



Department of
Bachelor of Computer Applications

Ethical Hacking Fundamentals
Lab File – CA 04

Subject Code: 19BCA4C02L
Class: IInd Year IInd Semester

Prepared By:
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Aim :

To explore and learn OSR Framework a set of libraries to perform Open-Source Intelligence collection tasks.

Requirements :

- Virtualisation Software
- Kali Linux 2021.4a
- Basics of OSR Framework
- Administrator privileges
- Internet Connection

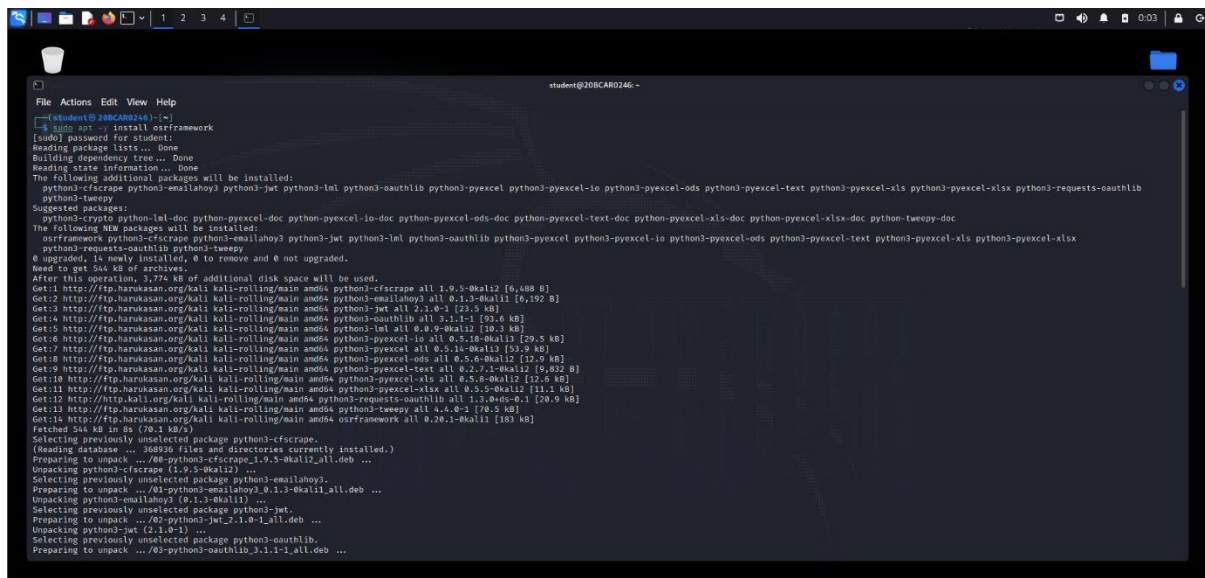
Objectives :

Demonstrate how to identify usernames of the target on different social media platforms.

Procedure :

