Search Engines [GHDB] & Metadata Tools

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GitHub : https://github.com/0xDos

Search Engines (1/2)

- Google Hacking Data Base [GHDB]
- The common operators (*AND*, *OR*, *+*, *-*, *“”*)

- [*link:www.website.com*]
- [*site:www.website.com*]
- [*intext:www.website.com*]
- [*cache:www.website.com*]
- [*filetype:pdf*] -filetype:html
- **intitle:“index of” “parent directory”**

Footprinting using Advanced Google Hacking Techniques

- **cache:**
  Displays Google's cached version
- **link:** هايجبلي أي لينك موجود فيه الدومين ال عاوزه
  Show a list of web pages that have links to your target
- **related:**
  Similar web pages
- **info:**
  View information Google has on the target
- **site:** هايجبلي Subdomains الخاصة ب Target
  Limits results to just the domain listed
- **allintitle:**
  Limits results to those websites with ALL the search words in the title
- **intitle:**
  Limits results to documents that contain the search word in the title
- **allinurl:**
  Limits results to only those webpages with ALL search words in the URL
- **inurl:**
  Limits results to documents that contain the search word in the URL

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يمكن تقسيم وظائف **Google Dorks** إلى قسمين: أساسي ومتقدم.

بعض وظائف Google Dorks الأساسية:

هي عبارة عن أوامر مقدمة من طرف غوغل لتعميق عملية البحث وجعلها أكثر فعالية.

أمثلة:

- **Site:** يستخدم هذا الاستعلام للبحث في موقع محدد، مثلا لو كتبت في مربع البحث عبارة site:pcfacile1.com سوف يعرض لك جميع نتائج التي تخص مدونة حاسب سهل فقط.

- **Link:** يستخدم هذا الاستعلام للكشف عن جميع الصفحات التي تحتوي على رابط الموقع، مثلا link:pcfacile1.com هنا سوف يعرض جميع الصفحات التي تحتوي على رابط مدونة حاسب سهل.

- **Info:** يعرض هذا الاستعلام المواقع التي تقدم معلومات عن الموقع الذي تبحث عنه، مثلا لو أردت معلومات عن موقع ياهو أكتب info:yahoo.com.

- **Define:** هذا الاستعلام لعرض تعريف المصطلحات، مثلا Define:hackers لعرض تعريف الهكرز.

- **Filetype:** هذا الاستعلام للبحث عن ملفات محددة بامتداد معين (pdf – xls – ppt – doc...)، مثلا filetype:nature.ppt هنا سوف يعرض جميع الملفات التي تتكلم عن الطبيعة داخل ملفات بوربونت.

- **Intitle:** هذا الاستعلام يقوم بالبحث في وسوم عناوين الصفحات، مثلا intitle:security يعرض جميع الصفحات التي تحمل في عناوينها كلمة security.

- **Inurl:** هذا الاستعلام يقوم بالبحث في روابط المواقع، مثلا inurl:admin سوف يعرض جميع الروابط التي تحتوي على كلمة admin.

- **And (+):** هذا الاستعلام للبحث عن كلمات مختلفة، مثلا nature+world+earth أو nature And world And earth سوف يعرض الصفحات التي تحتوي على 3 كلمات المفتاحية المذكورة (بدل كتابة جملة طويلة، استخدم هذا الاستعلام وأكتب كلمات مفتاحية فقط).

- **OR (|):** يخبر هذا الاستعلام غوغل بعرض على نتائج أحد الكلمات التي قد يعثر عليها.

- **NOT:** هذا الاستعلام لاستبعاد كلمة من الظهور في نتائج البحث.

بعض وظائف Google Dorks المتقدمة:

هي دمج أوامر أو الاستعلامات الأساسية المقدمة من غوغل للوصول إلى صفحات حساسة أو روابط تقود إلى صفحة الأدمن أو الكشف عن الثغرات.

أمثلة:

- مثلا للبحث عن الكاميرات النشطة على الإنترنت أكتب في شريط البحث: inurl:view/view.shtml أو inurl:ViewerFrame?Mode= أو inurl:/view.shtml أو "inurl:8080 Active Webcam Page" وهناك العديد غيرها.

