GSEC1 Cheat Sheet

by datgrlnj2 via cheatography.com/56728/cs/38452/

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AircrackNG			snort (cont)		
aircrack-ng : The primary cracking tool		\$EXTERNAL_NET any ->: A variable representing any external			
aireplay-ng : Tool for injecting and replaying wireless frames			network such as the Internet and any source port		
airmon-ng: Tool to enable and disable wireless interface monitoring		\$HOME_NET any: A variable representing a trusted internal network			
airodump-ng : Tool to capture wir	eless frames	3	and any destination port (msg: "COMMUNITY ICMP Linux DoS sctp Exploit": The message to		
airmon-ng	identify wi	reless cards	include in the alert	INUX DOS SCIP EXPIO	It I ne message to
airmon-ng start wlan0	start in mo	nitor mode	icode:2; itype:3;: The ICMP T	vpe and Code on wh	lich to match
airodump-ng wlan0mon	look at ava networks a	ailable wireless and clients	content:" 28 00 00 50 00 00 0 00 00 00 00 00 00 ";: The hexade	0 00 F9 57 1F 30 00	00 00 00 00 00 00
aircrack-ng SEC401_WEP.cap	Crack pca	p with WEP	payload on which to perform a		
aircrack-ng -w all SEC401_WP- A2PSK.pcap	crack WP/ named "al	A2-PSK with dictionary	reference:nessus,19777;: A reference to a corresponding Nessus plugin		oonding Nessus
hashcat			classtype:attempted-user;: Th	e vulnerability class	type
hashcathelp grep "Attack Moc	les" -A9	show different hash modes	sid:100000164; rev:2;): The u number	nique Snort signatur	e ID and revision
shadow file		\$1 for MD5, \$5 SHA-	snort -c /etc/snort/snort.conf -	i eth0 -A full	-c is config file, - A alerting full
hashcathelp grep "MD5 (Unix)		256, \$6 for SHA-512	/var/log/snort		alert and snort.log
hashcat -m 500 -a 0 -o cracked.b /usr/share/wordlists/sqlmap.txt	kt shadow	-m 500 MD5 unix, -a 0 straight	xxd		dumps contents of file in hex
cracked hashes stored in hashcat.potfile		snort -c /etc/snort/snort.conf -	r /home/sec401/la-	run against	
		create custom rules	bs/401.4/snort/snort.pcap -A full PCAP		-
		file appending \$, #, @, !	Process Hacker		
hashcat -m 500 -r sec401-rules -a 0 -o dictionary with rules		In process, Modules tab shows DLLs can right click send to VT			
cracked.txt shadow /usr/share/wo	ordlists/sql-		Token tab see the SAT (Security access token)		
map.txt			Memory tab	з ,	
python bitcoin2john.py btc_wallet btc_hash.txt	.dat >	get SHA-256 hash from btc wallet	https://www.cjwdev.com/Software/NtfsReports/Download.html		wnload.html
hashcathelp grep Bitcoin		-m 11300 bitcoin/l- itecoin wallet	Powershell scripting		
hashcat -m 11300 -a 0 -o cracked.txt btc_hash.txt /usr/share/wordlis		h.txt /usr/share/wordlis-	Get-Process	list of running processes	
ts/sqlmap.txt		Get-Process -Name Isass Fo	ormat-List *		
cat cracked.txt grep bitcoin		\$PaintApp = Get-Process - Name mspaint	add name to varia	ble	
snort			<pre>\$PaintApp.Kill()</pre>	Kill paint app	
sudo tail snort.conflast 15 lines of filealert: The action to take when a match is found		Get-Process Select-Object Name,Id,Path Export-Csv -	Save the Name, lo properties of all ru	nning processes to	

icmp: The protocol to match on

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Path ProcList.csv

ise .\ProcList.csv

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a comma-delimited text file.