Installation

Open root terminal in kali linux, and run the command `sudo apt install osr framework` to install OSR Framework.



```
student@20BCAR0246:~$ sudo apt install osr framework
[sudo] password for student:
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  python3-csrfmap python3-emailahoy python3-jwt python3-lml python3-oauthlib python3-pyexcel python3-pyexcel-io python3-pyexcel-ods python3-pyexcel-text python3-pyexcel-xls python3-pyexcel-xlsx python3-requests-oauthlib
python3-tweepy
Suggested packages:
  python3-crypto python3-lal-doc python-pyexcel-doc python-pyexcel-io-doc python-pyexcel-ods-doc python-pyexcel-text-doc python-pyexcel-xls-doc python-pyexcel-xlsx-doc python-tweepy-doc
The following NEW packages will be installed:
  osrframework python3-csrfmap python3-emailahoy python3-jwt python3-lml python3-oauthlib python3-pyexcel python3-pyexcel-io python3-pyexcel-ods python3-pyexcel-text python3-pyexcel-xls python3-pyexcel-xlsx
0 upgraded, 14 newly installed, 0 to remove and 0 not upgraded.
Need to get 544 kB of archives.
After this operation, 3,774 kB of additional disk space will be used.
Get:1 http://ftp.harukasan.org/kali kali-rolling/main amd64 python3-csrfmap all 1.0.5-0kali2 [6,400 B]
Get:2 http://ftp.harukasan.org/kali kali-rolling/main amd64 python3-emailahoy all 0.1.3-0kali1 [6,192 B]
Get:3 http://ftp.harukasan.org/kali kali-rolling/main amd64 python3-jwt all 2.1.0-1 [23.5 kB]
Get:4 http://ftp.harukasan.org/kali kali-rolling/main amd64 python3-oauthlib all 3.1.1-1 [192.6 kB]
Get:5 http://ftp.harukasan.org/kali kali-rolling/main amd64 python3-lml all 0.0.0-0kali2 [40.3 kB]
Get:6 http://ftp.harukasan.org/kali kali-rolling/main amd64 python3-pyexcel-io all 0.5.10-0kali2 [29.5 kB]
Get:7 http://ftp.harukasan.org/kali kali-rolling/main amd64 python3-pyexcel all 0.5.10-0kali2 [53.9 kB]
Get:8 http://ftp.harukasan.org/kali kali-rolling/main amd64 python3-pyexcel-ods all 0.5.6-0kali2 [12.5 kB]
Get:9 http://ftp.harukasan.org/kali kali-rolling/main amd64 python3-pyexcel-text all 0.2.7-1-0kali2 [9,832 B]
Get:10 http://ftp.harukasan.org/kali kali-rolling/main amd64 python3-pyexcel-xls all 0.5.8-0kali2 [12.6 kB]
Get:11 http://ftp.harukasan.org/kali kali-rolling/main amd64 python3-pyexcel-xlsx all 0.5.5-0kali2 [11.1 kB]
Get:12 http://ftp.kali.org/kali kali-rolling/main amd64 python3-requests-oauthlib all 1.1.0-0kali1 [20.5 kB]
Get:13 http://ftp.harukasan.org/kali kali-rolling/main amd64 python3-tweepy all 4.4.0-1 [70.5 kB]
Get:14 http://ftp.harukasan.org/kali kali-rolling/main amd64 osrframework all 0.20.1-0kali1 [183 kB]
Fetched 544 kB in 30 s (70.1 kB/s)
Selecting previously unselected package python3-csrfmap.
(Reading database ... 26895 files and directories currently installed.)
Preparing to unpack .../00-python3-csrfmap_1.0.5-0kali2_all.deb ...
Unpacking python3-csrfmap (1.0.5-0kali2) ...
Selecting previously unselected package python3-emailahoy.
Preparing to unpack .../01-python3-emailahoy_0.1.3-0kali1_all.deb ...
Unpacking python3-emailahoy (0.1.3-0kali1) ...
Selecting previously unselected package python3-jwt.
Preparing to unpack .../02-python3-jwt_2.1.0-1_all.deb ...
Unpacking python3-jwt (2.1.0-1) ...
Selecting previously unselected package python3-oauthlib.
Preparing to unpack .../03-python3-oauthlib_3.1.1-1_all.deb ...
```

```
File Actions Edit View Help
[student@20BCAR0246:~]
$ osrf
usage: osrf [-h] [--license] [--version] <sub_command> <sub_command_options> ...

OSRFramework CLI. Collection of tools included in the framework.

SUBCOMMANDS:
  List of available commands that can be invoked using OSRFramework CLI.

  <sub_command> <sub_command_options>
  alias_generator    Generates a list of candidate usernames based on known information.
  checkify           Verifies if a given email address matches a pattern.
  dominify           Checks whether domain names using words and nicknames are available.
  mailify            Gets information about email accounts.
  phonefy            Looks for information linked to spam practices by a phone number.
  searchfy           Performs queries on several platforms.
  usufy              Looks for registered accounts with given nicknames.

ABOUT ARGUMENTS:
  Showing additional information about this program.

  -h, --help          shows this help and exists.
  --license            shows the ADPLV3 license and exists.
  --version            shows the version of the program and exists.

Use 'osrf <command> --help' to learn more about each command. Check OSRFramework README.md file for further details on the usage of this program or follow us on Twitter in <http://twitter.com/13visio>.

[student@20BCAR0246:~]
$
```

Now, we are ready to work inside the framework.

NOTE: Open Source INTeelligence Framework is similar to this but is browser-based, can be accessed from <https://osintframework.com/>.

