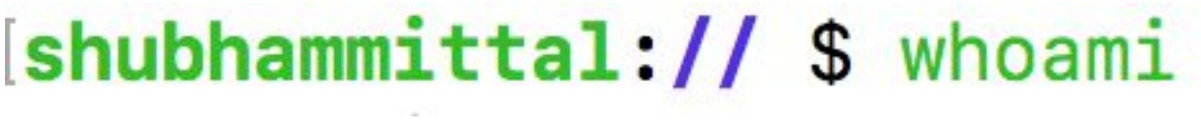
DataSploit

Open Source Assistant for #OSINT

https://github.com/datasploit/datasploit

http://datasploit.info | @datasploit



```
[shubhammittal:// $ whoami
```

- Just another Pen-tester.
- Security Consultant @ NotSoSecure
- 5+ Years of Experience

- Twitter - @upgoingstar
- Email - upgoingstaar@gmail.com

What’s DataSploit?

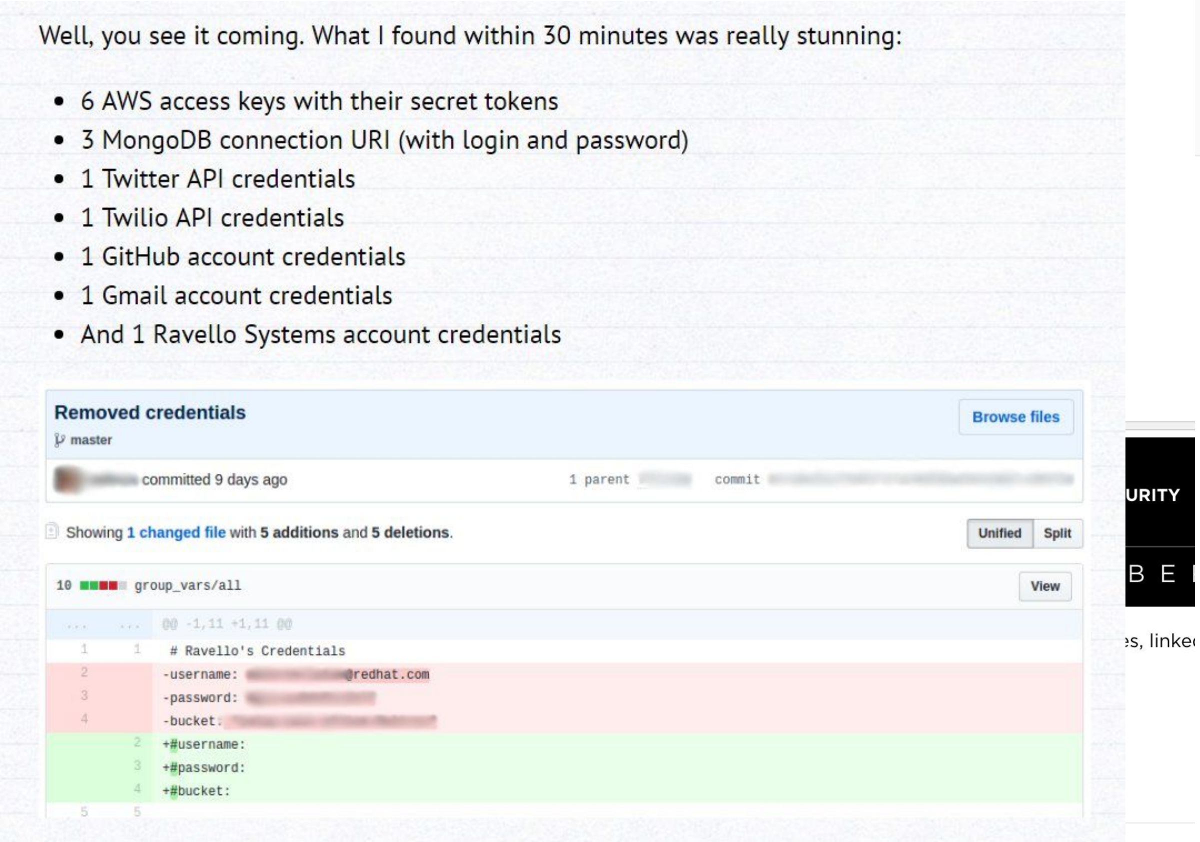
- Automated OSINT Tool for Domain / Email / Username / IP Addresses
- Fetches information from multiple HIDDEN sources.
- Works in passive mode.
- Written in Python.
- Multiple report formats available.

- Customized for Pen-testers / Product Security Guys / Cyber Investigators.

Why DataSploit?

- So much data.
  - Server’s Username / Passwords
  - Address
  - Email Id
  - Phone Number
  - Credentials
  - Interests
  - Friends
  - Preferences
  - Legacy Machines
  - Unnecessary Ports Information
  - Technologies in use, and blah blah..

Lets talk real time? History?



Well, you see it coming. What I found within 30 minutes was really stunning:

- 6 AWS access keys with their secret tokens
- 3 MongoDB connection URI (with login and password)
- 1 Twitter API credentials
- 1 Twilio API credentials
- 1 GitHub account credentials
- 1 Gmail account credentials
- And 1 Ravello Systems account credentials

Removed credentials

[redacted] committed 9 days ago   1 parent [redacted]   commit [redacted]

Showing 1 changed file with 5 additions and 5 deletions.

