.113.86.214	[21/Sep/2016:07:19:08	POST /wp-content/uploads/ftp.php HTTP/1.1	500 -
171.113.86.214	[21/Sep/2016:07:19:08	POST /wp-admin/js/edit.php HTTP/1.1	500 -
171.113.86.214	[21/Sep/2016:07:19:09	POST /wp-admin/newfile.php HTTP/1.1	500 -
171.113.86.214	[21/Sep/2016:07:19:09	POST /wp-content/themes/inline/edit.php HTTP/1.1	500 -
171.113.86.214	[21/Sep/2016:07:19:09	POST /wp-includes/css/log.php HTTP/1.1	500 -
171.113.86.214	[21/Sep/2016:07:19:10	POST/wp-includes/theme-compat/giaogua.php HTTP/1.1	500 -
171.113.86.214	[21/Sep/2016:07:19:10	POST /wp-content/themes/light/log.php HTTP/1.1	500 -
171.113.86.214	[21/Sep/2016:07:19:12	POST/wp-includes/images/wlwlog.php HTTP/1.1	500 -
171.113.86.214	[21/Sep/2016:07:59:56	POST /admin.asp HTTP/1.1	500 -
171.113.86.214	[21/Sep/2016:07:59:57	POST /admin.php/module/action/param1/\${@eval(\$_POST[c])	500 -
171.113.86.214	[21/Sep/2016:07:59:57	POST /admin/admin.asp HTTP/1.1	500 -
171.113.86.214	[21/Sep/2016:07:59:57	POST /admin/appeal.asp HTTP/1.1	500 -
171.113.86.214	[21/Sep/2016:07:59:57	POST /admin/Databackup/1.asp HTTP/1.1	500 -
171.113.86.214	[21/Sep/2016:07:59:58	POST /admin/Databackup/admin.asp HTTP/1.1	500 -
171.113.86.214	[21/Sep/2016:07:59:58	POST /admin/Databackup/com6.ss.asp HTTP/1.1	500 -
171.113.86.214	[21/Sep/2016:07:59:58	POST /admin/upclass/ifto_img.asp HTTP/1.1	500 -
171.113.86.214	[21/Sep/2016:07:59:59	POST /admin\\Databackup\\admin.asp HTTP/1.1	500 -
171.113.86.214	[21/Sep/2016:08:00:25	POST /editor/ckeditor/news_bak.asp HTTP/1.1	500 -
171.113.86.214	[21/Sep/2016:08:00:26	POST /editor/css/office/ban_ner.asp HTTP/1.1	500 -
171.113.86.214	[21/Sep/2016:08:00:26	POST /editor/images/ban_ner.asp HTTP/1.1	500 -
171.113.86.214	[21/Sep/2016:08:00:27	POST /Editor/xheditor/emot/default/11.asp HTTP/1.1	500 -
171.113.86.214	[21/Sep/2016:08:00:35	POST /fckeditor/editor/c_admin.asp HTTP/1.1	500 -
171.113.86.214	[21/Sep/2016:08:00:35	POST /FCKeditor/Files/file/asp.asp/keio.jpg HTTP/1.1	500 -
171.113.86.214	[21/Sep/2016:08:00:36	POST /FCKupload/20141112082052.php HTTP/1.1	500 -
171.113.86.214	[21/Sep/2016:08:00:36	POST /fckupload/image/ifto_img.asp HTTP/1.1	500 -
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Google Analytics and Ghost Spam



Future Trends

- Ban Lists for referrer, UA, Ips: easily outdated, can slow down your site
- Spammers will come up with new and wonderful methods
- Look for Spam growth in: Middle East, Africa, S America, SE Asia/Indonesia

References

- Image: referrer spam:
 - https://www.optimizesmart.com/geek-guide-removing -referrer-spam-google-analytics/
- Image: ghost spam
 - https://moz.com/blog/stop-ghost-spam-in-google-anal ytics-with-one-filter
- CIDR:

https://en.wikipedia.org/wiki/Classless_Inter-Domain_Routing

Encourage your friends to publish, ban those who harm you

Questions?