Working with OSRF Sub-Commands

usufy

details about the command are as follows

```
File Actions Edit View Help
[student@20BCAR0246:~]
$ usufy -h
usage: usufy [-h] [-info <action>] [-b] [-f <path_to_fuzzing_list>] [-l <path_to_nick_list>] [-n <nick> [<nick> ...]] [-show_tags] [-p <platform> [<platform> ...]] [-t <tag> [<tag> ...]] [-x <platform> [<platform> ...]]
  [-avoid_download] [-avoid_processing] [-fuzz_config <path_to_fuzz_list>] [-nonvalid <not_valid_characters>] [-o <sum_ext> [<sum_ext> ...]] [-l <path_to_log_folder>] [-o <path_to_output_folder>] [-w]
  [-f <alternative_header_file>] [-t <sum_threads>] [-h] [-v <verbosity>] [--version]

usufy - Piece of software that checks the existence of a profile for a given user in dozens of different platforms.

Input options (one required):
  -info <action>      select the action to be performed amongst the following: list_platforms (list the details of the selected platforms), list_tags (list the tags of the selected platforms). Afterwards, it exists.
  -b, --benchmark    perform the benchmarking tasks.
  -f <path_to_fuzzing_list>, --fuzz_config <path_to_fuzzing_list>
                      This option will try to find usufy-like URLs. The list of fuzzing platforms in the file should be (one per line): <BASE_DOMAIN> <VALID_NICK>
  -l <path_to_nick_list>, --list <path_to_nick_list>
                      path to the file where the list of nicks to verify is stored (one per line).
  -n <nick> [<nick> ...], --nicks <nick> [<nick> ...]
                      the list of nicks to process (at least one is required).
  --show_tags         it will show the platforms grouped by tags.

Platform selection arguments:
  Criteria for selecting the platforms where performing the search.

  -p <platform> [<platform> ...], --platforms <platform> [<platform> ...]
                      select the platforms where you want to perform the search amongst the following: ['all', '500px', 'about', 'affiliorama', 'archive', 'arduino', 'arive', 'armorgames', 'askfm', 'audiob', 'audioboom',
                      'authorstream', 'badoo', 'bandcamp', 'blogger', 'bitbucket', 'bitcointalk', 'bitrated', 'blip', 'blogmarks', 'blogspot', 'boonex', 'bubok', 'bucketlisty', 'buddypic',
                      'burbuja.info', 'canva', 'carbamade', 'cartoon', 'causes', 'ccm', 'ccsinfo', 'chess', 'cisco', 'codcademy', 'codementor', 'codewall', 'colourlovers', 'connectingsingles', 'couchsurfing', 'crukes',
                      'crowdin', 'cryptocoinbase', 'cryptofresh', 'dailymotion', 'datapipe', 'deviantart', 'digitalspy', 'disqus', 'doodles', 'douban', 'dreamstime', 'drizzle', 'drupal', 'dzone', 'ebay', 'ehentai',
                      'eighttime', 'ella', 'emmyspace', 'enememino', 'ethereum', 'etsy', 'eyemr', 'facebook', 'fanpop', 'fark', 'fiverr', 'flickr', 'foroscoches', 'foros24h', 'forosperu', 'forospyware', 'foursquare',
                      'freelance', 'freemurder', 'getatisfaction', 'github', 'goniloregate', 'goudraids', 'gravatar', 'gumpain', 'hous', 'hrcanalia', 'hupages', 'ibsocial', 'itunny', 'instagram', 'instructables',
                      'issuu', 'ivoox', 'jamiiforums', 'kali', 'kanogames', 'keybase', 'kickstarter', 'kinja', 'kongregate', 'kuika', 'lastfm', 'livejournal', 'losviajeros', 'mastodonsocial', 'mastodonxyz', 'mconet',
                      'mediaviva', 'medium', 'meurise', 'mexame', 'mercadolibre', 'metacafe', 'meteor', 'minds', 'mozilla', 'mtmjp', 'musicasara', 'myeloma', 'myfitnesspal', 'myspace', 'nairaland', 'netvibes',
                      'newgrounds', 'notabug', 'occupyalist', 'ok', 'okcupid', 'onenama', 'openbugbounty', 'openframeworks', 'opentremap', 'opolly', 'pastebin', 'patreon', 'pango', 'pearltrees', 'periscope', 'pishitank',
                      'photobucket', 'plainsight', 'pikls', 'pirc', 'pokered', 'pokerstrategy', 'pornhub', 'porkia', 'reddit', 'redtube', 'researchgate', 'reverbnation', 'ripenear', 'rojadirecta', 'ruby', 'sarahah',
                      'scribd', 'sealain', 'sencha', 'silvernet', 'singletrackworld', 'slanhuu', 'slideshare', 'smutstation', 'suguma', 'sumoindia', 'suno', 'spaniards', 'sponi', 'spotify', 'sreakers', 'strancommunity',
                      'steemit', 'steinberg', 'taringa', 'teatrehouse', 'telegram', 'thesims', 'theadtrentroom', 'theverge', 'thiscrush', 'tippin.me', 'trakt', 'twitter', 'twoplustwo', 'tuppad', 'unplash', 'v7a',
                      'vimeo', 'verbling', 'vevorform', 'vidler', 'videohelp', 'vimeo', 'vixual', 'ok', 'vivorform', 'vulpae', 'wally', 'wikia', 'wikipedia.fr', 'wikipedia.it', 'wikipedia.de', 'wikipedia.es',
                      'wikipedia.eu', 'wikipedia.eu', 'wikipedia.fr', 'wikipedia.pt', 'wikipedia.ru', 'winamp', 'wishlistr', 'witty', 'wykop', 'xing', 'xtube', 'youtube', 'zentyal', 'zotero']. More than one option can be
                      selected.
  -t <tag> [<tag> ...], --tags <tag> [<tag> ...]
                      select the list of tags that fit the platforms in which you want to perform the search. More than one option can be selected.
  -x <platform> [<platform> ...], --exclude-platform <platform> [<platform> ...]
                      select the platforms that you want to exclude from the processing.

Processing arguments:
  Configuring the way in which usufy will process the identified profiles.

  --avoid_download    argument to force usufy NOT to store the downloadable version of the profiles.
  --avoid_processing  argument to force usufy NOT to perform any processing task with the valid profiles.
  --fuzz_config <path_to_fuzz_list>
                      path to the fuzzing config details. Wildcards such as the domains or the nicknames should come as: <DOMAIN>, <USERNAME>.
  --nonvalid <not_valid_characters>
                      string containing the characters considered as not valid for nicknames.
  -o <sum_ext> [<sum_ext> ...], --extension <sum_ext> [<sum_ext> ...]
                      output extension for the summary files. Default: xls.
  -l <path_to_log_folder>, --logfile <path_to_log_folder>
                      path to the log folder. If none was provided, //logs is assumed.
  -o <path_to_output_folder>, --output_folder <path_to_output_folder>
                      output folder for the generated documents. While if the paths do not exist, usufy will try to create; if this argument is not provided, usufy will NOT write any down any data. Check permissions if
                      something goes wrong.
  -w, --web-browser    opening the URL returned in the default web browser.
  -f <alternative_header_file>, --file_header <alternative_header_file>
                      Header for the output filenames to be generated. If None was provided the following will be used: profiles.<extension>.
  -t <sum_threads>, --threads <sum_threads>
                      write down the number of threads to be used (default 32). If 0, the maximum number possible will be used, which may make the system feel unstable.

About arguments:
  Showing additional information about this program.

  -h, --help          shows this help and exists.
  -v <verbosity>, --verbose <verbosity>
                      select the verbosity level: 0 - minimal; 1 - normal (default); 2 - debug.
  --version            shows the version of the program and exists.

Check the README.md file for further details on the usage of this program or follow us on Twitter in <http://twitter.com/13visio>.

[student@20BCAR0246:~]
$
```