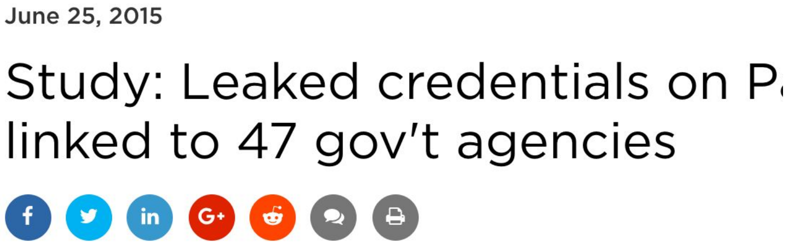
10 group_vars/all

```
@@ -1,11 +1,11 @@
 # Ravello's Credentials
-username: [redacted]@redhat.com
-password: [redacted]
-bucket: [redacted]
+#username:
+#password:
+#bucket:
```

URITY

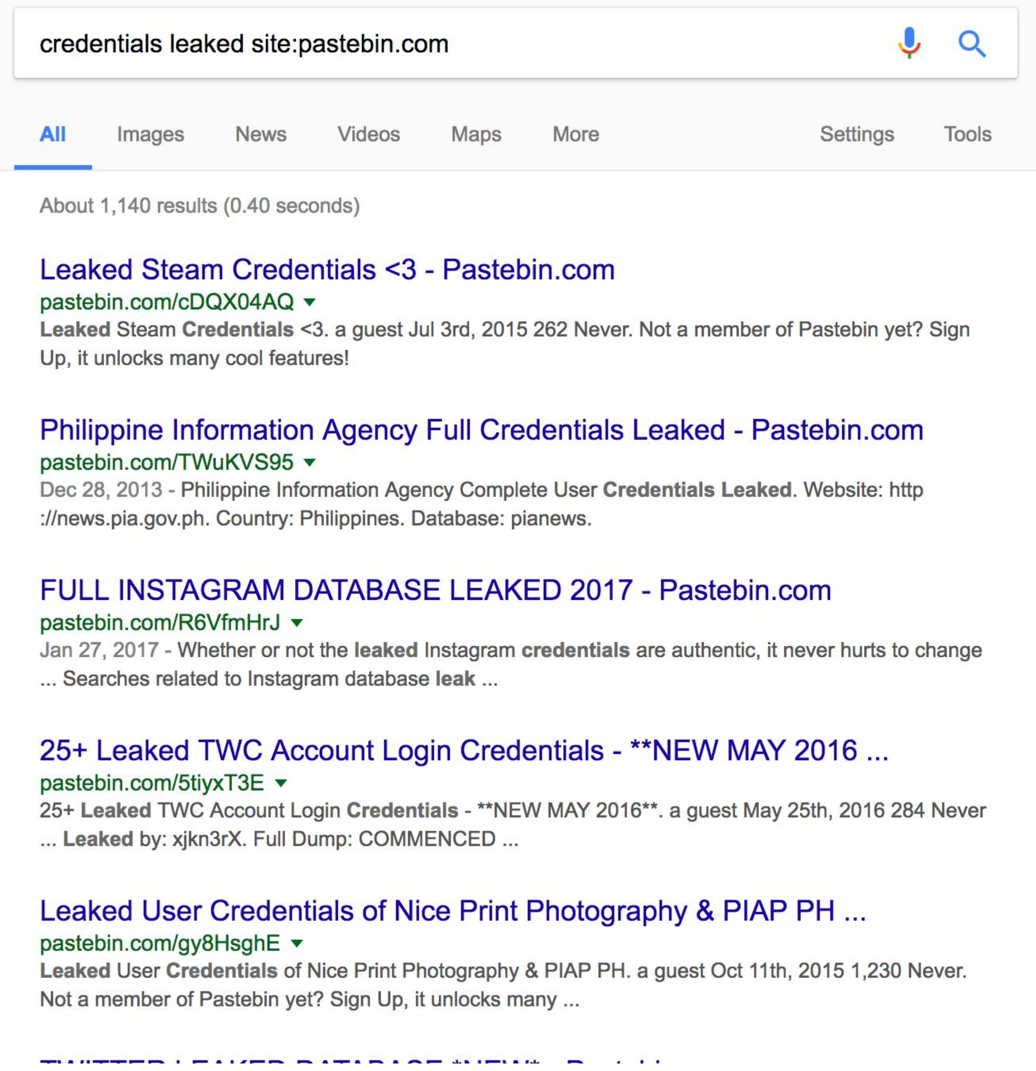
B E

es, linked



June 25, 2015

Study: Leaked credentials on P
linked to 47 gov't agencies



credentials leaked site:pastebin.com

About 1,140 results (0.40 seconds)

Leaked Steam Credentials <3 - Pastebin.com
pastebin.com/cDQX04AQ ▾
Leaked Steam **Credentials** <3. a guest Jul 3rd, 2015 262 Never. Not a member of Pastebin yet? Sign Up, it unlocks many cool features!

Philippine Information Agency Full Credentials Leaked - Pastebin.com
pastebin.com/TWuKVS95 ▾
Dec 28, 2013 - Philippine Information Agency Complete User **Credentials Leaked**. Website: http ://news.pia.gov.ph. Country: Philippines. Database: pianews.

FULL INSTAGRAM DATABASE LEAKED 2017 - Pastebin.com
pastebin.com/R6VfmHrJ ▾
Jan 27, 2017 - Whether or not the **leaked** Instagram **credentials** are authentic, it never hurts to change ... Searches related to Instagram database **leak** ...

25+ Leaked TWC Account Login Credentials - **NEW MAY 2016 ...
pastebin.com/5tiyxT3E ▾
25+ **Leaked** TWC Account Login **Credentials** - **NEW MAY 2016**. a guest May 25th, 2016 284 Never ... **Leaked** by: xjkn3rX. Full Dump: COMMENCED ...

Leaked User Credentials of Nice Print Photography & PIAP PH ...
pastebin.com/gy8HsghE ▾
Leaked User **Credentials** of Nice Print Photography & PIAP PH. a guest Oct 11th, 2015 1,230 Never. Not a member of Pastebin yet? Sign Up, it unlocks many ...

Components

- Domain Osint
- Email Osint
- IP Osint
- Username Osint

- WIP
  - Company Scoping
  - Phone Number OSINT
  - Active Modules

Sources and Flow

Domain:

WhoIS
DNS Records
PunkSpider
Wappalyzer
Github
Email Harvestor □□
Domain IP History
Paste(s) Search
Pagelinks
Wikileaks
Links from Forums
Passive SSL Scan
ZoomEye
Shodan
Censys
Subdomains □□

Email:

Basic Email Checks
Work History
Social profiles
Enumerated Usernames □□
Location Information
Slides
Scribd Documents
Related Websites
HaveIBeenPwned

Username:

Git Details
Check username on various sites.
Profile Pics –Output saved in
$username directory
Frequent Hashtags
Interaction on Twitter.