- مثلا هذا الاستعلام يقود إلى صفحات تسجيل الدخول بالنسبة للأدمن: intext:"Please Authenticate" intitle:Peakflow

- هذا الاستعلام للإطلاع على الحسابات وكلمات السر المخترقة بالنسبة لحسابات فايسبوك وحسابات البريد الإلكتروني عن طريق الصفحات المزورة:

> *inurl:"passes" OR inurl:"pass" OR inurl:"passwords" OR inurl:"credentials" -search -download -techsupt -git -games -gz -bypass -exe filetype:txt @yahoo.com OR @gmail OR @hotmail OR @rediff*

هناك مواقع متخصصة في عرض آخر أوامر **Google Dorks** يمكنك الاطلاع عليها من أحد المواقع التالية:

- exploit-db

- hackersforcharity

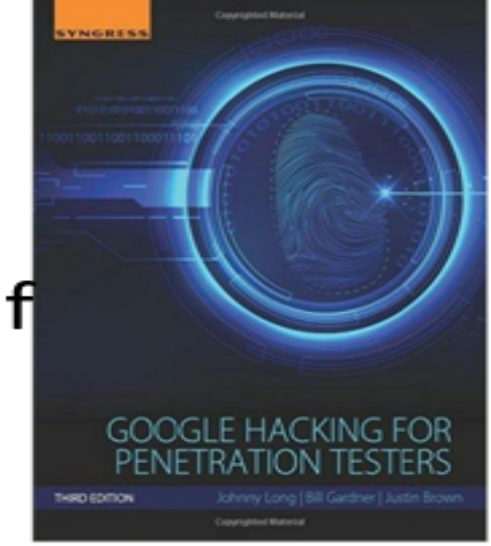
Examples:

