# **Project Name:**

# CYBER WARFARE ATTACKER

**Course:** 

RTS77381

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## Objectives

Project Cyber Warfare - Attacker - an attack tool to run on a remote server 24/7 and have the following capabilities:

#### 1. Scanning and Enumeration

- -The code should scan and enumerate random ports and IPs
- -Scanning can be done by Shodan, Masscan, and Nmap (This version only nmap!!).

#### 2. Brute Force

-five login services to brute force (chosen: ssh ftp smb smtp irc).

#### 3. Exploit Analysis

- Run infrastructure exploits analysis using NSE and Banner Grabbing.

#### 4. Logs and Reports

- -Logs should be displayed via the webserver.
- -Government IPs should be saved in sensitive.log. (Government IPs sensitive list in this version only for IR Iran)

#### 5. General

- -Prepare the server to be anonymous.
- -The server should be able to scan 24/7 an entire country (countries in this version: IL Israel and IR Iran)

## Requirements

There are three program modules:

#### attacker.sh:

- Internet Connection
- Running Linux
- Root privileges user

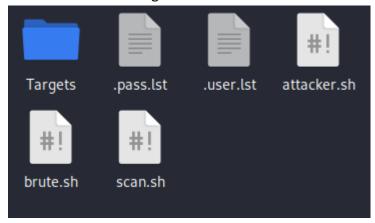
#### scan.sh:

• Targets folder and files (a target list and a sensitive target list)

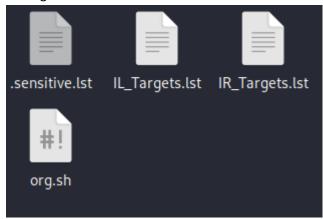
#### brute.sh:

• Files .user.lst and .pass.lst - lists of common usernames and passwords. User can configure as desired.

## Needed files in running folder:



#### In Targets:



Run attacker.sh with root privileges:

```
(kali@kali)-[~/Desktop/red/projects/attacker]
sudo ./attacker.sh
```

#### User manual

#### Description

The user interface is an advanced menu-based command line interface (CLI). After running the main program, the user can simply enter and choose the prompted options and follow the intuitive steps using the displayed menu.

The program is immune to Ctrl+C (exit) from the user, by implementing the controlled trap. The program creates temporary files to help the implementation of the various commands. On program exit, all temporary created files are deleted from system.

#### User Interface

#### Main menu:

```
[-] Tool Created by Tomer Dahan

[::] Select Your Desired Country To Activate This Tool On[::]

[01] Israel
[02] Iran
[03] Custom IP range

[99] About

[00] Exit
[-] Select an option :
```

! Warning! - When choosing either countries, the program will run for a long period of time seeing that their IP list are long and contain up to 350,000 IP targets.

It is recommended to use and enter a custom IP list.

#### Workflow example

This example uses the custom IP range as recommended above:

Enter Your desired IP range (in this example 192.168.198.128-192.168.198.130):

```
[-] Tool Created by Tomer Dahan
[::] Select Your Desired Country To Activate This Tool On[::]

[01] Israel
[02] Iran
[03] Custom IP range

[99] About
[00] Exit
[-] Select an option : 3

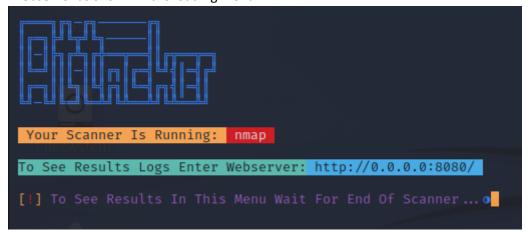
[*] Enter Your Custom IP range (example: first - 192.168.198.1 last - 192.168.198.254)
[-] Enter the first ip in your desired ip range (only class C subnet mask: 255.255.255.0): 192.168.198.130
[-] Enter the last ip in your desired ip range (only class C subnet mask: 255.255.255.0): 192.168.198.130
```

Next, select a scanner (in this version only Nmap is configured):

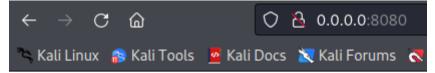
Next, the server prepares to be anonymous. Wait till finished and press Enter.



Now, the server started scanning and brute forcing. To see progress and results enter to Webserver as shown in the loading menu.