Executing `usufy -n suman_garai -p twitter youtube` we get

```
student@20BCAR0246:~$ usufy -n suman_garai -p twitter youtube

OSRFramework 6.20.1

OSRFramework

Coded with ❤ by Vaiza Rubio & Félix Brezo

-- Use 'osrf upgrade --use-development' to grab development versions. --

Usufy | Copyright (C) Vaiza Rubio & Félix Brezo (Ilvisio) 2016-2020

This program comes with ABSOLUTELY NO WARRANTY. This is free software, and you
are welcome to redistribute it under certain conditions. For additional info,
visit <https://www.gnu.org/licenses/agpl-3.0.txt>.

2022-01-31 01:17:02.057580 Starting search in 2 platform(s)... Relax!

Press <Ctrl + C> to stop ...

2022-01-31 01:17:07.948836 Results obtained (2):

/usr/lib/python3/dist-packages/pyexcel/deprecated.py:208: UserWarning: Deprecated usage since v0.2.1! Explicit import is no longer required. pyexcel.ext.text is auto imported.
  warnings.warn(
Objects recovered (2022-1-31_1h17m):
+-----+-----+-----+
| com.ilvisio.URI | com.ilvisio.Alias | com.ilvisio.Platform |
+-----+-----+-----+
| https://www.youtube.com/user/suman_garai/about | suman_garai | Youtube |
| http://twitter.com/suman_garai | suman_garai | Twitter |
+-----+-----+-----+

2022-01-31 01:17:08.005071 You can find all the information here:
./profiles.csv

2022-01-31 01:17:08.005981 Finishing execution ...

Total time consumed: 0:00:05.148401
Average seconds/query: 2.5742609 seconds

Did something go wrong? Is a platform reporting false positives? Do you need to
integrate a new one and you don't know how to start? Then, you can always place
an issue in the Github project:
https://github.com/ilvisio/osrframework/issues
Note that otherwise, we won't know about it!

student@20BCAR0246:~$
```

searchfy

details about the command are as follows

```
student@20BCAR0246:~$ searchfy --help
usage: searchfy [-h] [-q <searches> [<searches> ...]] [-e <sum_ext> [<sum_ext> ...]] [-f <alternative_header_file>] [-o <path_to_output_folder>] [-p <platform> [<platform> ...]] [-w] [-x <platform> [<platform> ...]] [-v]

searchfy - Piece of software that performs a query on the platforms in OSRFramework.

Input options (one required):
  -h, --help            shows this help and exists.
  -q <searches> [<searches> ...]  -queries <searches> [<searches> ...]
                                the list of queries to be performed).

Processing arguments:
  Configuring the way in which searchfy will process the identified profiles.
  -e <sum_ext> [<sum_ext> ...]  -extension <sum_ext> [<sum_ext> ...]
                                output extension for the summary files. Default: xls.
  -f <alternative_header_file>  -file_header <alternative_header_file>
                                Header for the output files to be generated. If None was provided the following will be used: profiles.extension
  -o <path_to_output_folder>  -output_folder <path_to_output_folder>
                                output folder for the generated documents. While if the paths does not exist, usufy.py will try to create; if this argument is not provided, usufy will NOT write any down any data. Check permissions if
                                something goes wrong.
  -p <platform> [<platform> ...]  -platforms <platform> [<platform> ...]
                                select the platforms where you want to perform the search amongst the following: ['all', 'facebook', 'github', 'instagram', 'keyserverio', 'twitter', 'youtube']. More than one option can be selected.
  -w, --web_browser            opening the URL returned in the default web browser.
  -x <platform> [<platform> ...]  -exclude <platform> [<platform> ...]
                                select the platforms that you want to exclude from the processing.

About arguments:
  Showing additional information about this program.
  -h, --help            shows this help and exists.
  --version             shows the version of the program and exists.

Check the README.md file for further details on the usage of this program or follow us on Twitter at <http://twitter.com/13visio>.

student@20BCAR0246:~$
```

results executing the command `searchfy -q osint` are

```
student@20BCAR0246:~$ searchfy -q osint
searchfy: error: one of the arguments --license -q/--queries is required

student@20BCAR0246:~$ searchfy -q osint
OSRFramework
Coded with  by Yaiza Rubio & Félix Brezo

-- In 'domainfy', you may use several words with '-n', E. g. -n 'felix yaiza' --

Searchfy | Copyright (C) Yaiza Rubio & Félix Brezo (13visio) 2014-2020
This program comes with ABSOLUTELY NO WARRANTY. This is free software, and you
are welcome to redistribute it under certain conditions. For additional info,
visit <https://www.gnu.org/licenses/gpl-3.0.txt>.

2022-01-31 01:20:49.404040 Starting search in different platform(s)... Relax!
Press CTRL + C to stop...

[+] Launching search using the Facebook module...
[+] Launching search using the Github module...
[+] Launching search using the Instagram module...
[+] Launching search using the KeyServerID module...
[+] Launching search using the Twitter module...
[+] Launching search using the Youtube module...

2022-01-31 01:27:28.030005 Results obtained:
Warning: warnf
Objects recovered (2022-1-31 1h27m):
+-----+-----+-----+
| com.13visio.Platform | com.13visio.Alias | com.13visio.URI |
+-----+-----+-----+
| Github | OSINTAI | https://github.com/OSINTAI |
| Github | sosoj | https://github.com/sosoj |
| Github | oxinbranza | https://github.com/oxinbranza |
| Github | osintegrators | https://github.com/osintegrators |
| Github | SiloGit | https://github.com/SiloGit |
| Github | kaharinarayanan | https://github.com/kaharinarayanan |
| Github | mamez | https://github.com/mamez |
| Github | OSintt | https://github.com/OSintt |
| Github | Shhuvansh | https://github.com/Shhuvansh |
+-----+-----+-----+

2022-01-31 01:27:28.008445 You can find all the information collected in the following files:
./profiles.csv

2022-01-31 01:27:28.008400 Finishing execution...
Total time used: 0:00:30.004440
Average seconds/query: 30.00444 seconds

Did something go wrong? Is a platform reporting false positives? Do you need to
integrate a new one and you don't know how to start? Then, you can always place
an issue in the Github project:
https://github.com/13visio/osrframework/issues
Note that otherwise, we won't know about it!

student@20BCAR0246:~$
```


