



**The Power**

**of FOCCA 3**

**Chema**

**Informática 64**

# What's a FOUCA?



**Chema**

**Informática 64**

# Al principio fue el Metadato

Blair's government made one additional mistake: they published the dossier as a Microsoft Word file on their Web site. When I first heard from [redacted] had worked on the document. I downloaded the Word file containing the dossier from the 10 Downing Street Web site (<http://www.number-10>)

```
Rev. #1: "cic22" edited file "C:\DOCUME~1\phamill\LOCALS~1\Temp\AutoRecovery save of Iraq - security.asd"  
Rev. #2: "cic22" edited file "C:\DOCUME~1\phamill\LOCALS~1\Temp\AutoRecovery save of Iraq - security.asd"  
Rev. #3: "cic22" edited file "C:\DOCUME~1\phamill\LOCALS~1\Temp\AutoRecovery save of Iraq - security.asd"  
Rev. #4: "JPratt" edited file "C:\TEMP\Iraq - security.doc"  
Rev. #5: "JPratt" edited file "A:\Iraq - security.doc"  
Rev. #6: "ablackshaw" edited file "C:\ABlackshaw\Iraq - security.doc"  
Rev. #7: "ablackshaw" edited file "C:\ABlackshaw\A;Iraq - security.doc"  
Rev. #8: "ablackshaw" edited file "A:\Iraq - security.doc"  
Rev. #9: "MKhan" edited file "C:\TEMP\Iraq - security.doc"  
Rev. #10: "MKhan" edited file "C:\WINNT\Profiles\mkhan\Desktop\Iraq.doc"
```

# Metadata, hidden info

## & lost data

Mala gestión  
Mala conversión  
Opciones inseguras

Buscadores  
Arañas  
Bases de datos

Mala gestión  
Formatos embebidos  
Conversión errónea  
Opciones Inseguras

Nuevas aplicaciones o nuevas versiones

Ficheros embebidos

Ficheros embebidos

Datos Perdidos

Info oculta

# Printers

```
$ grep Impresora resultados.txt | grep \\\\
10.odt Impresora      \\srvprint\VISA28_329LC3
12.odt Impresora      \\servidor\HP 2000C
19.odt Impresora      \\10.177.1.126\EPSON EPL-6200 Advanced
23.odt Impresora      \\1-215-01\hp LaserJet 1000
34.odt Impresora      \\srv2.rm.oasi-servizi.it\RICOH roma corriodio nord
3.odt  Impresora      \\filserver\4100
63.odt Impresora      \\gamma\HP Deskjet F300 series
27.odt Impresora      \\Silegio\HP psc 2350 series
33.odt Impresora      \\ABBY\BigGrayUglyThing
40.odt Impresora      \\MUSTAFA\Samsung ML-1710 Series
46.odt Impresora      \\http://10.0.0.42:631\Chaucer
80.odt Impresora      \\192.168.250.1\HP OfficeJet G55
86.odt Impresora      \\WLGPRINT1\L10 GA T632
89.odt Impresora      \\B-THOMAS\hp LaserJet 1300 PCL 6
17.odp Impresora      \\tatra\Minolta Di152 PCL6
22.odp Impresora      \\10.177.1.126\EPSON EPL-6200 Advanced
4.odp  Impresora      \\Verra\LEMURIA
55.odp Impresora      \\CHEGUEVARA\lp_serv
57.odp Impresora      \\sm-ubur01-01.east.sun.com\bur116
69.odp Impresora      \\ipp://iprint.innerweb.novell.com\prv-mktg-hp8000dn-2
86.odp Impresora      \\EFOITDP020S4\hp4100dtn
$
$ grep iMac resultados.txt
49.odt Impresora      hp psc 2500 series @ Luisa's iMac
$ █
```

# Malware Dirigido

## Pentagon breached by foreign hacker

A foreign spy agency carried out the most serious "cyber attack" on the US military's networks when a tainted flash drive was inserted into a laptop in the Middle East, according to a senior Pentagon official.

By Alex Spillius, Washington  
Published: 9:43PM BST 26 Aug 2010



The Pentagon faces regular cyber attacks Photo: GETTY

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Text Size + -

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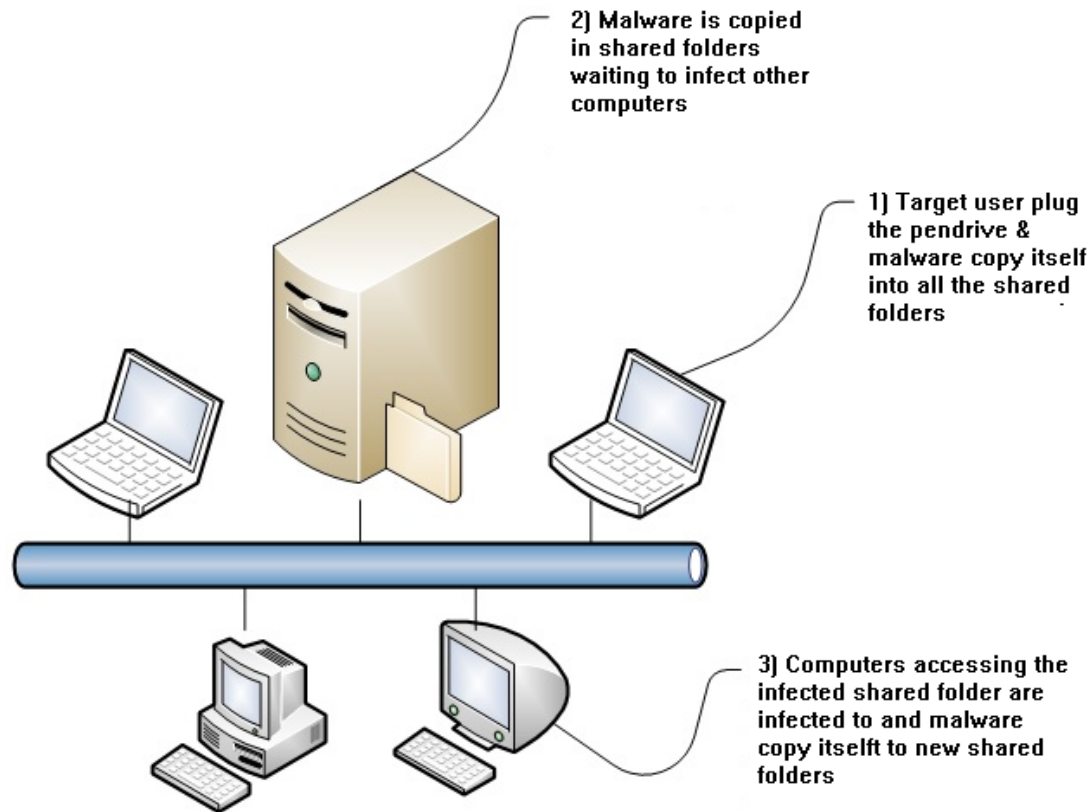
Ads by Google

World News

Cyber Espionage

Obama

# Targeting Malware



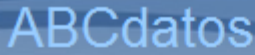
# Electing the entry

The screenshot displays a Windows Explorer window with the 'Metadata' tab selected. The left pane shows a tree view of network metadata, with 'Users (106)' selected. The right pane shows a list of users with access, including John Vera, borton, DSIC User, DSIC, Norm Hensley, and Preferred Customer. Below the user list is a list of folders with various network paths.

Attribute	Report
Users with access	
John Vera	
borton	
DSIC User	
DSIC	
Norm Hensley	
Preferred Customer	
Folders	
\\CPSTEAM\Joint Study - BMDO Support Contract Overview\BSSP\BARBB Updates\JAN 04th Update\	
\\CPSTEAM\Joint Study - BMDO Support Contract Overview\BSSP\BARBB Updates\JAN 8th Update\	
\\CPSTEAM\Joint Study - BMDO Support Contract Overview\BSSP\BARBB Updates\JAN 12th Update\	
\\CPSTEAM\Joint Study - BMDO Support Contract Overview\BSSP\BARBB Updates\JAN 16th Update\	
\\CPSTEAM\Joint Study - BMDO Support Contract Overview\BSSP\BARBB Updates\JAN 25th Update\	
\\CPSTEAM\Joint Study - BMDO Support Contract Overview\BSSP\	
\\CPSTEAM\Joint Study - BMDO Support Contract Overview\BSSP\BARBB Updates\JAN 23rd Update\	
\\BMDO\shared\cpsteam\Paperless Project (Karen Reuter's)\Barbb Update\	
\\BMDO\shared\cpsteam\Paperless Project (Karen Reuter's)\RFP Sections L&M\Section L Attachments\	
\\BMDO\shared\cpsteam\Paperless Project (Karen Reuter's)\Barbb Update\Section L Attachments\	
\\CPSTEAM\Joint Study - BMDO Support Contract Overview\BSSP\BARBB Updates\DEC 12th Update\	
\\BMDO\shared\common\BMDO Misc July 2000 to--\	
\\CUSTOMERS\DSR Shared\BSSP USERS GUIDE\	
\\CPSTEAM\RAMOS SE&\RFP\Section J Attachments\	
\\CPSTEAM\RAMOS SE&\Final docs for review\Final RFP _Extranet\	
\\CPSTEAM\RAMOS SE&\Model Contract\	
\\HENSLEY\	
\\BMDO\shared\cpsteam\Threat Systems Engineering (Countemeasures)\RFP\Section L Attachments\	
\\CPSTEAM\BSSP\BARBB Updates\FEB 21st Update\	



# Social Engineering

  
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54 usua  
150.377

FOCA Private 2.5

File Metadata Domain Enumeration Software Recognition Report Tools Logs Options About

Metadata Network data

Documents (1/1)  
pdf (1)  
guadalinux\_manual.pdf  
Users  
Dates  
Other Metadata  
Software

Metadata Summary  
Users (2)  
Folders (0)  
Printers (0)  
Software (1)  
Emails (0)  
Operating Systems (0)

Attribute	Value
<b>Users</b>	
Username	JosÃ© J. Grimaldos Parra
Username	José J. Grimaldos Parra
<b>Dates</b>	
Creation date	04/09/2003 11:35:00
Modified date	05/09/2003 8:57:30
<b>Other Metadata</b>	
Application	Acrobat Distillier 4.0
Keywords	Versión electrónica: Subprograma de NN.TT. CEC-JA
Title	Guadalinux, manual de uso
<b>Software</b>	
Acrobat Distillier 4.0	

All documents were analyzed

# Anonym0us case

The screenshot shows a news article on the website 'thingq\_'. The article title is 'Designer arrested over Anonymous press release' with a sub-headline 'Nabbed by the properties'. It is dated 15 December, 2010, and written by Paul Hales. The article features a logo of a person in a suit with a question mark over their head, set against a globe. The text describes the arrest of Alex Tapanaris, whose name appeared on a PDF press release from Anonymous. A 'Document Properties' window is open, showing the file name 'ANONOPS\_The\_Press\_Release.pdf' and the author 'Alex Tapanaris'. A note on the right side of the window says 'Spookily on Monday, Tapanaris' web site'. The background of the screenshot shows a sidebar with various links and a search bar.

thingq\_  Search

## Designer arrested over Anonymous press release

Nabbed by the properties

Written by [Paul Hales](#) on 15 December, 2010 [NEWS](#) > [WEB](#)



A bloke named Alex Tapanaris, whose name appeared on the **PDF press release** circulated by online trouble-makers Anonymous has had his web site disappeared from the web and, according to a post on [pastebin.com](#), the unfortunate chap has been arrested.

