```
- Exit
—(kali5@kali5) [~/Desktop/Penetration Testing]
sudo ./project3.1.sh
  - Install needed apps (will skip installation if not needed)
  - Check if I'm anonymous
 - Enter/Change Network Address
 - Change output directory name
 - Basic scan (TCP, UDP, services versions, weak passwords)

    Full scan (NSE, weak passwords, vulnerability analysis)

  - Password list options
 - Search output
9 - Exit
127.0.1.1

    Install needed apps (will skip installation if not needed)

 - Check if I'm anonymous
3 – Enter/Change Network Address
4 - Change output directory name
5 - Basic scan (TCP, UDP, services versions, weak passwords)

    Full scan (NSE, weak passwords, vulnerability analysis)

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metasploit output
 - Install needed apps (will skip installation if not needed)
 - Check if I'm anonymous
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    Full scan (NSE, weak passwords, vulnerability analysis)

 - Password list options
 - Search output
  - Exit
```



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# PENETRATION TESTING | PROJECT: VULNER

# Project Structure

# 1. Getting the User Input

- 1.1 Get from the user a network to scan.
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- 1.3.2 Full: include Nmap Scripting Engine (NSE), weak passwords, and vulnerability analysis.
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### 2. Weak Credentials

- 2.1 Look for weak passwords used in the network for login services.
- 2.1.1 Have a built-in password.lst to check for weak passwords.
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- 2.2 Login services to check include: SSH, RDP, FTP, and TELNET.

### 3. Mapping Vulnerabilities

- 3.1 Mapping vulnerabilities should only take place if Full was chosen.
- Display potential vulnerabilities via NSE and Searchsploit.

### 4. Log Results

- 4.1 During each stage, display the stage in the terminal.
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- 4.3 Allow the user to search inside the results.
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### 5. Creativity

### General

- Suggested tools: Nmap, Hydra, Medusa, Searchsploit.
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projectil Jish x # 1.3 + 1.3.1 Basic scan (TCP, UDP, Service versions, trying weak passwords) BasicScn() { local Masscan Tile naout outfile hosts nost \ tcp\_ports udp\_ports partspec zip\_file chaice [[ ! d "\$OUTPUT" ]] 55 mkdir p "SOUTPUT" outfile="SOUTPUT/S[NTADR] basic.txt" Soutfile echo "Basic scan results for network SMTADR" >> "Soutfile" masscan file="SOUTPUT/S(NTADR) masscan.tx echo e "\e[95m... Performing fast TCP+UDP discovery on SNTADR with masscan ...\e[0m] log message "Starting masscan on SMTADR" sudo masscan 'SNTADR' -p1-1000.U:1-1000 -rate=1000 -ol 'Smasscan file' hosts=| \$(awk 'Sl="open" (print S4)' '\$wesseen file' | sort | w) ) if [ s{@hosts[0]} -eq 0 ]; then echo .e "\e|91m... No hosts with open ports found in SMTADR ...\e|On" log\_message "Hosts discovered via masscan: \${hosts[\*]} log message "Mwap version scan on Shost" echo "Host: Shost" >> "Soutfile" tcp\_ports=S(awk =v h="\$host" 'S1=="open" && \$4==h && \$2=="tcp" {print \$3}" \ "swasscan file" | paste 55, [[ n Step ports ]] 66 portspec Step ports [ -n 'Sudp\_ports' ] && portspec+='5{portspec:+ }U:Sudp\_ports' if | -z "Sportspec" ||; then echo e "\e[91s...\No open ports on \$host...\e[0s" echo "No open ports on \$host" >> "soutfile" map stu sv -p'sportspec' shost of snmout log message "Mmap output for Shost saved to Smnout" grep '/open/' '\$nmout' \
| sed 'e 's/.\*Ports: //' -e 's/. /\n/g' \ IFS='/' read r port proto service version <<<"sentry" echo "Found sservice on port sport/sproto" >> "soutfile" if [[ "sproto" -- "tcp" ]]; then echo -e "\e[95m... Trying login on \$service/\$port ...\e[0m\* If [] -s "\$(nmout) hydra" ]]; then while read -r cred; do echo -e "\e[95m... SUCCESS: \$service/\$port [ \$cred\e[0m" echo "[\$service g \$port] SUCCESS: \$cred' >> "\$outfile" done < "\$ (neout) hydra" log message "Valid credentials for sservice on sport of shost" echo e "\e[91m... FAIL: no valid creds for \$service/\$port\e|0m" echo "[sservice a sport] FAIL: no walid credentials" >> "soutfile" rm -1 "s(meout) hydra" rm -† "Snmout" ted Mode ⊕≎∆≎