Active Modules

Setting it up..

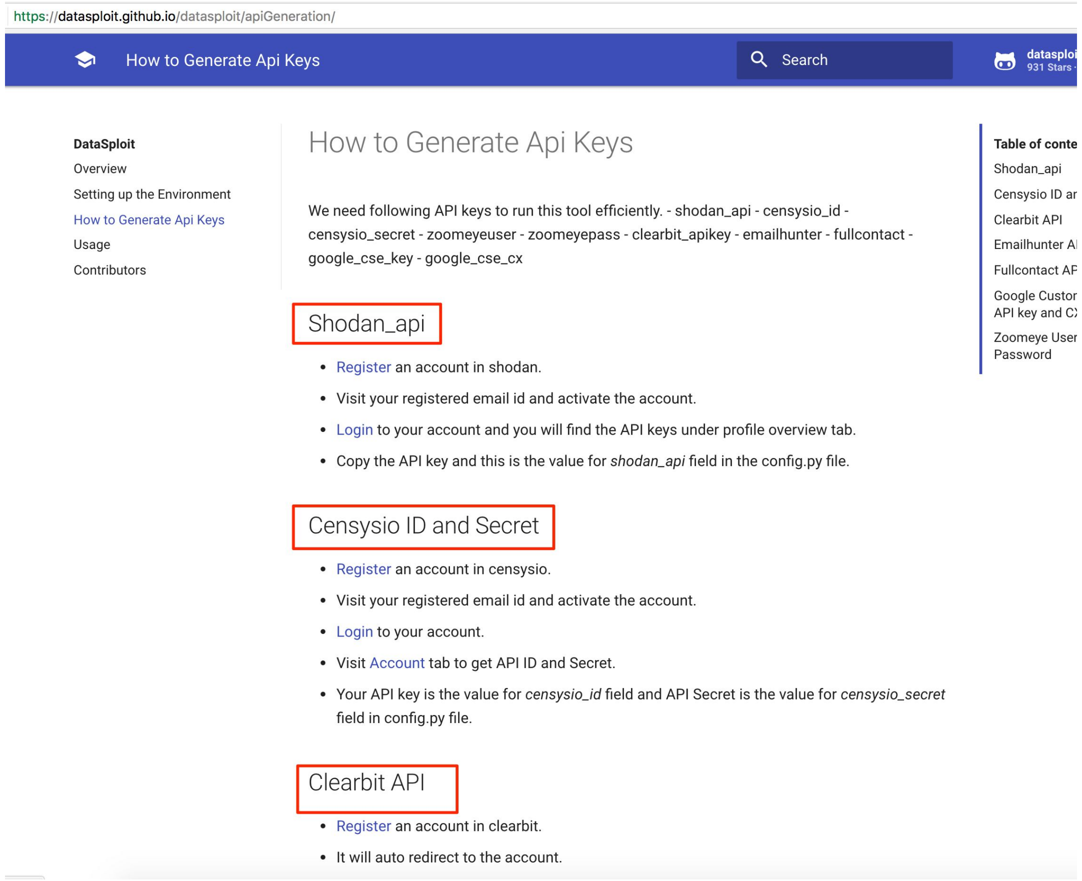
- Manual
  - Download from git (git clone or download)

    git clone https://github.com/DataSploit/datasploit.git
  - pip install –r requirements.txt
  - config.py holds API keys
  - **domain_xyz.py** – running stand alone scripts.
  - **domainOsint / emailOsint / ipOsint** – automated OSINT
  - active_scan.py

- Automated
  - https://hub.docker.com/r/appsecco/datasploit/
  - https://hub.docker.com/r/ftorn/datasploit/

Documentation.

https://datasploit.github.io/datasploit/



DataSploit
Overview
Setting up the Environment
How to Generate Api Keys
Usage
Contributors

How to Generate Api Keys

We need following API keys to run this tool efficiently. - shodan_api - censysio_id - censysio_secret - zoomeyeuser - zoomeyepass - clearbit_apikey - emailhunter - fullcontact - google_cse_key - google_cse_cx

Shodan_api

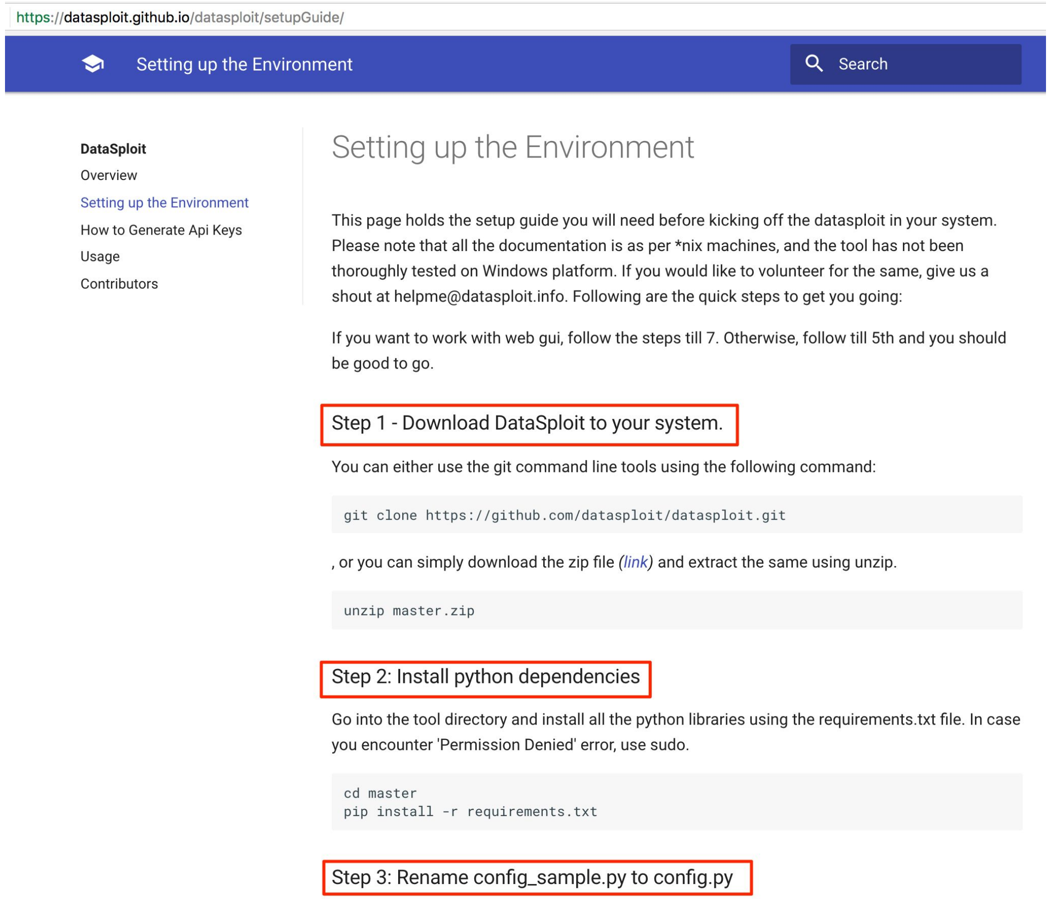
- Register an account in shodan.
- Visit your registered email id and activate the account.
- Login to your account and you will find the API keys under profile overview tab.
- Copy the API key and this is the value for *shodan_api* field in the config.py file.