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Powershell scripting (cont)			TCPdump	
Get-Process Select-Object Name,Id,Path Out- GridView	output in graphical app		FTP and cap packets	ture first 3
cls	clear clutter		-X display he	x and AS
Get-Service	display		4 packets	
	background service		-a print ASCI source	I, FTP, sp
Clear-DnsClientCache			listen on loop	back on p
Get-Service Select-Object DisplayName,Status ConvertTo-Html Out-File -FilePath Servic- es.html	save list of services to HTML file		Applocker AppIDSvc	applocke
dir .\Services.html Format-List *			(Appli-	
dir Sort-Object CreationTime Select-Object CreationTime,FullName	sort the listed files by the date		cation Identity)	
	and time they were created		secpol.msc	local sec AppLock
Copy-Item -Path .\Services.html -Destination .\Copied.html	dir *.html		Publisher	For digit
Get-FileHash -Algorithm SHA256 -Path *.html	filehash of all HTML files in current directory		Path	The Path method an applie
Get-Content -Path .\Copied.html	view contents of a file		File Hash	It is seer and whe
Get-Content -Path .\Copied.html			Applocker	create a
Get-WmiObject -Query "SELECT * FROM Win32_BIOS" -ComputerName LocalHost	Query BIOS information from a remote	_		and even Windows files, suc
Get-WinEvent -ListLog * Select-Object LogName	computer see names of all local event logs			
Get-WinEvent -LogName System -MaxEvents 10 Select-Object TimeCreated,Id,Message	get last 10 events from System log, time, ID and message			
Get-WinEvent -LogName System -MaxEvents 10 -ComputerName LocalHost Select-Object TimeCreated,Id,Message Export-Csv -Path LogData.csv	export to csv file			
Get-Help -Full Get-WinEvent				

TCPdump	
FTP and capture first 3 packets	tcpdump -i eth0 port 21 -c 3
-X display hex and ASCII first 4 packets	tcpdump -X -i eth0 port 21 -c 4
-a print ASCII, FTP, specify source	tcpdump -a -i eth0 port 21 and src 10.10.10.20
listen on loopback on port 333	tcpdump -i lo tcp port 333

AppIDSvc (Appli- cation Identity)	applocker service
secpol.msc	local security policy-> Application Control Policies -> AppLocker
Publisher	For digitally signed apps. More secure than the Path condition and relatively easy to maintain
Path	The Path condition is conceptually simplistic. With this method you set up allowlists and blocklists based on an application's location on the file system
File Hash	It is seen as a more secure option than using the Path and when the file is not or cannot be digitally signed.
Applocker	create and define rules that apply to security groups and even a single user. Rules can be applied to Windows binaries, DLLs, installers, and various script files, such as .ps1, .cmd, and .js.

Get-Help -Full Get-WinEvent



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Malware analysis

strings -n 14 trojan1 more	string 14 characters or longer
python -c 'print("A" *100)' > bof	python -c 'print("A" * 1000)' > bof

hping

hping3 --help | more

-c: The count option enables you to specify the number of packets to send.

-i: The interval option enables you to specify the time between sending each packet.

hping3 --help | grep Mode -A7

hping3help grep "\-\-spoof" -A7 -	hping3help grep "\-\-base"
B1	-A15 -B1

-a: This option enables you to spoof the source IP address, which you will do soon.

-t: This option enables you to set the TTL to any wanted value.

-N: This option enables you to set the IP ID to any wanted value.

-f: This option enables you to force fragmentation of a packet.

-s: Set the source port number, which is usually a random ephemeral port.

-p: Set the destination port number.

-w: Set the window size.

-b: Try sending a packet with a bad checksum.

hping3 -S 10.10.10.10 -p 21 -c 1

SYN packet to TCP port 21 -c 1 packet

hping3 -S 10.10.10.10 -a 10.11.1-2.13 -p 21 -c 1 spoof IP address

secedit

secedit.exe /analyze	review cmd line switches
secedit.exe /analyze /db temp.sdb /cfg SecurityTemplate.inf /log log.txt	compare log settings from template to local computer
look for mismatch in the output	
secedit.exe /configure	review cmd line switches
secedit.exe /configure /db temp.sdb /cfg SecurityTemplate.inf	reconfigure the computer by applying security template
Get-Content .\out.txt Select-String -Pa	attern "Mismatch"
Get-Help -Full Get-Content	Get-Help -Full Select-String

ecedit (cont)