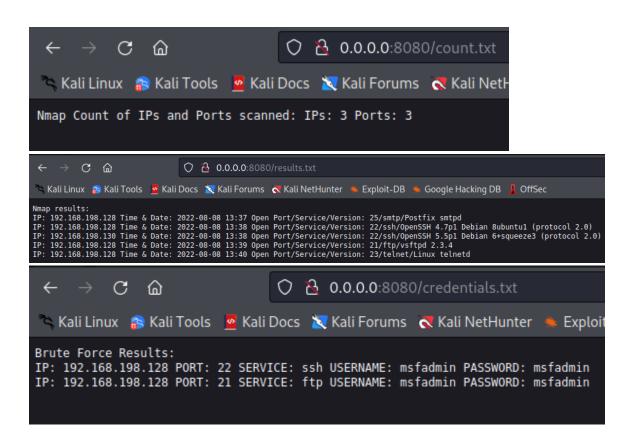


Here are examples of program self-generated results displayed in the webserver.



# Directory listing for /

- .sensitive.txt
- attempts.txt
- count.txt
- credentials.txt
- results.txt
- vul.txt



When the server ends scanning and brute forcing all of the IP range, the program will display in terminal the result menu. The result menu and the webserver in this stage are similar.



Here are examples of seeing results in the result menu.

```
Ref: https://rdap.arin.net/registry/entity/IANA
OrgAbuseHandle: IANA-IP-ARIN
orgAbuseAname: IANA-1F-ARIN
OrgAbuseName: ICANN
OrgAbusePhone: +1-310-301-5820
OrgAbuseEmail: abuse@iana.org
OrgAbuseRef: https://rdap.arin.net/registry/entity/IANA-IP-ARIN
OrgTechHandle: IANA-IP-ARIN
    192.168.198.128
    192.168.198.128
192.168.198.128
 [-] Select data to see: 5
 IP: 192.168.198.128 Port: 25 Version: Postfix smtpd Vulnerabilities:
  Exploit Title
                                                                                    Path
            Server 1.1 - Crash (PoC)
                                                                                  windows/dos/14990.txt
Alt-N MDaemon 6.5.1 - IMAP/SMTP Remote Buffer |
Alt-N MDaemon 6.5.1 SMTP Server - Multiple Co |
Alt-N MDaemon Server 2.71 SP1 - SMTP HELO Arg |
Apache James Server 2.2 - SMTP Denial of Serv |
BaSoMail 1.24 - SMTP Server Command Buffer Ov |
BaSoMail Server 1.24 - POP3/SMTP Remote Denia |
BasoMail Server 6.0 1 5 - Remote Buffer Overf |
                                                                                  windows/remote/473.c
                                                                                  windows/remote/24624.c
                                                                                  windows/dos/23146.c
                                                                                  multiple/dos/27915.pl
                                                                                  windows/dos/22668.txt
                                                                                  windows/dos/594.pl
                                                                                  windows/dos/1721.pl
          ITP Server < 0.1.5 - Remote Buffer Overf
Blat 2.7.6 SMTP / NNTP Mailer - Local Buffer
                                                                                  windows/local/38472.py
BulletProof FTP Server 2019.0.0.50 - 'SMTP Se | Cisco PIX Firewall 4.x/5.x - SMTP Content Fil |
                                                                                  windows/dos/46422.py
                                                                                  hardware/remote/20231.txt
                                                                                  windows/remote/4949.txt
Citadel:
                    7.10 - Remote Overflow
                                                                                  linux/remote/20994.txt
Cobalt Raq3 PopRelayD - Arbitrary
                                                                  Relay
```

```
| Brute Force Results:
| IP: 192.168.198.128 PORT: 22 SERVICE: ssh USERNAME: msfadmin PASSWORD: msfadmin | IP: 192.168.198.128 PORT: 21 SERVICE: ftp USERNAME: msfadmin PASSWORD: msfadmin | IP: 192.168.198.128 PORT: 21 SERVICE: ftp USERNAME: msfadmin PASSWORD: msfadmin | IP: 192.168.198.128 PORT: 25 SERVICE: smtp | IP: 192.168.198.128 | IP: 192.168.19
```

#### About menu



## Programmer manual

#### attacker.sh

• Main code, contains the Menu.

