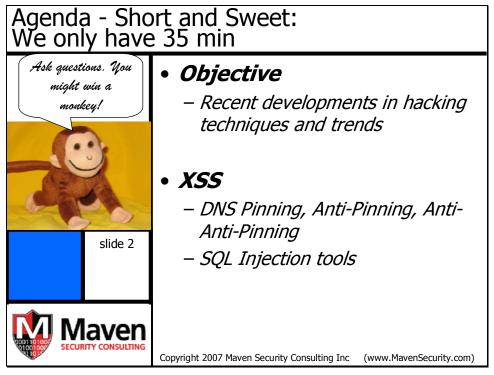
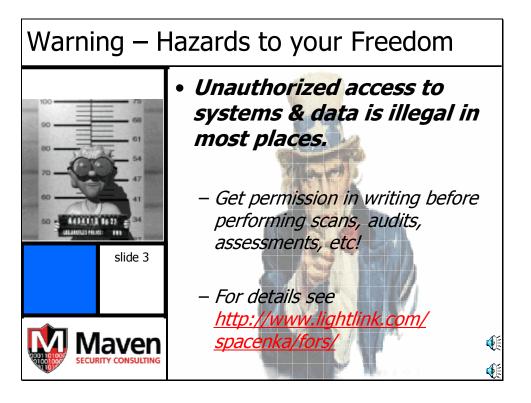


These slides were presented at the IT Security Showcase in Hong Kong in September 2007. It covers some recent developments in IT security, including tools, trends, and news.

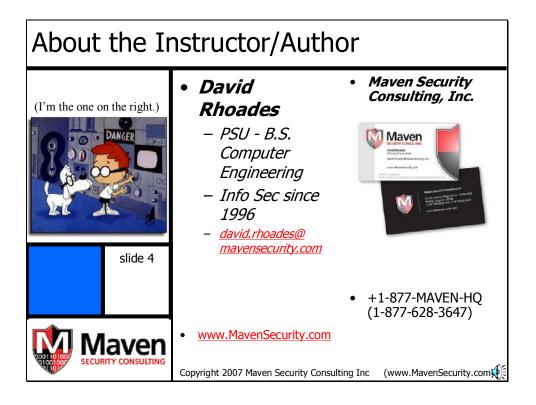




WARNING: The Surgeon General has deemed hacking to be hazardous to your freedom. The ethically challenged, morally flexible, and honor deficient should beware.

The difference between a cracker (or malicious hacker) and a security consultant is PERMISSION (and salary range :-) ).

Before you blow off this whole "permission" thing and "assume" it's OK because you "think" it's part of your job description, please read about the Randal Schwartz case at <a href="http://www.lightlink.com/spacenka/fors/">http://www.lightlink.com/spacenka/fors/</a>



I am the one on the right.

## <PROPAGANDA>

David Rhoades is a senior consultant with Maven Security Consulting Inc.

(<u>www.mavensecurity.com</u>). David's expertise includes web application security, network security, and ethical hacking. David has been active in information security consulting since 1996, when he began his career with the computer security and telephony fraud group at Bell Communications Research (Bellcore).

David teaches domestically and internationally at various security conferences, and teaches for USENIX (<u>www.usenix.org</u>), MIS Training Institute (<u>www.misti.com</u>), ISACA (<u>www.isaca.org</u>), and previously for the SANS Institute (<u>www.sans.org</u>).

David has a Bachelor of Science degree in Computer Engineering from the Pennsylvania State University (psu.edu).

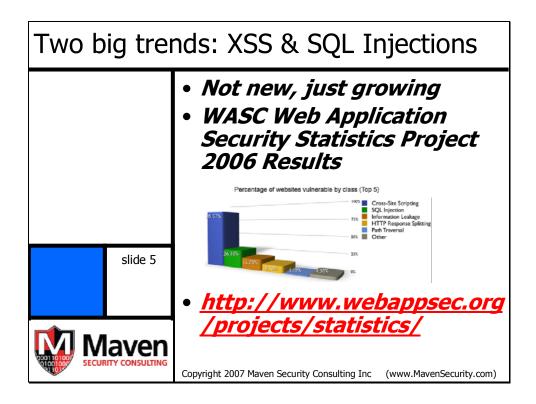
Maven Security Consulting Inc. is a vendor-independent security consulting firm that helps companies secure their information assets and digital infrastructure by providing a variety of customized consulting and training services.