./project3.2.sh: line ib: /var/log/project3.log: Permission denied Starting masscan 1.3.2 (http://bit.ly/14GZzcT) at 2025-05-23 18:35:05 GMT Initiating SYN Stealth Scan Scanning 1 hosts [2000 ports/host] ./project3.2.sh: line 15: /var/log/project3.log: Permission denied ./project3.2.sh: line 15: /var/log/project3.log: Permission denied Starting Nmap 7.95 ( https://nmap.org ) at 2025-05-23 14:35 EDT WARNING: Duplicate port number(s) specified. Are you alert enough to be using Nmap? Ha ve some coffee or Jolt(tm). Nmap scan report for 192.168.132.132 Host is up (0.0017s latency). PORT STATE SERVICE VERSION 21/tcp open ftp vsftpd 2.3.4 OpenSSH 4.7pl Debian Bubuntul (protocol 2.0) 22/tcp open ssh 23/tcp open telnet Linux telnetd Postfix smtpd 25/tcp open smtp ISC BIND 9.4.2 53/tcp open domain 80/tcp open http Apache httpd 2.2.8 ((Ubuntu) DAV/2) 111/tcp open rpcbind 2 (RPC #190000) 139/tcp open netbios-ssn Samba smbd 3.X - 4.X (workgroup: WORKGROUP) 445/tcp open netbios-ssn Samba smbd 3.X - 4.X (workgroup: WORKGROUP) 512/tcp open exec netkit-rsh rexecd 513/tcp open login OpenBSD or Solaris rlogind 514/tcp open tcpwrapped 21/udp closed ftp 22/udp closed ssh 23/udp closed telnet 25/udp closed smtp 53/udp open domain ISC BIND 9.4.2 80/udp closed http 111/udp open rpcbind 2 (RPC #100000) 137/udp open netbios-ns Microsoft Windows netbios-ns (workgroup: WORKGROUP) 139/udp closed netbios-ssn 445/udp closed microsoft-ds 512/udp closed biff 513/udp closed who 514/udp closed syslog MAC Address: 00:0C:29:71:CA:8D (VMware) Service Info: Hosts: metasploitable.localdomain, METASPLOITABLE; OSs: Unix, Linux, Wind ows; CPE: cpe:/o:linux:linux\_kernel, cpe:/o:microsoft:windows Service detection performed. Please report any incorrect results at https://nmap.org/sub mit/ . Nmap done: 1 IP address (1 host up) scanned in 15.87 seconds ./project3.2.sh: line 15: /var/log/project3.log: Permission denied





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## PENETRATION TESTING | PROJECT: VULNER

