QOMPLX:CYBER

Archiving for Investigators Part 2 - ArkScrape Tool

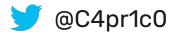
Nate Johnson

QOMPLX:CYBER

Brief introduction...

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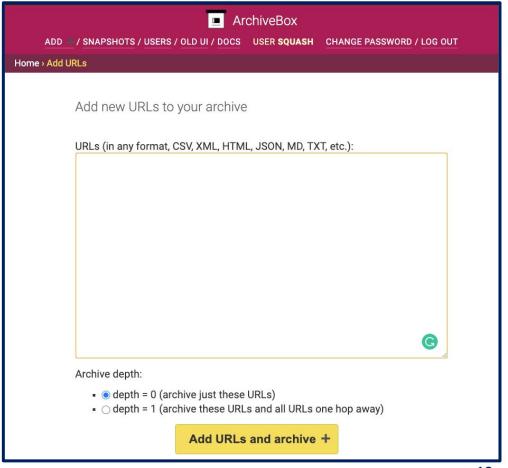


Brief introduction...

- Continuation of Archiving Data
- Shodan
- Archive Case Management tool

Archiving websites (ArchiveBox)

- Keith talked through using this
- Use a url to archive it
 - o etc.
- How do we organize this?



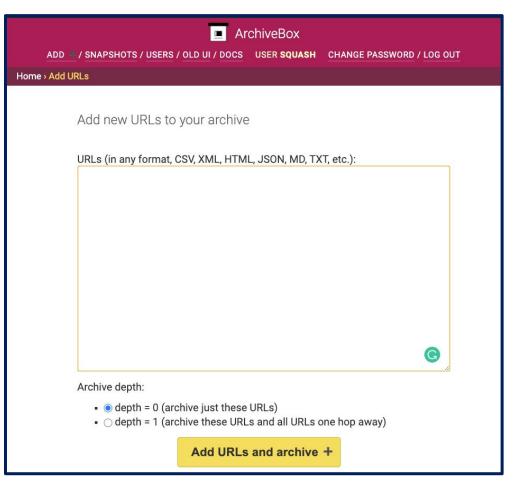
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Archiving Tool for the Investigator

Archiving websites (ArchiveBox)

- If you have a single server there is the possibility of cross contamination of data
 - URL 1 has nothing to do with Investigation 2

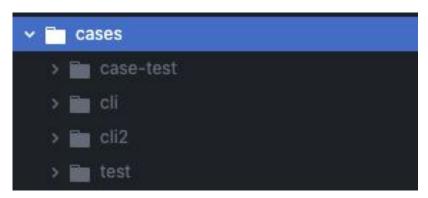
How do you fix that?



Archiving websites (ArchiveBox)

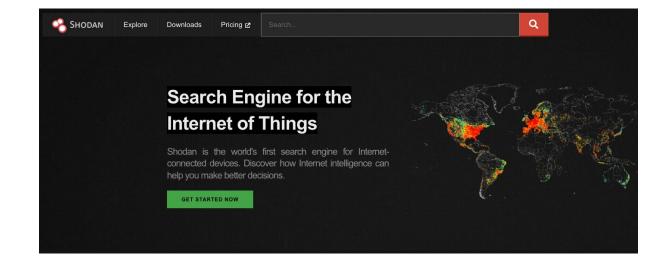
- Scripting (Python 3)
- Separate Archive Databases Into different Cases
- Let's you run databases per operations





Archiving Infrastructure (shodan)

- Internet Scanning Tool
 - Price
 - Account (\$)
 - Subscription (\$-\$\$\$)
- Archive
 - Location Data
 - How long the site has been up.
 - Who is hosting it.



Using our tool

```
Usage
 usage: arkscrape.py [-h] [--init] [--shodan SHODAN] [--server SERVER] [--domain DOMAIN]
                     [--scrape SCRAPE]
 Archive websites, Shodan scan results, and webscraper per a domain
 optional arguments:
   -h, --help show this help message and exit
   --init First run setup
   --shodan SHODAN Shodan check: --shodan <archive folder>
   --server SERVER Archive box server start: --server <archive folder>
   --domain DOMAIN Target domain
   --scrape SCRAPE Scrape Urls from a list: --scrape <archive folder>
```

Using our tool

```
$ python3 arkscrape.py --init
Name for Archive Folder: talk-test
=== ARCHIVE SETUP ===
    > /Users/nathaniel.johnson/arkscrape/cases/talk-test
[+] Initializing a new ArchiveBox v0.6.2 collection...
[+] Building archive folder structure...
    + ./archive, ./sources, ./logs...
    + ./ArchiveBox.conf...
[+] Building main SQL index and running initial migrations...
    Operations to perform:
      Apply all migrations: admin, auth, contenttypes, core, sessions
    Running migrations:
    Applying contenttypes.0001_initial... OK
    Applying suth 8881 initial OK
```

Using our tool

Using our tool

```
$ python3 arkscrape.py --shodan talk-test --domain qomplx.com
Search query: domain qomplx.com
Total number of results: 0
Query credits left: 9920
Output file: 2021_6_16-export.json.gz
[################################### 100%
Saved 0 results into file 2021_6_16-export.json.gz
```

Using our tool

Using our tool

```
$ shodan parse --fields ip_str,location.longitude,location.latitude cases/talk-test/shodan/2021_6_18-export.json.gz
121.178.254.145 126.39181
                               34.81282
                               35.46756
216.107.134.6 -97.51643
91.201.107.99 30.5238 50.45466
92.118.108.175 28.8575 47.00556
145.239.62.168 2.12807 50.98651
77.223.131.231 27.13838
                               38.41273
52.33.125.148 -119.70058
                               45.83986
172.105.59.29
              72.88261
                               19.07283
45.166.51.71
               -34.88111
                               -8.05389
106.14.226.189 114.0683
                               22.54554
113.43.133.106 139.69171
                               35.6895
78.46.162.158
              7.77746 48.21884
185.225.1.45
                               40.4165
               -3.70256
```

Conclusion

- You can find the tool within the leaflet for this presentation
- Feel free to contact me on twitter if you have any questions or suggestions.