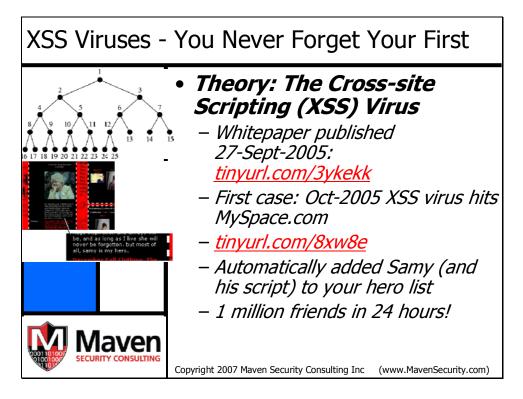
Services include ethical hacking; web application security testing; network security architecture reviews; training; expert testimony (civil and criminal); and architecture analysis, design, and security testing for Next Generation Networks (NGN), including VoIP.

Maven Security has a global client base across the US, Canada, Europe, and Asia; including government, banking, insurance, aerospace, software, and recreation.

Maven Security is a privately held company headquartered in northern Virginia near Washington DC.

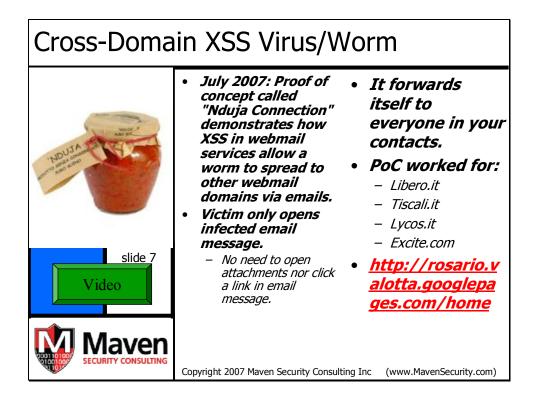
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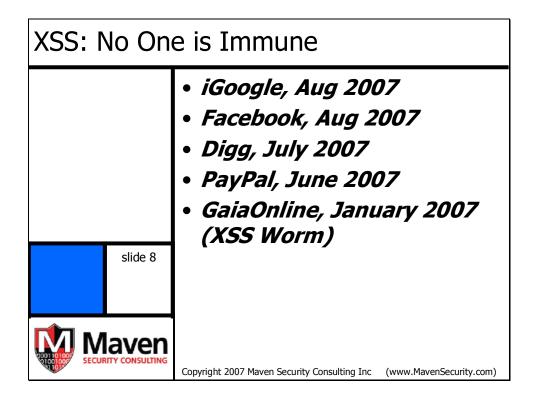




## **Section 2 - Current Trends**

## XSS Viruses



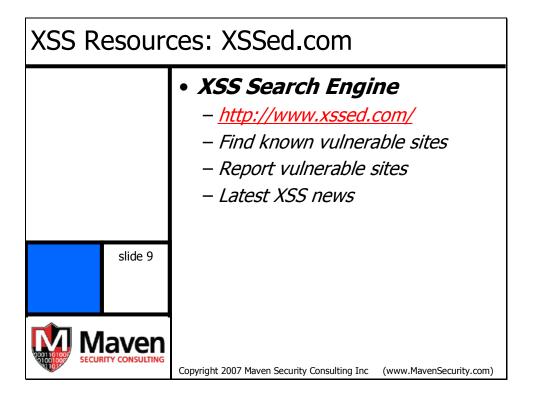


iGoogle:

http://www.xssed.com/news/39/XSS\_vulnerability\_in\_iGoogleGmodules\_when\_calling\_external\_ widgets/

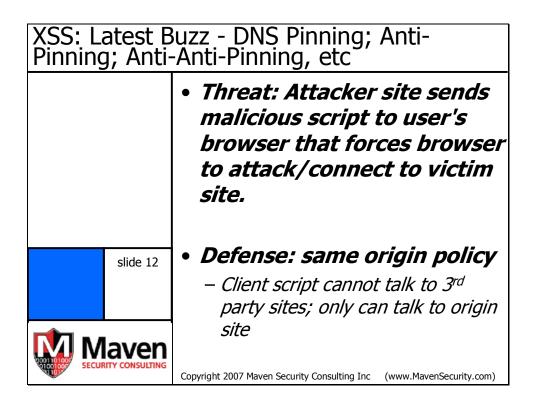
Facebook: http://www.xssed.com/news/38/White\_paper\_on\_Facebook\_XSS/

PayPal: <u>http://www.xssed.com/news/36/PayPal\_XSS\_adventure\_has\_finally\_come\_to\_an\_end/</u> GaiaOnline: http://blogs.securiteam.com/index.php/archives/786



XSSed.com Samples			
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slide 10	The Internet home of: FORTUNE Money Busin	dlines and real breaking ect to your mobile. NESS 2.0 EXPLUSE	
	Copyright 2007 Maven Security Consulting	TFCH Le page sur http://money.con.c	