## Project Structure

## 1. Getting the User Input

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stricted Mode is intended for safe code browsing. Trust this window to enable all features. Manage: Leath More for host in "5 hosts 0 ) "; do log message "Full scan started on Shost" echo "Host: Shost" >> 'Soutfile' npout-S(extemp) neap -sTU -sV -A --script wein "shost" \ -oG Smout -ow "SOUTPUT/S(host) map full tat" # 3. Parse open ports with process substitution to preserve counters while IFS- read -r entry: do IFS-'/ read -r port proto service version sex"Sentry" (( open ports++ )) echo "Found Sservice (Sversion) on part Sport/Sprato" | tee -a "Soutfile" log message "Discovered Service (Sversion) on Sport/Sproto of Shost" if [[ '\$proto' == "tcp' ]]; then
 echo 'e '\e[95m... Trying login on \$service/\$port ...\e[8m'
 bydra -C '\$PWLDir' -s '\$port' '\$service'://"\$host' \ echo -c "\e[95m. SUCCESS: \$service/\$port | \$cred\e[0n" echo "[\$service @ Sport] SUCCESS: scred" >> "\$outfile" done < "\$(naput) hydra" log message "Valid credentials found for Sservice un Sport of Shost" echo e "\e[91m... FAIL: no valid creds for \$service/\$port\e[8n" echo "[Sservice @ Sport] FAIL: no valid credentials" >> "Soutfile" # 5. Volnerability lookup and count exploit\_file="S(nmout) S(service) exploits tat" searchsploit "Sservice Sversion" > "Sexploit file" if [[ -s "Semploit file" []; then loca count count-S(wc -1 < "Semploit file") (| vuln count += count | echo "Exploits for Eservice (Sversion):" >> "Soutfile" sed "s/"/ /' "Sexploit file" >> "Soutfile" log message "Exploits found for Sservice on Shost" echo "No exploits found for Sservice (Sversion)" >> "Soutfile" n -r sexploit file done < < (grep '/open/' '\$nmout' \ echo e "le|95m . Full scan complete on \$host ... le|0m" log message "Full scan complete on shost" echo - " "\e[95eHosts scannod: \$scanned hosts\e[8x" echo - " "\e[95ePorts scanned (approx): \$scanned ports\e[0n" echo e "\e[95mOpen ports found: Sopen\_ports\e[8m" echo - "\e[95eVulnerabilities found: Svuln count\e[6n echo - "\e[95eSuccessful logins: \$success count\e[9n" log message "Scan sunmary - hosts: sscanned hosts, ports: sscanned ports, open: Sopen ports, vulns: Svuln count, successes: ssuccess count" zip file-"s[outfiles.txt].zip" echo -e "\e[95m... Compress results to Szip file? (Y/N) ...\e[0m" read r cheice f [[ "\$chosce" -- ^(Y[y[Yes]yes)\$ []; then zip -j Szip\_file' Soutfile' &>/dev/null echo "\e[95m... Results compressed to \$zip file ...\e[6m" log message "Results compressed to Szip file" log message "Full network scan complete on SMTADR"

File Actions Edit View Help Found http (Apache httpd 2.2.8 ((Ubuntu) DAV|2)) on port 80/tcp Found rpcbind (2 (RPC #100000)) on port 111/tcp Found netbios-ssn (Samba smbd 3.X - 4.X (workgroup; WORKGROUP)) on port 139/tcp Found netbios-ssn (Samba smbd 3.X - 4.X (workgroup: WORKGROUP)) on port 445/tcp Found exec (netkit-rsh rexecd) on port 512/tcp Found login (OpenBSD or Solaris rlogind) on port 513/tcp Found tcpwrapped () on port 514/tcp Found java-rmi (GNU Classpath grmiregistry) on port 1099/tcp Found bindshell (Metasploitable root shell) on port 1524/tcp Found nfs (2-4 (RPC #100003)) on port 2049/tcp Found ftp (ProFTPD 1.3.1) on port 2121/tcp Found mysql (MySQL 5.0.51a-3ubuntu5) on port 3306/tcp Found postgresql (PostgreSQL DB 8.3.0 - 8.3.7) on port 5432/tcp Found vnc (VNC (protocol 3.3)) on port 5900/tcp Found X11 ((access denied)) on port 6000/tcp Found irc (UnrealIRCd) on port 6667/tcp Found ajp13 (Apache Jserv (Protocol v1.3)) on port 8009/tcp Found http (Apache Tomcat|Coyote JSP engine 1.1) on port 8180/tcp Found domain (ISC BIND 9.4.2) on port 53/udp Found dhene () on part 68/udn Found tftp () on port 69/udp Found rpcbind (2 (RPC #100000)) on port 111/udp Found netbios-ns (Microsoft Windows netbios-ns (workgroup: WORKGROUP)) on port 137/udp Found netbios-dgm () on port 138/udp Found nfs (2-4 (RPC #100003)/ Ignored State: closed (1970) OS: Linux 2.6.9 - 2.6.33 Sed Index: 203 IP ID Sed: All zeros) on port 2049/udp