phonefy

details about the command are as follows

```

File Actions Edit View Help
[student@20BCAR0246]~$
$ phonefy
usage: phonefy [-license | -n <phones> [<phones> ...]] [-e <sum_ext> [<sum_ext> ...]] [-o <path_to_output_folder>] [-p <platform> [<platform> ...]] [-f <alternative_header_file>] [--quiet] [-w] [-x <platform> [<platform> ...]] [-h]
               [--version]

phonefy - Piece of software that checks the existence of a given series of phones in a bunch of phone number lists associated to malicious activities.

Input options (one required):
  -license          shows the GPLv3+ license and exists.
  -n <phones> [<phones> ...], --numbers <phones> [<phones> ...]
                   the list of phones to process (at least one is required).

Processing arguments:
  Configuring the way in which usufy will process the identified profiles.
  -e <sum_ext> [<sum_ext> ...], --extension <sum_ext> [<sum_ext> ...]
                   output extension for the summary files. Default: xls.
  -o <path_to_output_folder>, --output_folder <path_to_output_folder>
                   output folder for the generated documents. While if the paths does not exist, usufy.py will try to create; if this argument is not provided, usufy will NOT write any down any data. Check permissions if
                   something goes wrong.
  -p <platform> [<platform> ...], --platform <platform> [<platform> ...]
                   select the platforms where you want to perform the search amongst the following: ['all', 'infotelefonica', 'listaspam', 'xtelefonos']. More than one option can be selected.
  -f <alternative_header_file>, --file_header <alternative_header_file>
                   Header for the output filenames to be generated. If None was provided the following will be used: profiles-<extension>.
  --quiet          tells the program not to show anything.
  -w, --web_browser
                   opening the URLs returned in the default web browser.
  -x <platform> [<platform> ...], --exclude <platform> [<platform> ...]
                   select the platforms that you want to exclude from the processing.

About arguments:
  Showing additional information about this program.
  -h, --help          shows this help and exists.
  --version          shows the version of the program and exists.

Check the README.md file for further details on the usage of this program or follow us on Twitter in <https://twitter.com/i3visio>.

[student@20BCAR0246]~$
$

```

results executing the command `phonefy -n +916295099213 -p 'all'` are

```
student@Z0BCAR0246: ~  
File Actions Edit View Help  
[~] student@Z0BCAR0246:[~]  
$ phoneyfy  
usage: phoneyfy [-license] [-n <phones> [<phones> ...]] [-e <sum_ext> [<sum_ext> ...]] [-o <path_to_output_folder>] [-p <platform> [<platform> ...]] [-f <alternative_header_file>] [--quiet] [-w] [-x <platform> [<platform> ...]] [-h]  
phoneyfy: error: one of the arguments --license -n/--numbers is required  
[~] student@Z0BCAR0246:[~]  
$ phoneyfy -n +916295699213 -p 'all'  
  
=====
```

```
OSINT Framework
```

```
Coded with by Yaiza Rubio & Felix Brezo
```

```
-- Launch 'usufy' against a list of aliases in a file (1 per line) using '-l'. --
```

```
Phoneyfy | Copyright (C) Yaiza Rubio & Felix Brezo (ilvisio) 2016-2020
```

```
This program comes with ABSOLUTELY NO WARRANTY. This is free software, and you are welcome to redistribute it under certain conditions. For additional info, visit https://www.gnu.org/licenses/gpl-3.0.txt.
```

```
2022-01-31 01:38:22.883477 Starting search in different platform(s)... Relax!
```

```
Press <Ctrl + C> to stop ...
```

```
2022-01-31 01:38:47.165563 Results obtained:
```

```
/usr/lib/python3/dist-packages/pyexcel/deprecated.py:208: UserWarning: Deprecated usage since v0.2.1! Explicit import is no longer required. pyexcel.ext.text is auto imported.  
warnings.warn(  
Objects recovered (2022-1-31 1h38m):
```