#### Global variables:

• ANSI colors – font and background colors

```
## ANSI colors (FG & BG)

RED="$(printf '\033[31m')" GREEN="$(printf '\033[32m')" ORANGE="$(printf '\033[33m')" BLUE="$(printf '\033[34m')" MAGENTA="$(printf '\033[35m')" CYAN="$(printf '\033[36m')" WHITE="$(printf '\033[37m')" BLACK="$(printf '\033[30m')" REDBG="$(printf '\033[41m')" GREENBG="$(printf '\033[42m')" ORANGEBG="$(printf '\033[43m')" BLUEBG="$(printf '\033[44m')" MAGENTABG="$(printf '\033[45m')" CYANBG="$(printf '\033[45m')" WHITEBG="$(printf '\033[47m')" BLACKBG="$(printf '\033[40m')" RESETBG="$(printf '\063[47m')" BLACKBG="$(printf '\063[47m']" BLACKBG="$(printf '\063
```

• Country/Scanner Type – Sets default – user can configure

```
#Global vars
Country='IL'
Scanner Type='nmap'
```

• Immune to ctrl+c – trap command

```
##immune to ctrl+c
trap '' INT
```

Creating startup directories

```
#create necessary directories
#logs for viewing logs in terminal with ANSI colors
#txt for viewing logs in webserver
mkdir ./logs
mkdir ./logs/txt
```

