Bosses love Excel ... hackers too!

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Who?

About

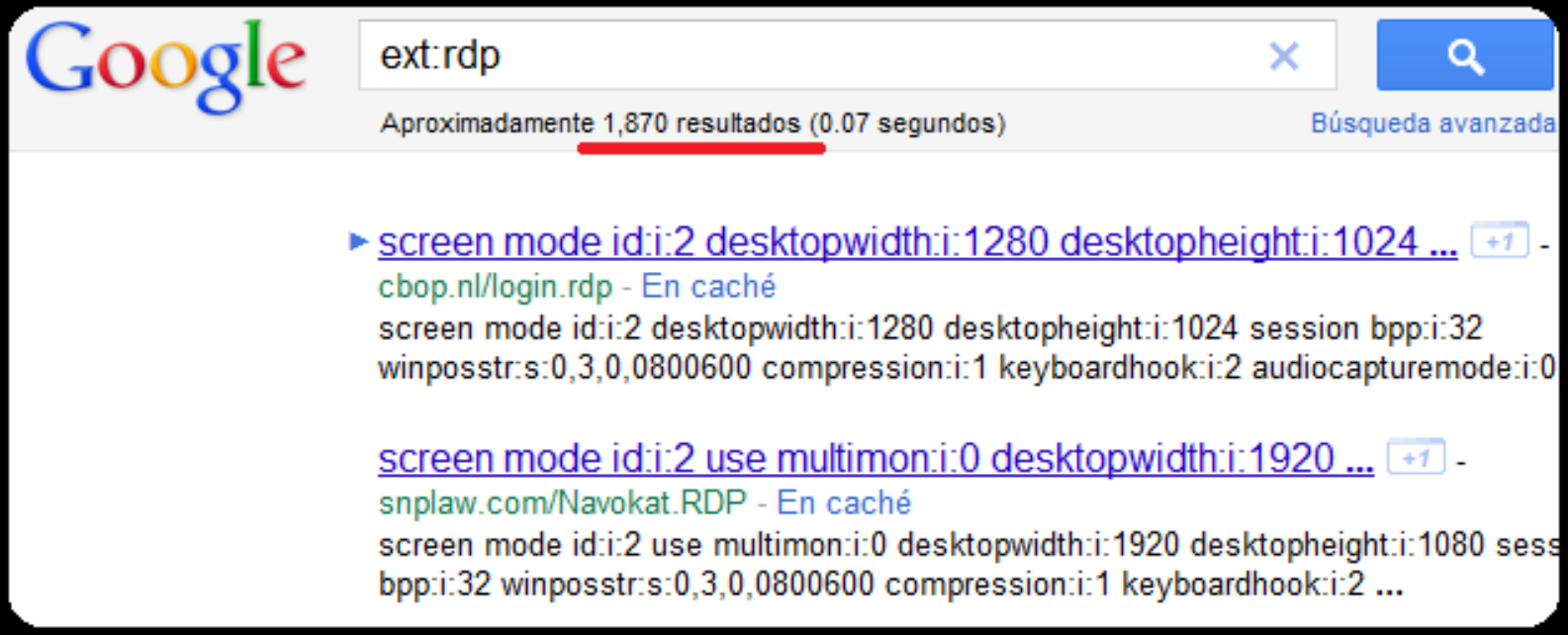
- Security Researchers
- Working at INFORMATICA64
- http://www.informatica64.com

what?

