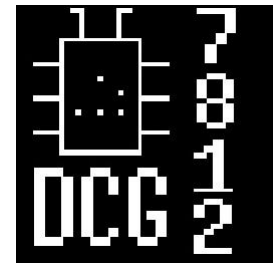


Offensive IDS

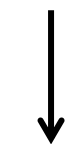


By @asintsov
For Russian Defcon Group
15/06/11

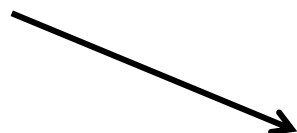
Who is an attacker?



Script Kiddies



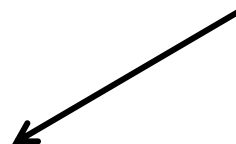
Fun



CC/Bank Accounts

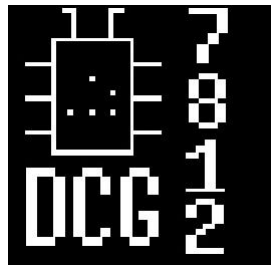


Professionals



Espionage

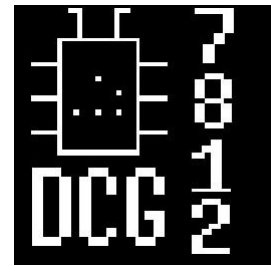
How they are doing it?



- SQL injection
- XSS/Steal sessions
- Client side vulns.
- e.t.c.



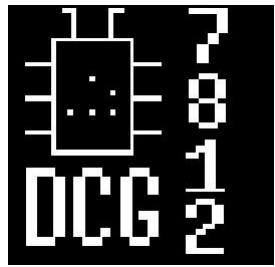
IDS/IPS



- Detect an attack
- Detect an attacker
- Prevent an attack
- e.t.c.



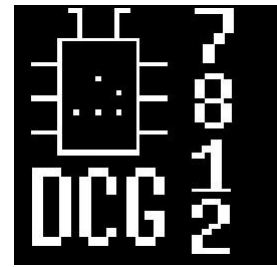
Detect an attacker?



- Web-Proxy
- TOR
- Socks
- Pwned hosts



Offensive?



- Bugs in C&C

<http://data.proidea.org.pl/confidence/8edycja/materialy/prezentacje/AndrzejDereszowski.pdf>

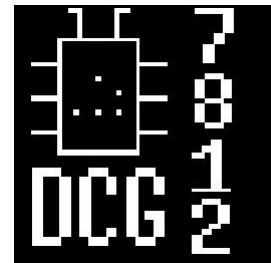
- Botnet takeover

Story from my life: RFI sploit->parse PHP->IRC login/pass

- Honey Tokens

- Social Engineering



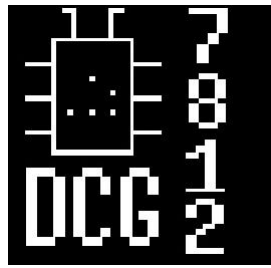


Simple web attacks

- ' " > < %00 ../ - everyone tries that 8)
- Trying to find admin.php
- Fast bruteforce, like admin:admin



Give to an attacker what he want

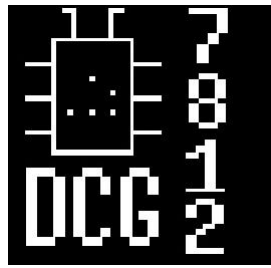


- Honey Token – create admin.php
- Make regexp on “admin” password

```
preg_match( "/^[\\w\\d\\-\\+]*\\s+or\\s+/i" , $input)
```
- If trigger fires: SE attacks – java or activeX as “admin-panel-GUI”

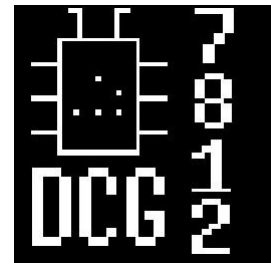


Social Engineering



An attacker must believe that it is GUI



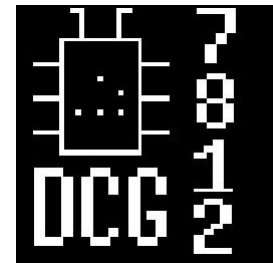


What we get?