The release was circulated **last Friday** and pretty soon the document's properties were noticed.

Document Properties

Description Security Fonts Advanced

Description

File: ANONOPS\_The\_Press\_Release.pdf

Title:

Author: Alex Tapanaris

Spookily on Monday, Tapanaris' web site

# Lost Data



**Penetration Tester's Open Source Toolkit: 2**  
by [Chris Hurley](#)

32 us

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KEY	SERIAL NUMBER
001	HJRTC764
002	PO9873D5FG
003	829KM8N4H2
004	BAL923457U
005	CVPLQ6WQ23
006	VBP965T5T5
007	HJJJ863WD3E
008	2987GVTWMK
009	629MP5SDJT
010	IMWQ295T6T

# Metadata Risks

- **Relaciones Ocultas**
  - Entre empresas
  - Entre personas
- **Historia de Acciones**
- **Piratería de Software**
- **Información táctica**

**Chema**

**Ataques**

Informática 64

dirigidos

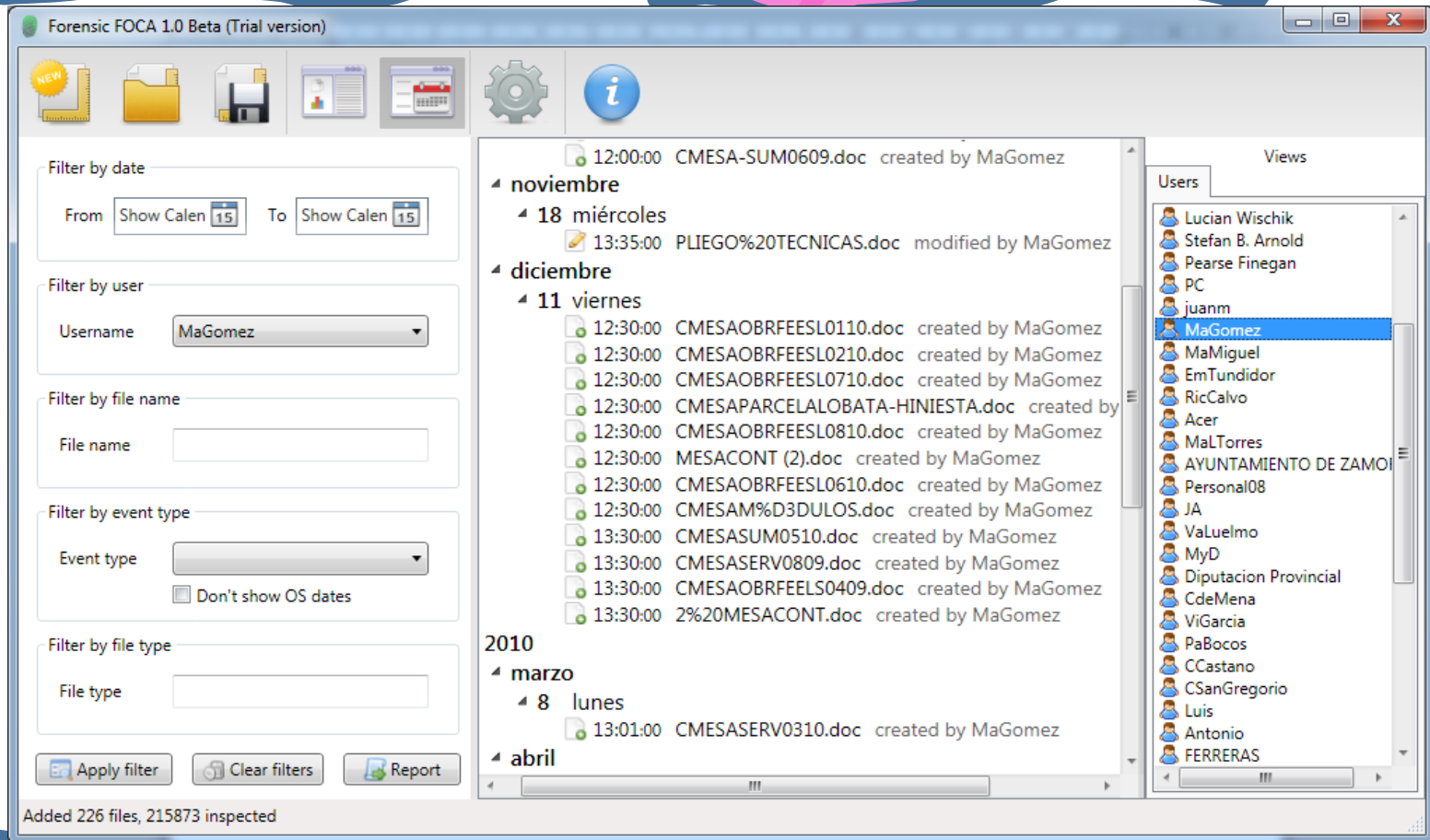
# Drug Dealer



Chema

Informática 64

# Forensic FOCA



# Show Me Your Metadata

The image displays four sequential Google search results for metadata on the mda.mil website. Each search is for a specific file type, and the number of results is highlighted with a red box.

File Type	Number of Results
doc	91
xls	24
ppt	13
pdf	947

# Internal

## Fingerprinting with

The screenshot shows a network scanning tool interface with the following components:

- File Menu:** Metadata, Domain Enumeration, Software Recognition, Report.
- Metadata Section:** Network data (selected).
- Navigation:** PCs/Servers, Domains, IP (with left and right arrow buttons).
- Tree View:** A list of discovered hosts. The host **PC\_Norm Hensley** is selected and highlighted in blue. Other hosts include PC\_PAndrews, PC\_PChoudhury, PC\_PEARSONMG, PC\_Preferred Custom, PC\_RAshley, PC\_Richard A. Walln, and PC\_RLehner.
- Table:** A table displaying the metadata for the selected host.

Attribute	Value
<b>Information</b>	
Name	PC_Norm Hensley
Operating System	Windows
<b>Users</b>	
	Norm Hensley
<b>Folders</b>	
	C:\windows\TEMP\
<b>Remote Folders</b>	
	\\FOLTA\HENSLEY\
	\\APOLLO\TEAMS\C P S\cpsteam\