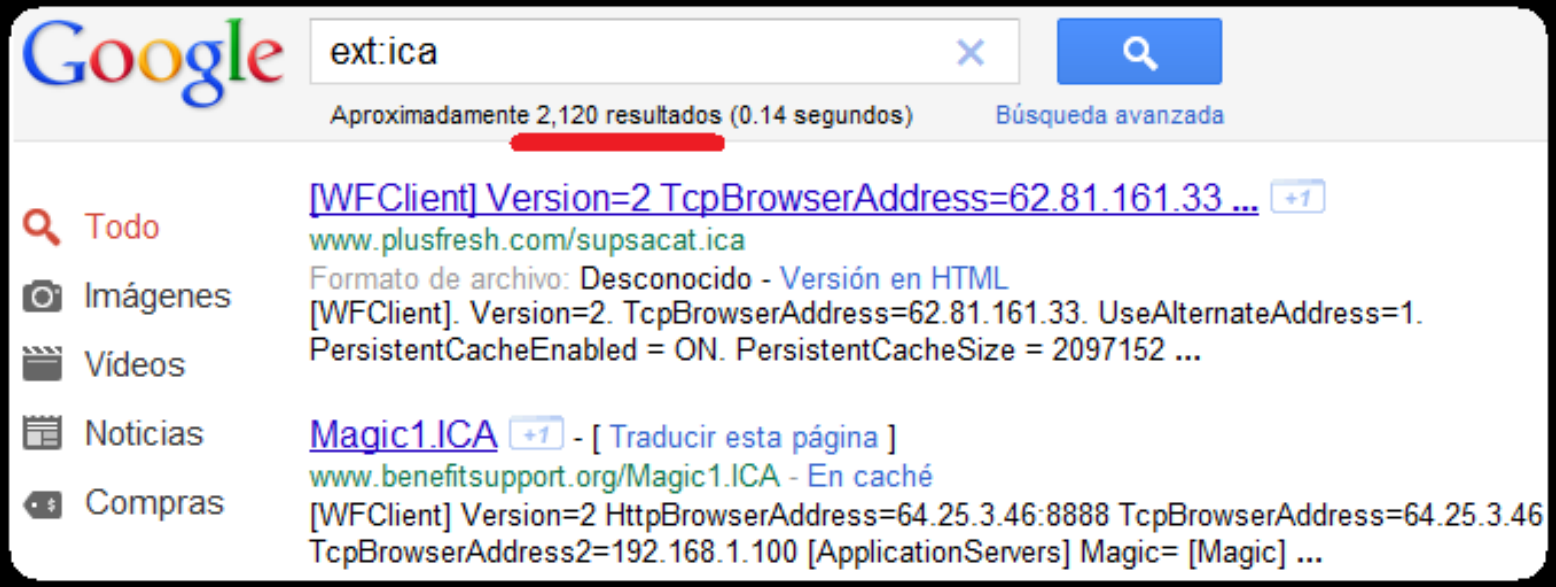
Terminal Applications


why?