- Info about an attacker's workstation
- Local DNS settings
- Traceroute can show us attacker's home
(even if attacker run from VMware)
- We can control an attacker's workstation



Defcon-Russia INVITE CODE

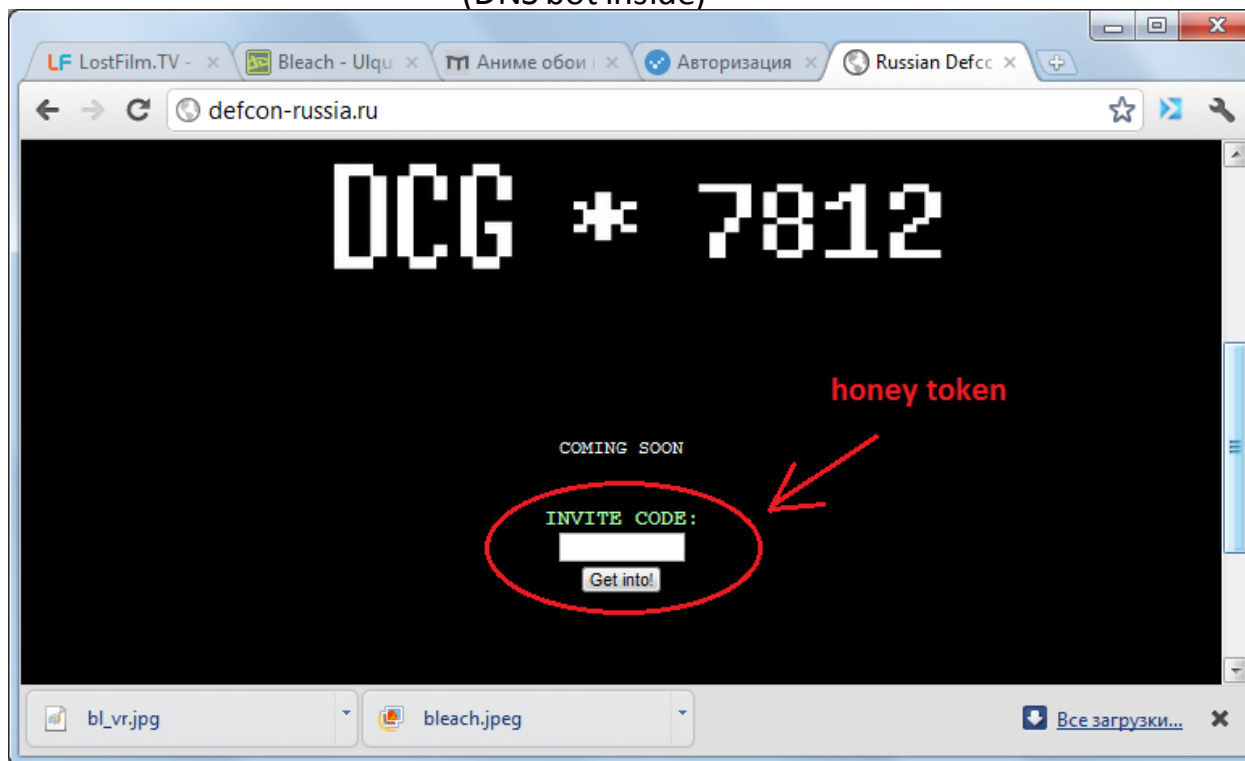


P.S Harder— everyone suspect our plugin 8)

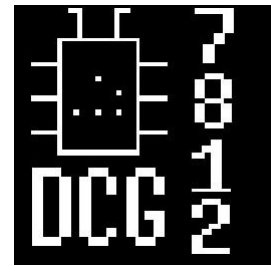
Quest, Contest, something fun, but not real GUI...