com.ilvisio.URI	com.ilvisio.Platform
http://www.listaspan.com/busca.php?Telefono=+916295699213	Listaspan

```
2022-01-31 01:38:47.224137 You can find all the information collected in the following files:  
./osintData.csv
```

```
2022-01-31 01:38:47.224168 Finishing execution...
```

```
Total time consumed: 0:00:24.338691
```

```
Did something go wrong? Is a platform reporting false positives? Do you need to integrate a new one and you don't know how to start? Then, you can always place an issue in the Github project:  
https://github.com/ilvisio/osintframework/issues  
Note that otherwise, we won't know about it!
```

```
[~] student@Z0BCAR0246:[~]
```

mailfy

details about the command are as follows

```

File Actions Edit View Help

[student@20BCAR0246]-[~]
$ mailify -h
usage: mailify [-h|--license {license} [-m {emails} [{emails} ...] | -M {emails.file} | -n {cnicks} [{cnicks} ...] | -N {cnicks.file} | --create-emails {cnicks.file}] [-e {sum_ext} [{sum_ext} ...] | -d {candidate_domains} [{candidate_domains} ...] ]
               [-o {path_to_output_folder} [-p {platform} [{platform} ...] | -w {domain} [{domain} ...] | -r {alternative_header_file}] | -t {num_threads} | -q {quiet} | -v {version}]

mailify - Checking the existence of a given mail.

Input options (one required):
  -license {license}          shows the GPLv3 license and exists.
  -m {emails} [{emails} ...]  the list of emails to be checked.
  -M {emails.file}            the file with the list of emails.
  -n {cnicks} [{cnicks} ...]  the list of nicks to be checked in the domains selected.
  -N {cnicks.file}            the file with the list of nicks to be checked in the domains selected.
  --create-emails {cnicks.file} the file with the list of nicks to be created in the domains selected.

Processing arguments:
Configuring the way in which mailify will process the identified profiles.

  -e {sum_ext} [{sum_ext} ...] --extension {sum_ext} [{sum_ext} ...]
                                output extension for the summary files. Default: xls.
  -d {candidate_domains} [{candidate_domains} ...] --domains {candidate_domains} [{candidate_domains} ...]
                                list of domains where the nick will be looked for.
  -o {path_to_output_folder} --output-folder {path_to_output_folder}
                                output folder for the generated documents. While if the paths does not exist, usufy.py will try to create; if this argument is not provided, usufy will NOT write any down any data. Check permissions if
                                something goes wrong.
  -p {platform} [{platform} ...] --platform {platform} [{platform} ...]
                                select the platforms where you want to perform the search among the following: 'all', 'infojobs', 'instagram', 'keyserverio', 'twitter', 'youtube']. More than one option can be selected.
  -r {domain} [{domain} ...] --domains {domain} [{domain} ...]
                                select the domains to be excluded from the search.
  -r {alternative_header_file} --file-header {alternative_header_file}
                                Header for the output filenames to be generated. If None was provided the following will be used: profiles.extension.
  -t {num_threads} --threads {num_threads}
                                write down the number of threads to be used (default 16). If 0, the maximum number possible will be used, which may make the system feel unstable.
  -quiet
                                tells the program not to show anything.

About arguments:
Showing additional information about this program.

  -h, --help          shows this help and exists.
  -version            shows the version of the program and exists.

Check the README.md file for further details on the usage of this program or follow us on Twitter in <http://twitter.com/j3visio>.

[student@20BCAR0246]-[~]
$

```

results executing the command `mailfy -n suman -o suman` are

[illegible]

Figure: Starting Screen

```

Mailfy | Copyright (C) Valra Rubio & Felix Brezo (l3v1s10) 2014-2020

This program comes with ABSOLUTELY NO WARRANTY. This is free software, and you
are welcome to redistribute it under certain conditions. For additional info,
visit <https://www.gnu.org/licenses/agpl-3.0.txt>.

2022-01-31 22:06:42.271793 Step 1/5. Trying to determine if any of the following 4 emails exist using emailhoj3 ...
[
  "suman@protonmail.ch",
  "suman@protonmail.com",
  "suman@ya.ru",
  "suman@yandex.com"
]

Press <Ctrl + C> to skip this step...

main parsing protonmail.ch
addlookup()
make_empty_lookup()
make_empty_lookup() = 0x7f444749000->references = 1
looking up protonmail.ch
lock_lookup dighost.c:4186
success
start_lookup()
setup_lookup(0x7f444749000)
resetting lookup counter.
cloning server list
clone_server_list()
make_server(10.10.8.2)
make_server(8.8.8.8)
using root origin
recursive query
add_question()
starting to render the message
done rendering
create query 0x7f444382000 linked to lookup 0x7f444749000
dighost.c:2883:lookup_attach(0x7f444749000) = 2
dighost.c:2587:new_query(0x7f444382000) = 1
create query 0x7f444382010 linked to lookup 0x7f444749000
dighost.c:2883:lookup_attach(0x7f444749000) = 3
dighost.c:2587:new_query(0x7f444382010) = 1
do_lookup()
start_udp(0x7f444382000)
dighost.c:2937:query_attach(0x7f444382000) = 2
working on lookup 0x7f444749000, query 0x7f444382000
dighost.c:2883:query_attach(0x7f444382000) = 3
unlock_lookup dighost.c:4186
dighost.c:2899:query_attach(0x7f444382000) = 4