RDP

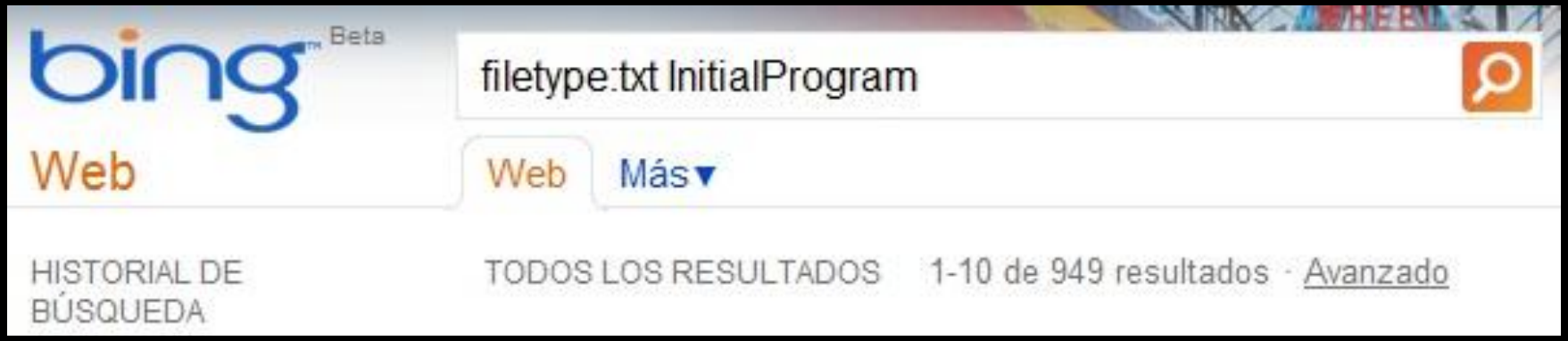

Google
ext:rdp
Aproximadamente 1,870 resultados (0.07 segundos)
Búsqueda avanzada
screen mode id:i:2 desktopwidth:i:1280 desktopheight:i:1024 ...
cbop.nl/login.rdp - En caché
screen mode id:i:2 desktopwidth:i:1280 desktopheight:i:1024 session bpp:i:32
winposstr:s:0,3,0,0800600 compression:i:1 keyboardhook:i:2 audiocapturemode:i:0
screen mode id:i:2 use multimon:i:0 desktopwidth:i:1920 ...
snplaw.com/Navokat.RDP - En caché
screen mode id:i:2 use multimon:i:0 desktopwidth:i:1920 desktopheight:i:1080 sess
bpp:i:32 winposstr:s:0,3,0,0800600 compression:i:1 keyboardhook:i:2 ...

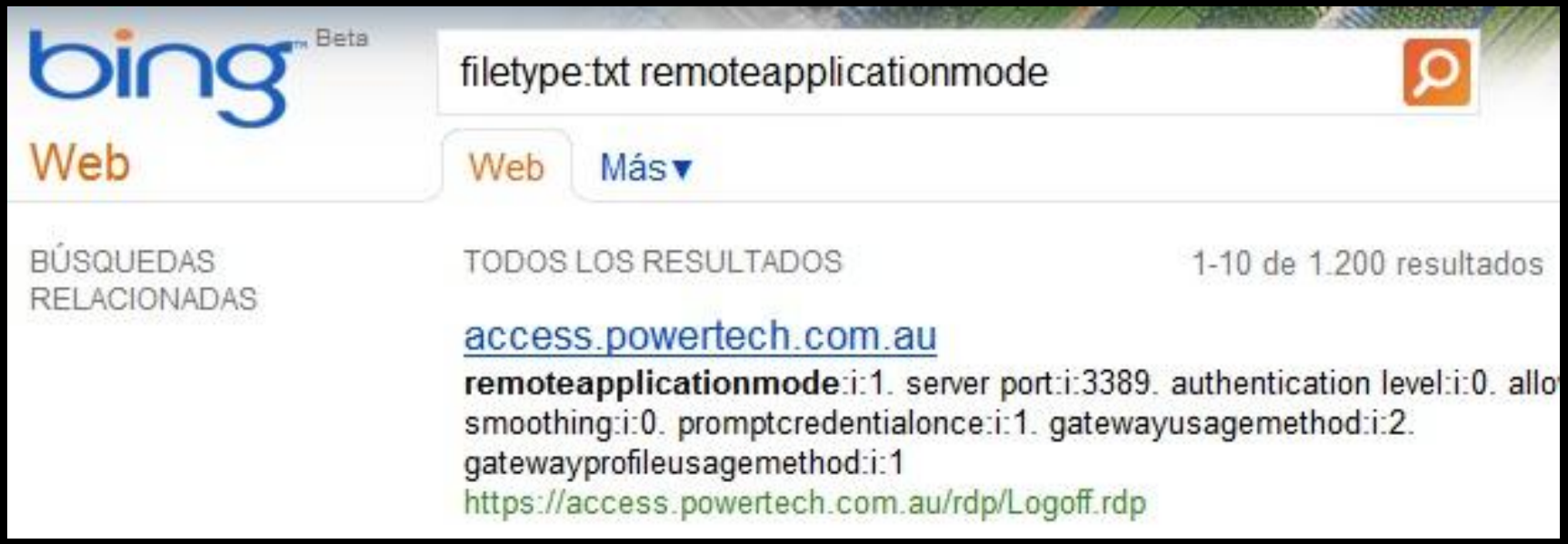
Cítrix


Google
ext:ica
Aproximadamente 2,120 resultados (0.14 segundos)
Búsqueda avanzada
Todo
Imágenes
Vídeos
Noticias
Compras
[WFClient] Version=2 TcpBrowserAddress=62.81.161.33 ...
www.plusfresh.com/supsacat.ica
Formato de archivo: Desconocido - Versión en HTML
[WFClient]. Version=2. TcpBrowserAddress=62.81.161.33. UseAlternateAddress=1.
PersistentCacheEnabled = ON. PersistentCacheSize = 2097152 ...
Magic1.ICA - [Traducir esta página]
www.benefitsupport.org/Magic1.ICA - En caché
[WFClient] Version=2 HttpBrowserAddress=64.25.3.46:8888 TcpBrowserAddress=64.25.3.46
TcpBrowserAddress2=192.168.1.100 [ApplicationServers] Magic= [Magic] ...