#### Start of Program:

```
##start of program main menu
```

# Functions (attacker.sh):

| reset_color() icon() icon() the script name icon and creater icon_small() check_if_ip_addr() check_if_ip_addr() check_if_ip_addr() check_if_ip_addr() check_if_ip_addr() check_if_ip_addr() checks if input of ip is valid \$1 as ip that is being checked ip_information() The user should be able to choose an IP address from the found data, and the server should display: Whois Information, Ports and Services and Login Services. \$1 as ip that user entered install_nipe() Installation of nipe print_country_after_nipe() print_country_after_nipe() print_your current ip origin country change_ip() start Nipe check_ano_change() stop_nipe() stop_nipe() remove_trash() removes all trash files and directories at end of program kill_procs() kills all thread processes at end of program msg_exit() Exit message update_files() update_files() update_files() update_slifes that are displayed via webserver as long as scan.sh is running web_setup() start webserver on directory_/log/txt waiting() Waits for scan.sh to finish while printing on screen loading spinner start_scanner() Firsts checks if ip is anonymous Initializes files /logs/credentials.log and _/logs/attempts.log for brute force logs (brute.sh) Runs scan.sh as a thread and captures the thread pid  custom_ip_list() Creates custom ip list for user using the script/Targets/org.sh User requires to enter first and last ip in desired ip range result_menu() Result selection menu tunnel_menu() main_menu() about() About menu  | Function Name      | Description                             |
|---|--------------------|---|
| icon_small()  Check_if_ip_addr()  Check_if_ip_addr()  Checks if input of ip is valid \$1 as ip that is being checked  Ip_information()  The user should be able to choose an IP address from the found data, and the server should display: Whois Information, Ports and Services and Login Services. \$1 as ip that user entered  install_nipe()  Installation of nipe  print_country_after_nipe()  change_ip()  start Nipe  check_ano_change()  stop_nipe()  stops_nipe  remove_trash()  removes all trash files and directories at end of program  kill_procs()  kills all thread processes at end of program  msg_exit()  update_files()  update_files()  updates all files that are displayed via webserver as long as scan.sh is running web_setup()  waiting()  Waits for scan.sh to finish while printing on screen loading spinner  start_scanner()  Firsts checks if ip is anonymous Initializes files ,/logs/credentials.log and ./logs/attempts.log for brute force logs (brute.sh) Runs scan.sh as a thread and captures the thread pid  custom_ip_list()  Creates custom ip list for user using the script/Targets/org.sh User requires to enter first and last ip in desired ip range  result_menu()  Result selection main_menu()  Tunnel selection main_menu()   | reset_color()      | Reset terminal colors                   |
| check_if_ip_addr()  check_if_ip_addr()  check_if_ip_addr()  ip_information()  The user should be able to choose an IP address from the found data, and the server should display:  Whois Information, Ports and Services and Login Services.  \$1 as ip that user entered  install_nipe()  print_country_after_nipe()  change_ip()  check_ano_change()  stop_nipe()  remove_trash()  removes all trash files and directories at end of program  kill_procs()  wills all thread processes at end of program  msg_exit()  update_files()  update_files()  web_setup()  start_webserver on directory ./log/txt  waiting()  waiting()  custom_ip_list()  custom_ip_list()  Creates custom ip list for user using the script/Targets/org.sh  User requires to enter first and last ip in desired image.  | icon()             | the script name icon and creater        |
| \$1 as ip that is being checked  ip_information()  The user should be able to choose an IP address from the found data, and the server should display: Whois Information, Ports and Services and Login Services. \$1 as ip that user entered  install_nipe()  | icon_small()       | Small icon                              |
| ip_information()  The user should be able to choose an IP address from the found data, and the server should display:  Whois Information, Ports and Services and Login Services.  \$1 as ip that user entered  install_nipe()  print_country_after_nipe()  change_ip()  start Nipe  check_ano_change()  stop_nipe()  remove_trash()  remove_trash()  kill_procs()  kills all thread processes at end of program  kill_procs()  update_files()  update_files()  update_files()  web_setup()  start webserver on directory ./log/txt  waiting()  start_scanner()  Firsts checks if pis anonymous  Initializes files ./logs/credentials.log and ./logs/attempts.log for brute force logs (brute.sh)  Runs scan.sh as a thread and captures the thread pid  custom_ip_list()  Creates custom ip list for user using the script/Targets/org.sh  User requires to enter first and last ip in desired ip range  result_menu()  Result selection menu  tunnel_menu()  main_menu()  main_menu()  main_menu()   | check_if_ip_addr() | checks if input of ip is valid          |
| address from the found data, and the server should display: Whois Information, Ports and Services and Login Services. \$1 as ip that user entered  install_nipe()   |                    | \$1 as ip that is being checked         |
| server should display: Whois Information, Ports and Services and Login Services. \$1 as ip that user entered  install_nipe() print_country_after_nipe() change_ip() check_ano_change() start Nipe check_ano_change() stop_nipe() remove_trash() removes all trash files and directories at end of program kill_procs() kills all thread processes at end of program  msg_exit() Exit message update_files() update_files() update_soling as scan.sh is running web_setup() waiting() Waits for scan.sh to finish while printing on screen loading spinner  start_scanner() Firsts checks if ip is anonymous Initializes files ./logs/credentials.log and ./logs/attempts.log for brute force logs (brute.sh) Runs scan.sh as a thread and captures the thread pid  custom_ip_list() Creates custom ip list for user using the script/Targets/org.sh User requires to enter first and last ip in desired ip range result_menu() Result selection menu tunnel_menu() main_menu() main_menu() main_menu()  | ip_information()   | The user should be able to choose an IP |