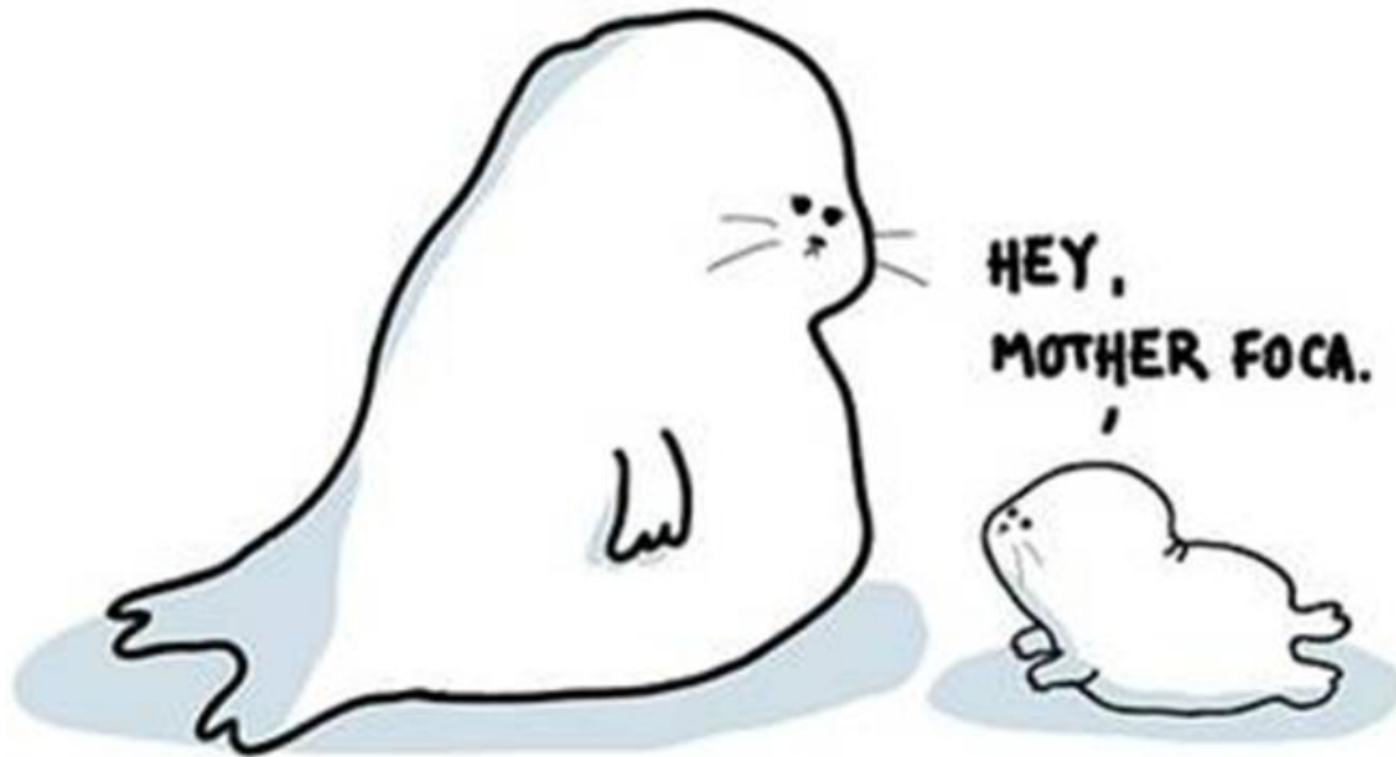




**Phase 1:**

**Metadata**

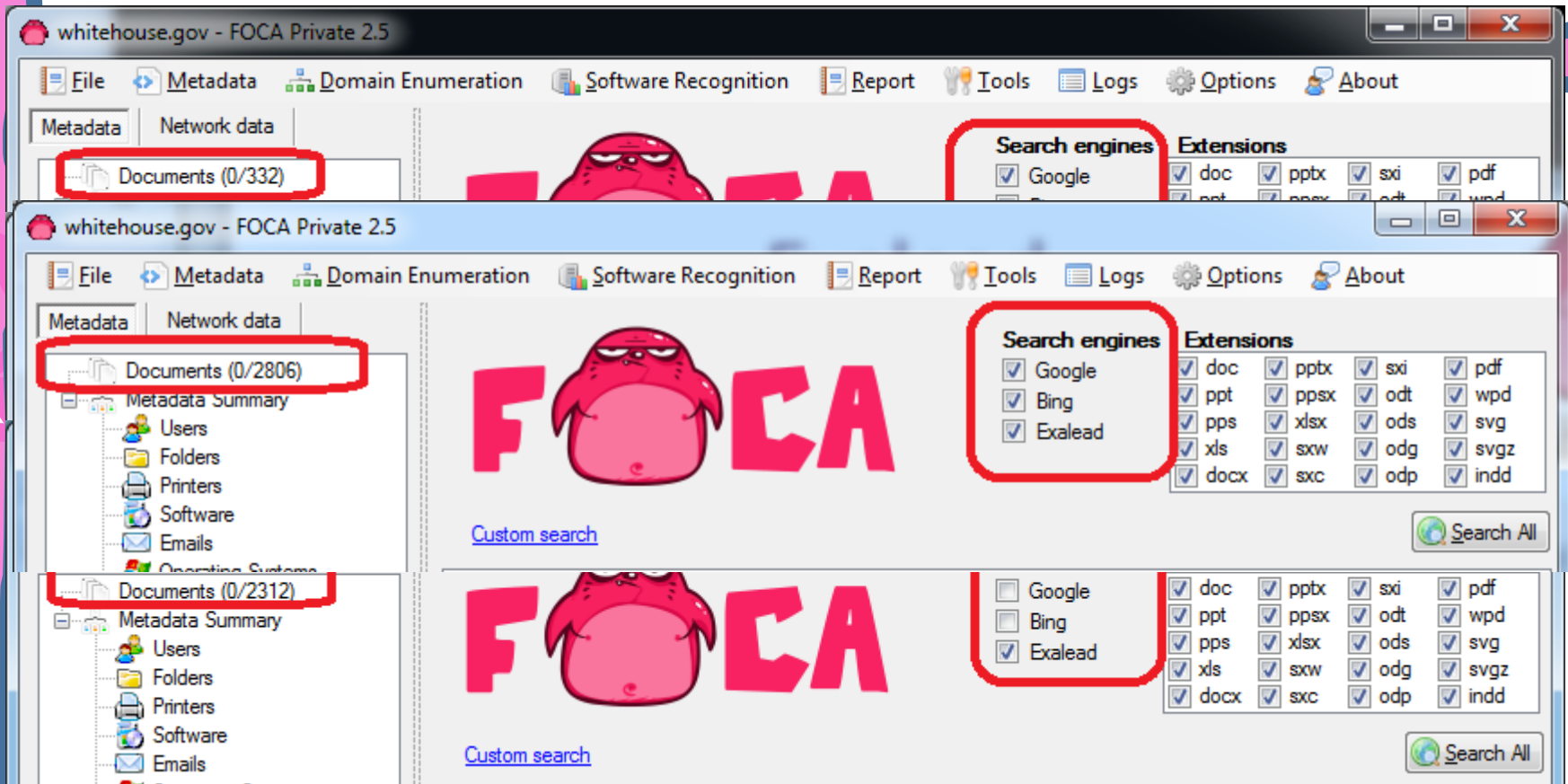
# FOCA 2



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# FOCA 2.5: Exalead



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# Network Discovery

**Select search type**

Web Searcher

DNS Search

Transfer Zone

Names Search

Google Sets

**IP Bing**

PTR Scanning

**Select search type**

**Search IP in Bing**

Bing allows search links located in a particular IP address. This functionality can be used to find domains that share IP Address.

Select the web search engine to use:

BingWeb

**Bing Web limitations**

- Max 1000 results for each search
- Max 49 words in a search string

Current search: None

Skip Start

# Búsqueda de URLs

## ores

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<puertotorre.psoe.es/> - [En caché](#)

### Web Searcher

Using a web searcher like Google or Bing the program search links pointing to the domain site to identify new subdomains.

Select the web search engine to use:

GoogleWeb	▼
GoogleWeb	
GoogleAPI	ons
BingWeb	ach search
BingAPI	arch string
Exalead	

# Bing IP

bing<sup>™</sup> Beta

ip:217.12.16.37

Web

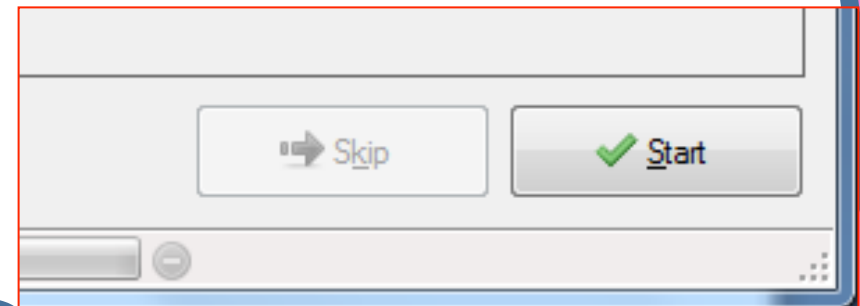
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[Fundación Dezaña 91 ...](#)



Chema

Informática 64

# Shodan



net:143.84.68.8

Options

Save this search

Results 1 - 1 of about 1 for net:143.84.

» Top countries

143.84.68.8  
NetApp Data  
Added on 27.11.2009  
HTTP/1.0 200 OK  
Content-length: 507367  
Via: 1.1 RIL-CTNOSC (NetCache NetApp/6.0.2P1)  
X-powered-by: ASP.NET  
X-aspnet-version: 2.0.50727  
Server: Microsoft-IIS/6.0  
Cache-control: private  
Date: Fri, 27 Nov 2009 06:49:36 GMT  
Content-type: text/html; charset=utf-8

http://shodan.surtri.com/?q=net%3A143.84.68.0/24&f=json - Windows Internet Explorer

http://shodan.surtri.com/?q=net:143.84.68.0/24&f=json

```
{
  "matches": [
    {
      "ip": "143.84.68.8",
      "updated": "27.11.2009",
      "hostnames": [],
      "data": "HTTP/1.0 200 OK\r\nContent-length: 507367\r\nVia: 1.1 RIL-CTNOSC (NetCache NetApp/6.0.2P1)\r\nX-powered-by: ASP.NET\r\nX-aspnet-version: 2.0.50727\r\nServer: Microsoft-IIS/6.0\r\nCache-control: private\r\nDate: Fri, 27 Nov 2009 06:49:36 GMT\r\nContent-type: text/html; charset=utf-8\r\n\r\n"
    },
    {
      "ip": "143.84.68.5",
      "updated": "16.11.2009",
      "hostnames": [],
      "data": "HTTP/1.0 200 OK\r\nContent-length: 27789\r\nVia: 1.1 RIL-CTNOSC (NetCache NetApp/6.0.2P1)\r\nX-powered-by: VP1 IntraView, ASP.NET\r\nSet-cookie: ASP.NET_SessionId=fhlt0uaxmlndfvvcehq10n45; path=/\r\nX-aspnet-version: 1.1.4322\r\nServer: Microsoft-IIS/6.0\r\nCache-control: private\r\nDate: Mon, 16 Nov 2009 05:03:13 GMT\r\nContent-type: text/html; charset=utf-8\r\n\r\n"
    }
  ],
  "total": 2,
  "countries": [
    {
      "count": 4,
      "country": "United States"
    }
  ]
}
```

Listo Internet | Modo protegido: activado 100%

# Network Discovery:

## DNS

Well Known  
Records

SOA, MX, SPF,  
DKIM, LDAP,  
VoIP, Active  
Directory....

Zone  
Transfer

Diccionario  
Search

Server1,  
Intranet,  
Private, DNS,  
etc....



# PTR Scannig

```
> set type=ns  
> urjc.es
```

Respuesta no autoritativa:

```
urjc.es nameserver = orion.urjc.es  
urjc.es nameserver = sun.rediris.es  
urjc.es nameserver = deimos.urjc.es  
urjc.es nameserver = neptuno.urjc.es  
urjc.es nameserver = chico.rediris.es  
urjc.es nameserver = cibeles.urjc.es  
urjc.es names > 192.168.46.21  
urjc.es names Servidor: titan.urjc.es  
Address: 193.147.69.2
```

```
sun.rediris.es  
neptuno.urjc.es 21.46.168.192.in-addr.arpa name = morgana.urjc.es  
chico.rediris.es 46.168.192.in-addr.arpa nameserver = neptuno.urjc.es  
saturno.urjc.es 46.168.192.in-addr.arpa nameserver = saturno.urjc.es  
> server nept 46.168.192.in-addr.arpa nameserver = orion.urjc.es  
Servidor: prev 46.168.192.in-addr.arpa, nameserver = titan.urjc.es  
Address: 193.147.184.2
```

```
> set type=ptr
```

```
> 192.168.46.22  
>  
Servidor: titan.urjc.es  
Address: 193.147.69.2
```

```
22.46.168.192.in-addr.arpa name = ares.urjc.es  
46.168.192.in-addr.arpa nameserver = cibeles.urjc.es  
46.168.192.in-addr.arpa nameserver = neptuno.urjc.es
```

# Huge domains case

The screenshot displays the FOCA Pro 2.6 interface. On the left, a tree view shows the network structure for 'regjeringen.no', including servers at various IP addresses and subdomains like 'beta.regjeringen.no' and 'regjeringen.no'. The main window is divided into several sections:

- Information:** A table with columns 'Attribute' and 'Value'.

