



The Kaspersky Security Symposium

Sep 21 – 23, 2011 | Munich | Germany

Why ALL Social Media Are Security Nightmares!

Myspace is linked to your Facebook and its Twitterific!

David Jacoby Senior Security Researcher

Welcome



The Kaspersky Security Symposium Sep 21 - 23, 2011 | Munich | Germany

About David Jacoby

- Senior Security Researcher
- Global Research and Analysis Team
- Vulnerability and Threat Management
- Spokesperson
- Web Application Security
- Alternative Operating Systems
- Read about security!
- Write about security!
- Talk about security!
- Work with security!



The Kaspersky Security Symposium, Munich



What We Know



The Kaspersky Security Symposium Sep 21 – 23, 2011 | Munich | Germany

- What we already know about social media and security
 - Koobface
 - Phishing attacks
 - Clickjacking
 - Malicious applications
 - Malvertising
 - Used for C&C servers
 - Malicious links
 - Extreme information exposure
 - Client vulnerabilities





KoobFace



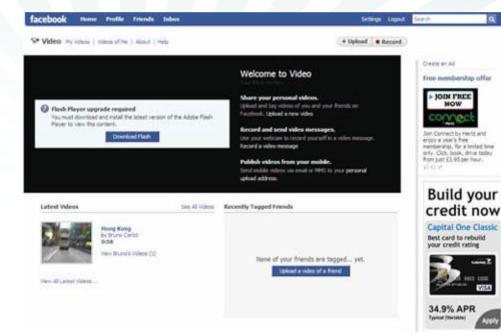
The Kaspersky Security Symposium Sep 21 – 23, 2011 | Munich | Germany

KoobFace

- Facebook
- MySpace
- Twitter
- Friendster
- and others...

Multi-platform

- Microsoft Windows
- Mac OS X
- Linux



- Two social engineering attacks
 - Tricked users to visit a link
 - Tricked users to update Adobe Flash







The Kaspersky Security Symposium Sep 21 – 23, 2011 | Runich | Germany

LinkedIn Phishing Attempt

- Collects username / passwords
- Looks VERY authentic

From: alerts@linkedin.com

Subject: Important LinkedIn Update

Date: August 23, 2011 3:17:58 AM MST

To: Maria Langer

LinkedIn

Your LinkedIn account was blocked due to inactivity. To remove the restrictions please Follow this link

Thank you for using LinkedIn!

-The LinkedIn Team http://www.linkedin.com/

Š 2011, LinkedIn Corporation



Show in Mailbox

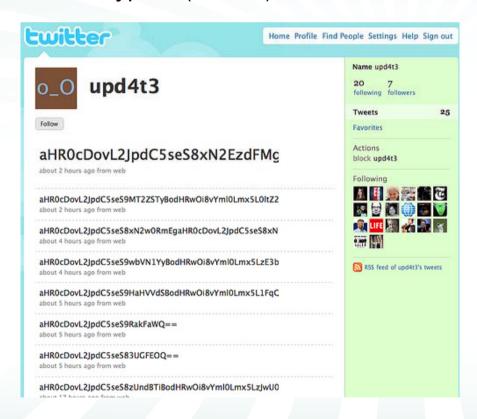


Twitter Botnet



The Kaspersky Security Symposium Sep 21 – 23, 2011 | Munich | Germany

- Twitter used as C&C Server
- Encrypted (HTTPS)









Social Media Are Here to Stay

- Total Facebook users
 - About 50% of the population in the United States and United Kingdom