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# PENETRATION TESTING | PROJECT: VULNER

# Project Structure

# 1. Getting the User Input

- 1.1 Get from the user a network to scan.
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Restricted Mode is intended for safe code browsing. Trust this window to enable all features. Manage Learn More 8 project3.3.sh home > kali > Desktop > Penetration Testing > \$ project3.3.sh 186 BasicScn() for host in "s[hosts[8]]"; do nmout=S(mktemp) nmap -sTU -sV -p sportspec" "shost" -oG "snmout" while IFS- read -r entry; do IFS='/' read -r port proto service version <= Sentry' echo "Found \$service on port sport/sproto" >> "Soutfile" if [[ "Sproto" -- "tcp" ]]; then
 echo -e "\e[95m... Trying login on Sservice/Sport ...\e[8m" if [ 'Sservice' - '(ssh|telnet)5 ]]; then W Medusa for SSH/Telnet medusa out="\${nmout} \${service} medusa.txt" medusa h "Shost" -U "\$PWLDir" -P "\$PWLDir" \ "M "Sservice" -n "Sport" -f -0 "Smedusa out" &>/dev/null If grep -q SUCCESS "\$nedusa out"; then while read -r line; do user=S(echo "Sline" | sed -n 's/.\*login:\([^ 1\*\].\*/\1/p') pass=\$(echo "\$line" | sed -n 's/."password:\([^ ]\*\).\*/\1/p') echo -n "\e[95m... SUCCESS: \$service/\$port | \$cred\e[0n" echo [Sservice @ \$port] SUCCESS: scred' >> soutfile' (( success count++ )) done < <(grep SUCCESS "Smedusa out") log message "Valid creds for sservice on sport of shost" echo -e "\e[91m... FAIL: no valid creds for \$service/\$port\e[0n" echo "[Sservice @ \$port] FAIL: no valid credentials" >> "\$outfile" rn -f "Smedusa out" # Hydra for other TCP services hydra out="\${nmout} \${service} hydra.txt"
hydra L "\$PWLDir" P "\$PWLDir" s "\$port" \ "Sservice"://"\$host" -f -o "\$hydra out" &o/dev/null if [[ -s "\$hydra out" ]]; then while read - cred; do echo e "\e[95a... SUCCESS: \$service/\$port | \$cred\e[0a" echo "[Sservice @ \$port] 5UCCE55: \$cred" >> "\$outfile" (| success count++ )) done < "\$hydra out" log message "Valid creds for Sservice on Sport of Shost" echo : "\o[91m... FAIL: no valid creds for \$service/\$port\e[8m" echo "[Sservice @ \$port] FAIL: no valid credentials" >> "\$outfile" rn -f "Shydra out" done < <(grep "/open/" "\$nmout" | sed -e "s/.\*Ports: //" -e "s/. /\n/g") rm of Snmout echo >> "Soutfile" echo -e "\e[95m... Successful logins: \$success\_count\e[0m" log message "HasicScn: Ssuccess count successful logins" zip file="5(outfiles.txt)...p" echo -e "\e[95m... Compress results to \$zip file? (Y/N) ...\e[8m" read -r choice if [[ "Schoice" =- "(Y|y|Yes|yes)S ]]; then zip -] "\$zip file" "\$outfile" &>/dev/null echo -e "\e[95m... Results compressed to szip\_file ...\e[0m"