But it works!

(DNS bot inside)



Defcon-Russia web logs

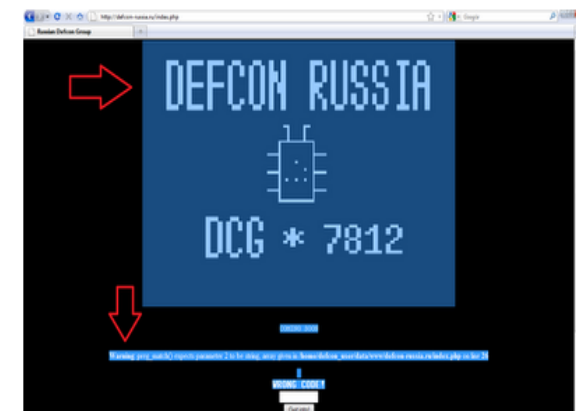


devteev.blogspot.com/2011/05/defcon.html

PY-Defcon :)

четверг, 26 мая 2011 г. 11:56 Автор: Dmitry Evteev

Видимо оценив успех Positive Hack Days, на этой волне был создан соответствующий сайт который посвящен еще более пупыристому мероприятию - <http://defcon-russia.ru/>



cut comments

paranoidcha 27 мая 2011 г. 15:40

это фейк))))

в место инвайт кода если пихнуть ' or 1=1-- пишет велком))))))) если пихнуть -1' or 1=1-- или подбирать колонки то вронг))))

Positive Technologies
play with us....

Yandex too...

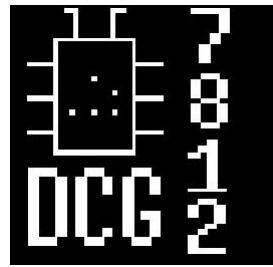
Boring...

Yes, bad SE... my fault! ←

```
Thursday, May 26, 2011:87.245.151.90:[\ ' or 2=2-- 1 ]
Thursday, May 26, 2011:87.245.151.90:[\ ' or 2=1-- 1 ]
Thursday, May 26, 2011:87.245.151.90:[\ ' or ]
Thursday, May 26, 2011:87.245.151.90:[\ ' or 2=2]
Thursday, May 26, 2011:87.245.151.90:[\ ' or 2=1]
Thursday, May 26, 2011:213.239.195.202:[\ ' or 2=1]
Thursday, May 26, 2011:87.245.151.90:[\ ' or 2=]
Thursday, May 26, 2011:213.239.195.202:[\ ' or 2=]
Thursday, May 26, 2011:213.239.195.202:[\ ' or 2]
Thursday, May 26, 2011:213.239.195.202:[\ ' or ]
Thursday, May 26, 2011:87.245.151.90:[\ ' or ]
Thursday, May 26, 2011:87.245.151.90:[\ ' or sleep(20)]
Thursday, May 26, 2011:213.239.195.202:[\ ' or \"><script>alert(1)</script>]
Thursday, May 26, 2011:95.108.170.223:[\ ' or \'1\' = \'1]
Thursday, May 26, 2011:82.203.205.227:[\ ' or \'1\'=\'1DSECTEST]
Friday, May 27, 2011:80.70.234.113:[\ ' or \'1\'=\'1DSECTEST]
Friday, May 27, 2011:85.132.26.129:[\ ' or 1=1--]
Friday, May 27, 2011:85.132.26.129:[\ ' or 1=1--]
Friday, May 27, 2011:85.132.26.129:[\ ' or 1=1--]
Friday, May 27, 2011:85.132.26.129:[\ ' or 1=1--]
Friday, May 27, 2011:85.132.26.129:[\ ' or 1=1--]
Friday, May 27, 2011:85.132.26.129:[\ ' or 1=1--]
Friday, May 27, 2011:85.132.26.129:[\ ' or 1=1--]
Friday, May 27, 2011:85.132.26.129:[\ ' or 1=1--]
Friday, May 27, 2011:81.177.34.197:[\ ' or 1=1--]
Friday, May 27, 2011:81.177.34.197:[\ ' or 1=1--]
Friday, May 27, 2011:81.177.34.197:[\ ' or 1=1--]
Friday, May 27, 2011:81.177.34.197:[\ ' or 1=1--]
Friday, May 27, 2011:81.177.34.197:[\ ' or 1=1--]
Friday, May 27, 2011:81.177.34.197:[\ ' or 1=1--]
Friday, May 27, 2011:81.177.34.197:[\ ' or 1=1--]
Friday, May 27, 2011:81.177.34.197:[\ ' or 1=1--]
Friday, May 27, 2011:195.68.165.237:[\ ' or 1=1--]
Friday, May 27, 2011:212.192.248.201:[\ ' or 1=1--]
```