Censysio ID and Secret

- Register an account in censysio.
- Visit your registered email id and activate the account.
- Login to your account.
- Visit Account tab to get API ID and Secret.
- Your API key is the value for *censysio_id* field and API Secret is the value for *censysio_secret* field in config.py file.

Clearbit API

- Register an account in clearbit.
- It will auto redirect to the account.


https://datasploit.github.io/datasploit/setupGuide/
Setting up the Environment
Search

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Setting up the Environment

This page holds the setup guide you will need before kicking off the datasploit in your system. Please note that all the documentation is as per *nix machines, and the tool has not been thoroughly tested on Windows platform. If you would like to volunteer for the same, give us a shout at helpme@datasploit.info. Following are the quick steps to get you going:

If you want to work with web gui, follow the steps till 7. Otherwise, follow till 5th and you should be good to go.

Step 1 - Download DataSploit to your system.

You can either use the git command line tools using the following command:

```
git clone https://github.com/datasploit/datasploit.git
```

, or you can simply download the zip file (*link*) and extract the same using unzip.

```
unzip master.zip
```

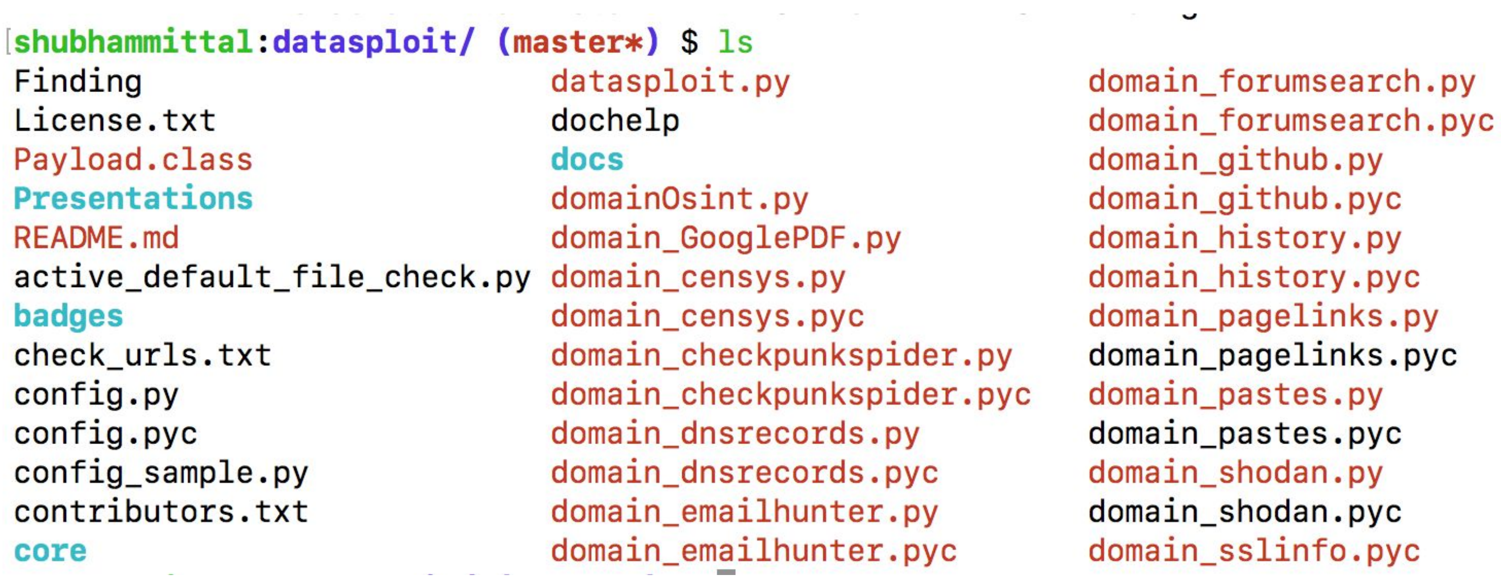
Step 2: Install python dependencies

Go into the tool directory and install all the python libraries using the requirements.txt file. In case you encounter 'Permission Denied' error, use sudo.

