18th Annual FIRST Conference June 25–30, 2006 Baltimore, Maryland USA



What You Don't Know That You Don't Know

Arjen de Landgraaf Co-Logic Security Ltd (New Zealand)



















19⁴ Annual CRUT Continues Inter 25-20, 2000 Minimum Marchael USA







Rules of Engagement

We are <u>not</u> allowed to:

- Pour hot oil and feathers
- Shoot Arrows
- Throw Stones
- Chuck dead cows
- Even slightly harm them







We Can Only Defend the Gates

- Routers
- Firewalls
- Anti Virus
- Anti DoS
- Anti Anything







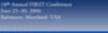


How To Stop Them

- Check and lock the Gates
- Detect them when they are inside.

Logs IDS IPS Alarms







And when they are inside

- Yes, then we can fight them
- As long as we know they are here
- And where they exactly are
- And we still cannot fight them according to their rules.



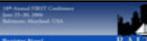






With any Breach or Compromise, Damage is Inevitable







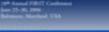
Today's Marketplace

Demand is Market and Marketing Driven

We ALL Need to Compete in a Global Economy

Visitors are encouraged to visit, enter, browse, read, request, search, look, try to buy, trade, test. AND BUY







Today Marketing drives New Development

- Grow, hold and increase market share, optimized returns, increased competition on a global scale
- To survive and thrive, openness, ease of access, simplicity is key

Marketing and Sales is now Driving Web (and Systems) Development





Today's Programmers need to be Visual Artists

- Web design, delivery and functionality as USP
- Ease of use for untrained visitors
- Driven by Market

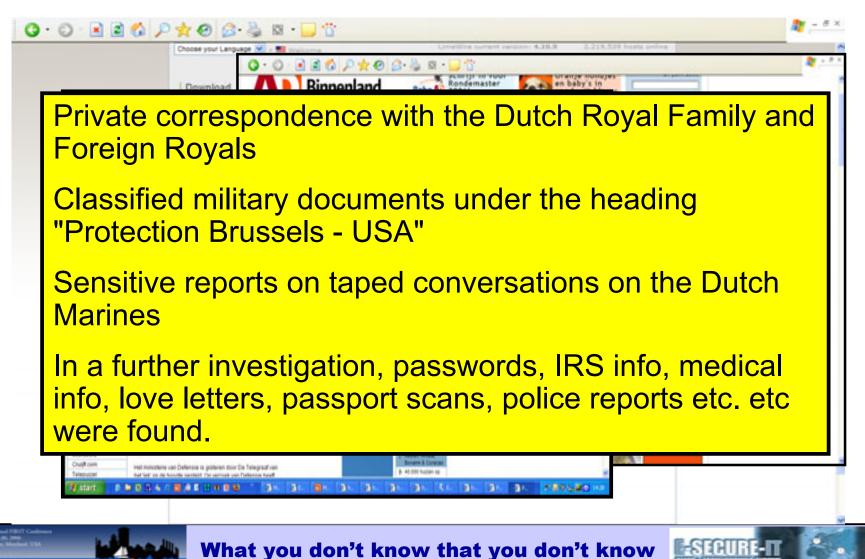




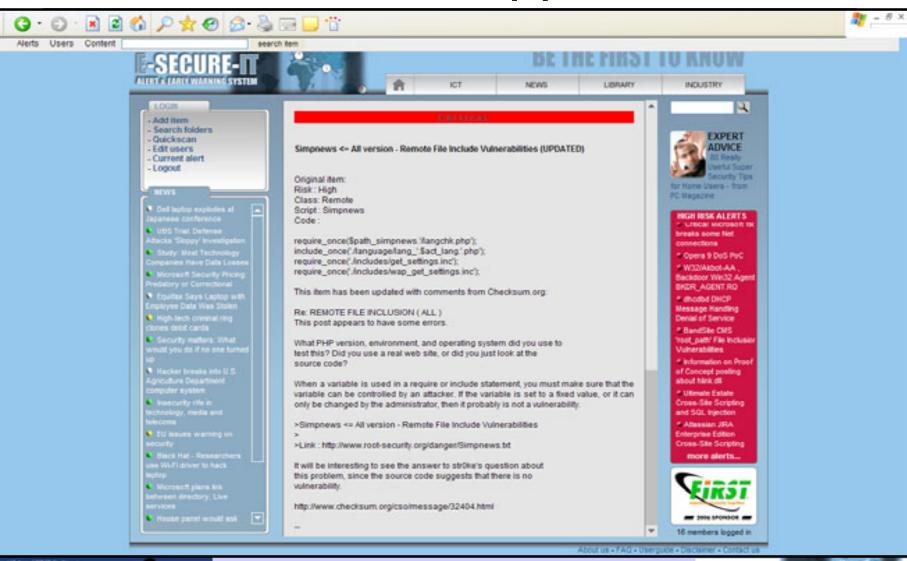




Example 1 – AIVD Gate



Example 2 – Web Applications



What you don't know that you don't know

SECUR

March States



Example 3 – The Rocky Phisher



Dear ANZ Australia & New Zealand customerl

Technical services of the ANZ are upgrading the software. We earnestly ask you to visit the following link to confirm your data in order to avoid blocking of your access.