Start-Process PowerShell.exe

GPG			
gpa &	open GNU priv	vacy assistant	
eom sans-logo.png	eom is image	viewer	
TCPdump			
-i Specify from which netwo sniff.	ork interface you	would like tcpdump to	
-s Number of bytes "snaplen" to capture per packet. Default is 262,144 bytes.			
-c Number of packets to ca	pture before stop	pping.	
-n Don't resolve hostnames or well-known port numbers to their service.			
-X Show packet contents in	n hexadecimal an	d ASCII.	
-XX Show packet contents in hexadecimal and ASCII, as well as the Ethernet header.			
-e Display Ethernet header	data.		
nmap			
nmaphelp more			
nmaphelp grep "HOST A10	DISCOVERY" -	10 lines after host discovery	
nmaphelp grep "SCAN -A8	TECHNIQUES"	8 lines after scan techniques	
-sS performs a SYN or Ste each port designated and c		Thereason option is useful because it	

each port designated and does not send the final ACK in the 3-way handshake. This is to try to avoid having the connection attempt logged because some older systems do not log the attempt until the 3-way handshake completes.

-sT attempts a TCP connect scan to each port designated and completes the 3-way handshake to see if the port is open

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specifies how it

determined the state of

the port. The --packet--

trace option shows all

-oA prints the output to

the file you specify in

normal, XML, and grepable formats.

packets sent and received.

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nmap (cont)		nmap (cont)	
-sA performs an ACK scan to each port designated. This means that it does not first send a SYN packet as expected and sends a packet only with the ACK flag set. The idea is to try and pass through some filters, wrongly making the assumption that if the ACK flag is set, that it must be from an active TCP session that is permitted. If a system receives an unsolicited packet with the ACK flag set, it will respond back with the RST flag. This does not indicate that a particular port is open, but does indicate that the IP address is active on the network, similar to a	-oG prints the output to the file you specify in grepable format.	-sU option tells Nmap to scan UDP ports instead of TCP ports. Other scans, such as "Null", "FIN", and "Xmas", each use different combinations of the TCP flags to try and elicit a response. We will not cover every one of the commands because there are far too many, and they are all well documented in the Nmap documentation.	-oN prints the output to the file you specify, exactly how it is displayed on the screen.
		nmaphelp grep "PORT SPECIFICATION" -A7	nmaphelp grep "OUT- PUT" -A8
 -sW also performs an ACK scan but also interrogates the TCP window size because some systems set the window size to 0 if the port is closed. -sM performs a Maimon scan and is named after the author Uriel Maimon. This scan technique modifies the TCP flags that proved useful in identifying some BSD-de- 	-oS prints the output to the file you specify in "script kiddie" format, which is mostly for fun.	nmaphelp grep "TIMING AND PERF" -A12	max-rate : This option tells Nmap to send packets no faster than the number specified per second.
		-T: This option enables you to choose a value between 0 and 5, each performing the scan at different speedsthe lower the number, the slower the scan is performed.	min-rate : This option tells Nmap to send packets no slower than the
	-oX prints the output to the file you specify in XML format.		number specified per second.
rived operating systems.		max-retries: This option tells Nmap how many times to retransmit probe attempts to a system.	host-ti- meout: This option tells Nmap how quickly to give up on a host.
		nmap -sTreason 10.10.10.10 -oN scan1.txt	
		nmap -sU 10.10.10.10 -p69,161 -oN scan2.txt	UDP scan
		nmap -npacket-trace -sS 10.10.10.10 -p80	
		nmap -n -sT -O 10.10.10.10 -p21,80	OS version scanning
		nmap -n -sT -A 10.10.10.10 -p21,80	
		ls /usr/share/nmap/scripts/p*	scripting engine path
		nmap -sU -p161script snmp-brute 10.10.10.10scr brute.communitiesdb=community.lst	ipt-args snmp-
		spmpcheck -t 10 10 10 10 -c public Larep "User acco	Nunte" A12

snmpcheck -t 10.10.10.10 -c publ1c | grep "User accounts" -A12



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