| Whois Information, Ports and Services and Login Services. \$1 as ip that user entered  install_nipe() print_country_after_nipe() print_country_after_nipe() print_country_after_nipe() change_ip() start Nipe check_ano_change() stop_nipe() remove_trash()  removes all trash files and directories at end of program  kill_procs() kills all thread processes at end of program  msg_exit() updates all files that are displayed via webserver as long as scan.sh is running web_setup() start webserver on directory ./log/txt waiting() Waits for scan.sh to finish while printing on screen loading spinner  start_scanner() Firsts checks if ip is anonymous Initializes files ./logs/credentials.log and ./logs/attempts.log for brute force logs (brute.sh) Runs scan.sh as a thread and captures the thread pid  custom_ip_list() Creates custom ip list for user using the script/Targets/org.sh User requires to enter first and last ip in desired ip range  result_menu() Result selection main_menu() main_menu()   |                    | <u>'</u>                                |
| and Login Services. \$1 as ip that user entered  install_nipe()  print_country_after_nipe()  change_ip()  start Nipe  check_ano_change()  stop_nipe()  remove_trash()  msg_exit()  update_files()  waiting()  start_scanner()  start_scanner()  firsts checks if ip is anonymous  Initializes files ./logs/credentials.log and ./logs/attempts.log for user using the script/Targets/org.sh User requires to enter first and last ip in desired ip range  result_menu()  main_menu()  minty our current ip origin country  print your current ip origin country  start Nipe  checks if current ip is IL if true changes ip  remove_tranh files ./log for directories at end of program  kill procs()  kills all thread processes at end of program  Exit message  updates all files that are displayed via webserver as long as scan.sh is running  web_setup()  waits for scan.sh to finish while printing on screen loading spinner  start_scanner()  Firsts checks if ip is anonymous Initializes files ./logs/credentials.log and ./logs/attempts.log for brute force logs (brute.sh) Runs scan.sh as a thread and captures the thread pid  custom_ip_list()  Creates custom ip list for user using the script/Targets/org.sh User requires to enter first and last ip in desired ip range  |                    | ' '                                     |
| \$1 as ip that user entered  install_nipe()  print_country_after_nipe()  print_country_after_nipe()  change_ip()  check_ano_change()  stop_nipe()  remove_trash()  install_nipe()  by stop_nipe()  remove_trash()  install_nipe()  check_ano_change()  stop_nipe()  remove_trash()  install_nipe()  check_ano_change()  stop_nipe()  remove_trash()  install_nipe()  stop_nipe()  remove_trash()  install_nipe()  stop_nipe()  remove_trash()  install_nipe()  stop_nipe()  remove_trash files and directories at end of program  kill_procs()  kills all thread processes at end of program  msg_exit()  install_nipe()  install_nipe()  start_message  updates_all files that are displayed via webserver as long as scan.sh is running  web_setup()  waits for scan.sh to finish while printing on screen loading spinner  start_scanner()  Firsts_checks if ip is anonymous Initializes files_/logs/credentials.log and ./logs/attempts.log for brute force logs (brute.sh) Runs scan.sh as a thread and captures the thread pid  custom_ip_list()  Creates_custom ip_list for user using the script - /Targets/org.sh User requires to enter first and last ip in desired ip range  result_menu()  Result_selection menu  tunnel_menu()  main_menu()  main_menu()  main_menu()  main_menu()  |                    | 1                                       |
| install_nipe()  print_country_after_nipe()  print_country_after_nipe()  change_ip()  check_ano_change()  stop_nipe()  remove_trash()  msg_exit()  update_files()  waiting()  start_scanner()  start_scanner()  custom_ip_list()  custom_ip_list()  custom_ip_list()  custom_ip_list()  custom_ip_list()  custom_ip_list()  custom_ip_list()  print your current ip origin country  start Nipe  checks if current ip is IL if true changes ip  stop_nipe()  stops nipe  removes all trash files and directories at end of program  kill_procs()  kills all thread processes at end of  program  Exit message  updates all files that are displayed via webserver as long as scan.sh is running  web_setup()  start webserver on directory ./log/txt  Waits for scan.sh to finish while printing on screen loading spinner  start_scanner()  Firsts checks if ip is anonymous  Initializes files ./logs/credentials.log and ./logs/attempts.log for brute force logs (brute.sh)  Runs scan.sh as a thread and captures the thread pid  custom_ip_list()  Creates custom ip list for user using the script/Targets/org.sh  User requires to enter first and last ip in desired ip range  result_menu()  Result selection menu  tunnel_menu()  main_menu()  main_menu()   |                    | <u> </u>                                |
| print_country_after_nipe()  change_ip()  check_ano_change()  start Nipe  check_ano_change()  stop_nipe()  remove_trash()  msg_exit()  update_files()  web_setup()  start_scanner()  start_scanner()  custom_ip_list()  custom_ip_list()  custom_ip_list()  custom_ip_list()  remove_trash()  print your current ip origin country  start Nipe  checks if current ip is IL if true changes ip  stop_nipe()  start stop nipe()  start med spand directories at end of program  lithered processes at end of program  start_scall thread pical stop nipe and nipe |                    | ·                                       |