Attribute	Value
<b>Information</b>	
Name	fremtidenshelsetjeneste.regjeringen.no [79.171.83.180]
<b>Domains - Source</b>	
fremtidenshelsetjeneste.regjeringen.no	Web Search, BingAPI [fremtidenshelsetjeneste.regjeringen.no]
<b>IP Addresses - Source</b>	
- Technology recognition:** A grid of checkboxes for various file formats (doc, xls, ppt, etc.) and search engines (Google, Bing, Exalead).
- Files:** A section showing search results for the domain 'fremtidenshelsetjeneste.regjeringen.no', including 'Files (0 found)', 'Folders (1 found)', 'Documents published (0 found)', and 'Backups (0 found)'. It also indicates 'Directory Listing enabled (0 found) [PASIVE]' and 'Methods on folders (0 found) [PASIVE]'.

The status bar at the bottom indicates 'Searching subdomains of regjeringen.no in BingAPI'.

# Network Discovery

## Algorithm

<http://apple1.sub.domain.com/chem/crfile.doc>

- 1) http -> Web server
- 2) GET Banner HTTP
- 3) domain.com is a domain
- 4) Search NS, MX, SPF records for domain.com
- 5) sub.domain.com is a subdomain
- 6) Search NS, MX, SPF records for sub.domain.com
- 7) Try all the non verified servers on all new domains
  - 1) server01.domain.com
  - 2) server01.sub.domain.com
- 8) Apple1.sub.domain.com is a hostname
- 9) Try DNS Prediction (apple1) on all domains
- 10) Try Google Sets(apple1) on all domains

# Network Discovery

## Algorithm

<http://apple1.sub.domain.com/~chema/inf1.doc>

- 11) Resolve IP Address
- 12) Get Certificate in <https://IP>
- 13) Search for domain names in it
- 14) Get HTTP Banner of <http://IP>
- 15) Use Bing Ip:IP to find all domains sharing it
- 16) Repeat for every new domain
- 17) Connect to the internal NS (1 or all)
- 18) Perform a PTR Scan searching for internal servers
- 19) For every new IP discovered try Bing IP recursively
- 20) ~chema -> chema is probably a user

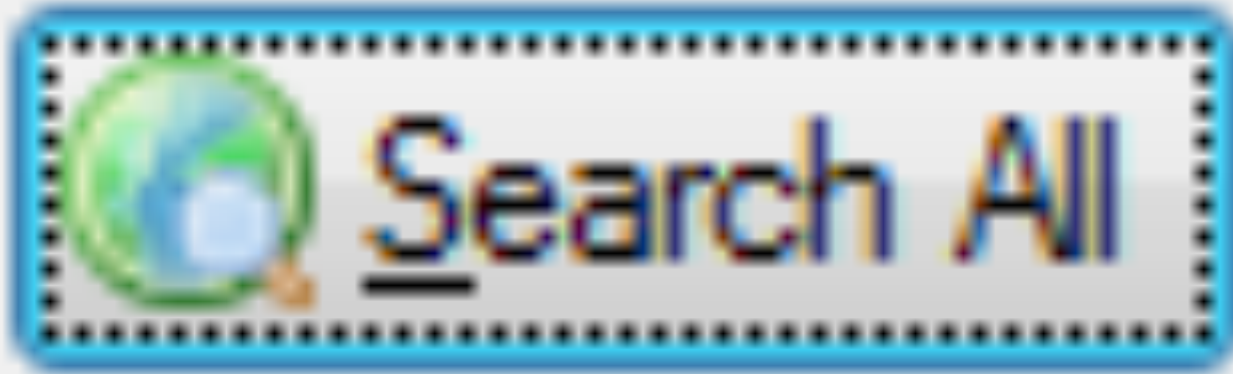
# Network Discovery

<http://apple1.sub.domain.com/~chema/dir/fil.doc>

## Algorithm

- 21) / , /~chema/ and /~chemadir/ are paths
- 22) Try directory listing in all the paths
- 23) Search for PUT, DELETE, TRACE methods in every path
- 24) Fingerprint software from 404 error messages
- 25) Fingerprint software from application error messages
- 26) Try common names on all domains (dictionary)
- 27) Try Zone Transfer on all NS
- 28) Search for any URL indexed by web engines related to the hostname
- 29) Download the file
- 30) Extract the metadata, hidden info and lost data
- 31) Sort all this information and present it nicely
- 32) For every new IP/URL start over again

# Click & Go





# Phase 2: Network Discovery

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# How Foca found a data

Attribute	Value
IP - Source	
17.112.152.32	Reverse resolution, scanning IP range of 17.112.152.57 > DNS resolution [17.112.152.32]
Domains in IP - Source	
www.apple.com	WebSearch, GoogleWeb [www.apple.com]
eg-www.apple.com	Reverse resolution, scanning IP range of 17.112.152.57
wdirect.apple.com	Documents search

Attribute	Value
IP - Source	
17.112.200.69	WebSearch, GoogleWeb [store.apple.com] > DNS resolution [17.251.201.32] > Bing IP Search [buyiphone.apple.com] > DNS resolution [17.112.200.69]
Domains in IP - Source	
buyiphone.apple.com	WebSearch, GoogleWeb [store.apple.com] > DNS resolution [17.251.201.32] > Bing IP Search [buyiphone.apple.com]
eg-buyiphone.apple.com	WebSearch, GoogleWeb [store.apple.com] > DNS resolution [17.251.201.32] > Bing IP Search [buyiphone.apple.com] > DNS resolution [17.112.200.69] > DNS reverse resolution [eg-buyiphone.apple.com]



# Role Oriented View

The screenshot displays the FOCA Pro 2.5 application window. The main interface is divided into several sections:

- Metadata:** Includes tabs for File, Metadata, Domain Enumeration, Software Recognition, Report, Tools, Logs, Options, and About.
- Network data:** A tree view on the left shows categories like Dns, Ftp, Http, Https, and Mail, with sub-entries for IP addresses 80.81.106.148 and 80.81.106.146.
- Roles:** A context menu is open over the IP 80.81.106.146, listing various search actions such as "Assign rol [80.81.106.146]", "Search domains using ICMP Scanning", "Search hosts in IP range using ICMP Scanning", "Search domains in Bing with IP", "Search IP in Robtex", and "Search IP in Shodan".
- Table:** A table with columns "Attribute" and "Value" shows search results. The "IP - Source" attribute is highlighted, showing "80.81.106.146" and "DNSSearch, NS Server [ns2.informatica64.com] > DNS resolution [80.81.106.146]". Below this, a "Roles in IP" section is visible.
- Assign roles dialog:** A smaller dialog box titled "Assign roles to 80.81.106.146" is open, showing "Unassigned roles" (Http, Ftp) and "Assigned roles" (Mail, Dns, Https). Buttons for "Unassign rol" and "Assign rol" are present.

At the bottom of the window, a status bar indicates: "Searching subdomains of informatica64.com using Google Sets".

# Fingerprinting

- 404 Not Found messages
  - Domain names and software
- Aspx Error Messages
- HTTP Banner
  - Hostname
  - IP Address
- SMTP Banner
- Digital Certificates
- Shodan

# DNS Version.bind

```
> server ns1.meneame.net
> Se>_server ns1.meneame.net
> A> server ns1.redhat.com
> Servidor predeterminado: ns1.redhat.com
Se>Address: 66.187.233.210
Ad>
>> set class=chaos
S> version.bind
A>Servidor: ns1.redhat.com
Address: 66.187.233.210
ve>
ve> version.bind text =
>
ve> "eleventy-billion and threave"
>>
ve> _
```

# Primary Master

```
> set type=soa
> renfe.es

> set type=soa
> apache.org

Respuesta no autoritativa:
apache.org
    primary name server = ns2.surfnet.nl
    responsible mail addr = nocomaster-2005-alpha.apache.org
    serial = 2010120902
    refresh = 3600 (1 hour)
    retry = 900 (15 mins)
    expire = 604800 (7 days)
    default TTL = 3600 (1 hour)

>
> set type=a
> ns2.surfnet.nl

Respuesta no autoritativa:
Nombre: ns2.surfnet.nl
Address: 192.87.36.2
```

# Vulnerabilites View

The screenshot displays the FOCA Pro 2.6 application window. The interface includes a menu bar (File, Metadata, Domain Enumeration, Software Recognition, Report, Tools, Logs, Options, About) and a sidebar with navigation options (Network data, Metadata, PCs/Servers, Domains, IPs, Roles, Vulnerabilities). The main area is divided into several sections:

- Roles in IP:** A table listing roles for the IP 137.161.202.92.
- Fingerprinting - HTTP:** A table showing the detected technology for various IP addresses.
- Technology Recognition:** A section with a 'Technology Recognition' button and a 'Minimize' button.
- Domain:** www.nwd-wc.usace.army.mil
- Summary:** Files (56 found), Folders (44 found), Documents published (54 found), Backups (0 found).
- Directory Listing:** Directory Listing enabled (27 found) [PASIVE]
- Methods on folders:** Methods on folders (27 found) [PASIVE]
- Folder List:** A list of discovered folders with their full URLs.

