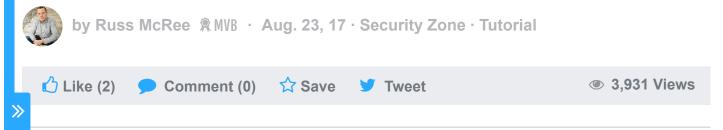
# **OSINT With Datasploit**

With all this talk of shifting security left, it's important for developers to know that different tools available for security testing. Today, we check out Datasploit.



I was reading an interesting Motherboard article, Legal Hacking Tools Can Be Useful for Journalists, Too, that includes a reference to one of my all-time OSINT favorites, Maltego. Joseph Cox's article also mentions Datasploit, a 2016 favorite for fellow tools aficionado, Toolswatch.org, see 2016 Top Security Tools as Voted by ToolsWatch.org Readers. Having not yet explored Datasploit myself, this proved to be a grand case of "no time like the present."

Datasploit is "an #OSINT Framework to perform various recon techniques, aggregate all the raw data, and give data in multiple formats." More specifically, as stated on

Create PDF in your applications with the Pdfcrowd HTML to PDF API

Source Intelligence (OSINT) tools and techniques found to be effective and brings them together to correlate the raw data captured, providing the user relevant information about domains, email address, phone numbers, personal data, etc. Datasploit is useful to collect relevant information about a target in order to expand your attack and defense surface very quickly.

#### The feature list includes:

- Automated OSINT on domain/email/username/phone for relevant information from different sources.
- Useful for penetration testers, cyber investigators, defensive security professionals, etc.
- Correlates and collaborate results, shows them in a consolidated manner.
- Tries to find out credentials, API keys, tokens, subdomains, domain history, legacy portals, and more as related to the target.
- Available as a single consolidating tool as well as standalone scripts.
- Performs Active Scans on collected data.
- Generates HTML and JSON reports along with text files.

#### **Resources**

GitHub: https://github.com/datasploit/datasploit

Documentation: http://datasploit.readthedocs.io/en/latest/

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You lube: Quick guide to installation and use

#### **Pointers**

Second, a few pointers to keep you from losing your mind. This project is very much a work in progress, with lots of very frustrated users filing bugs and wondering where the support is. The team is doing their best, be patient with them, but read through the GitHub issues to be sure any bugs you run into haven't already been addressed.

- 1) Datasploit does *not* error gracefully, it just crashes. This can be the result of unmet dependencies or even a missing API key. Do not despair, take note, I'll talk you through it.
- 2) I suggest, for ease, and best match to documentation, run Datasploit from an Ubuntu variant. Your best bet is to grab Kali, VM, or dedicated and load it up there, as I did.
- 3) My installation guidance and recommendations should hopefully get you running trouble free, follow it explicitly.
- 4) Acquire as many API keys as possible, see further detail below.

## **Installation and Preparation**

From Kali bash prompt, in this order:

- 1. git clone https://github.com/datasploit/datasploit/etc/datasploit
- 2. apt-get install libxml2-dev libxslt-dev python-dev lib32z1-dev zlib1g-dev

- 3. cd /etc/datasploit
- 4. pip install -r requirements.txt
- 5. mv config\_sample.py config.py
- 6. With your preferred editor, open config.py and add API keys for the following, at a minimum. They are for all intents and purposes required, and detailed instructions to acquire each is here:
  - 1. Shodan API
  - 2. Censysio ID and Secret
  - 3. Clearbit API
  - 4. Emailhunter API
  - 5. Fullcontact API
  - 6. Google Custom Search Engine API key and CX ID
  - 7. Zoomeye Username and Password

If, and only if, you've done all of this correctly, you might end up with a running instance of Datasploit. Seriously, this is some of the glitchiest software I've tussled with in quite a while, but the results paid handsomely. Run python datasploit.py domain.com, where domain.com is your target. Obviously, I ran python datasploit.py holisticinfosec.org to acquire results pertinent to your author.

Datasploit rapidly pulled results as follows:

211 domain references from Github:

```
Found 211 results on pithob.

Top 30 results shown below

IF 121 results on pithob.

Top 30 results shown below

IF 121 results on pithob.

Top 30 results shown below

IF 121 results on pithob.

File intress//githob.com/call/Multego-pyCSV/blob/064acc3851b44cc543392cla4491ea464239de86/README.ad

Owner: call/Multego-pyCSV

Repository: Retps://githob.com/callcticinfosec/toolsmith R/blob/42ad834a191bc86b81719ac7b59ce76d3bbfbbe/MEDPuned.Rad

Owner: hollsticinfosec/toolsmith pithos.

If 121 retps://githob.com/callcticinfosec/toolsmith pithos.

If 121 retps://githob.com/callcticinfosec/toolsmith pithos.

If 122 retps://githob.com/callcticinfosec/toolsmith pithos.

If 123 retps://githob.com/callcticinfosec/toolsmith pithos.

If 123 retps://githob.com/callcticinfosec/toolsmith pithos.

If 124 retps://githob.com/callcticinfosec/toolsmith pithos.

Repository: https://githob.com/callcticinfosec/toolsmith.

If 124 retps://githob.com/callcticinfosec/toolsmith.

If 125 retps://githob.com/recureb-data/en_categorias

Repository: https://githob.com/recureb-data/en_categorias

Rep
```

GitHub results

Luckily, no results from Shodan.