File Actions Edit View Help 513/tcp open login OpenBSD or Solaris rlogind 514/tcp open tcpwrapped 21/udp closed ftp 22/udp closed ssh 23/udp closed telnet 25/udp closed smtp ISC BIND 9.4.2 53/udp open domain 80/udp closed http 111/udp open rpcbind 2 (RPC #100000) 137/udp open netbios-ns Microsoft Windows netbios-ns (workgroup: WORKGROUP) 139/udp closed netbios-ssn 445/udp closed microsoft-ds 512/udp closed biff 513/udp closed who 514/udp closed syslog MAC Address: 00:0C:29:71:CA:8D (VMware) Service Info: Hosts: metasploitable.localdomain, METASPLOITABLE; OSs: Unix, Linux, Wind ows; CPE: cpe:/o:linux:linux\_kernel, cpe:/o:microsoft:windows Service detection performed. Please report any incorrect results at https://nmap.org/sub mit/ . Nmap done: 1 IP address (1 host up) scanned in 15.87 seconds 1 - Install needed apps (will skip installation if not needed) 2 - Check if I'm anonymous 3 - Enter/Change Network Address 4 - Change output directory name 5 - Basic scan (TCP, UDP, services versions, weak passwords) 6 - Full scan (NSE, weak passwords, vulnerability analysis) 7 - Password list options 8 - Search output 9 - Exit R Ln 246, Col. 47 Sc



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# PENETRATION TESTING | PROJECT: VULNER