Attribute	Value
Roles in IP	
Rol	Ftp
Rol	Http
Rol	Https

IP Address	Technology
www.nwd-wc.usace.army.mil:80	Apache/1.3.34 (Debian) mod_perl/1.29
137.161.202.92:80	Apache/1.3.34 (Debian) mod_perl/1.29
www.nwd-wc.usace.army.mil:443	Apache/1.3.34 Ben-SSL/1.55 (Debian) mod_perl/1.29
137.161.202.92:443	Apache/1.3.34 Ben-SSL/1.55 (Debian) mod_perl/1.29

Folder
http://www.nwd-wc.usace.army.mil/nws/
http://www.nwd-wc.usace.army.mil/ftppub/
http://www.nwd-wc.usace.army.mil/TMT/
http://www.nwd-wc.usace.army.mil/ftppub/rcc/
http://www.nwd-wc.usace.army.mil/tmt/documents/fpp/2010/final/
http://www.nwd-wc.usace.army.mil/crwmg/techmtg/
http://www.nwd-wc.usace.army.mil/tmt/documents/wmp/2010/final/



# Phase 3: Vulnerabilities

Chema

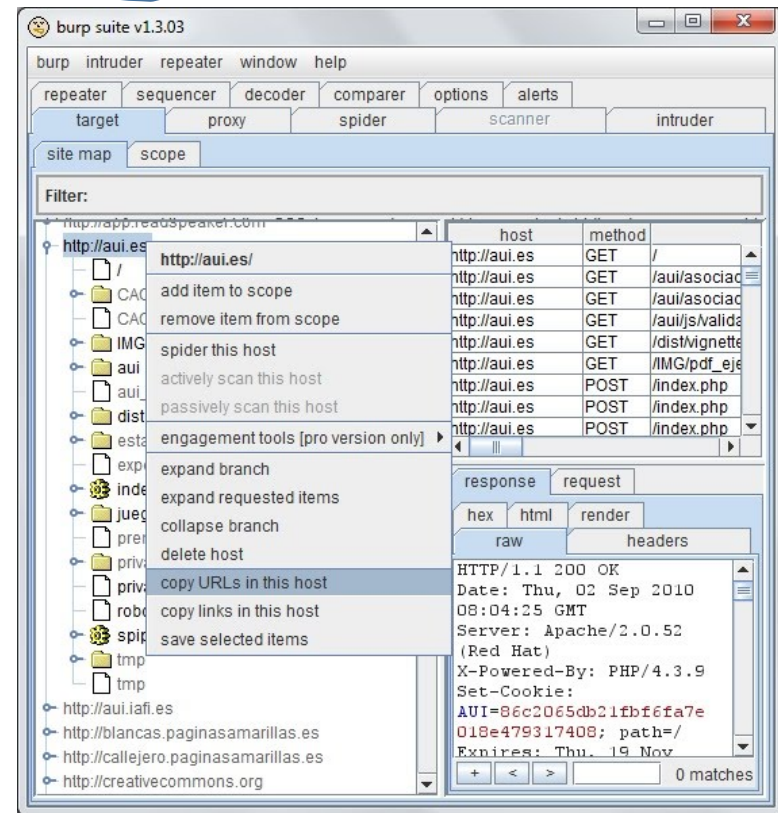
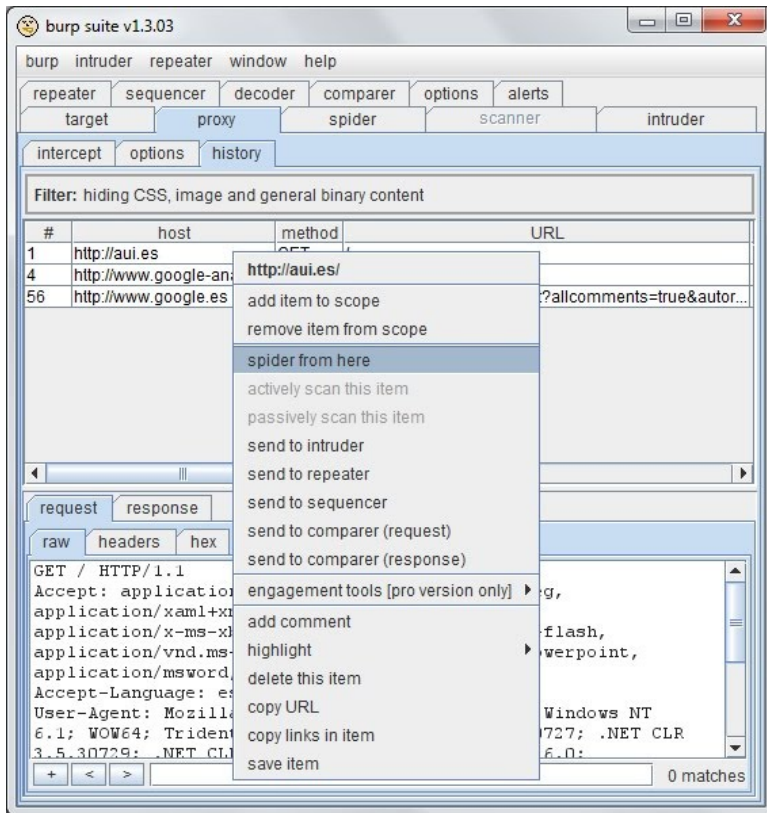
Informática 64

# Customizable Search

The screenshot displays the FOCA Private 2.5 application window. The interface includes a menu bar with options like File, Metadata, Domain Enumeration, Software Recognition, Report, Tools, Logs, Options, and About. The main area is divided into a left sidebar for file selection, a central search engine configuration section, and a right sidebar for search engines and extensions. The search results table is as follows:

Id	Type	URL
182	pdf	<a href="http://manolocazorla.voila.net/unidad6.pdf">http://manolocazorla.voila.net/unidad6.pdf</a>
203	pdf	<a href="http://mirrors.sandino.net/pelogo/sparati/sparatinum05.pdf">http://mirrors.sandino.net/pelogo/sparati/sparatinum05.pdf</a>
233	pdf	<a href="http://mnm.uib.es/gallir/CursPL2005/material/comandos-basicos.pdf">http://mnm.uib.es/gallir/CursPL2005/material/comandos-basicos.pdf</a>
56	pdf	<a href="http://ols.fedoraproject.org/OLS/Reprints-2008/hallyn-reprint.pdf">http://ols.fedoraproject.org/OLS/Reprints-2008/hallyn-reprint.pdf</a>
111	pdf	<a href="http://people.debian.org/~sto/BHLSSL/BHLSSL.pdf">http://people.debian.org/~sto/BHLSSL/BHLSSL.pdf</a>
6	pdf	<a href="http://ptgmedia.pearsoncmg.com/images/013143697X/downloads/013143697X_book.pdf">http://ptgmedia.pearsoncmg.com/images/013143697X/downloads/013143697X_book.pdf</a>
61	pdf	<a href="http://puppylinux.org/main/Puppy430-tutorial-English.pdf">http://puppylinux.org/main/Puppy430-tutorial-English.pdf</a>
144	pdf	<a href="http://puppylinux.org/main/Puppy430-tutorial-Espanol.pdf">http://puppylinux.org/main/Puppy430-tutorial-Espanol.pdf</a>
119	pdf	<a href="http://redalyc.uaemex.mx/redalyc/pdf/852/85216007.pdf">http://redalyc.uaemex.mx/redalyc/pdf/852/85216007.pdf</a>
149	pdf	<a href="http://revista.info.unlp.edu.ar/tesinas/tesis7.pdf">http://revista.info.unlp.edu.ar/tesinas/tesis7.pdf</a>
14	pdf	<a href="http://sg.samba.org/samba/ftp/cifs-cvs/linux-cifs-client-guide.pdf">http://sg.samba.org/samba/ftp/cifs-cvs/linux-cifs-client-guide.pdf</a>
270	pdf	<a href="http://sindominio.net/metabolik/alephandria/bt/vidal_debian.pdf">http://sindominio.net/metabolik/alephandria/bt/vidal_debian.pdf</a>
219	pdf	<a href="http://sunsite.unam.mx/archivos/linux/mlinux.pdf">http://sunsite.unam.mx/archivos/linux/mlinux.pdf</a>
41	pdf	<a href="http://swift.siphos.be/linux_sea/linux_sea.pdf">http://swift.siphos.be/linux_sea/linux_sea.pdf</a>
60	pdf	<a href="http://tanqsoft.com/refcard/refcard-en-a4.pdf">http://tanqsoft.com/refcard/refcard-en-a4.pdf</a>

# FOCA + Spidering





# FOCA + Spidering

The screenshot displays the FOCA Private 2.5 application window. The interface includes a menu bar with options like File, Metadata, Domain Enumeration, Software Recognition, Report, Tools, Logs, Options, and About. The main area is divided into several sections:

- Metadata:** Includes tabs for Network data, PCs/Servers, Domains, and IPs. A tree view shows 'aui.es' and 'Related Domains'.
- Table:** A table with columns 'Attribute' and 'Value' showing search results for 'aui.es':

Attribute	Value
Domain - Source	Documents search
IP Addresses - Source	82.223.187.99
	Documents search > DNS resolution [82.223.187.99]
FingerPrinting - HTTP	
Version	Apache/2.0.52 (Red Hat)
Version	Apache/2.0.52 (Red Hat)
- Buttons:** Technology Recognition, Google crawling, Search open folders, Search methods, and Minimize.
- Summary:** Domain: aui.es. Files (0 found), Folders (18 found), Documents published (708 found). Open folders (0 found) [PASIVE], Methods on folders (0 found) [PASIVE].
- Folder List:** A list of discovered folders:
  - http://aui.es/
  - http://aui.es/aui/
  - http://aui.es/aui/asociados/
  - http://aui.es/aui/asociados/is/

# Digital Certificates

Attribute	Value
Domain - Source	usacac.army.mil_140.153.167.60.crt
www.fcs.army.mil	Documents s usacac.leavenworth.army.mil_140.153.167.60.crt
IP Addresses - Source	usachppm.apgea.army.mil_phc.amedd.army.mil_140.153.167.60.crt
143.84.29.53	Documents s www.49thgrp.army.mil_www.49thgrp.army.mil.crt
FingerPrinting - HTTP	www.alt.army.mil_www.alt.army.mil.crt
Version	(Unavailable)
Version	(Unavailable)
Version	(Unavailable)

Attribute	Value
Domain - Source	www.bctmod.army.mil_www.bctmod.army.mil.crt
www.bctmod.army.mil	FingerPrinting
IP Addresses - Source	Documents search > DNS resolution [143.84.29.53]
143.84.29.53	
FingerPrinting - HTTP	
Version	(Unavailable)
Version	Microsoft-IIS/6.0

Certificado

General Detalles Ruta de certificación

Mostrar: <Todos>

Campo	Valor
Identificador de clave del titular	09 9f 63 38 ed b5 d1 f9 3d c0 ...
Acceso a la información de ...	[1]Acceso a información de au...
Puntos de distribución CRL	[1]Punto de distribución CRL: ...
Nombre alternativo del titular	Nombre DNS=www.bctmod.ar...
Directivas del certificado	[1]Directiva de certificado:Ide...
Uso de la clave	Firma digital, Cifrado de clave ...
Algoritmo de identificación	sha1
Huella digital	41 85 b4 h1 0a e0 e5 0b 9e d9

Nombre DNS=www.bctmod.army.mil  
Nombre DNS=www.fcs.army.mil

Editar propiedades... Copiar en archivo...