| change_ip()  check_ano_change()  stop_nipe()  remove_trash()  remove_sall trash files and directories at end of program  kill_procs()  kills all thread processes at end of program  msg_exit()  update_files()  web_setup()  start webserver as long as scan.sh is running  web_setup()  start webserver on directory ./log/txt  waiting()  start_scanner()  Firsts checks if ip is anonymous  Initializes files ./logs/credentials.log and  ./logs/attempts.log for brute force logs  (brute.sh)  Runs scan.sh as a thread and captures the thread pid  custom_ip_list()  Creates custom ip list for user using the script/Targets/org.sh  User requires to enter first and last ip in desired ip range  result_menu()  Result selection menu  Tunnel selection  main_menu()  main_menu()  main_menu()  main_menu()   |                    | ·                                       |
| check_ano_change()  stop_nipe()  remove_trash()  remove_trash()  removes all trash files and directories at end of program  kill_procs()  kill_procs()  kills all thread processes at end of program  msg_exit()  Exit message  update_files()  update_files()  updates all files that are displayed via webserver as long as scan.sh is running  web_setup()  waiting()  Waits for scan.sh to finish while printing on screen loading spinner  start_scanner()  Firsts checks if ip is anonymous  Initializes files ./logs/credentials.log and ./logs/attempts.log for brute force logs (brute.sh)  Runs scan.sh as a thread and captures the thread pid  custom_ip_list()  Creates custom ip list for user using the script/Targets/org.sh  User requires to enter first and last ip in desired ip range  result_menu()  Result selection menu  tunnel_menu()  main_menu()  main_menu()  main_menu()  main_menu()   |                    |   |
| stop_nipe()  remove_trash()  remove_trash()  removes all trash files and directories at end of program  kill_procs()  kills all thread processes at end of program  msg_exit()  Exit message  update_files()  updates all files that are displayed via webserver as long as scan.sh is running  web_setup()  start webserver on directory ./log/txt  waiting()  Waits for scan.sh to finish while printing on screen loading spinner  start_scanner()  Firsts checks if ip is anonymous Initializes files ./logs/credentials.log and ./logs/attempts.log for brute force logs (brute.sh)  Runs scan.sh as a thread and captures the thread pid  custom_ip_list()  Creates custom ip list for user using the script/Targets/org.sh User requires to enter first and last ip in desired ip range  result_menu()  Result selection menu  tunnel_menu()  main_menu()  main_menu()  main_menu()  |                    | ·                                       |
| remove_trash()  removes all trash files and directories at end of program  kill_procs()  kills all thread processes at end of program  msg_exit()  program  Exit message  update_files()  updates all files that are displayed via webserver as long as scan.sh is running  web_setup()  waiting()  Waits for scan.sh to finish while printing on screen loading spinner  start_scanner()  Firsts checks if ip is anonymous  Initializes files ./logs/credentials.log and ./logs/attempts.log for brute force logs (brute.sh)  Runs scan.sh as a thread and captures the thread pid  custom_ip_list()  Creates custom ip list for user using the script/Targets/org.sh  User requires to enter first and last ip in desired ip range  result_menu()  Result selection menu  Tunnel selection  main_menu()  main_menu()  |                    | ·                                       |
| end of program  | stop_nipe()        | Stops nipe                              |
| kill_procs()  kills all thread processes at end of program  Exit message  update_files()  updates all files that are displayed via webserver as long as scan.sh is running  web_setup()  start webserver on directory ./log/txt  waiting()  Waits for scan.sh to finish while printing on screen loading spinner  start_scanner()  Firsts checks if ip is anonymous  Initializes files ./logs/credentials.log and ./logs/attempts.log for brute force logs (brute.sh)  Runs scan.sh as a thread and captures the thread pid  custom_ip_list()  Creates custom ip list for user using the script/Targets/org.sh  User requires to enter first and last ip in desired ip range  result_menu()  Result selection menu  tunnel_menu()  main_menu()  main_menu()   | remove_trash()     |   |
| msg_exit()  msg_exit()  update_files()  updates all files that are displayed via webserver as long as scan.sh is running  web_setup()  start webserver on directory ./log/txt  waiting()  waits for scan.sh to finish while printing on screen loading spinner  start_scanner()  Firsts checks if ip is anonymous Initializes files ./logs/credentials.log and ./logs/attempts.log for brute force logs (brute.sh)  Runs scan.sh as a thread and captures the thread pid  custom_ip_list()  Creates custom ip list for user using the script/Targets/org.sh  User requires to enter first and last ip in desired ip range  result_menu()  Result selection menu  tunnel_menu()  main_menu()  main_menu()  |                    |   |
| msg_exit()  update_files()  update_files()  updates all files that are displayed via webserver as long as scan.sh is running  web_setup()  start webserver on directory ./log/txt  waiting()  Waits for scan.sh to finish while printing on screen loading spinner  start_scanner()  Firsts checks if ip is anonymous Initializes files ./logs/credentials.log and ./logs/attempts.log for brute force logs (brute.sh)  Runs scan.sh as a thread and captures the thread pid  custom_ip_list()  Creates custom ip list for user using the script/Targets/org.sh  User requires to enter first and last ip in desired ip range  result_menu()  Result selection menu  tunnel_menu()  main_menu()  main_menu()  main menu   | kill_procs()       | ·                                       |
| update_files()  updates all files that are displayed via webserver as long as scan.sh is running  web_setup()  start webserver on directory ./log/txt  Waiting()  Waits for scan.sh to finish while printing on screen loading spinner  start_scanner()  Firsts checks if ip is anonymous Initializes files ./logs/credentials.log and ./logs/attempts.log for brute force logs (brute.sh) Runs scan.sh as a thread and captures the thread pid  custom_ip_list()  Creates custom ip list for user using the script/Targets/org.sh User requires to enter first and last ip in desired ip range  result_menu()  Result selection menu  tunnel_menu()  main_menu()  main menu  |                    |   |