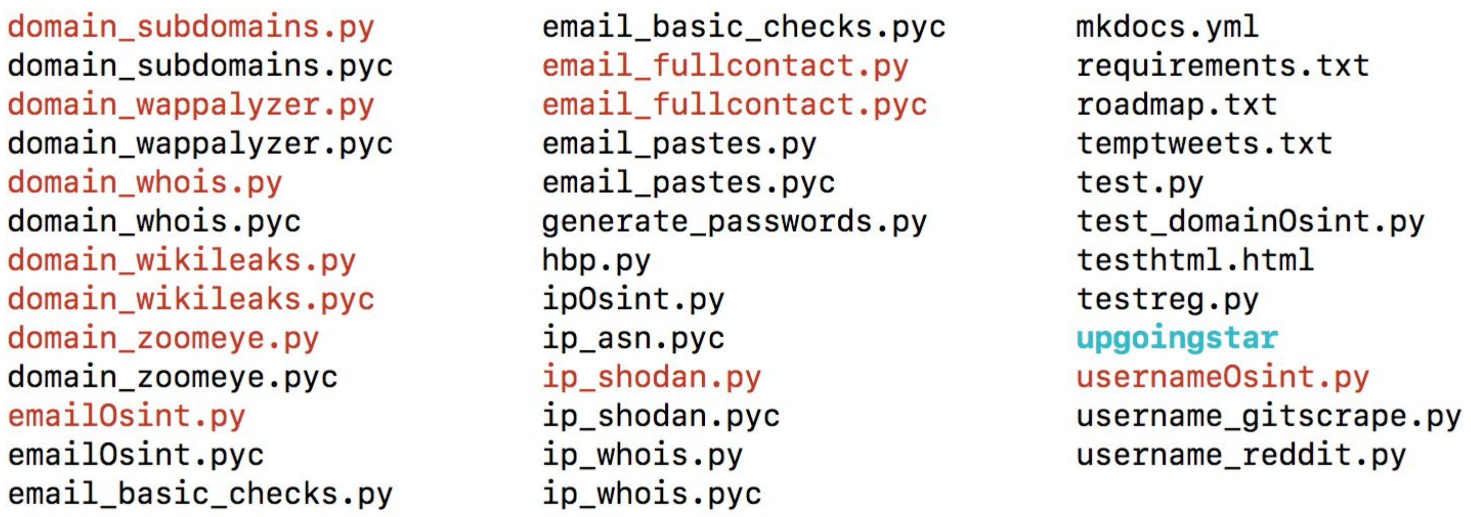
```
cd master
pip install -r requirements.txt
```

Step 3: Rename config_sample.py to config.py

What’s in there?



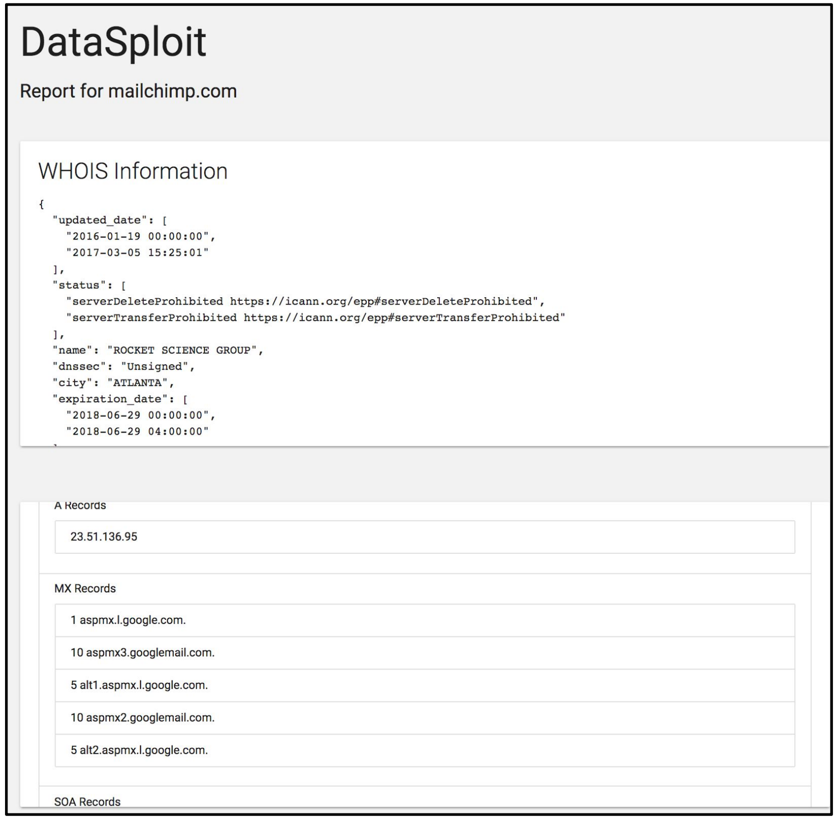
```
shubhammittal:datasploit/ (master*) $ ls
Finding                      datasploit.py                domain_forumsearch.py
License.txt                  dochelp                      domain_forumsearch.pyc
Payload.class                docs                         domain_github.py
Presentations                domainOsint.py               domain_github.pyc
README.md                    domain_GooglePDF.py          domain_history.py
active_default_file_check.py domain_censys.py             domain_history.pyc
badges                       domain_censys.pyc            domain_pagelinks.py
check_urls.txt               domain_checkpunkspider.py    domain_pagelinks.pyc
config.py                    domain_checkpunkspider.pyc   domain_pastes.py
config.pyc                   domain_dnsrecords.py         domain_pastes.pyc
config_sample.py             domain_dnsrecords.pyc        domain_shodan.py
contributors.txt             domain_emailhunter.py        domain_shodan.pyc
core                         domain_emailhunter.pyc       domain_sslinfo.pyc
```



```
domain_subdomains.py         email_basic_checks.pyc       mkdocs.yml
domain_subdomains.pyc        email_fullcontact.py         requirements.txt
domain_wappalyzer.py         email_fullcontact.pyc        roadmap.txt
domain_wappalyzer.pyc        email_pastes.py              temptweets.txt
domain_whois.py              email_pastes.pyc             test.py
domain_whois.pyc             generate_passwords.py        test_domainOsint.py
domain_wikileaks.py          hbp.py                       testhtml.html
domain_wikileaks.pyc         ipOsint.py                   testreg.py
domain_zoomeye.py            ip_asn.pyc                   upgoingstar
domain_zoomeye.pyc           ip_shodan.py                 usernameOsint.py
emailOsint.py                ip_shodan.pyc                username_gitscrape.py
emailOsint.pyc               ip_whois.py                  username_reddit.py
email_basic_checks.py        ip_whois.pyc
```

Output Formats

- HTML
- JSON
- Emails List (txt file)
- Subdomains List (txt file)



DataSploit

Report for mailchimp.com

WHOIS Information

```
{
  "updated_date": [
    "2016-01-19 00:00:00",
    "2017-03-05 15:25:01"
  ],
  "status": [
    "serverDeleteProhibited https://icann.org/epp#serverDeleteProhibited",
    "serverTransferProhibited https://icann.org/epp#serverTransferProhibited"
  ],
  "name": "ROCKET SCIENCE GROUP",
  "dnssec": "Unsigned",
  "city": "ATLANTA",
  "expiration_date": [
    "2018-06-29 00:00:00",
    "2018-06-29 04:00:00"
```

A Records

23.51.136.95

MX Records

1 aspmx.l.google.com.