Información acerca de los [detalles del certificado](#)

Aceptar

# FOCA 2.5 URL

Select search type

- FPrinting HTTP
- FPrinting SMTP
- FPrinting Shodan
- Tech Recognition

**HTTP Fingerprinting**

Webserver fingerprinting based on

- Server banner
- 404 message error
- ASPX's responses

Options

Metadata DNS Search Network  
Fingerprinting Technology Folders

- Pasive Fingerprinting on HTTP servers
- HTTP Fingerprinting to all servers
- Pasive Fingerprinting on SMTP servers
- SMTP Fingerprinting to all servers

Save Cancel

Options

Metadata DNS Search Network  
Fingerprinting Technology Folders

Detect open folders when the next match is found

index of /

- Search automatically in each folder

Methods to search for

PUT.DELETE

- Search automatically in each folder

**If you check 'Search automatically', your computer will perform multiple connections to remote servers**

Save Cancel

Options

Metadata DNS Search Network  
Fingerprinting Technology Folders

Technologies to be searched for

<input checked="" type="checkbox"/> asp	<input checked="" type="checkbox"/> pl
<input checked="" type="checkbox"/> aspx	<input checked="" type="checkbox"/> cfm
<input checked="" type="checkbox"/> asmx	<input checked="" type="checkbox"/> cgi
<input checked="" type="checkbox"/> do	
<input checked="" type="checkbox"/> php	
<input checked="" type="checkbox"/> nsf	
<input checked="" type="checkbox"/> jsp	
<input checked="" type="checkbox"/> swf	
<input checked="" type="checkbox"/> exe	

Select all  Unselect all  Search automatically

Save Cancel

ext:listing

Buscar

Aproximadamente 75.100 resultados (0,13 segundos)

Búsqueda avanzada

[drwxr-xr-x 3 michelo michelo 4096 Nov 7 10:31 . drwxr-x--- 23 ...](#) - [ Traducir esta página ]

drwxr-xr-x 3 michelo michelo 4096 Nov 7 10:31 . drwxr-x--- 23 michelo 99 4096 Apr 20 10:22 ..

-rwxr-xr-x 1 michelo michelo 4 Apr 6 00:23 .ftpquota ...

[www.index972.com/.listing](#) - En caché

```

drwxr-xr-x 6 root root 4096 Mar 25 2009 .
drwxr-xr-x 25 root root 4096 May 3 17:02 ..
-rw-r--r-- 1 root root 1582 Mar 25 2009 download.mp3
drwxr-xr-x 2 root root 4096 Mar 25 2009 getid3
drwxr-xr-x 2 root root 4096 Mar 25 2009 images
-rw-r--r-- 1 root root 17991 Mar 25 2009 license.txt
-rw-r--r-- 1 root root 888 Mar 25 2009 mobatalk_audio_comment.php
drwxr-xr-x 4 root root 4096 Mar 25 2009 optional_files
drwxr-xr-x 2 root root 4096 Mar 25 2009 players
-rw-r--r-- 1 root root 22407 Mar 25 2009 podango-api.php

```

ext:listing site:gov

Buscar

1 resultado (0,11 segundos)

Búsqueda avanzada

[listing - Official NASA Fermi Website](#) - [ Traducir esta página ]

drwxr-xr-x 4 4866 4915 26 Apr 03 2009 . drwxr-xr-x 5 0 0 0 Sep 23 18:45 .. drwxr-xr-x 985

4866 4915 24576 Sep 16 09:15 adp drwxr-xr-x 987 4866 4915 16384 ...

[fermi.gsfc.nasa.gov/FTP/FTP/integral\\_archive2/.../.listing](#) - En caché

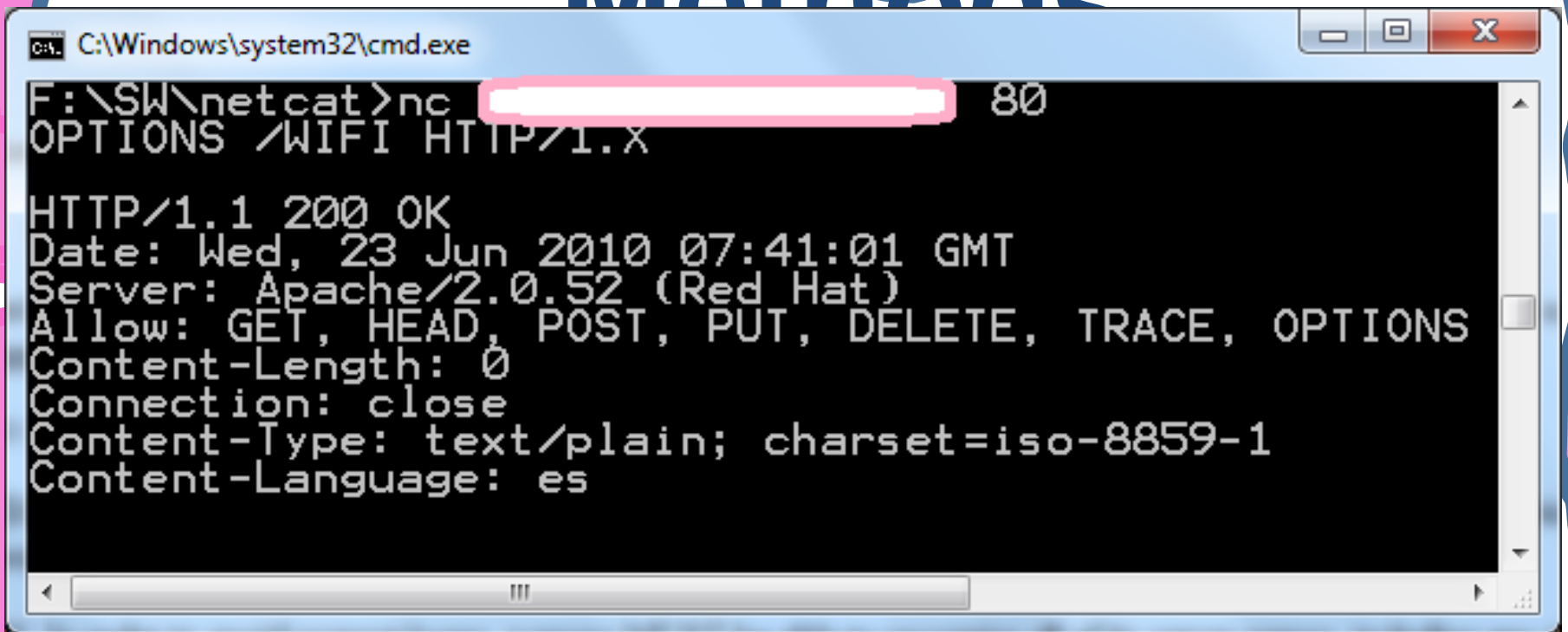
```

-rw-r--r-- 1 root root 59 Mar 25 2009 podpress_admin_tigercheck.css
-rw-r--r-- 1 root root 2123 Mar 25 2009 podpress_backend.php
-rw-r--r-- 1 root root 34228 Mar 25 2009 podpress_class.php
-rw-r--r-- 1 root root 1213 Mar 25 2009 podpress_feed.php
-rw-r--r-- 1 root root 22775 Mar 25 2009 podpress_feed_functions.php
-rw-r--r-- 1 root root 32436 Mar 25 2009 podpress_functions.php

```

# Unsecure Http

## Methods



```
C:\Windows\system32\cmd.exe
F:\SW\netcat>nc [redacted] 80
OPTIONS /WIFI HTTP/1.X

HTTP/1.1 200 OK
Date: Wed, 23 Jun 2010 07:41:01 GMT
Server: Apache/2.0.52 (Red Hat)
Allow: GET, HEAD, POST, PUT, DELETE, TRACE, OPTIONS
Content-Length: 0
Connection: close
Content-Type: text/plain; charset=iso-8859-1
Content-Language: es
```

# Search & Upload

The screenshot shows a web application interface for searching and uploading files. The main window displays metadata for the domain `app2.whitehouse.gov` (IP: `63.161.169.23`). A "File upload" dialog box is open, showing a "Remote file" field with the URL `https://app2.whitehouse.gov/ppo/paper_app/file.ext` and an "Upload" button. Below the dialog, a table lists search results for folders, with a context menu open over the first entry, highlighting the "Upload file" option.

Attribute	Value
Name	app2.whitehouse.gov [63.161.169.23]
Domains - Source	app2.whitehouse.gov
IP Addresses - Source	63.161.169.23

Technology Recognition | Google crawling | Search

Domain: `app2.whitehouse.gov`

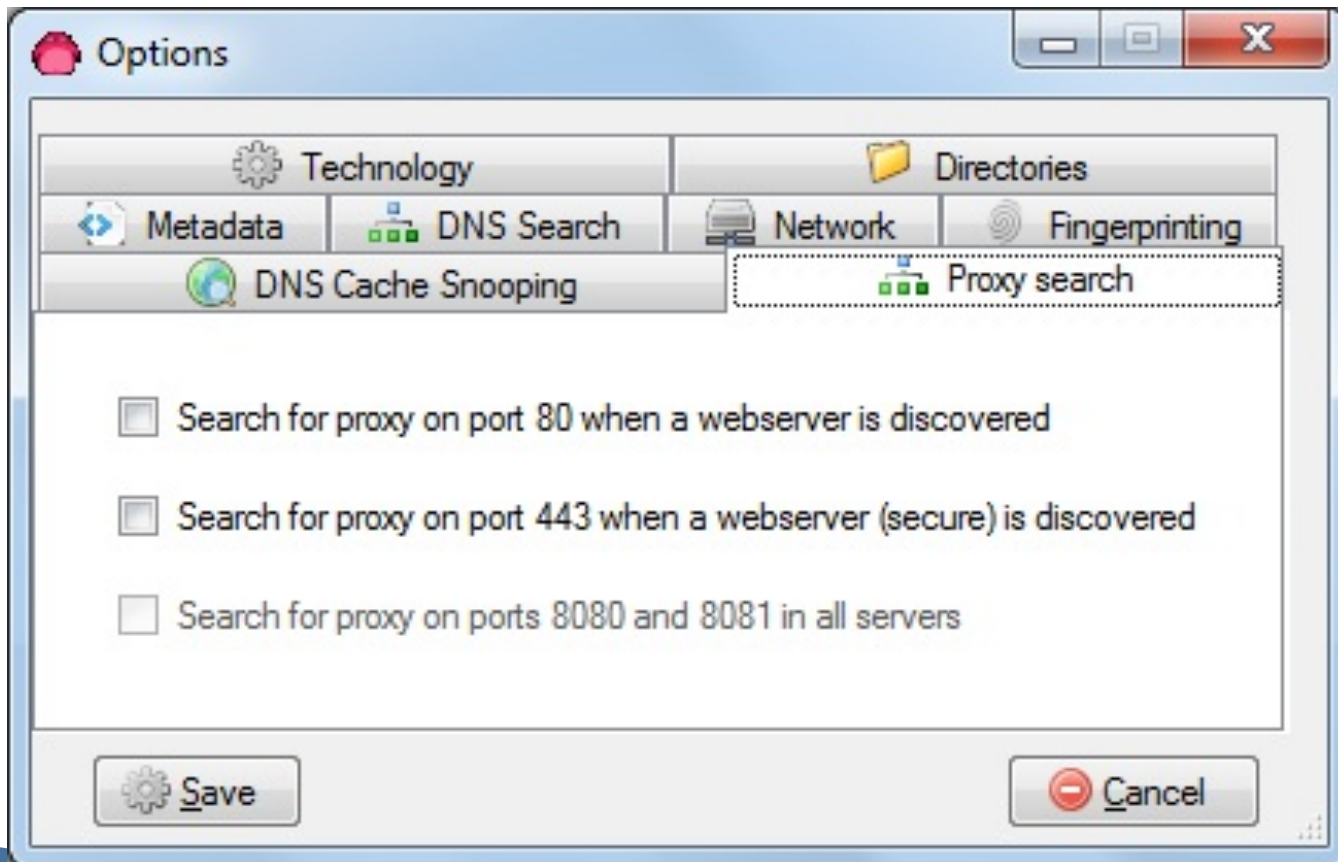
Files (0 found) | Folders (3 found) | Documents published (1 found)