Defcon-Russia

Java logs



* 195.88.253.5

PC: \\BSODABLE <--- Dr. Web VMware

User: admin

Local IP: 192.168.239.1

Tracert: -> gw-virlab.i.drweb.ru(10.5.0.1) -> ge0-1-gw.dev.drweb.com(195.88.253.1) -> e0-1-1-ps.dev.drweb.com(84.204.76.97)

* 212.93.100.154 <--- Latvijas Mobilais Telefons SIA

PC: \\AMS-7CF3302AEC2 <--- looks like ax330d's VMware

User: Administrator

Local IP: 192.168.1.105

* 82.200.114.66

User: romashkin <--- **not Vmware**..he-he=)

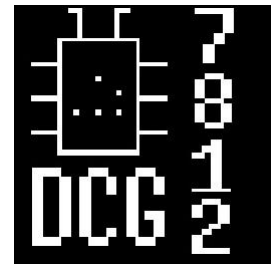
DNS: olympus.f5net.com

Local IP: 192.168.167.55/192.168.170.1(VMware)/192.158.204.1

+ we have attackers DNS server IP! (we use reverse DNS channel)

Defcon-Russia

Government attacks



```
Friday, May 27, 2011:85.132.26.129:[\'' or 1=1--]
Friday, May 27, 2011:85.132.26.129:[\'' or 1=1--]
Friday, May 27, 2011:85.132.26.129:[\'' or 1=1--]
Friday, May 27, 2011:81.177.34.197:[\'' or 1=1--]
Friday, May 27, 2011:81.177.34.197:[\'' or 1=1--]
```

SQLi logs

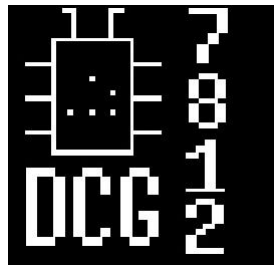
```
inetnum:      81.177.34.192 - 81.177.34.223
netname:      MNS
descr:        Defense Ministry
descr:        Russia
country:      RU
admin-c:      PP6919-RIPE
tech-c:       PP6919-RIPE
status:       ASSIGNED PA
mnt-by:       AS8342-MNT
source:       RIPE # Filtered
```

"ProActive" IDS logs

```
* 85.132.26.129 <--- from Azerbaijan ++++
DNS: dmx.gov.az
```

WTF???

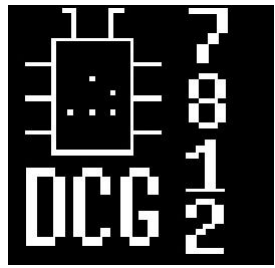
Conclusion



- We can counterattack
- We can detect source of attack behind proxy (if SE works)
- We can do more, then just defend...
- Yeah ... stupid slides with BLEACH, sorry 8)



Thx for pictures



- [*tobiee*](#)
- [Albertos719](#)
- [Nova1Duke](#)
- [risi37](#)