| webserver as long as scan.sh is running  web_setup()  start webserver on directory ./log/txt  waiting()  Waits for scan.sh to finish while printing on screen loading spinner  start_scanner()  Firsts checks if ip is anonymous Initializes files ./logs/credentials.log and ./logs/attempts.log for brute force logs (brute.sh) Runs scan.sh as a thread and captures the thread pid  custom_ip_list()  Creates custom ip list for user using the script/Targets/org.sh User requires to enter first and last ip in desired ip range  result_menu()  Result selection menu  tunnel_menu()  main_menu()  main_menu()  main menu  |                    |   |
| web_setup()       start webserver on directory ./log/txt         waiting()       Waits for scan.sh to finish while printing on screen loading spinner         start_scanner()       Firsts checks if ip is anonymous Initializes files ./logs/credentials.log and ./logs/attempts.log for brute force logs (brute.sh)         Runs scan.sh as a thread and captures the thread pid         custom_ip_list()       Creates custom ip list for user using the script/Targets/org.sh         User requires to enter first and last ip in desired ip range         result_menu()       Result selection menu         tunnel_menu()       Tunnel selection         main_menu()       main menu   | update_files()     | 1                                       |
| waiting()  Waits for scan.sh to finish while printing on screen loading spinner  Start_scanner()  Firsts checks if ip is anonymous Initializes files ./logs/credentials.log and ./logs/attempts.log for brute force logs (brute.sh) Runs scan.sh as a thread and captures the thread pid  custom_ip_list()  Creates custom ip list for user using the script/Targets/org.sh User requires to enter first and last ip in desired ip range  result_menu()  Result selection menu  tunnel_menu()  main_menu()  main_menu()  main menu  |                    |   |
| on screen loading spinner  Firsts checks if ip is anonymous Initializes files ./logs/credentials.log and ./logs/attempts.log for brute force logs (brute.sh) Runs scan.sh as a thread and captures the thread pid  custom_ip_list()  Creates custom ip list for user using the script/Targets/org.sh User requires to enter first and last ip in desired ip range  result_menu()  Result selection menu  tunnel_menu()  Tunnel selection  main_menu()  main_menu  |                    |   |
| start_scanner()  Firsts checks if ip is anonymous Initializes files ./logs/credentials.log and ./logs/attempts.log for brute force logs (brute.sh) Runs scan.sh as a thread and captures the thread pid  custom_ip_list()  Creates custom ip list for user using the script/Targets/org.sh User requires to enter first and last ip in desired ip range  result_menu()  Result selection menu  tunnel_menu()  main_menu()  main_menu()  Tunnel selection  | waiting()          |   |
| Initializes files ./logs/credentials.log and ./logs/attempts.log for brute force logs (brute.sh) Runs scan.sh as a thread and captures the thread pid  custom_ip_list()  Creates custom ip list for user using the script/Targets/org.sh User requires to enter first and last ip in desired ip range  result_menu()  Result selection menu  tunnel_menu()  Tunnel selection  main_menu()   | start cooper()     |   |
| ./logs/attempts.log for brute force logs (brute.sh) Runs scan.sh as a thread and captures the thread pid  custom_ip_list() Creates custom ip list for user using the script/Targets/org.sh User requires to enter first and last ip in desired ip range result_menu() Result selection menu  tunnel_menu() Tunnel selection main_menu() main_menu()   | start_scanner()    | 1                                       |
| (brute.sh) Runs scan.sh as a thread and captures the thread pid  custom_ip_list() Creates custom ip list for user using the script/Targets/org.sh User requires to enter first and last ip in desired ip range  result_menu() Result selection menu  tunnel_menu() Tunnel selection main_menu() main_menu()   |                    |   |
| Runs scan.sh as a thread and captures the thread pid  custom_ip_list()  Creates custom ip list for user using the script/Targets/org.sh  User requires to enter first and last ip in desired ip range  result_menu()  Result selection menu  tunnel_menu()  Tunnel selection  main_menu()  main_menu()  |                    | , , ,                                   |
| thread pid  custom_ip_list()  Creates custom ip list for user using the script/Targets/org.sh User requires to enter first and last ip in desired ip range  result_menu()  Result selection menu  tunnel_menu()  Tunnel selection  main_menu()  main_menu()   |                    | 1 ` '                                   |
| custom_ip_list()  Creates custom ip list for user using the script/Targets/org.sh  User requires to enter first and last ip in desired ip range  result_menu()  Result selection menu  tunnel_menu()  Tunnel selection  main_menu()  main_menu()  |                    | •                                       |
| script/Targets/org.sh User requires to enter first and last ip in desired ip range result_menu() Result selection menu tunnel_menu() Tunnel selection main_menu() main_menu   | custom in list()   | ·                                       |
| User requires to enter first and last ip in desired ip range  result_menu()  Result selection menu  tunnel_menu()  Tunnel selection  main_menu()  main_menu   |                    | ,                                       |
| desired ip range result_menu() Result selection menu tunnel_menu() Tunnel selection main_menu() main menu   |                    |   |
| tunnel_menu()  Tunnel selection  main_menu()  main menu   |                    | 1                                       |
| main_menu() main menu   | result_menu()      | Result selection menu                   |
| main_menu() main menu   | tunnel_menu()      | Tunnel selection                        |
| = "   | main_menu()        | main menu                               |
|   | about()            | About menu                              |