Open folders (0 found) [PASIVE] | Methods on folders (2 found) [PASIVE]

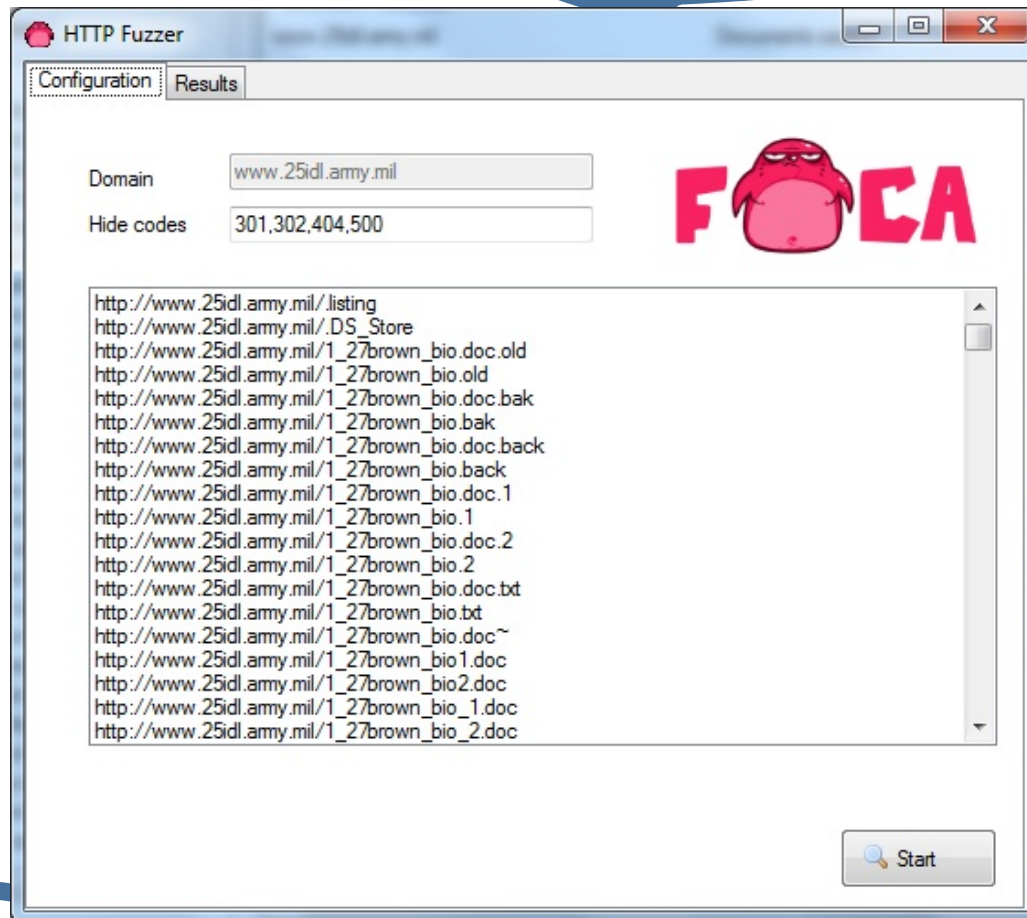
Folder	Methods
<code>https://app2.whitehouse.gov/ppo/paper_app/</code>	PUT
<code>https://app2.whitehouse.gov/ppo/paper_app/</code>	DELETE

- Export data to file
- Open in browser
- Upload file
- Delete file

# Proxy



# Fuzzing options





# DNS Cache Snooping

```
C:\>nslookup
Servidor predeterminado: UnKnown
Address: 192.168.1.1

> set type=ns
> renfe.es
Servidor: UnKnown
Address: 192.168.1.1

Respuesta no autoritativa:
renfe.es          nameserver = dns1.renfe.es
renfe.es          nameserver = dns2.renfe.es
renfe.es          nameserver = ns1.renfe.es
renfe.es          nameserver = ns2.renfe.es

dns1.renfe.es     internet  address = 213.144.49.35
dns2.renfe.es     internet  address = 213.144.49.43
ns1.renfe.es      internet  address = 213.144.33.254
> server ns1.renfe.es
Servidor predeterminado: ns1.renfe.es
Address: 213.144.33.254

> set type=a
> set norecuse
> www.facebook.com
Servidor: ns1.renfe.es
Address: 213.144.33.254

Respuesta no autoritativa:
Nombre: www.facebook.com
Address: 69.63.190.18

> elladodelmal.blogspot.com
Servidor: ns1.renfe.es
Address: 213.144.33.254

Nombre: elladodelmal.blogspot.com
Served by:
- ns3.google.com
  216.239.36.10
  blogspot.com
- ns4.google.com
```

# DNS Cache Snooping

Domain: renfe.es

File: C:\Users\64\AppData\Local\Apps\2.0\LGA16CMW.3TW\LBE5TQYE.Z0M\foction\_e

Dns:  
ns1.renfe.es  
dns1.renfe.es  
dns2.renfe.es  
ns2.renfe.es

Cache:

Host
Default
www.facebook.com
facebook.com
twitter.com
update.microsoft.com
www.periodistadigital.com
elladodelmal.blogspot.com
www.informatica64.com
megaupload.com

Monitor:

Host	First	Last
Default		
www.facebook.com	15:55	15:55
facebook.com	15:55	15:55
twitter.com	15:55	15:55
update.microsoft.com	15:55	15:55
www.periodistadigital.com	15:55	15:55
elladodelmal.blogspot.com	15:55	15:55
www.informatica64.com	15:55	15:55
megaupload.com	15:55	15:55

Monitorice each 60 seconds

# DNS Cache Snooping

- **Internal Software**
  - Windows Update
  - Gtalk
- **Evilgrade**
  - Detecting vulnerable software to Evilgrade attacks
- **AV evassion**
  - Detecting internal AV systems
- **Malware driven by URL**
  - Hacking a web site ussually visited by internal

users

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# DNS Cache detection

The screenshot displays the FOCA Pro 2.6 application window. The main interface is divided into several sections:

- Left Panel:** A tree view under 'Roles' showing 'Dns' with three IP addresses: 140.153.43.44 [ns01.army.mil], 192.82.113.7 [ns02.army.mil], and 130.114.200.6 [ns03.army.mil]. Other roles like Rtp, Http, Https, and Mail are also listed.
- Center Panel:** A table of attributes and values. The 'Activated DNS Cache' attribute is highlighted with a red box and has a value of 'No'. Other attributes include Zone Transfer (No), IP - Source (140.153.43.44 [ns01.army.mil] IP range), Roles in IP (Dns), Active DNS, Domains in IP - Source (ns01.army.mil DNSSearch), and FingerPrinting - DNS (ns01.army.mil:53).
- Right Panel (Options dialog):** A dialog box titled 'Options' with tabs for Metadata, DNS Search, Network, and Fingerprinting. Under 'DNS Search', there is a sub-tab 'DNS Cache Snooping'. A text input field labeled 'Dns cache host test' contains 'www.google.com' and is also highlighted with a red box. At the bottom of the dialog are 'Save' and 'Cancel' buttons.

# Log filter

Time	Source	Criticality	Message
12:06:27	FingingerPrinting	debug	Initializing SMTP fingerprinting
12:06:27	FingingerPrinting	debug	SMTP Fingerprinting on www.hispasec.com:25
12:06:27	FingingerPrinting	medium	SMTP server found on www.hispasec.com:25
12:06:27	FingingerPrinting	debug	SMTP Fingerprinting on hispasec.com:25
12:06:27	FingingerPrinting	medium	SMTP server found on hispasec.com:25
12:06:27	FingingerPrinting	debug	SMTP Fingerprinting on mailman.hispasec.com:25
12:06:28	FingingerPrinting	medium	SMTP server found on mailman.hispasec.com:25
12:06:28	FingingerPrinting	debug	SMTP Fingerprinting on blog.hispasec.com:25
12:06:49	FingingerPrinting	debug	SMTP Fingerprinting on www3.hispasec.com:25
12:06:51	FingingerPrinting	debug	SMTP Fingerprinting on dns.hispasec.com:25
12:06:51	FingingerPrinting	medium	SMTP server found on dns.hispasec.com:25
12:06:51	FingingerPrinting	debug	SMTP Fingerprinting on ftp.hispasec.com:25
12:06:53	FingingerPrinting	debug	SMTP Fingerprinting on www2.hispasec.com:25
12:07:14	FingingerPrinting	debug	SMTP Fingerprinting on pop3.hispasec.com:25
12:07:14	FingingerPrinting	medium	SMTP server found on pop3.hispasec.com:25
12:07:14	FingingerPrinting	debug	SMTP Fingerprinting on descargas.hispasec.com:25
12:07:36	FingingerPrinting	debug	SMTP Fingerprinting on wap.hispasec.com:25
12:07:37	FingingerPrinting	debug	Finishing SMTP fingerprinting
12:07:37	FingingerPrinting	debug	Initializing Shodan fingerprinting
12:07:37	FingingerPrinting	debug	Finishing Shodan fingerprinting