site:learningnetwork.cisco.com intext:yasser pdf

site:* inurl:etc -intext:etc ext:passwd

intitle:webcam 7 inurl:8080 -intext:8080 intitle:"live

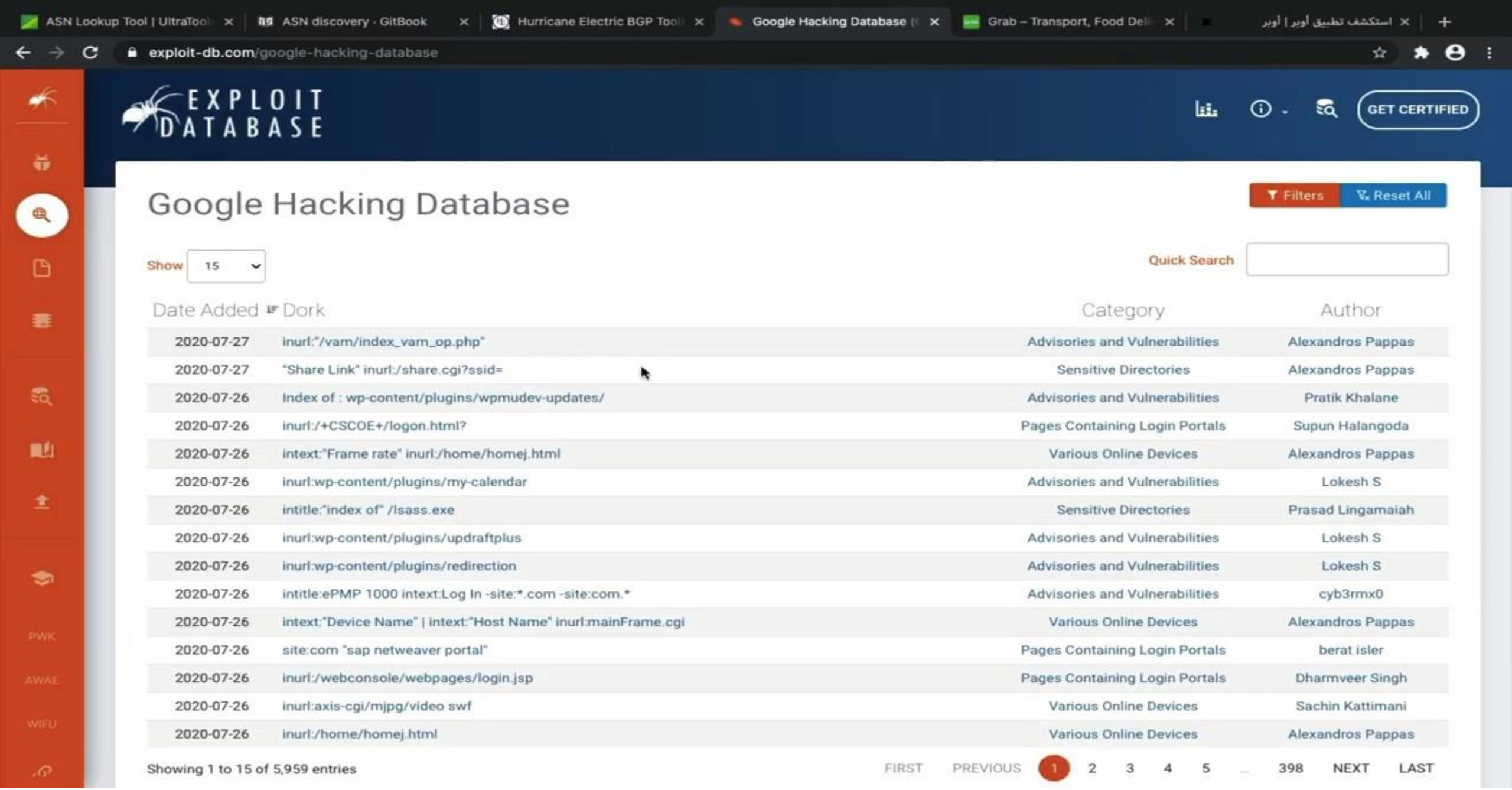
view / -axis“



Intext:

هاخد التوقيع ال بيكون في نهاية صفحه site واسيرش بيه مع intext علشان دا فايدته :
هايجبلي المواقع التابعه للهدف والمتاح ليها استخدام نفس التوقيع دا

https://www.exploit-db.com/google-hacking-database/ https://www.offensive-security.com/community-projects/google-hacking-database/
https://www.google.com/advanced_search
http://www.googleguide.com/phonebook.html



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Google

Advanced Search

Find pages with...		To do this in the search box.
all these words:		Type the important words: `tri-colour rat terrier`
this exact word or phrase:		Put exact words in quotes: `"rat terrier"`
any of these words:		Type `OR` between all the words you want: `miniature OR standard`
none of these words:		Put a minus sign just before words that you don't want: `-rodent, -"Jack Russell"`
numbers ranging from:	to	Put two full stops between the numbers and add a unit of measurement: `10..35 kg, £300..£500, 2010..2011`

Then narrow your results by...

language:	any language	Find pages in the language that you select.
region:	any region	Find pages published in a particular region.
last update:	anytime	Find pages updated within the time that you specify.
site or domain:		Search one site (like `wikipedia.org`) or limit your results to a domain like `.edu`, `.org` or `.gov`
terms appearing:	anywhere in the page	Search for terms in the whole page, page title or web address, or links to the page you're looking for.
SafeSearch:	Show explicit results	Tell SafeSearch whether to filter sexually explicit content.
file type:	any format	Find pages in the format that you prefer.
usage rights:	not filtered by licence	Find pages that you are free to use yourself.

Advanced Search

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Meta Data Extraction tools

- FOCA

FOCA (Fingerprinting Organizations with Collected Archives) is a tool used mainly to find metadata and hidden information in the documents its scans

Using FOCA, it is possible to undertake multiple attacks and analysis techniques such as **metadata extraction**, **network analysis**, DNS snooping, proxies search, **fingerprinting**, open directories search, etc.