Famous XSS Victims by Page Rank				
Source: www.xssed.com	xss attacks information			
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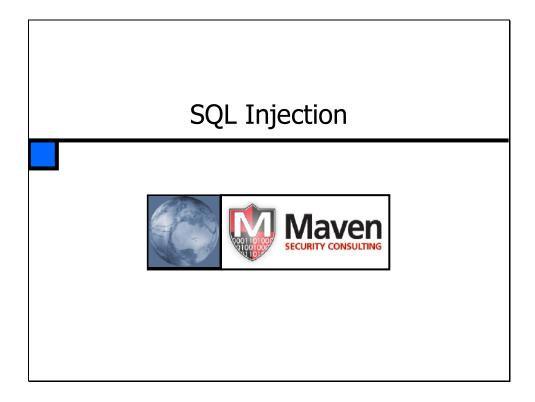
DNS Pinning		
slide 13	<ul> <li>Attack #1: Attacker changes their IP address</li> <li>Attacker = 1.2.3.4</li> <li>Target = 6.7.8.9</li> <li>Victim gets evil script from Attacker</li> <li>Script says to attack the Attacker site, but Attacker changes their IP to be same as Victim</li> <li>This does not work because browser locks (or pins) the host-to-IP mapping so no changes are allowed ("DNS Pinning").</li> </ul>	
Ŵ	Copyright 2007 Maven Security Consulting Inc (www.MavenSecurity.com)	

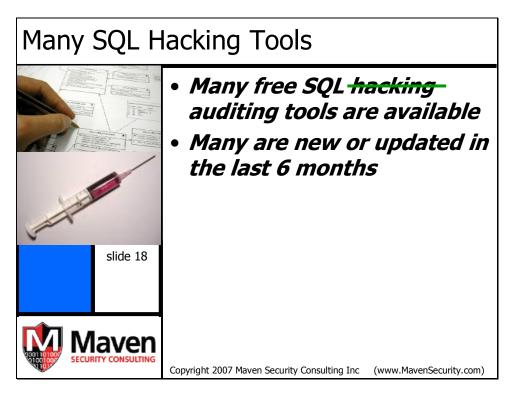
Anti-DNS Pinning		
		<ul> <li>Attacker = 1.2.3.4</li> <li>Target = 6.7.8.9</li> </ul>
		• But, if Attacker site goes offline briefly, then victim browser will lookup DNS again!
		<ul> <li>Now browser sees Attacker = 6.7.8.9</li> <li>Now Attacker script can talk to 3<sup>rd</sup> party site (Target) because they have same IP</li> </ul>
slid	le 14	• But this can be defensed against since browser sends HTTP header to Target that says "I'm trying to talk to Attacker". Target can/should ignore
		<i>such requests</i> – <i>Host: Attacker</i> Copyright 2007 Maven Security Consulting Inc (www.MavenSecurity.com)

Anti-Anti DNS Pinning		
	• But it turns out that HTTP headers can be faked with XmlHttpRequest (included in the original script served by Attacker site.	
slide 15	• Conclusion: Same origin policy is defeated; internal web apps are now susceptible to attach by internal victims that surf to	
	Copyright 2007 Maven Security Consulting Inc (www.MavenSecurity.com)	

References: <u>http://ha.ckers.org/blog/20060815/circumventing-dns-pinning-for-xss/</u> And <u>http://www.securityfocus.com/archive/1/445490/30/0/threaded</u>

XSS Resources		
No c-c		<ul> <li>Defense for users: NoScript         <ul> <li><u>http://noscript.net/</u></li> </ul> </li> </ul>
	cript	<ul> <li>"Audit" tool: XSS Assistant (Firefox extension) <u>www.whiteacid.org/</u></li> </ul>
	slide 16	<u>greasemonkey/</u>
		• XSS Cheat Sheets
		– Rsnake: <u>ha.ckers.org/xss.html</u>
		– Mario: <u>mario.heideri.ch/xss.xml</u>
NO.		Copyright 2007 Maven Security Consulting Inc (www.MavenSecurity.com)





SQL Injection Tool List			
	HI W	<ul> <li>Absinthe (formerly SQueaL); Updated Jan 2007? (still old and busted? But one of the fiirst of it's kind) <u>www.0x90.org/releases/absinth</u></li> <li>SQLiX (Updated June 2007?) <u>http://www.owasp.org/index.php/Category:OW</u> <u>ASP_SQLiX_Project</u></li> <li>SQLBrute (Updated July 2007) <u>http://www.justinclarke.com</u></li> <li>Priamos; Released March 2007 <u>http://www.priamos-project.com</u></li> <li>FG-Injector; Updated April 2007</li> </ul>	
Ma	slide 19	<ul> <li>http://www.flowgate.net/?lang=en&amp;seccion=he rramientas#</li> <li>SQL Power Injector; Updated July 2007 http://www.sqlpowerinjector.com</li> <li>Exploiter; Released ??? 2007 !axf.watchfire.com/extensions/exploiter.aspx</li> </ul>	
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Reference: Top 15 free SQL Injection Scanners

May 2007

http://www.security-hacks.com/2007/05/18/top-15-free-sql-injection-scanners