https://www.anz.com/inetbank/bankmain/custdetailsconfirmation/do.asp

This instruction has been sent to all bank customers and is obligatory to follow.

We present our apologies and thank you for co-operating.

© Copyright Australia and New Zealand Banking Group Limited (ANZ) 100 Queen street, Melbourne 3000, ABN 11 005 357 522, 1996-2006.







<u>Some</u> of the Sites Targeted over last 6 months

Alliance and Leicester **Barclays** Citibank **Commerzbank** (Germany) **Deutsche Bank** EBay Halifax **HSBC Dresdner Bank Westpac** Corporation (NZ / Aus) **ANZ** (Australia / NZ Bank) **Suncorp** Internet Banking

Hypovereigns Bank (Germany) **NAB** - National Australia Bank SEEK.COM.AU (Non Bank -Australian Job seekers site) **O2** (non banking UK) **UNSEEN** (non banking UK) **Commonwealth Bank APO** Bank (German) **BNZ** - Bank of New Zealand **NCUA** (Australia) **MBNA** Europe Nationwide Building Society (UK) Macquarie Bank (Australia)





No-One has Been Able to Stop Him Yet

Not <u>one</u> IT-Security Company, CERT, legal body or government department in the World has yet been able to stop the "Rocky" phishing attacks







- /r1/
- Phishing Email format
- Quality professional
- Use of Language (s) Excellent
- Each week new target
- .us .biz .info
- USA, China, Thailand, Republic of Korea, Turkey
- http://www.macquarie.com.au.au.retail.customercare. lesbaz.info/r1/conf.asp/
- http://www.macquarie.com.au.au.retail.customercare. romnid.info/r1/conf.asp/



- Earlier samples keylogging trojan
- Now just VNC / radmin
- Apparently servers only pass the Request on. Either simple Port forwarding or as Reverse Proxy.
- This conclusion is based on the fact that under several servers with completely different IPs (thus different Netblock) exactly the same data files are located.
- In addition submit.php and verify.php on one now .asp
- nix servers lie (to recognize by the path in the error message).
 Further have all SSL host on the IPs exactly the same certificate fingerprint.



- genezi.biz goverkk.biz kiosi.biz koiller.biz partnerz.biz portfill.biz sioko.biz tekasi.biz lali22.info kilo88.us catndog.us artaf.biz simi00.biz kileof.biz maddr.info cudey.biz romnid.info lesbaz.info
- /r1/asp/ /r1/b/ /r1/c/ /r1/c/ /r1/h/ /r1/h/ /r1/n/ /r1/p/ /r1/v/ /r1/v/ /r1/vr/

Very structured worker – B / C etc.





- 211.199.252.187:180/ 211.32.14.248 81.215.229.191 211.55.216.176 218.159.245.121 210.183.80.177
- Apache/1.3.34(Unix) mod_ss/2.8.25 OpenSSL/0.9.7a
 PHP/4.42 mod_perl/1.29 FrontPage/5.0.2.2510
- .php or .asp



Interesting ports on 218.159.245.121: ۲ (The 1662 ports scanned but not shown below are in state: closed) PORT STATE SERVICE 25/tcp open smtp 80/tcp open http 110/tcp open pop3 135/tcp filtered msrpc 139/tcp filtered netbios-ssn 180/tcp open ris 445/tcp filtered microsoft-ds 1025/tcp open NFS-or-IIS 4444/tcp filtered krb524 4899/tcp open radmin 5000/tcp open UPnP 6004/tcp open X11:4

• VNC and Radmin



• Radmin- password times-out after a couple of attempts in a oneminute delay so brute forcing is not an option.

Zombie servers with complete control over them

- (if he can install a web server he will have iig root/administrator access).
- Sites often use JavaScript tricks to replace the browser toolbar and disable keyboard functions such as Cut and Paste.