```

Figure: Step01

```

list empty
shutting down
dighost_shutdown()
unlock_lookup dighost.c:4093
done, and starting to shut down
cancel_all()
lock_lookup dighost.c:4202
success
unlock_lookup dighost.c:4233
destroy_libs()
freeing task
lock_lookup dighost.c:4253
success
flush_server_list()
destroy DST lib
unlock_lookup dighost.c:4281
Removing log context
Destroy memory
[+] Verification of 'suman@yandex.com' status: Email not found (-1)
[+] Verification of 'suman@protonmail.ch' status: Email not found (-1)
[+] Verification of 'suman@protonmail.com' status: Email not found (-1)
[+] Verification of 'suman@ya.ru' status: Email not found (-1)

2022-01-31 22:07:01.823556 Step 2/5. Checking if the emails have been used to register accounts in 5 platforms ...
[
  "InfoJobs",
  "Instagram",
  "KeyServerIO",
  "Twitter",
  "Youtube"
]

Press <Ctrl + C> to skip this step...

[+] Starting the research of 39 email(s) in 5 platform(s) ... This may take a while.

[+] 1/39 Checking 'suman@yeah.net' ...
Something happened. keyserver.io returned status '503' for 'suman@yeah.net'.

[+] 2/39 Checking 'suman@inbox.com' ...
Something happened. keyserver.io returned status '503' for 'suman@inbox.com'.

[+] 3/39 Checking 'suman@gmx.com' ...
Something happened. keyserver.io returned status '503' for 'suman@gmx.com'.

[+] 4/39 Checking 'suman@mail.ru' ...
Something happened. keyserver.io returned status '503' for 'suman@mail.ru'.

[+] 5/39 Checking 'suman@latimail.com' ...
Something happened. keyserver.io returned status '503' for 'suman@latimail.com'.

```

Figure: Step02

```

[+] 35/39 Checking 'suman@tutanota.de' ...
Something happened. keyserver.io returned status '503' for 'suman@tutanota.de'.

[+] 36/39 Checking 'suman@ya.ru' ...
Something happened. keyserver.io returned status '503' for 'suman@ya.ru'.

[+] 37/39 Checking 'suman@tutanail.com' ...
Something happened. keyserver.io returned status '503' for 'suman@tutanail.com'.

[+] 38/39 Checking 'suman@yandex.ru' ...
Something happened. keyserver.io returned status '503' for 'suman@yandex.ru'.

[+] 39/39 Checking 'suman@mail2tor.com' ...
Something happened. keyserver.io returned status '503' for 'suman@mail2tor.com'.

[+] Linked account found: Twitter - suman@gmx.com
[+] Linked account found: Twitter - suman@mail.ru
[+] Linked account found: Twitter - suman@postlook.com
[+] Linked account found: Twitter - suman@23.com
[+] Linked account found: Twitter - suman@bk.ru
[+] Linked account found: Twitter - suman@gmail.com
[+] Linked account found: Twitter - suman@rediffmail.com

2022-01-31 22:11:52.277840 Step 3/5. Verifying if the provided emails have been leaked somewhere using HaveIBeenPwned.com ...

Press <Ctrl + C> to skip this step...

No API found for HaveIBeenPwned. Request one at <https://haveibeenpwned.com/API/keys> and add it to '/home/student/.config/OSRFramework/api_keys.cfg'.

2022-01-31 22:11:52.389856 Step 4/5. Verifying if the provided emails have been leaked somewhere using Dehashed.com ...

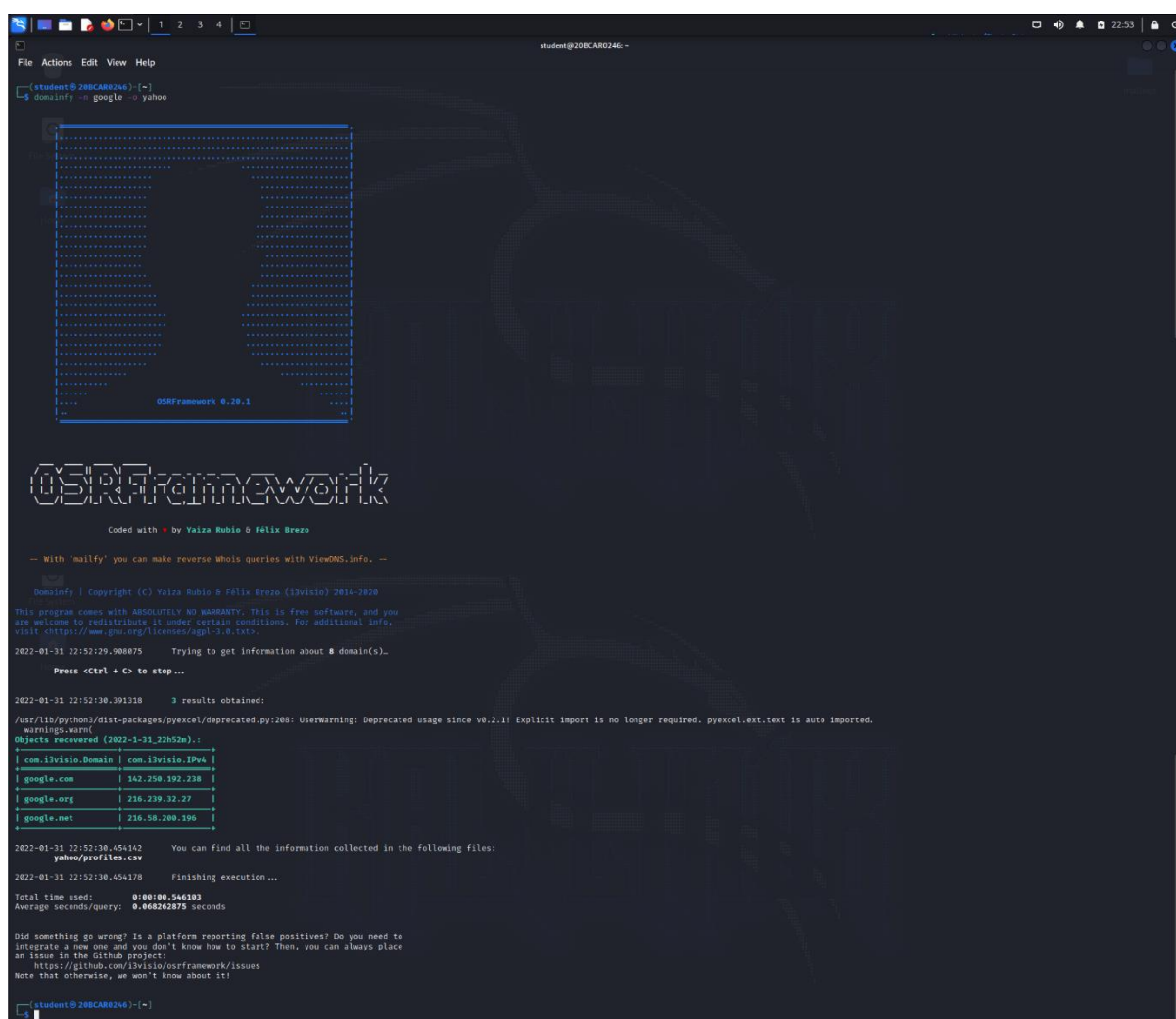
Press <Ctrl + C> to skip this step...

[+] 'suman@yeah.net' has NOT been found on any leak yet.
[+] 'suman@protonmail.ch' has NOT been found on any leak yet.
[+] 'suman@gmx.com' has NOT been found on any leak yet.
[+] 'suman@mail.ru' has NOT been found on any leak yet.
[+] 'suman@latimail.com' has NOT been found on any leak yet.
[+] 'suman@ya.ru' has NOT been found on any leak yet.
[+] 'suman@protonmail.com' has NOT been found on any leak yet.
[+] 'suman@tutanota.de' has NOT been found on any leak yet.
[+] 'suman@tutanail.com' has NOT been found on any leak yet.
[+] 'suman@yandex.ru' has NOT been found on any leak yet.
[+] 'suman@mail2tor.com' has NOT been found on any leak yet.
[+] 'suman@postlook.com' has NOT been found on any leak yet.
[+] 'suman@23.com' has NOT been found on any leak yet.
[+] 'suman@bk.ru' has NOT been found on any leak yet.
[+] 'suman@gmail.com' has NOT been found on any leak yet.
[+] 'suman@rediffmail.com' has NOT been found on any leak yet.