Metagoofil

ExifTool

Document Metadata

- Most document formats include a significant amount of metadata (that is, data about data)
  - This metadata is often associated with how the document is formatted for display
  - But, some of the metadata goes further, providing highly useful tidbits for the penetration tester to gather in the reconnaissance phase
- Information sometimes included in metadata:
  - Usernames
  - File system paths
  - E-mail addresses
  - Client-side software in use (Office suite, PDF-generating tool, operating system type, and such)
  - Other information not displayed on the screen from within the application associated with the document ("undo" data, previous revisions, hidden or obscured fields, and more)

Document Types That Are Rich in Metadata

- Most types of documents have some metadata in them, but the following types are often especially interesting:
  - pdf
  - doc, dot, and docx
  - xls, xlt, and xlsx
  - ppt, pot, and pptx
  - jpg and jpeg
  - html and htm (for example, comments and hidden form elements)
  - Numerous others
- This isn't an exhaustive list, but it is a good start

FOCA (Fingerprinting Organizations with Collected Archives)

FOCA is a tool used mainly to find metadata and hidden information in the documents it scans. These documents may be on web pages, and can be downloaded and analysed with FOCA.

It is capable of analysing a wide variety of documents, with the most common being **Microsoft Office**, **Open Office**, or **PDF** files, although it also analyses Adobe InDesign or SVG files, for instance.

These documents are searched for using three possible search engines: **Google**, **Bing**, and **DuckDuckGo**. The sum of the results from the three engines amounts to a lot of documents. It is also possible to add local files to extract the EXIF information from graphic files, and a complete analysis of the information discovered through the URL is conducted even before downloading the file.

🎉 Releases

Check here our latest releases.