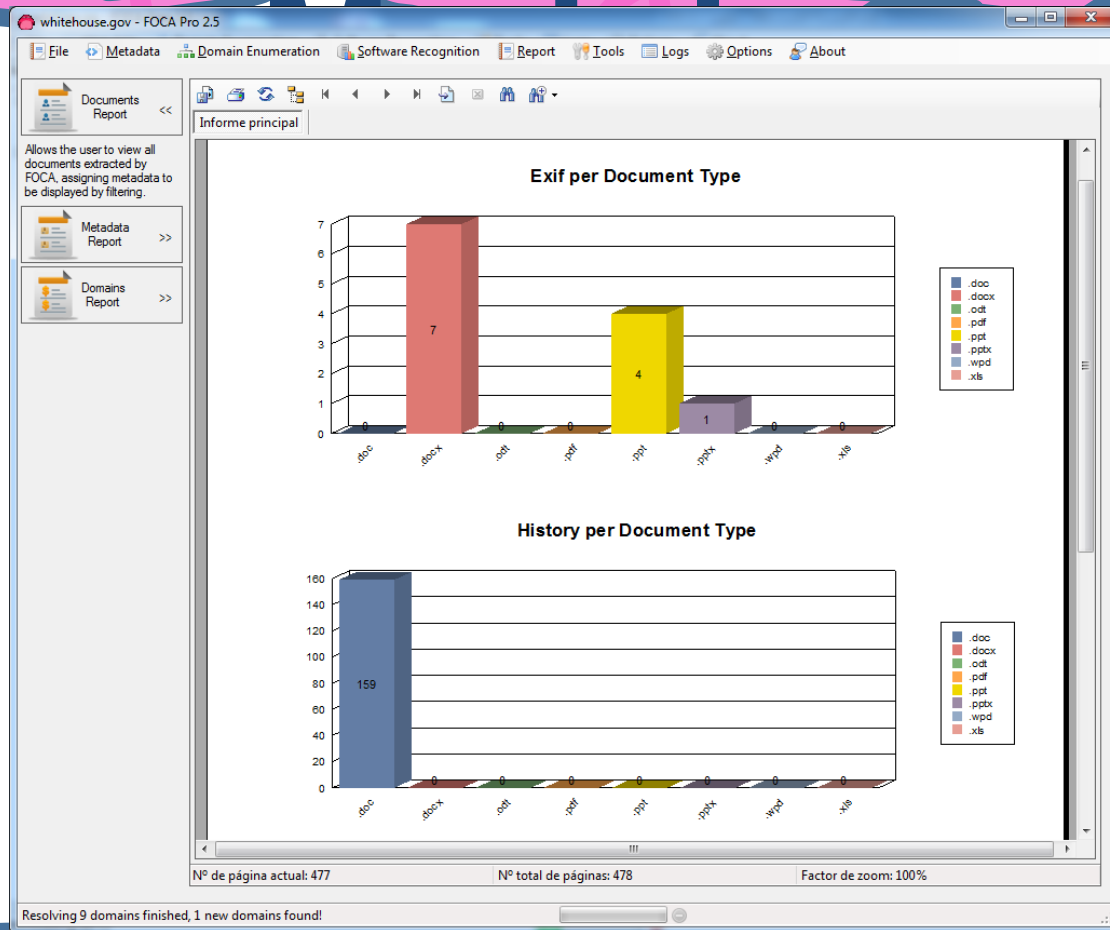
# FOCA Reporting

The screenshot displays the FOCA Pro 2.5 application window. The title bar reads "whitehouse.gov - FOCA Pro 2.5". The menu bar includes "File", "Metadata", "Domain Enumeration", "Software Recognition", "Report", "Tools", "Logs", "Options", and "About". The main window shows a "Documents Report - Wizard" dialog box. The dialog has a left sidebar with a blue background and binary code, and a main area with the following settings:

- Filtered per Date:** "Select the date by which you want to start processing the data extracted." Date: "domingo, 30 de julio de 2000". A "Filter" checkbox is present.
- Graphics:** A list of checkboxes, all of which are checked:
  - Graphic: Number of Documents per Type
  - Graphic: Metadata per Document Type
  - Graphic: Users per Document Type
  - Graphic: Remote Users per Document Type
  - Graphic: Folders per Document Type
  - Graphic: Printers per Document Type
  - Graphic: Emails per Document Type
  - Graphic: Dates per Document Type

At the bottom of the dialog are "Back" and "Build" buttons. Below the dialog, the status bar shows "Nº de página actual:", "Nº total de páginas:", and "Factor de zoom: 100%". At the very bottom of the application window, a progress bar and the text "Resolving 9 domains finished, 1 new domains found!" are visible.

# FOCA Reporting



# Fear The FOCA



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# FOCA Online

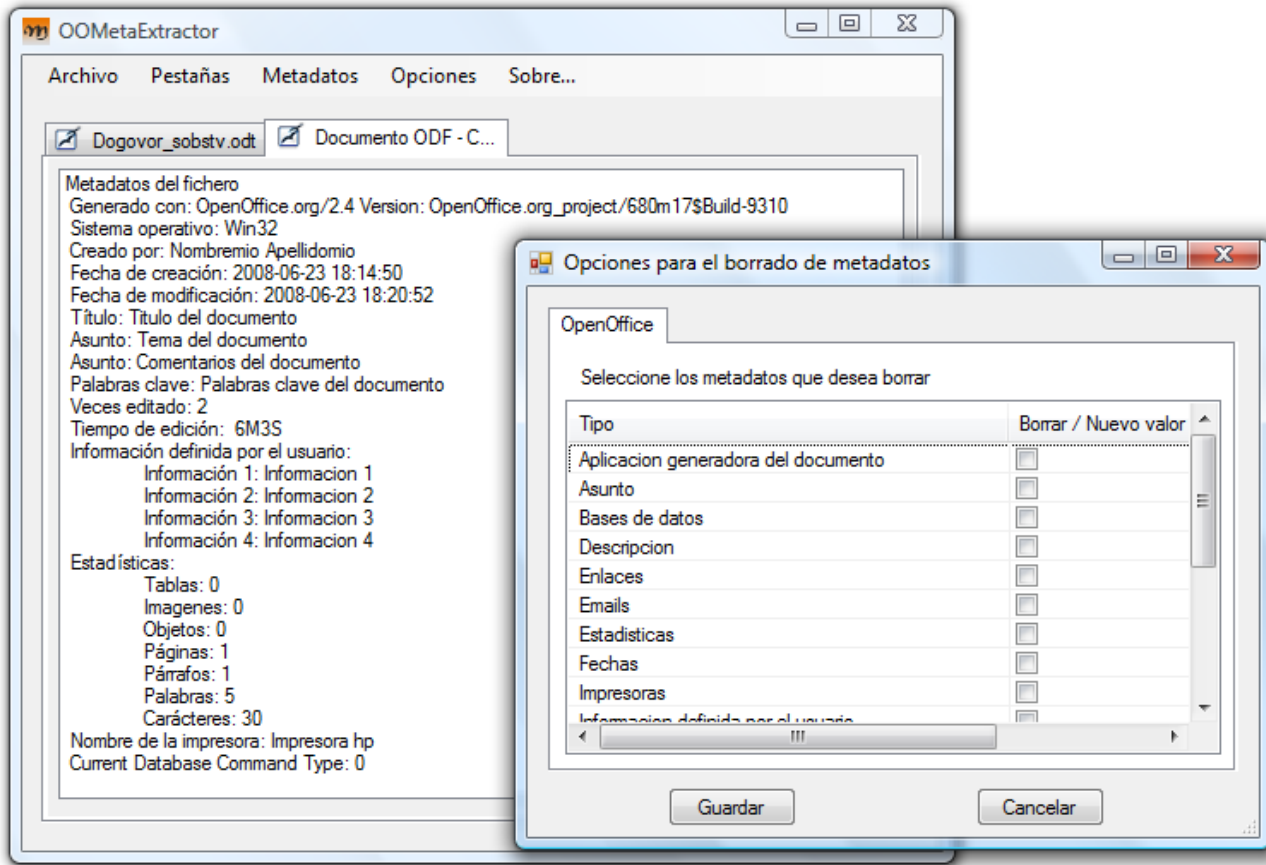


The screenshot shows a web browser window with the address bar displaying `http://www.informatica64.com/FOCA/`. The page features a header with the text "FOCA OnLine" and the logo for "Informática 64 Formación y Consultoría". Below the header, there is a large image of a seal holding a document with the letters "WE" on it. The main content area contains the following text: "Esta aplicación no almacena los ficheros subidos ni el contenido de los mismos. La única información almacenada es con fines estadísticos." Below this text are two language selection icons (Spanish and English). Further down, a list of supported file extensions is provided: ".sxw .odt .ods .odg .odp .docx .xlsx .pptx .ppsx .doc .xls .ppt .pps .pdf". At the bottom of the main content area, there is a text input field, a button labeled "Examinar...", and a button labeled "Analizar Fichero!". A link labeled "Ver estadísticas de la foca." is also present. The browser's status bar at the bottom indicates "Internet" and "100%".

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# Cleaning documents



<http://www.codeplex.org/oomeaextractor>  
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# IIS MetaShield

**MetaShield Protector**

Configuration section properties

Enable

ConnectionString

Web Sites with MetaShield Protector

Web Site	Status
Default Web Site	Started

Select files extension

- docx
- xlsx
- pptx
- ppsx
- doc
- xls
- ppt
- pps
- pdf

Log Info

Web Site: All Web Sites | Date: sábado, 14 de marzo de 2009

Date	Name	Time (ms)	Size (Kb)	Web Site
15:45:14	01-03-08.doc	150	211	Default Web Site
15:42:43	vedtaegter.docx	30	17	Default Web Site
15:42:41	open.odg	320	25	Default Web Site
15:42:40	hardwood.docx	80	172	Default Web Site
15:42:38	cv.docx	2123	72	Default Web Site
15:42:37	biography.docx	2513	14	Default Web Site
15:42:38	doc.pdf	1412	532	Default Web Site
15:42:37	blair.doc	50	63	Default Web Site

# FOCA on Linux?



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# Buy a FOCA T-Shirt



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And be «Sexy» }:))

# Questions?



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