#### scan.sh

- A thread program for attacker.sh
- Mapping ports, services, versions and versions vulnerabilities of the ip.

#### Global variables:

ANSI colors – font and background colors

```
## ANSI colors (FG & BG)

RED="$(printf '\033[31m')" GREEN="$(printf '\033[32m')" ORANGE="$(printf '\033[33m')" BLUE="$(printf '\033[34m')" MAGENTA="$(printf '\033[35m')" CYAN="$(printf '\033[36m')" WHITE="$(printf '\033[37m')" BLACK="$(printf '\033[30m')" REDBG="$(printf '\033[41m')" GREENBG="$(printf '\033[42m')" ORANGEBG="$(printf '\033[43m')" BLUEBG="$(printf '\033[44m')" MAGENTABG="$(printf '\033[45m')" CYANBG="$(printf '\033[46m')" WHITEBG="$(printf '\033[47m')" BLACKBG="$(printf '\033[40m')" RESETBG="$(printf '\033[47m')" RESETBG="$(printf '\033[47m']" RESETBG="$(printf '\033[47m']" RESETBG="$(printf '\033
```

- \$1 target list entered from attacker.sh
- Port range currently short and contains only brute forced ports for fast running. User can configure, as commented in code, for all ports.

```
#Global vars
targetList=$1
sensitiveList="./Targets/.sensitive.lst"
startPort=20 #1
endPort=25 #65535
ip_count=0
port_count=0
```

• Initializing log files that will be displayed in result menu.

```
#initializes files for logs
echo "${BLUE}Nmap results:" > ./logs/results.log
echo "${BLUE}vulnerabilities results:" > ./logs/vul.log
echo "${BLUE}Sensitive IPs log:" > ./logs/.sensitive.log
echo "${WHITE}Nmap Count of IPs and Ports scanned: ${RED}IPs: 0 ${GREEN}Ports: 0" > ./logs/count.log
```

#### brute.sh

- A program for scan.sh
- Brute forces all targets found with open ports and saves data in to logs.

#### Global variables:

ANSI colors – font and background colors

```
## ANSI colors (FG & BG)

RED="$(printf '\033[31m')" GREEN="$(printf '\033[32m')" ORANGE="$(printf '\033[33m')" BLUE="$(printf '\033[34m')" MAGENTA="$(printf '\033[35m')" GYAN="$(printf '\033[36m')" WHITE="$(printf '\033[37m')" BLACK="$(printf '\033[30m')" REDBG="$(printf '\033[41m')" GREENBG="$(printf '\033[42m')" ORANGEBG="$(printf '\033[43m')" BLUEBG="$(printf '\033[44m')" MAGENTABG="$(printf '\033[45m')" CYANBG="$(printf '\033[46m')" WHITEBG="$(printf '\033[47m')" BLACKBG="$(printf '\033[40m')" RESETBG="$(printf '\033[47m')" BLACKBG="$(printf '\033
```

- \$1 target list entered from attacker.sh
- Services list currently short and contains only ports that were declared in scan.sh for fast running. User can configure, as commented in code, for many more services.

services list="ssh ftp smtp telnet" #smb irc http (and many other can be added)

# Credits

> TAHMID RAYAT - Creator of zphisher - https://github.com/htr-tech/zphisher