Google
ext:ica site:gov
6 resultados (0.22 segundos)
Búsqueda avanzada
VISTA Preview - vista.utah.gov
www.vista.utah.gov/preVISTA.ica
Formato de archivo: Desconocido - Versión en HTML
[WFClient]. Version=2. TcpBrowserAddress=168.177.236.25. PersistentCachePath=c:\temp.
[ApplicationServers]. PreVista= [PreVista]. Address=PreVista ...
Mac Login - vista.utah.gov
www.vista.utah.gov/MacVista.ica
Formato de archivo: Desconocido - Versión en HTML
[WFClient]. Version=1. TcpBrowserAddress=168.177.236.25. [ApplicationServers]. Vista 20=
[Vista 20]. WinStationDriver=ICA 3.0. TransportDriver=TCP/IP ...

Using Bing


bing Beta
filetype:txt InitialProgram
Web
Web
Más
HISTORIAL DE BÚSQUEDA
TODOS LOS RESULTADOS
1-10 de 949 resultados · Avanzado

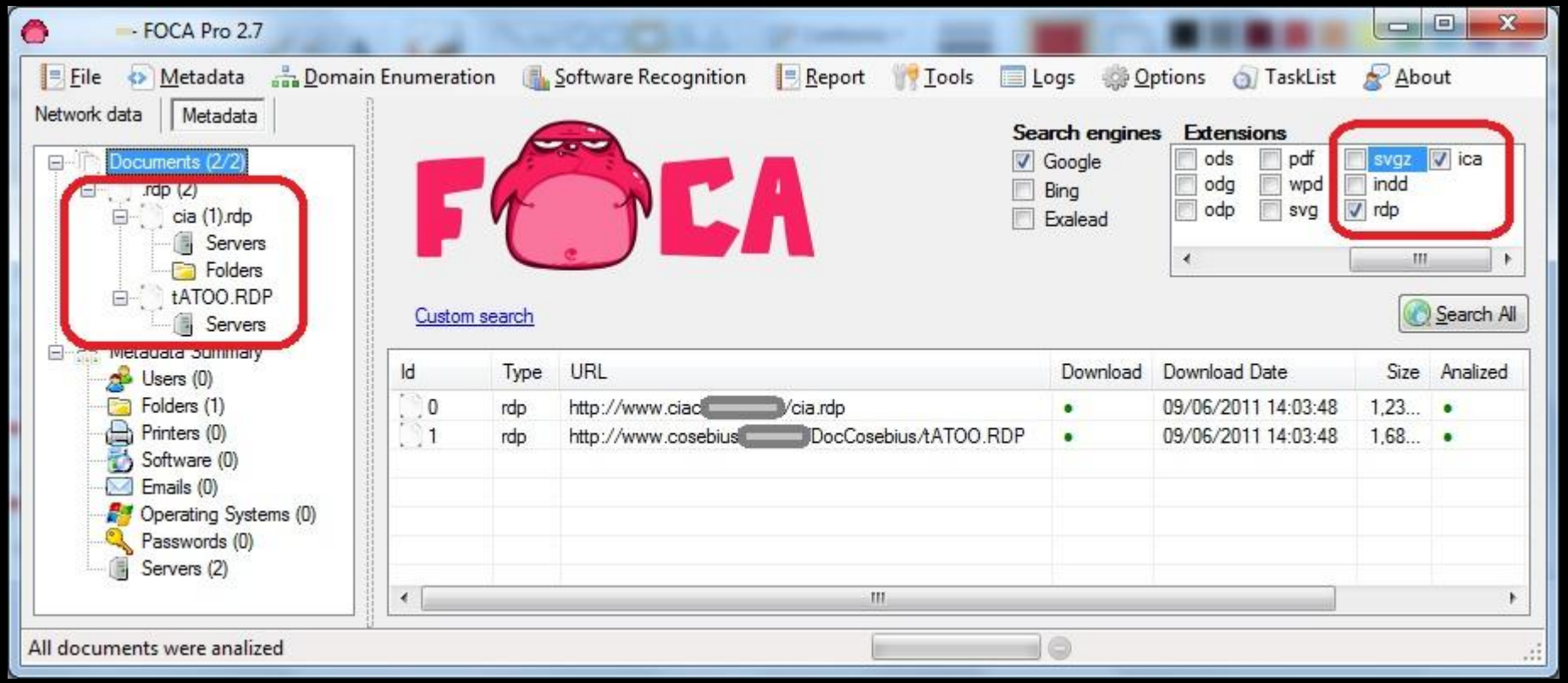

bing Beta
filetype:txt remoteapplicationmode
Web
Web
Más
BÚSQUEDAS RELACIONADAS
TODOS LOS RESULTADOS
1-10 de 1.200 resultados
access.powertech.com.au
remoteapplicationmode:i:1. server port:i:3389. authentication level:i:0. allo
smoothing:i:0. promptcredentialonce:i:1. gatewayusagemethod:i:2.
gatewayprofileusagemethod:i:1
https://access.powertech.com.au/rdp/Logoff.rdp

Secure?

Verbosity

- Conf-files are too verbosity
  - Internal IP Address
  - Users & encrypted passwords
  - Internal Software
  - Perfect for APTs
    - 0-day exploits
    - Evilgrade attacks