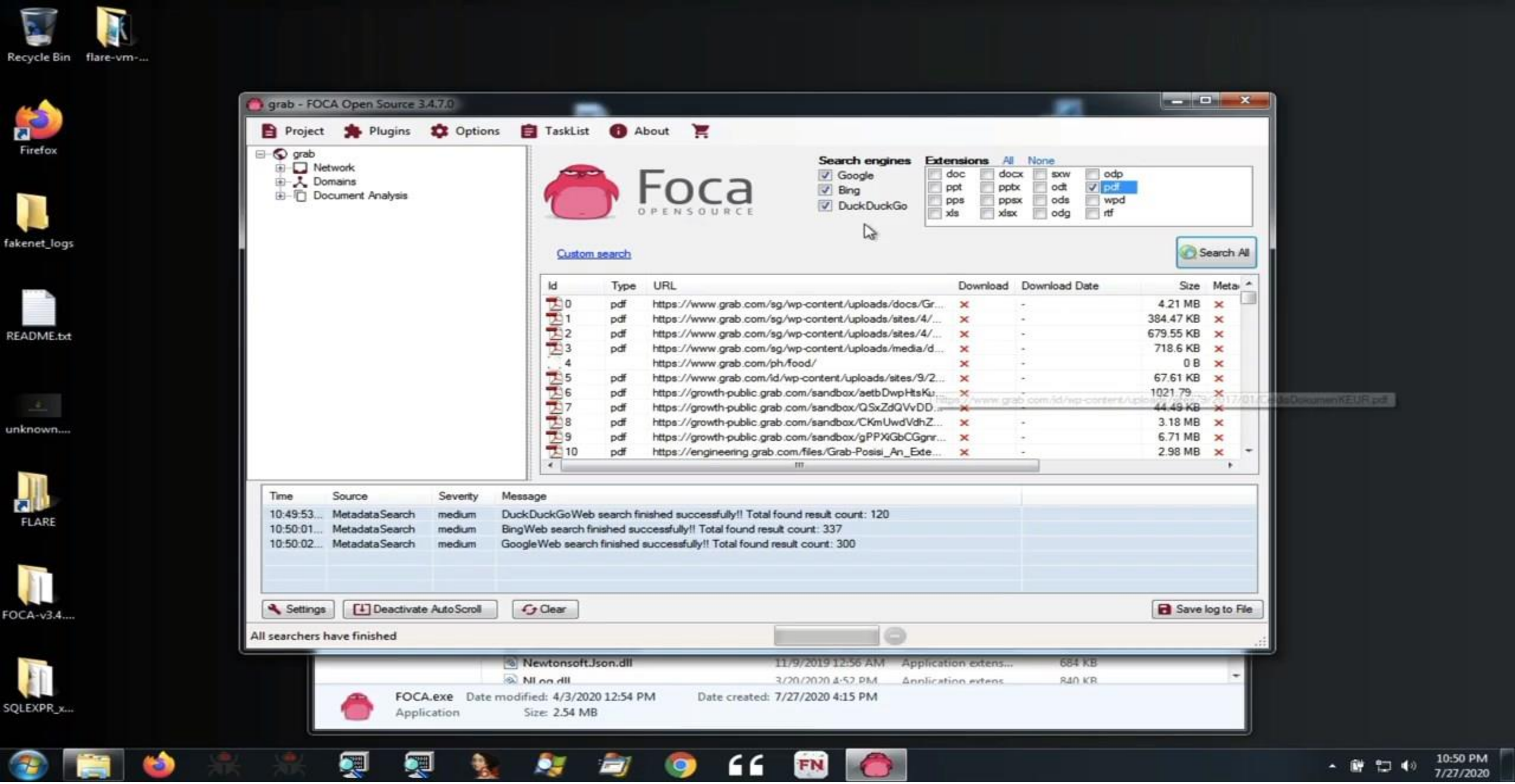
✓ Requisites

To run the solution locally the system will need:

- **Microsoft Windows** (64 bits). Versions 7, 8, 8.1 and 10.
- **Microsoft .NET Framework 4.7.1**.
- Microsoft **Visual C++ 2010 x64** or greater.
- An instance of **SQL Server** 2014 or greater.

📝Notes

- When starting the app the system will check if there is a **SQL Server** instance available. If none is found, the system will prompt a window for introducing a connection string.



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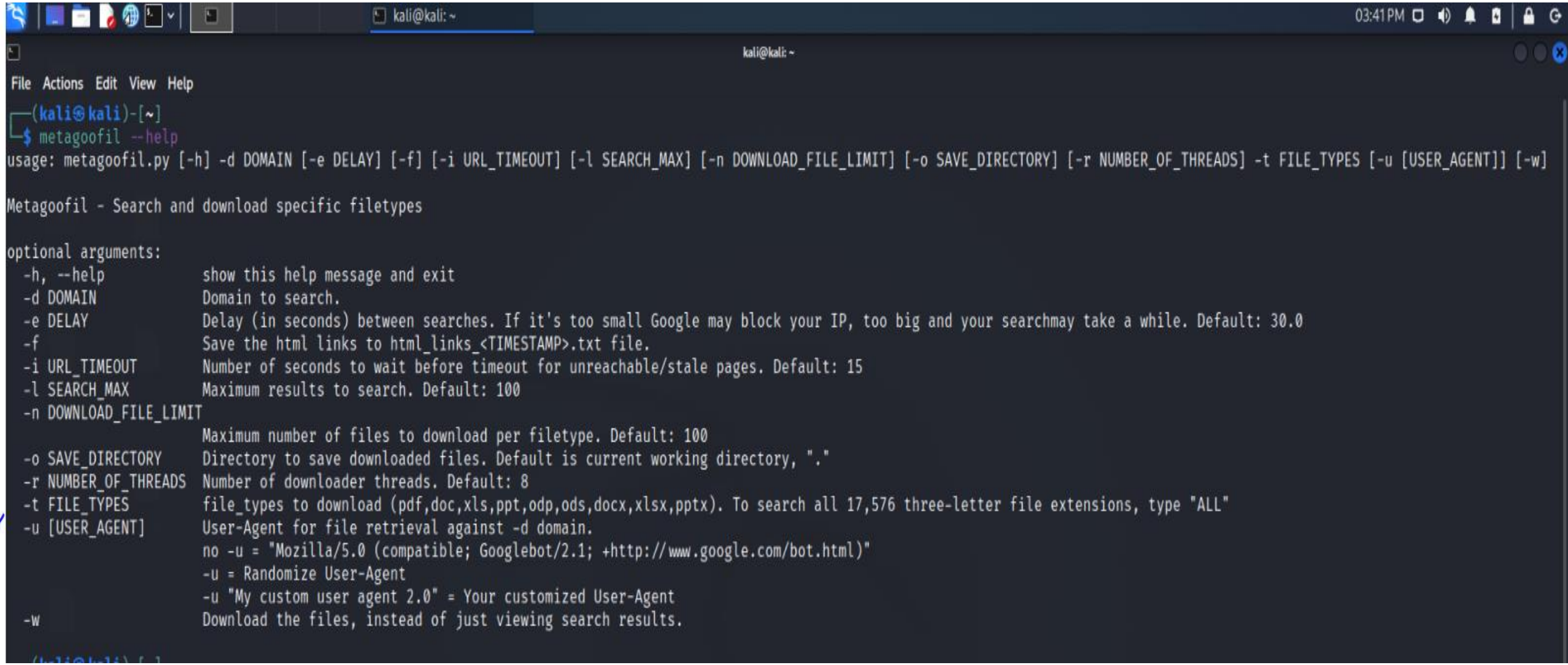

