

P.T Project

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As a part of Cyber studying in John Bryce we were asked to make an automated process with a script to scan a range or a single ip address and map it vurnlabilities and weak credentials, the tools we were suggest to use is nmap and masscan for active scanning. Its pointless to say that the P.T world finished in this small procedure, the PT world is huge and contains a lot of other points of interest as auxilliries used by msfconsole and more.

In this project we just showed the little of the huge and amazing world of Penetration Testing!

In my project I was using nmap to scan the client with hes input of the range he would like to test, needless to say the higher the count of the addresses the more time it would take, because of the high time wait we gave the client an option, to choose between the basic scan and the full scan options, the difference between them in the depth that each scan goes, in the basic scan you would only get the visible version of service's you run, the services themselves and open UDP ports that could be use for infiltration.

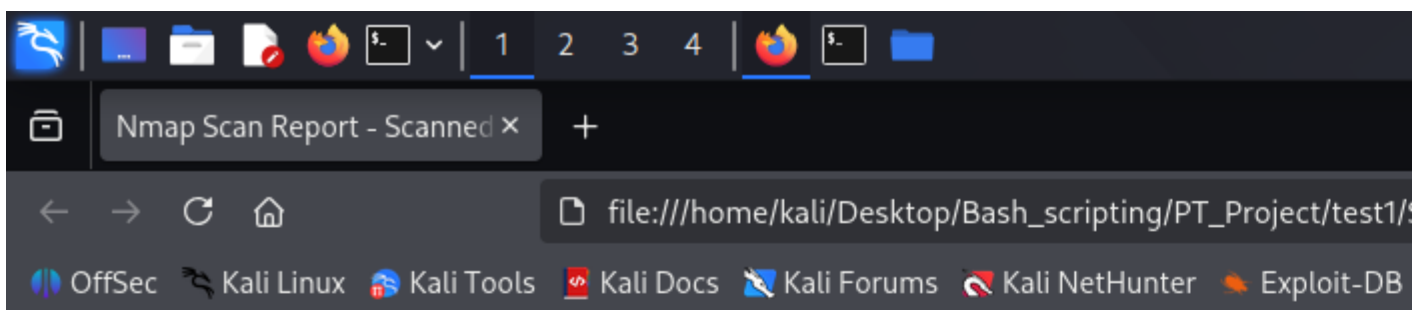
On the other hand the full scan goes even deeper testing the malwares vulnerabilities and even credentials that's can be gathered or tested by the client input.

At the end the client can check the reports with created html file for comfortable view and to zip all the results with the reports as he would like.

The project was tough, it holds an amazing potential for creativity and creation which with every new opening of its code endet up in extra hours perfecting and tunning each line into something more sophisticated.

With the help of our teacher Doron Zohar and a little bit tunning of deepseek Ai I was able to reach a finishing point of the project!

Here are some pictures from it as it ran:



Nmap Scan Report - Scanned at Tue Oct 21 00:44:27 2025

Scan Summary | 192.168.112.156

Scan Summary

Nmap 7.95 was initiated at Tue Oct 21 00:44:27 2025 with these arguments:

```
/usr/lib/nmap/nmap --privileged -sV --open -oA test1/Scan_nmap/nmap_vers/192.168.112.156_vers 192.168.112.156
```

Verbosity: 0; Debug level 0

Nmap done at Tue Oct 21 00:44:42 2025; 1 IP address (1 host up) scanned in 16.02 seconds

192.168.112.156

Address


- 192.168.112.156 (ipv4)
- 00:0C:29:D4:25:73 - VMware (mac)

Ports

The 977 ports scanned but not shown below are in state: **closed**

- 977 ports replied with: **reset**

| Port | | State (toggle closed [0] filtered [0]) | Service | Reason | Pr |
|------|-----|--|-------------|---------|-----|
| 21 | tcp | open | ftp | syn-ack | vst |
| 22 | tcp | open | ssh | syn-ack | Op |
| 23 | tcp | open | telnet | syn-ack | Lin |
| 25 | tcp | open | smtp | syn-ack | Po |
| 53 | tcp | open | domain | syn-ack | IS |
| 80 | tcp | open | http | syn-ack | Ap |
| 111 | tcp | open | rpcbind | syn-ack | |
| 139 | tcp | open | netbios-ssn | syn-ack | Sa |
| 445 | tcp | open | netbios-ssn | syn-ack | Sa |
| 512 | tcp | open | exec | syn-ack | ne |
| 513 | tcp | open | login | syn-ack | Op |
| 514 | tcp | open | tcpwrapped | syn-ack | |
| 1099 | tcp | open | java-rmi | syn-ack | GM |
| 1524 | tcp | open | bindshell | syn-ack | Ma |