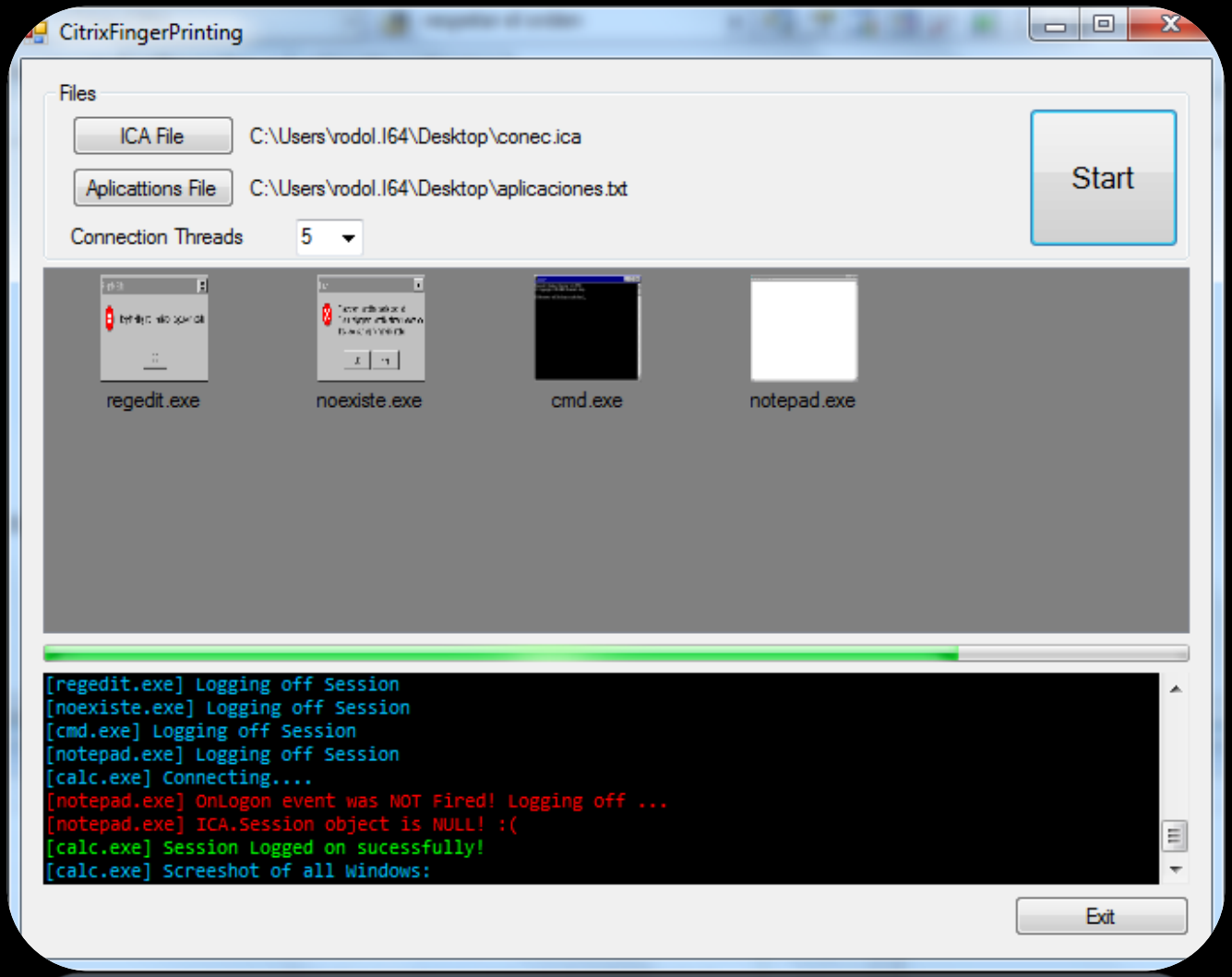
Verbosity


- FOCA Pro 2.7
File
Metadata
Domain Enumeration
Software Recognition
Report
Tools
Logs
Options
TaskList
About
Network data
Metadata
Documents (2/2)
.rdp (2)
cia (1).rdp
Servers
Folders
tATOO.RDP
Servers
Metadata Summary
Users (0)
Folders (1)
Printers (0)
Software (0)
Emails (0)
Operating Systems (0)
Passwords (0)
Servers (2)
FOCA
Search engines
Google
Bing
Exalead
Extensions
ods
pdf
svgz
ica
odg
wpd
indd
odp
svg
rdp
Custom search
Search All
Id
Type
URL
Download
Download Date
Size
Analized
0
rdp
http://www.ciac[redacted]/cia.rdp
09/06/2011 14:03:48
1,23...
1
rdp
http://www.cosebius[redacted]DocCosebius/tATOO.RDP
09/06/2011 14:03:48
1,68...
All documents were analized

Verbosity

- Attacker can:
  - modify conf files
  - Generate error messages
  - Fingerprinting all software
    - Example: C.A.C.A.

Computer Assited Citrix Apps



Hash Stealing

- Modify the Conf file
- Run a remote app in a rogue Server
- Sniff the hash

Playing the Piano

Playing the Piano

- Too many links
  - Specially running on Windows 2008
- Too many environment variables
  - %SystemRoot%
  - %ProgramFiles%
  - %SystemDrive%

Playing the Piano

- Too many shortcuts
  - Ctrl + h – Web History
  - Ctrl + n – New Web Browser
  - Shift + Left Click – New Web Browser
  - Ctrl + o – Internet Addres