Four results from Paste(s):

```
---> Finding Paste(s)...
https://www.googleapis.com/customsearch/v1?key-AIzaSyC241r0sIA4c9ERj8iF3oUyFZiW3npMinG4cx=01358489079658784439
sec.org &start=1
[+] 4 results found
Title: SPA: Single Packet Authorization - The Ghost in the Machine [PDF ...
URL: https://www.reddit.com/r/netsec/comments/am72m/spa single packet authorization the ghost in the/
Snippet: Jan 6, 2010 ... SPA: Single Packet Authorization - The Ghost in the Machine [PDF] (
holisticinfosec.org). submitted 7 years ago by sanitybit • 1 comment; share.
Title: El Jefe: The Boss Will See You Now [PDF] : netsec
URL: https://www.reddit.com/r/netsec/comments/fdxqa/el_jefe_the_boss_will_see_you_now_pdf/
Snippet: Feb 2, 2011 ... El Jefe: The Boss Will See You Now [PDF] (holisticinfosec.org). submitted 6 years
ago by dguido · comment; share; report. no connents (yet).
Title: message to the world I AM PHIK3 the egypt gov is spying on us i ...
URL: https://postebim.com/906K7WAJ
Snippet: Oct 13, 2015 ... russ@holisticinfosec.org. linux@linux.cz. sales@woodlandnanufacturing.com,
 oaa nader@hotmail.com. asharaf@ntra.gov.eg.
Title: A drug is introduced which permanently makes you 50% happier but ...
URL: https://postebin.com/z346wwRY
Snippet: Sep 30, 2012 ... scarybeasts/status/32941540531765248. permalinkcontextfull comments. 7. El
Jefe: The Boss Will See You Now [PDF] (holisticinfosec.org).
```

Pastebin and Pastie results

Datasploit pulled russ at holisticinfosec dot org as expected, per email harvesting.

### Accurate HolisticInfoSec host location data from Zoomeye:

```
Projection: (a'city': (a'geomene 5d': 5700026, a'nomene': (a'rh-CN': a'va666+va82e5va8456', a'en': a'Provo')), a'country': (a'geomene 5d': 6255049, a'code': a'united 55505'), a'en': a'united 55505'), a'country': (a'geomene 5d': 62506'), a'country': (a'geomene 5d': 62506
```

Details regarding HolisticInfoSec sub-domains and page links:

```
---> Finding subdomains, will be back soon with list.
List of subdomains found
holisticinfesec.org
www.holisticinfosec.org
---> Finding Pagelinks:
  Visible links
https://holisticinfosec.org/
https://holisticinfosec.org/df/menu
https://holisticinfosec.org/df/simplicity
https://holisticinfosec.org/df/toplsmith
https://holisticinfosec.org/
https://holisticinfosec.org/images/logo.png
http://holisticinfosec.blogspot.com/search?q=teolsmith&max-results=20&by-date=true
http://holisticinfosec.blogspot.com/search?q=toolsmith&max-results=20&by-date=true
https://holisticinfosec.org/df/toolsmith
http://holisticinfosec.blogspot.com/search7q=toolsmith&max-results=20&by-date=true
http://pico.dev7studios.com/
http://github.com/zohma/plumbing/
https://twitter.com/holisticinfosec
  Hidden links:
https://holisticinfosec.org/advisories/hio-2009-0305-e107-multiple-e107-dnin-csrf-a-xss-vulnerabilities
https://holisticinfosec.org/advisories/hio-2010-0223-web-wiz-forums-csrf-vulnerabilities
https://holisticinfosec.org/bestpractices
https://holisticinfosec.org/events
https://holisticinfosec.org/inthenews
```

```
https://holisticinfosec.org/presentations
https://holisticinfosec.org/publications
https://holisticinfosec.org/templates
https://holisticinfosec.org/vulns
```

Sub-domains and page links

Finally, a good return on DNS records for holisticinfosec.org and, thankfully, no vulnerabilities found via PunkSpider.

Datasploit can also be integrated into other code and called as individual scripts for unique functions. I did a quick run with python emailOsint.py russ@holisticinfosec.org and the results were impressive:

```
root@kali: /etc/datasploit
File Edit View Search Terminal Help
    wali:/etc/datasploit# python emailOsint.py russ@holisticinfosec.org
 --> Checking breach status in HIBP (@troyhunt)
Title: GeekedIn
BreachDate: 2016-08-15
PwnCount: 1073164
Description: In August 2016, the technology recruitment site <a href="http://geekedin.net"
a HongoDB database exposed and over 8M records were extracted by an unknown third party.
Hub in violation of their terms of use and contained information exposed in public profile
ses. Full details on the incident (including how impacted members can see their leaked da
://www.troyhunt.com/8-million-github-profiles-were-leaked-from-geekedins-mongodb-heres-how
illion GitHub profiles were leaked from GeekedIn's MongoDB - here's how to see yours</a>.
DataClasses: Email addresses, Geographic locations, Names, Professional skills, Usernames
Title: NetProspex
BreachDate: 2016-09-01
PwnCount: 33698126
Description: In 2016, a list of over 33 million individuals in corporate America sourced
"https://www.troyhunt.com/weve-lost-control-of-our-personal-data-including-33m-netprosper
ed online</a>. D&B believe the targeted marketing data was lost by a customer who purchase
nd corporate information including names, email addresses, job titles and general informat
  taClasses: Email addresses, Employers, Job titles, Names, Phone numbers, Physical addres
Title: Patreon
BreachDate: 2015-10-01
PwnCount: 2330382
```

Email OSINT

I love that the first query is of Troy Hunt's Have I Been Pwned. Not sure if you have

been? Better check it out. A reminder here, you'll really want to be sure to have as many API keys as possible or you may find these buggy scripts crashing. You'll definitely find yourself compromising between frustration and the rapid, detailed results. I put this offering squarely in the "shows much promise category" if the devs keep focused on it, assesses for quality, and handles errors better.

Give Datasploit a try for sure.

Cheers, until next time.

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