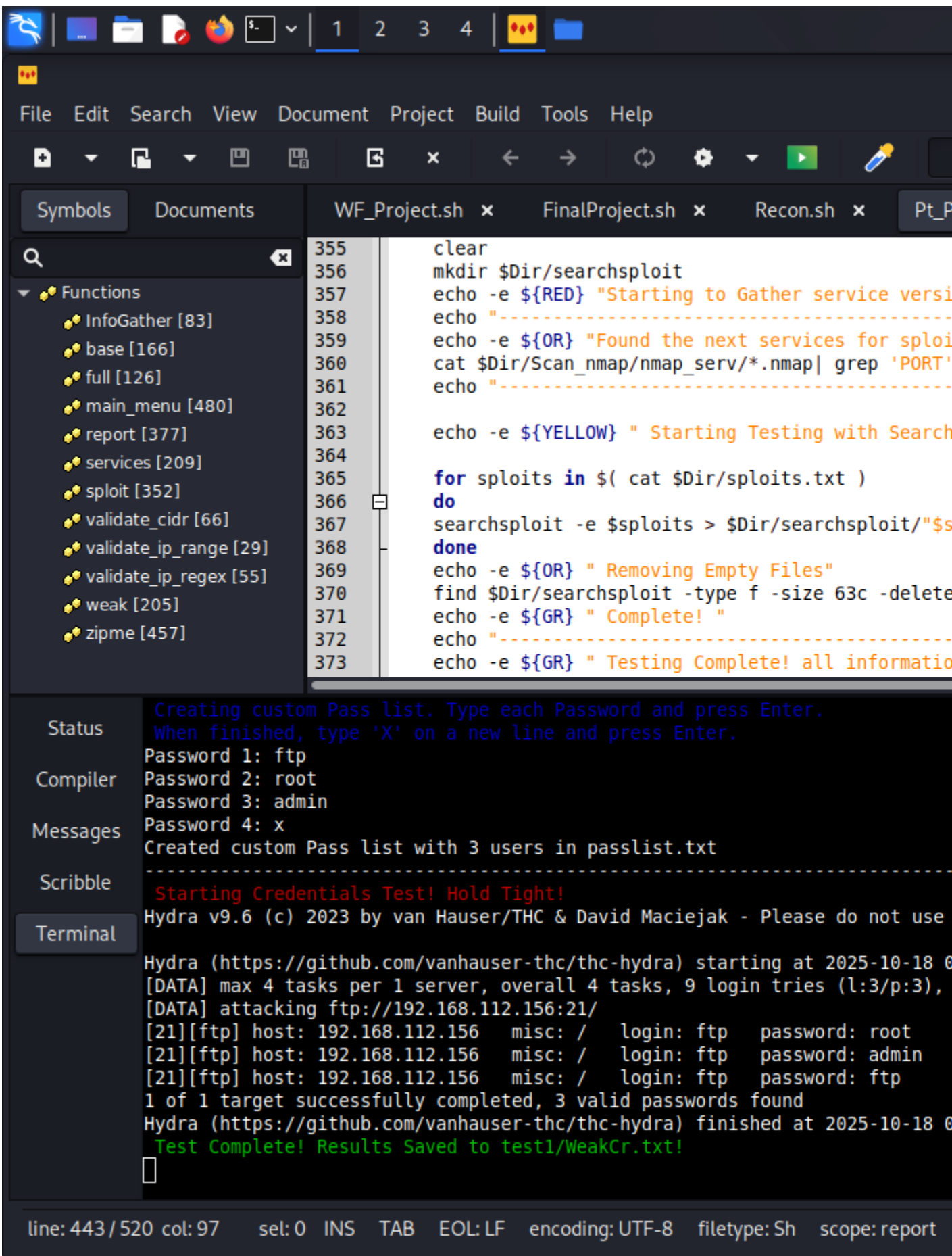
```
Session Actions Edit View Help
Entering The Final Stage! Generating Report for the Scan

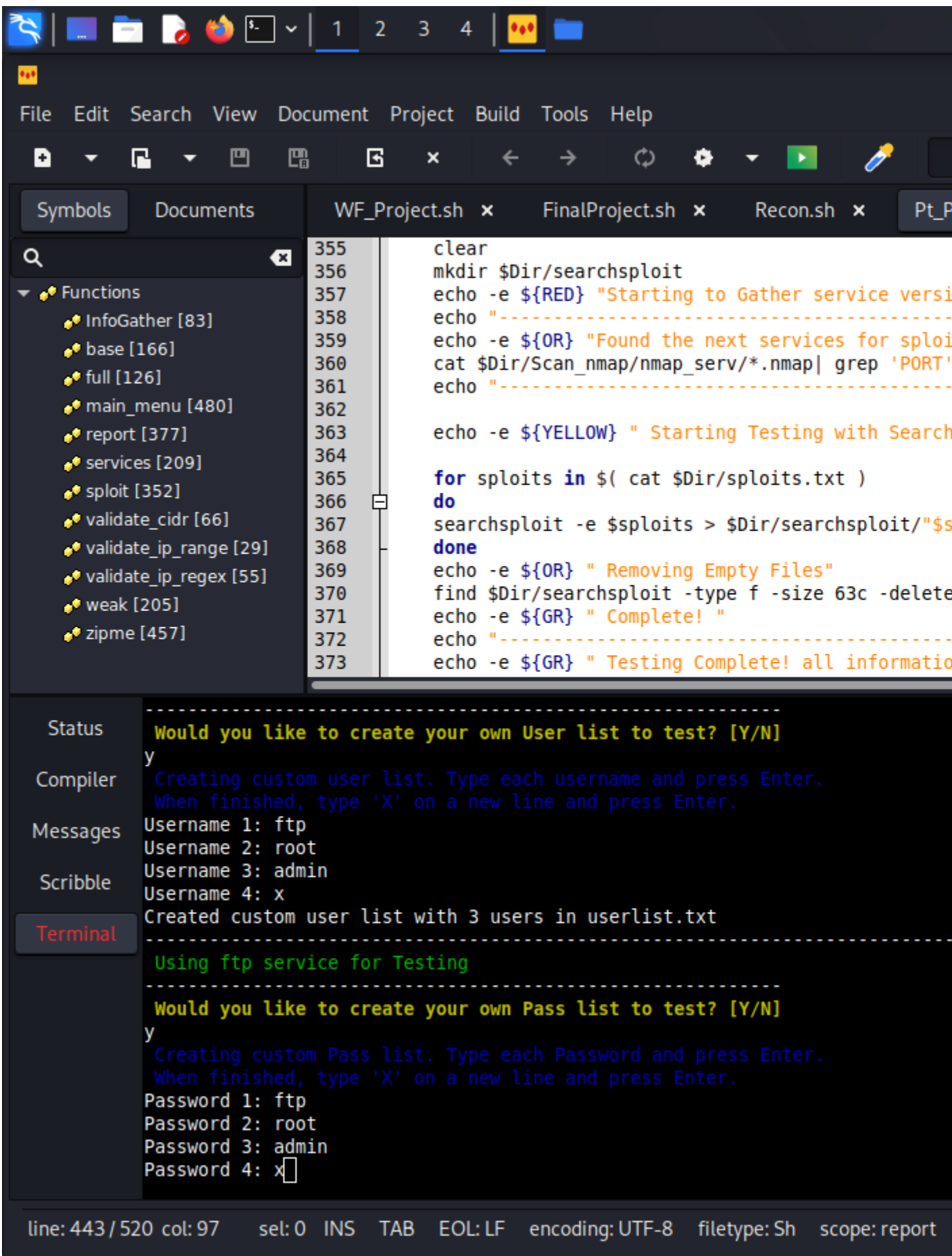
Generating Report For Created Directories
Total Created Directories : '5'

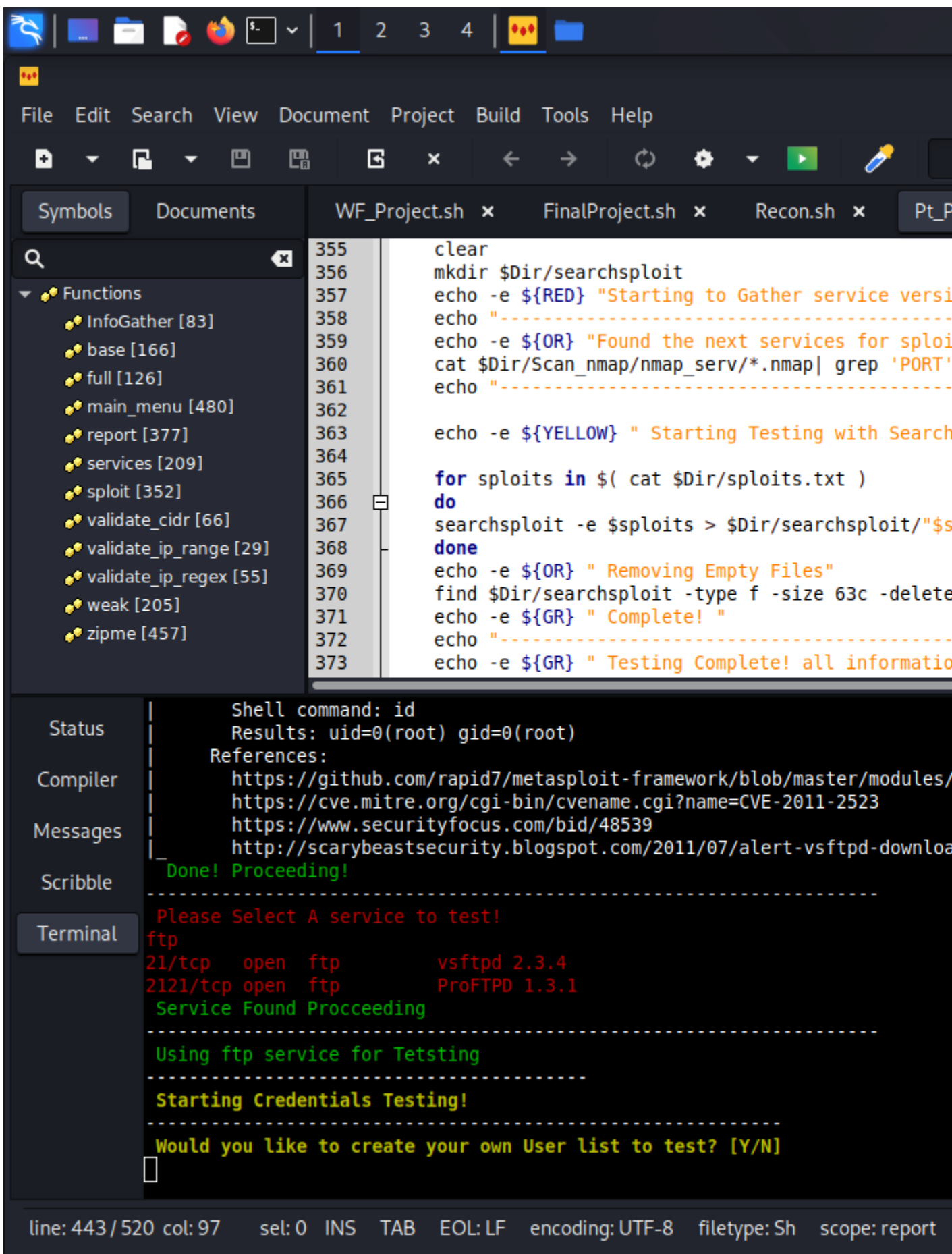
Generating Report For Created Txt Reports
Total Created Txt Files : '7'

Generating Report For Created Credentials Reports
Credentials Test Results:
[DATA] attacking ftp://192.168.112.156:21/
[21][ftp] host: 192.168.112.156  misc: /    login: ftp  p
[21][ftp] host: 192.168.112.156  misc: /    login: ftp  p
[21][ftp] host: 192.168.112.156  misc: /    login: ftp  p
1 of 1 target successfully completed, 3 valid passwords fo
Please Check Into it!

Checking For Html Files
Found: 3 html files.
Would you like to View them? (yes/no)
|
```