```

Figure: Step03n04

results executing the command `domainfy -n google -o yahoo` are



```
student@20BCAR0246:~$ domainfy -n google -o yahoo

OSRFramework

Coded with ❤ by Yoiza Rubio & Félix Brezo

-- With 'mailfy' you can make reverse Whois queries with ViewDNS.info, --

domainfy | Copyright (C) Yoiza Rubio & Félix Brezo (i2visio) 2014-2020
This program comes with ABSOLUTELY NO WARRANTY. This is free software, and you
are welcome to redistribute it under certain conditions. For additional info,
visit <https://www.gnu.org/licenses/gpl-3.0.txt>.

2022-01-31 22:52:29.908075 Trying to get information about # domain(s)...
Press <Ctrl + C> to stop...

2022-01-31 22:52:30.291118 3 results obtained:
/usr/lib/python3/dist-packages/pyexcel/deprecated.py:208: UserWarning: Deprecated usage since v0.2.1! Explicit import is no longer required. pyexcel.ext.text is auto imported.
warnings.warn(
Objects recovered (2022-01-31 22h52m):
+-----+
| com.i2visio.Domain | com.i2visio.IPv4 |
+-----+
| google.com         | 142.250.192.238  |
+-----+
| google.org         | 216.239.32.27    |
+-----+
| google.net         | 216.58.200.196   |
+-----+

2022-01-31 22:52:30.454342 You can find all the information collected in the following files:
yahoo/profiles.csv

2022-01-31 22:52:30.454178 Finishing execution...

Total time used: 0:00:00.546103
Average seconds/query: 0.466262875 seconds

Did something go wrong? Is a platform reporting false positives? Do you need to
integrate a new one and you don't know how to start? Then, you can always place
an issue in the Github project:
https://github.com/i2visio/osrframework/issues
Note that otherwise, we won't know about it!

student@20BCAR0246:~$
```

Conclusion :

The OSRF is a short form of Open-Source Research Framework, an open-source intelligence collection framework based on GNU set of Python libraries. The main feature of OSRF is its ability to automatically find the maximum passive information about targets in the least possible time. For example, if we need to collect valid email addresses of a specific username from all the popular email service providers, the manual process can take hours to accomplish the task. On the other hand, the OSRF does the same job in a few seconds without human intervention. The framework provides the same facility for all the features it offers (domains search, phone number records, user profiles, etc.). All these tasks are performed using the following modules.

After performing the procedures and steps correctly we saw how easy to collect any profile, Domain and, Email Address on different platforms from the internet using this OSRFramework. This tool is easy to understand and collect good amount of data in less time.