Lab 4 OSRFramework



Homework Objectives

PLAGIARISM WILL NOT BE TOLERATED AND WILL RESULT IN 0

Upon completion of this lab, you will be able to perform the following:

- Use Kali Linux Terminal Emulator and command line interface;
- Install applications using APT (Advanced Package Tool);
- Install OSRFramework;
- Use OSRFramework to perform OSINT (Open Source Intelligence) tasks;

Lab Materials

Kali Linux;

Lab Instructions

- Start Kali Linux VM;
- Open Terminal Emulator:
- Use CLI (Command-line interface) to install ethical hacking tools;
- Enter your name and student ID above (Example: Boris Loza bloza);
- Answer questions and add screenshots into the corresponding textboxes;
- Save the file on your computer for future reference;
- Save the file again as a ".pdf" file;
- Submit the PDF file for grading.

Part 1: OSRFramework Overview

OSRFramework (Open Sourse Research Framework) is a set of libraries developed by i3visio to perform Open Source Intelligence (OSINT) collection tasks. They include applications related to username checking, DNS lookups, information leaks research, deep web search, regular expressions extraction and many others.

Source: https://github.com/i3visio/osrframework

Tools included in the OSRFramework package:

- 1) usufy.py checks for a user profile in up to 290 different platforms;
- 2) mailfy.py Check for the existence of a given mail;
- 3) searchfy.py Performs a query on the platforms in OSRFramework;
- 4) domainfy.py Checks for the existence of domains;
- 5) phonefy.py Checks for the existence of a given series of phones;
- 6) entify.py Use regular expressions to extract entities;

Interfaces:

- 1) osrfconsole.py Open Sources Research Framework console interface:
- 2) osrframework_server.py Open Sources Research Framework web interface

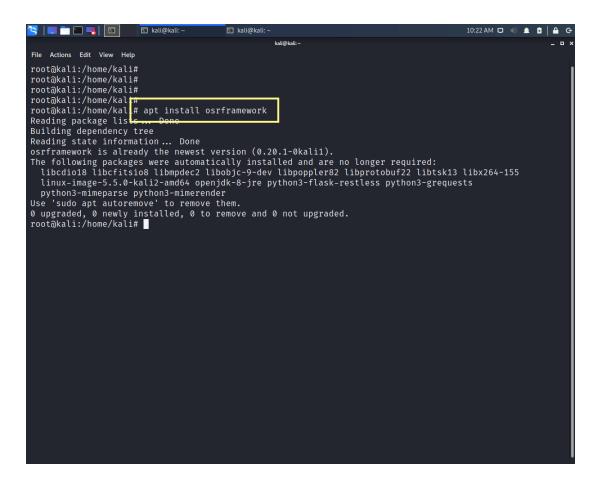
Part 2: Installing OSRFramework

- 1. Login into Kali Linux with username:password kali:kali
- 2. Open **Terminal Emulator** and type the following command, when prompted type the root password *kali*:

sudo su

- 3. You will become a **root** user the superuser. Be careful when you work as a superuser! Root user is the most powerful UNIX user. Working as a root user is not recommended but, in this exercise, it is much easier to works as a root user. Note that your prompt has changed to "#" (root user), instead of "\$" (regular user).
- 4. Type the following command to install OSRFramework:

apt install osrframework



5. After the installation, type the following:

osrframework-cli

```
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                        🔼 kali@kali: ~
                                            🔼 kali@kali: ~
                                                                                                  10:26 AM □ ♠ ♠ 🖟 | 🖴 G
                                                       kali@kali: ~
File Actions Edit View Help
root@kali:/home/kali# osrframework-cli
usage: osrf [-h] [--li<del>cense] [ versio</del>
                                    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.
    checkfy
                           Verifies if a given email address matches a pattern.
                          Checks whether domain names using words and nicknames are available.
Gets information about email accounts.
    domainfy
    mailfy
    phonefy
                          Looks for information linked to spam practices by a phone number.
    searchfy
                          Performs queries on several platforms.
                           Looks for registered accounts with given nicknames.
    usufy
    upgrade
                           Updates the module.
ABOUT ARGUMENTS:
  Showing additional information about this program.
  -h, --help
--license
                           shows this help and exists.
                           shows the AGPLv3+ 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 <a href="http://twitter.com/i3visio">http://twitter.com/i3visio</a>. root@kali:/home/kali#
```

6. Read the list of available commands and what they do.

Part 3: Working with OSRFramework

- Review the list of the available commands.
- 2. Type the following command:

```
usufy -h
usufy -n senecacollege
```

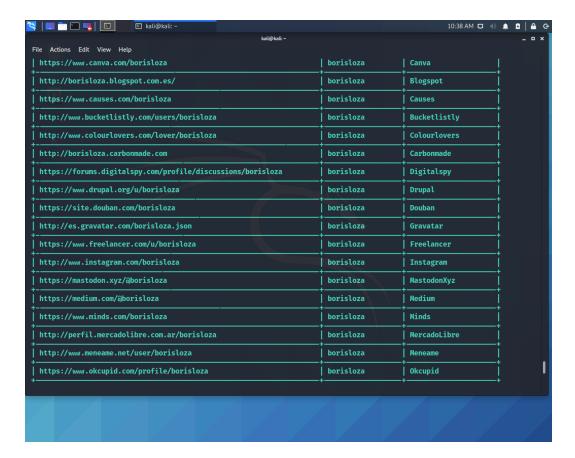
- Review the list of platforms to perform user profile search and the usage of this command.
- 4. Type the following and check the command syntax:

usufy

5. Type:

usufy -n <your_username>

For example, typing "usufy -n borisloza" will produce the following output:



- 6. Take a screenshot of *usufy* command output, using **your own name** and insert it below.
- 7. searchfy: Search for the keyword in Facebook, GitHub, Instagram, Twitter, and YouTube.
- \$ searchfy -q "senecacollege"
- 8. In your own words, why is OSINT useful?
- 9. Answer the following question:



What does the usufy command do in OSRFramework?

Try other commands:

mailfy: Identify the keyword and add the email domains to the end of the keyword, and automatically search in haveibeenpawned.com with an API call:

mailfy -n <<mark>your_name</mark>> (e.g. mailfy -n johndaw)

domainfy -n senecacollege

10. answer the following question:



What does the domainfy command do in OSRFramework?

Part 4: Submit your Lab (Use the lab submission template)



- Doublecheck all your answers.
- Save the file on your computer for future reference.
- Save the file again as a ".pdf" file.
- Submit the PDF file for grading.