List of countries on Facebook

#	Country	Users ▼	Change \$	(± %) \$	Pen. ♦
1.	<u>United States</u>	155 094 860	+4 294 660	+2.85% 😚	49.99%
2.	Indonesia	40 144 320	0	0.00	16.52%
3.	India	35 623 220	0	0.00	3.04%
4.	Turkey	30 545 000	0	0.00	39.26%
5.	United Kingdom	30 169 460	+920	+0.00% 😚	48.39%
6.	<u>Mexico</u>	28 963 320	0	0.00	25.75%
7.	Brazil	26 829 900	0	0.00	13.34%
8.	<u>Philippines</u>	26 488 600	-4 740	-0.02% 🕹	26.52%
9.	<u>France</u>	22 806 420	0	0.00	35.21%
10.	Germany	20 951 460	0	0.00	25.46%

source: SocialBakers





The Kaspersky Security Symposium Sep 21 – 23, 2011 | Munich | Germany

Social Media Are Here to Stay

- Total Facebook users in Europe
 - 211 512 380 users 26.6% of the population

List of countries in Europe on Facebook

#	Country	Users ♦	Change ♦	<u>(± %)</u> ♦	Pen. ▼
1.	Monaco	32 800	+8 000	+32.26% 🚱	107.24%
2.	Iceland	208 560	+11 160	+5.65% 😚	67.51%
3.	Gibraltar	17 700	+920	+5.48% 😭	61.29%
4.	Faroe Islands	29 840	+2 060	+7.45% 😭	60.83%
5.	Norway	2 508 380	-8 370	-0.33% 🐠	53.64%
6.	<u>Denmark</u>	2 743 780	+140 240	+5.39% 🚱	49.75%
7.	Sweden	4 457 360	+345 180	+8.39% 🚱	49.12%
8.	United Kingdom	30 168 540	+905 170	+3.09% 🚱	48.39%
9.	<u>Malta</u>	193 560	+18 940	+10.85% 🚱	47.58%
10.	Cyprus	508 000	+108 440	+27.11% 🚱	46.07%

source: SocialBakers





Social Media Are Here to Stay

Facebook vs. LinkedIn

#	Country	in Users	S Users	in Pen.
1.	<u>United States</u>	53 408 997	155 094 860	17.22%
2.	<u>India</u>	11 717 273	35 623 220	1.00%
3.	United Kingdom	7 477 101	30 169 460	11.99%
4.	Brazil	5 859 327	26 829 900	2.91%
5.	Canada	4 555 863	16 300 100	13.49%
6.	<u>Netherlands</u>	2 915 501	5 002 180	17.37%
7.	<u>France</u>	2 810 811	22 806 420	4.34%
8.	<u>Italy</u>	2 329 589	19 838 240	4.01%
9.	Spain	2 196 762	14 563 840	4.72%
10.	Mexico	1 796 306	28 963 320	1.60%

source: SocialBakers





What Can We Expect from Vendors?

- Who is responsible for "security"?
 - People don't really understand that WE are responsible
- What type of "security" can we expect?
 - Vendors handle security for their property





The New Era of Social Media



The Kaspersky Security Symposium Sep 21 – 23, 2011 | Munich | Germany

USER GENERATED CONTENT





The Kaspersky Security Symposium Sep 21 – 23, 2011 | Bunich | Germany

What Are the Real Threats?

- Attacks exploit trust
 - This makes social engineering attacks very powerful!









What Are the Real Threats?

- Attacks exploit ignorance
 - We are willing to take risks just to get connected even we know its a risk!





What Are the Real Threats?

The Kaspersky Security Symposium Sep 21 - 23, 2011 | Munich | Germany

- " Leapfrog attacks"
 - We re-use information (accounts, passwords), which can lead to other systems
 ANONYMOUS

#ANTISEC







What Are the Real Threats?



You can protect yourself against technical vulnerabilities, but how do you secure a mindset?



The Kaspersky Security Symposium Sep 21 – 23, 2011 | Marich | Germany

Thank you

David Jacoby

david.jacoby@kaspersky.com

+46-707-359001

http://www.securelist.com





Summary

- We already know a lot about social network platforms
- Social media are a part of our life; therefore, very hard to limit
- We can protect ourselves against technical vulnerabilities, but not social vulnerabilities
- Social media are exploiting ignorance and trust
- We expect more attacks for social media platforms
- Attackers need only a very low attack rate to succeed
- We are now facing "user-generated attacks"