# Project Structure

## 1. Getting the User Input

- 1.1 Get from the user a network to scan.
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```
stacted Note is intended for rate seds browing. Fruit this window to made all keitures - <u>Manage</u> - <u>Lean More</u>
         SmarrhDirtl (
               Construction of a large free words assert the large
                    echo = "Nej95m. Passoordu/NordList Menu ...\ej9m"
echo = "Nej95m. Current Passoordu/Nords List: $PeLIST ...\ej9m"
echo = "Nej95m. Passoordu/NordList directory: $PeLIST ...\ej9m"
echo = "Nej95m. type master to execute: ...\ej9m"
                      ache -e "1 - Create and thomps to busic Passaord List (1113, 1236, Kell, aA32345678, etc)
                     echo = "2 - Select Password/Word list location"
echo = "3 - AME to current Password/Word list"
                                cat > '$dir' exEDF
                                 PALDER SPAD Sett
                                  log message "Created tenic password list at SPAIDir" etho e "lei93n... Basic password list created and selected ...leiBe"
                                      wcho - "Nel@iniment new File Location |or type 'back' to return! Nel@n"
                                        if I "sfile tec" - "sock" Its this
                                            PMLDir="sfite tec"
PMLIST="Selected file"
                                           log message "Parameted List thanged to $PMLDis"
octo or "To193m... Password list set to $PMLDis ... \of@s"
                                  etho . "Nel95mType the words or masters you would like to sed to the current list, with space between them, and them Enter: NelDef
                                   read words
                                       medified_file="modified_PMList.txt"
                                             for with Swords; slo
                                               printf "Sale" "Sa
                                            cat SPWLDar
                                         > "Smodified file"
                                        PMLDIr SPWD/Smodified file
                                       log message "Nodified password list created at $PMLBir" echo : "vel95s... Modified password list created and selected ... vel8m"
                                 # Reset to default ruckyou
#ALIST="Betault - rockyou"
                                 PM.Dir- /hor/share/wordlists/rackyou.txt
log massage "Password list resut to default notkyou"
echo = "\w|95m... Password list reset to default nockyou \w|50e"
```

File Actions Edit View Help Found nfs (2-4 (RPC #100003)) on port 2049/tcp Found ftp (ProFTPD 1.3.1) on port 2121/tcp Found mysql (MySQL 5.0.51a-3ubuntu5) on port 3306/tcp Found postgresql (PostgreSQL DB 8.3.0 - 8.3.7) on port 5432/tcp Found vnc (VNC (protocol 3.3)) on port 5900/tcp Found X11 ((access denied)) on port 6000/tcp Found irc (UnrealIRCd) on port 6667/tcp Found ajp13 (Apache Jserv (Protocol v1.3)) on port 8009/tcp Found http (Apache Tomcat|Coyote JSP engine 1.1) on port 8180/tcp Found domain (ISC BIND 9.4.2) on port 53/udp Found dhcpc () on port 68/udp Found tftp () on port 69/udp Found rpcbind (2 (RPC #100000)) on port 111/udp Found netbios-ns (Microsoft Windows netbios-ns (workgroup: WORKGROUP)) on port 137/udp Found netbios-dgm () on port 138/udp Found nfs (2-4 (RPC #100003)/ Ignored State: closed (1970) OS: Linux 2.6.9 - 2.6.33 Seq Index: 203 IP ID Seq: All zeros) on port 2049/udp 1 - Install needed apps (will skip installation if not needed) 2 - Check if I'm anonymous 3 - Enter/Change Network Address 4 - Change output directory name 5 - Basic scan (TCP, UDP, services versions, weak passwords) 6 - Full scan (NSF, weak masswords, vulnerability analysis) 7 - Password list options 8 - Search output 9 - Exit 1 - Create and change to basic Password list (1111, 1234, Kali, aA12345678, etc) 2 - Select Password/Word list location 3 - Add to current Password/Word list 4 - Back to default - rockyou 5 - Back to main menu



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## PENETRATION TESTING | PROJECT: VULNER

## **Project Structure**

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```
nome > kali > Desktop > Penetration Testing > $ project3.2.sh
        # Proceed with the appropriate function based on GS type.
        if [ "Sos type" == "Linux" ]; then
           echo e "\e[95m Linux OS detected via brute-force credentials!\e[0m"
            getInfoL "$found user" "$1p" "$found pass"
        elif [ "Sos type" == "Windows" ]; then
           echo e "\e[95m Windows OS detected via brute-force credentials!\e[0m"
            getInfold "$found user" "$ip" "$found pass"
            echo -e "\e[31m Unknown O5 detected via brute-force credentials. Exiting,\e[0m"
            log_message "Brute-force login succeeded on Sip but OS detection failed,"
            rn f Stemp mod file Shydra output file
            return 1
        rm -f "Stemp pwd file" "Shydra output file"
     SearchDir() (
       local search results
        if [[ "souTPUT" -- "None" ]]; then
        if [ ! -d "SOUTPUT" ]; then
           echo -e "\e[91m... Selected output directory \'SGUTPUT\" does not exist ...\e[6m"
        if [[ -z "5(ls -A "$OUTPUT")" ]]; then
           echo e "\e[91m... Selected output directory is empty ...\e[0m"
        echo -e "\e[95m... Type your search: ...\e[0m"
        read -r search
        results=$(grep -R -n --color=always "$search" "$OUTPUT")
        if [[ -z "$results" ]]; then
           echo e "\e[95m... No results found for \'$search\' ...\e[8m'
           echo -e "\e[95m... Results for \"$search\": ...\e[0m"
            echo "$results"
    # 2.1.1 + 2.1.2 Choose passwrod list
        local choice dir file loc words modified file
        while true; do
            echo e "\e[95m... Passwords/Wordlist Menu ...\e[0m"
            echo e "\e[95m... Current Passwords/Words list: $PWLIST ...\e[0m"
            echo -e "\e[95m... Passwords/Wordlist directory: SPWLDir ...\e[8m"
            echo e "\e[95m... type number to execute: ...\e[0m"
            echo -e "1 - Create and change to basic Password list (1111, 1234, Kali, aA12345678, etc)"
                                                                                                               8 Ln 534, Col 1 Sp
```

icted mode is intended for same code provising. I rust this window to enable all restures. Manage Learn More