  - Ctrl + p – Print
  - Right Click (Shift + F10)
  - Save Image As
  - View Source
  - F1 – Jump to URL...

Playing the Piano

- Too , Too , Too many shorcuts:
  - ALT GR+SUPR = CTRL + ALT + SUP
  - CTRL + F1 = CTRL + ALT + SUP
  - CTRL + F3 = TASK MANAGER
- Sticky Keys

Easy?

Paths?

Minimum Exposure Paths

- There are as many paths as published apps
- Every app is a path that could drive to elevate privileges
- Complex tools are better candidates
- Excel is a complex tool

Excel as a Path

- Office Apps are complex
- Too many security policies
  - Necesary to donwload extra GPOS
- Too many systems by default
  - No Security GPOs
  - Allowing non-signed Macros
  - Allowing third-part-signed macros
  - Allowing CA to be added

Excel 1

Software Restriction Policies

- Forbidden apps
  - Via hash
  - Via path
- App Locker
  - Using Digital Certificates
- ACLs

Software Restriction Policies

- Too many consoles
  - Cmd.exe
  - Windows Management Instrumentation
  - PowerShell
- Even consoles from other OS
  - ReactOS

Excel 2

Risky?

Start the III World War

- Find a bug in a DHS Computer
- Getting to the OS
- Sing an excel file with a rogue CA
- Generate an attacking URL in the CRL to attack... China
- Send a digital signed-excel file...

Just
Riding

Contact information

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