EX:$ Metagoofil -d apple.com -t doc,pdf -l 200 -n 20 -o applefiles -f results.html

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- ExifTool: Reads, writes, and changes metadata
  - Freely distributed, written by Phil Harvey
    - http://www.sno.phy.queensu.ca/~phil/exiftool/
  - Runs on Windows, Linux, and Mac OS X
  - Supports more than 100 file types and many metadata formats
    - Original focus was on image and audio files
    - Many different image types, pulling out camera type, editing tools, and geotags if they are present
    - Now it has been expanded to include many file types, including various document file types (doc, docx, xls, xlsx, ppt, pptx, pdf, and so on)
    - Parses out specific fields, and is handy for determining usernames and software versions used to create or edit files
    - Processes entire directories, with recursion supported

File Actions Edit View Help

```
EXIFTOOL(1p)                    User Contributed Perl Documentation                    EXIFTOOL(1p)

NAME
       exiftool - Read and write meta information in files

SYNOPSIS
   Reading
       exiftool [OPTIONS] [-TAG ... ] [--TAG ... ] FILE ...

   Writing
       exiftool [OPTIONS] -TAG[+-<]=[VALUE] ... FILE ...

   Copying
       exiftool [OPTIONS] -tagsFromFile SRCFILE [-[DSTTAG<]SRCTAG ... ] FILE ...

   Other
       exiftool [ -ver | -list[w|f|r|wf|g[NUM]|d|x] ]

       For specific examples, see the EXAMPLES sections below.

       This documentation is displayed if exiftool is run without an input FILE when one is expected.

DESCRIPTION
       A command-line interface to Image::ExifTool, used for reading and writing meta information in a variety of file types.  FILE is one or more source file names, directory names, or
       "-" for the standard input.  Metadata is read from source files and printed in readable form to the console (or written to output text files with -w).

       To write or delete metadata, tag values are assigned using -TAG=[VALUE], and/or the -geotag, -csv= or -json= options.  To copy or move metadata, the -tagsFromFile feature is
       used.  By default the original files are preserved with "_original" appended to their names -- be sure to verify that the new files are OK before erasing the originals.  Once in
       write mode, exiftool will ignore any read-specific options.

       Note:  If FILE is a directory name then only supported file types in the directory are processed (in write mode only writable types are processed).  However, files may be
       specified by name, or the -ext option may be used to force processing of files with any extension.  Hidden files in the directory are also processed.  Adding the -r option causes
       subdirectories to be processed recursively, but subdirectories with names beginning with "." are skipped unless -r. is used.

       Below is a list of file types and meta information formats currently supported by ExifTool (r = read, w = write, c = create):

         File Types
         ------------+-------------+-------------+-------------+------------
         360    r/w  | DR4    r/w/c| JNG    r/w  | O      r    | RAW    r/w
         3FR    r    | DSS    r    | JP2    r/w  | ODP    r    | RIFF   r
         3G2    r/w  | DV     r    | JPEG   r/w  | ODS    r    | RSRC   r
         3GP    r/w  | DVB    r/w  | JSON   r    | ODT    r    | RTF    r
         A      r    | DVR-MS r    | JXL    r    | OFR    r    | RW2    r/w
         AA     r    | DYLIB  r    | K25    r    | OGG    r    | RWL    r/w
         AAE    r    | EIP    r    | KDC    r    | OGV    r    | RWZ    r
         AAX    r/w  | EPS    r/w  | KEY    r    | ONP    r    | RM     r
         ACR    r    | EPUB   r    | LA     r    | OPUS   r    | SEQ    r
         AFM    r    | ERF    r/w  | LFP    r    | ORF    r/w  | SKETCH r
 Manual page exiftool(1p) line 1 (press h for help or q to quit)
```