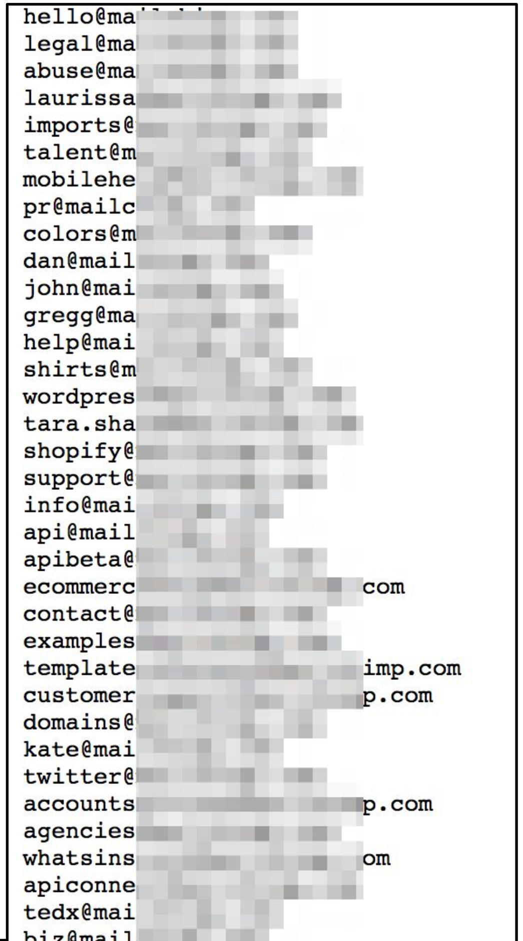
10 aspmx3.googlemail.com.

5 alt1.aspmx.l.google.com.

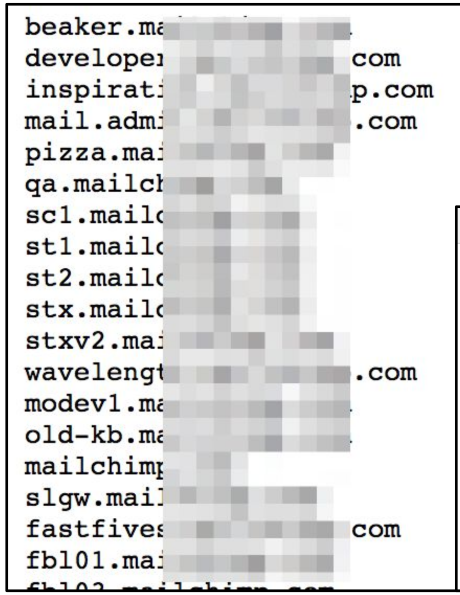
10 aspmx2.googlemail.com.

5 alt2.aspmx.l.google.com.

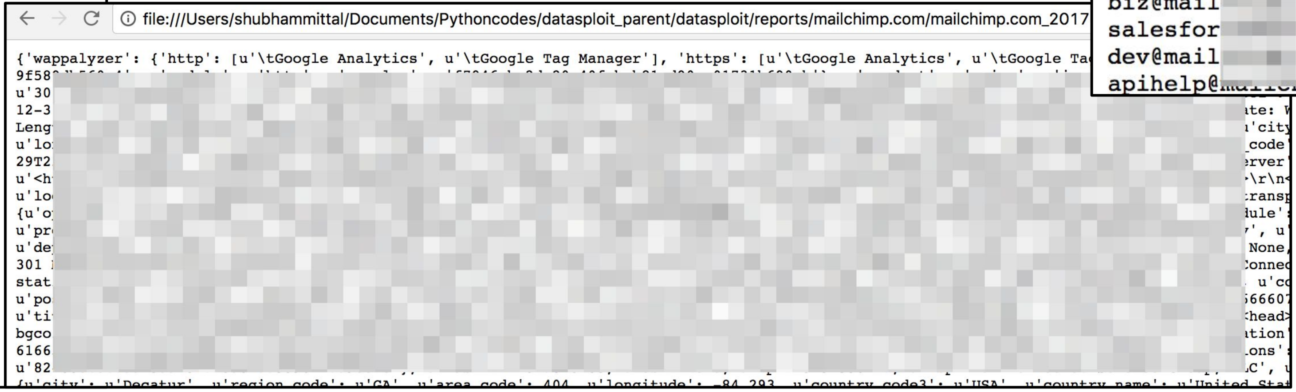
SOA Records



```
hello@ma[redacted]
legal@ma[redacted]
abuse@ma[redacted]
laurissa[redacted]
imports@[redacted]
talent@m[redacted]
mobilehe[redacted]
pr@mailc[redacted]
colors@m[redacted]
dan@mail[redacted]
john@mai[redacted]
gregg@ma[redacted]
help@mai[redacted]
shirts@m[redacted]
wordpres[redacted]
tara.sha[redacted]
shopify@[redacted]
support@[redacted]
info@mai[redacted]
api@mail[redacted]
apibeta@[redacted]
ecommerc[redacted]com
contact@[redacted]
examples[redacted]
template[redacted]imp.com
customer[redacted]p.com
domains@[redacted]
kate@mai[redacted]
twitter@[redacted]
accounts[redacted]p.com
agencies[redacted]
whatsins[redacted]om
apiconne[redacted]
tedx@mai[redacted]
biz@mail[redacted]
salesfor[redacted]
dev@mail[redacted]
apihelp@[redacted]
```



```
beaker.ma[redacted].
developer[redacted]com
inspirati[redacted]p.com
mail.admi[redacted].com
pizza.mai[redacted]
qa.mailch[redacted]
sc1.mailc[redacted]
st1.mailc[redacted]
st2.mailc[redacted]
stx.mailc[redacted]
stxv2.mai[redacted]
wavelengt[redacted].com
modev1.ma[redacted].
old-kb.ma[redacted].
mailchimp[redacted]
slgw.mail[redacted]
fastfives[redacted]com
fbl01.mai[redacted]
fbl02.ma[redacted]
```



file:///Users/shubhammittal/Documents/Pythoncodes/datasploit_parent/datasploit/reports/mailchimp.com/mailchimp.com_2017