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WF_Project.sh

FinalProject.sh

Recon.sh

Pt_P

File

Edit

Search

View

Document

Project

Build

Tools

Help

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Symbols

Documents

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Functions

InfoGather [83]

base [166]

full [126]

main_menu [480]

report [377]

services [209]

sploit [352]

validate_cidr [66]

validate_ip_range [29]

validate_ip_regex [55]

weak [205]

zipme [457]

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```

clear
mkdir $Dir/searchsploit
echo -e ${RED} "Starting to Gather service version"
echo "-----"
echo -e ${OR} "Found the next services for sploit"
cat $Dir/Scan_nmap/nmap_serv/*.nmap| grep 'PORT'
echo "-----"

echo -e ${YELLOW} " Starting Testing with Searchsploit"

for sploits in $( cat $Dir/sploits.txt )
do
searchsploit -e $sploits > $Dir/searchsploit/"$sploits"
done
echo -e ${OR} " Removing Empty Files"
find $Dir/searchsploit -type f -size 63c -delete
echo -e ${GR} " Complete! "
echo "-----"
echo -e ${GR} " Testing Complete! all information gathered"

```

Status

Compiler

Messages

Scribble

Terminal

```

Done! Proceeding!
-----
Starting Malware Check! Saving Into: test1/Scan_nmap/nmap_malware/192.168.1.100
VULNERABLE:
vsFTPD version 2.3.4 backdoor
State: VULNERABLE (Exploitable)
IDs:  BID:48539  CVE:CVE-2011-2523
      vsFTPD version 2.3.4 backdoor, this was reported on 2011-07-04.
Disclosure date: 2011-07-03
Exploit results:
  Shell command: id
  Results: uid=0(root) gid=0(root)
References:
  https://github.com/rapid7/metasploit-framework/blob/master/modules/exploits/multi/linux/vsftpd.py
  https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2011-2523
  https://www.securityfocus.com/bid/48539
  http://scarybeastsecurity.blogspot.com/2011/07/alert-vsftpd-download.html
Done! Proceeding!
-----
Please Select A service to test!

```

line: 443 / 520

col: 97

sel: 0

INS

TAB

EOL: LF

encoding: UTF-8

filetype: Sh

scope: report