1 - Install needed apps (will skip installation if not needed) 2 - Check if I'm anonymous 3 - Enter/Change Network Address 4 - Change output directory name 5 - Basic scan (TCP, UDP, services versions, weak passwords) 6 - Full scan (NSE, weak passwords, vulnerability analysis) 7 - Password list options 8 - Search output 9 - Exit 1 - Install needed apps (will skip installation if not needed) 2 - Check if I'm anonymous 3 - Enter/Change Network Address 4 - Change output directory name 5 - Basic scan (TCP, UDP, services versions, weak passwords) 6 - Full scan (NSE, weak passwords, vulnerability analysis) 7 - Password list options 8 - Search output 1 - Install needed apps (will skip installation if not needed) 2 - Check if I'm anonymous 3 - Enter/Change Network Address 4 - Change output directory name 5 - Basic scan (TCP, UDP, services versions, weak passwords) 6 - Full scan (NSE, weak passwords, vulnerability analysis) 7 - Password list options B - Search output 9 - Exit 2.168.132.132 output/192.168:132.131 nmap\_full.txt:6:21/tcp ftp vsftpd 2.3.4 tput/192.168.132.132\_mmap\_full.txt:28:22/tcp ssh OpenSSH 4.7p1 Debian &ubuntu1 (protocol 2.0) 2:168.132.132\_output/192.168.132.132\_nmap\_full.txt:30:| cpe:/a:mpmmbsd:0 ssh:4.7pl 2.168.132.132\_dutput/192.168.132.132\_nmap\_full.txt:145:23/tcp telnet Linux telnetd .168.132.132\_output/192.168.132.132\_nmap\_full.txt:146:25/tcp smtp Postfix smtpd 168.132.132 output/192.168.132.132 nwap full.txt:224: https://www. ssl.org ~bodo/ssl-poodle.pdf t/192.168.132.132\_mmap\_full.txt:226:53/tcp domain ISC BIND 9.4.2 .168,132,132 output/192,168,132,132 nmap full.txt:315:80/tcp http Apache httpd 2.2.8 ((Ubuntu) DAV/2) 168.132.132\_output/192.168.132.132\_nmap\_full.txt:321:| Slowloris tries to keep

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## PENETRATION TESTING | PROJECT: VULNER

## **Project Structure**

## 1. Getting the User Input

- 1.1 Get from the user a network to scan.
- 1.2 Get from the user a name for the output directory.
- 1.3 Allow the user to choose 'Basic' or 'Full'.
- 1.3.1 Basic: scans the network for TCP and UDP, including the service version and weak
- 1.3.2 Full: include Nmap Scripting Engine (NSE), weak passwords, and vulnerability analysis.
- 1.4 Make sure the input is valid.

### 2. Weak Credentials

- 2.1 Look for weak passwords used in the network for login services.
- 2.1.1 Have a built-in password.lst to check for weak passwords.
- 2.1.2 Allow the user to supply their own password list.
- 2.2 Login services to check include: SSH, RDP, FTP, and TELNET.

### 3. Mapping Vulnerabilities

- 3.1 Mapping vulnerabilities should only take place if Full was chosen.
- 3.2 Display potential vulnerabilities via NSE and Searchsploit.

### 4. Log Results

- 4.1 During each stage, display the stage in the terminal.
- 4.2 At the end, show the user the found information.
- 4.3 Allow the user to search inside the results.
- 4.4 Allow to save all results into a Zip file.

### 5. Creativity

### General

- Suggested tools: Nmap, Hydra, Medusa, Searchsploit.
- Everything other than the user input should be automated.
- Use functions.

### Comments

Use comments in your code to explain what you did.

If you are using code from the internet, add credit and links.