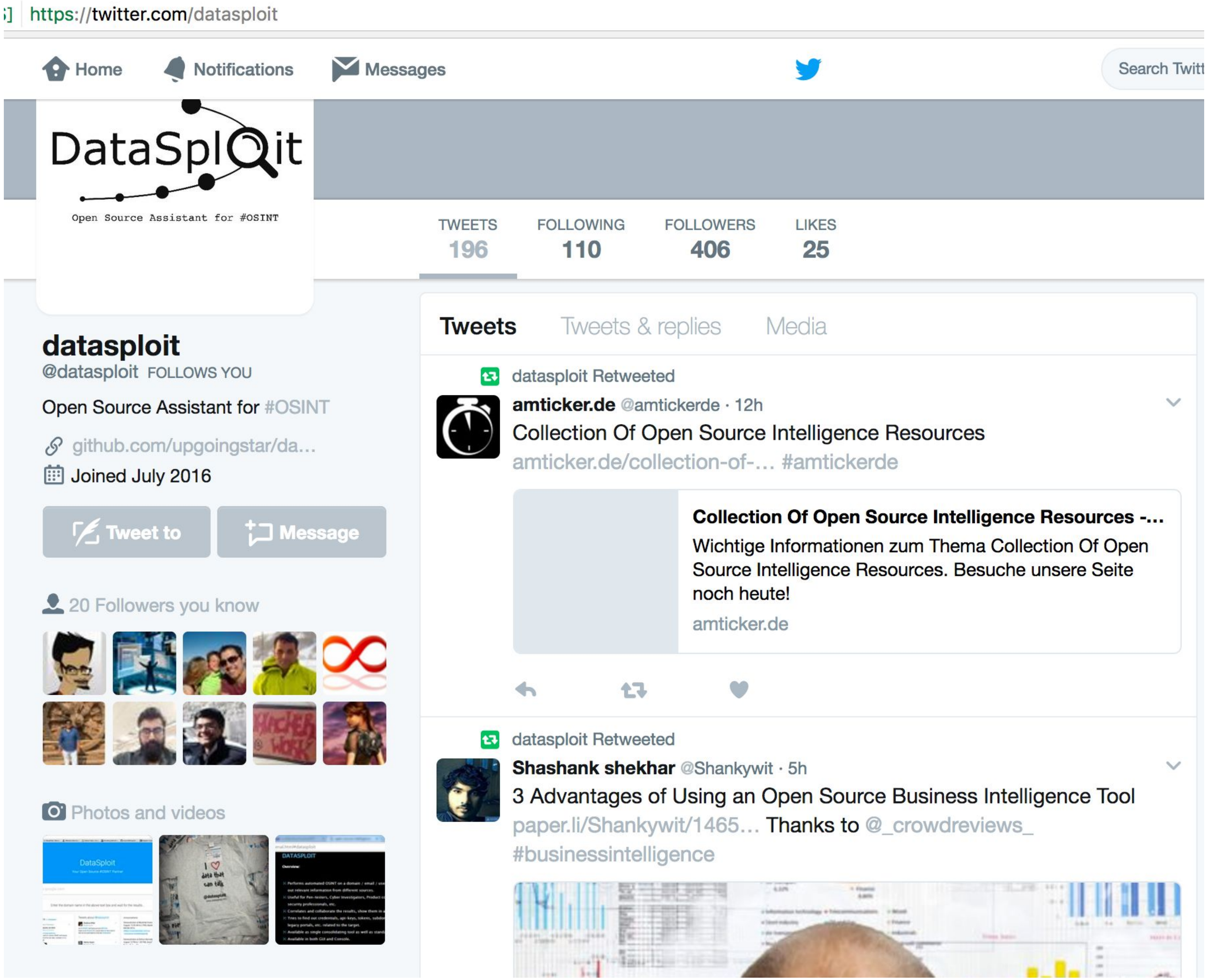
```
{'wappalyzer': {'http': [u'\tGoogle Analytics', u'\tGoogle Tag Manager'], 'https': [u'\tGoogle Analytics', u'\tGoogle Ta
[redacted]
{u'city': u'Decatur', u'region_code': u'GA', u'area_code': 404, u'longitude': -84.293, u'country_code3': u'USA', u'country_name': u'United Stat
```

DEMO TIME
LET'S HOPE THE DEMO-GODS ARE SMILING!
memegenerator.net

Twitter:

@datasploit

https://twitter.com/datasploit



datasploit
@datasploit FOLLOWS YOU

Open Source Assistant for #OSINT

github.com/upgoingstar/da...

Joined July 2016

datasploit Retweeted

amticker.de @amtickerde · 12h

Collection Of Open Source Intelligence Resources amticker.de/collection-of-... #amtickerde