Macquarie Bank

- 218.69.98.89
- inetnum: 218.67.128.0 218.69.255.255 netname: CNCGROUP-TJ country: CN descr: CNCGROUP Tianjin province network

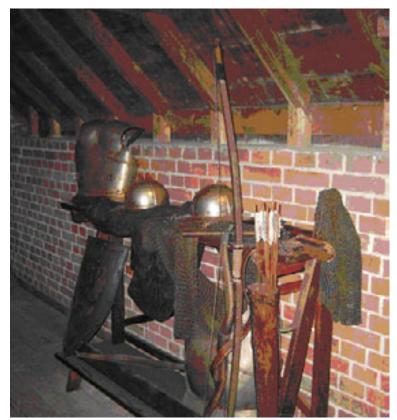




Traditional Armour and Defence Style is Not Enough

Changed landscape

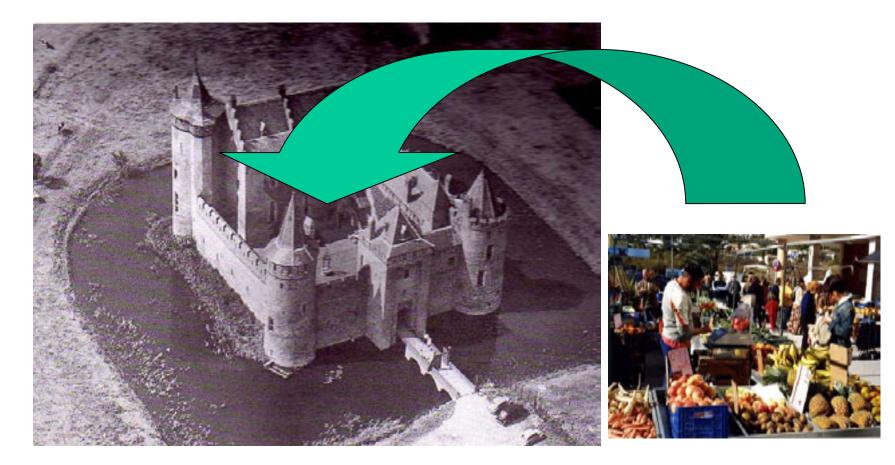
- Less viruses, more phishes
- More Web App attacks
- More Direct Attacks
- Assets as Reward







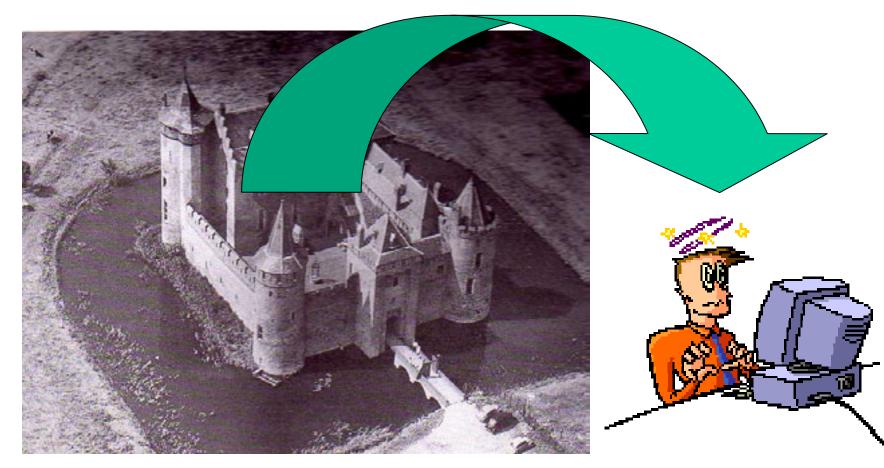
So you got to let them in







And you got to let them out









And..... You Also Need To Stop These









How to Get to Know – What You Don't Know You Don't Know?

In the past – Finance Department What is exactly running in your patch? What Scripts and objects are running wild? New Age Web Designers and programmers: Rounding up black cats in a dark room Get them to REALLY understand

Unaware (business, not IT) Teleworkers

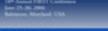


What Can you Do? Create A Clearing around your Castle to see what's coming

Know your Weaknesses

- Where are your potential vulnerabilities
- Where can they attack you?
- See them Coming









Building Effective Relationships between CSIRTs and Law Enforcement 18th Annual FIRST Conference Thursday - June 29th, 09:10

Brian Nagel, assistant director of the US Secret Service Office of Investigations will present a keynote address,

"Building Effective Relationships between CSIRTs and Law Enforcement,"

In an endeavour to bridge what are seen as cultural and operational differences between LE and CSIRT approaches to security.

San 27-10, 2000 Reference Mariland VIA





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Questions?

www.e-secure-it.com