Collection Of Open Source Intelligence Resources -...
Wichtige Informationen zum Thema Collection Of Open Source Intelligence Resources. Besuche unsere Seite noch heute!
amticker.de

datasploit Retweeted

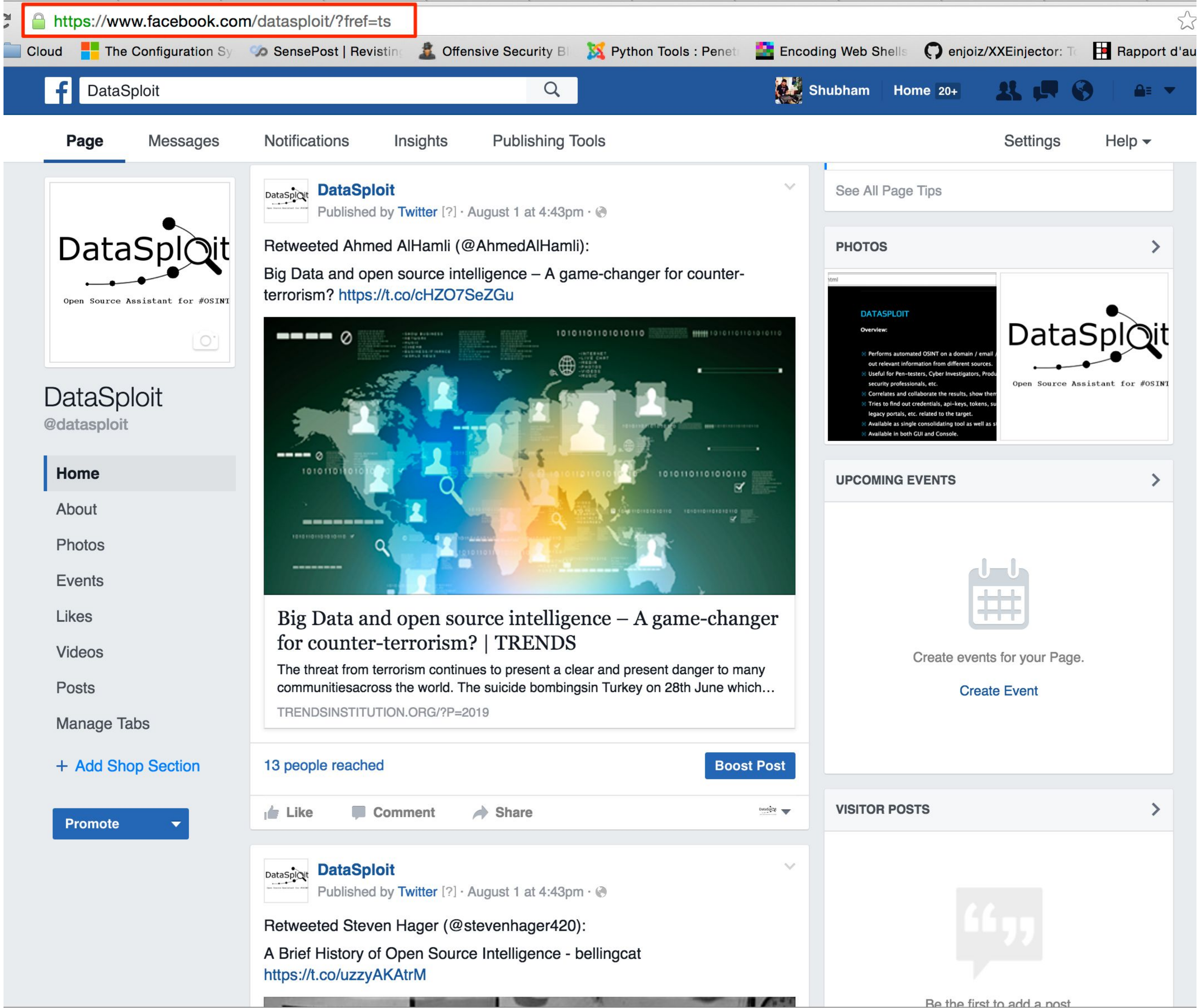
Shashank shekhar @Shankywit · 5h

3 Advantages of Using an Open Source Business Intelligence Tool paper.li/Shankywit/1465... Thanks to @_crowdreviews_ #businessintelligence

Facebook:

/datasploit

https://www.facebook.com/datasploit/



DataSploit
Published by Twitter [?] · August 1 at 4:43pm ·

Retweeted Ahmed AlHamli (@AhmedAlHamli):

Big Data and open source intelligence – A game-changer for counter-terrorism? https://t.co/cHZO7SeZGu

Big Data and open source intelligence – A game-changer for counter-terrorism? | TRENDS

The threat from terrorism continues to present a clear and present danger to many communitiesacross the world. The suicide bombingsin Turkey on 28th June which…

TRENDSINSTITUTION.ORG/?P=2019

DataSploit
Published by Twitter [?] · August 1 at 4:43pm ·

Retweeted Steven Hager (@stevenhager420):

A Brief History of Open Source Intelligence - bellingcat
https://t.co/uzzyAKAtrM

Roadmap

- Allows to set up periodic scans and alerting for product security companies.
- Intelligence on co-relation and identity verification.
- Reports in CSV.
- Reverse Image Search and profile validation.
- Works closely with various social network APIs.
- Refine Pastebin and Github Searches.
- IP Threat Intelligence.
- Organization Scoping.
- Integration with SE other tools.
- Cloud related OSINT and active modules.
- pip install datasploit (to be installed as both library as well as script)

Coverage

2016
TOP 10 BEST SECURITY TOOLS
toolswatch
HACKERS ARSENAL

KIWICON X

CON VERGE

DEF 24 CON
DEMO LABS

BSIDES CHARM 2017

HACK TV NAKED
http://securityweekly.com

SECURITY LIST NETWORK™
"TO KEEP EVERYTHING TESTED AND SECURE"

info security
STRATEGY | INSIGHT | TECHNOLOGY

SC MEDIA

Blackarch linux

The Register®
Biting the hand that feeds IT

CircleCityCon 4.0

OSINT Framework

black hat® USA 2016

black hat® EUROPE 2016

black hat® ASIA 2017

How to Contribute

- Help us in testing the tool
- Expand : Write/Suggest modules
- Give Feedback: raise issues, tweet, drop an email.
- Use / Promote / Write about the tool.
- Write OSINT blogs / tool walkthrough(s) / etc.

- Report issues at https://github.com/datasploit/datasploit/issues

Core Contributors.

- Shubham Mittal (@upgoingstar)
- Nutan Kumar Panda (@nutankumarpanda)
- Sudhanshu (@sudhanshu_c)
- Kunal (@KunalAggarwal92)

- Kudos to
  - @anantshri for mentoring.
  - @ bnchandrapal for feedbacks, suggestions and other help around issues.

Thanks. g0t questions?

https://github.com/DataSploit/datasploit

Follow @datasploit for OSINT news and latest updates.

Tweet / DM to ***@datasploit***

upgoingstaar@gmail.com