

Google Hacking Database & Windows Hardening

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Table Of Contents :

1) Google Hacking Database :

- What is Crawlers ?
- What is Google Dorking ?
- Is Crawlers and Google Dorking Illegal?
- Common Terms in Dorking
- Resources for Google Database Hacking
- Let's Practice !

2) Windows Hardening :

- What is System Hardening?
- Windows Server Hardening :
 - Windows User Configuration Guidelines
 - Windows Network Configuration Guidelines
 - Windows Service Configuration Guidelines
 - Network Time Protocol (NTP) Configuration Guidelines
 - Centralized Event Logs

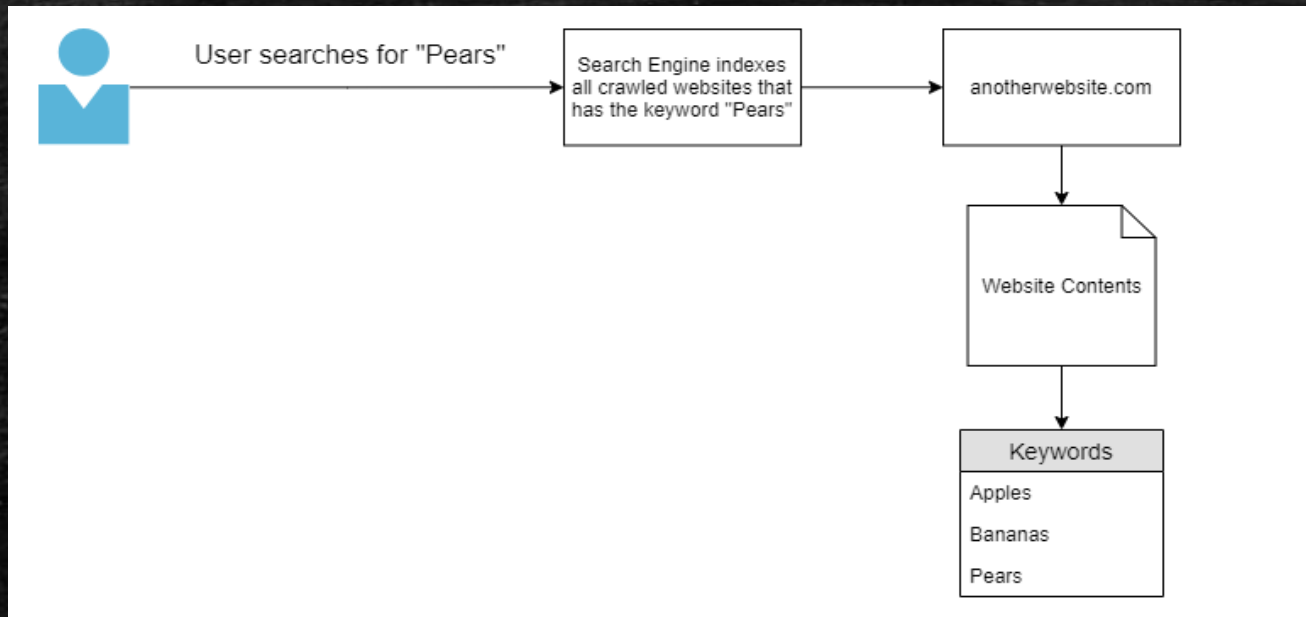
Dorking > Path Traversal > Arbitrary File Read

```
← → ↻ 🔒 [REDACTED] /etc/passwd

root:x:0:0:root:/root:/bin/bash
bin:x:1:1:bin:/bin:/sbin/nologin
daemon:x:2:2:daemon:/sbin:/sbin/nologin
adm:x:3:4:adm:/var/adm:/sbin/nologin
lp:x:4:7:lp:/var/spool/lpd:/sbin/nologin
sync:x:5:0:sync:/sbin:/bin/sync
shutdown:x:6:0:shutdown:/sbin:/sbin/shutdown
halt:x:7:0:halt:/sbin:/sbin/halt
mail:x:8:12:mail:/var/spool/mail:/sbin/nologin
operator:x:11:0:operator:/root:/sbin/nologin
games:x:12:100:games:/usr/games:/sbin/nologin
ftp:x:14:50:FTP User:/var/ftp:/sbin/nologin
nobody:x:99:99:Nobody:/:/sbin/nologin
systemd-network:x:192:192:systemd Network Management:/:/sbin/nologin
dbus:x:81:81:System message bus:/:/sbin/nologin
polkitd:x:999:998:User for polkitd:/:/sbin/nologin
sshd:x:74:74:Privilege-separated SSH:/var/empty/sshd:/sbin/nologin
postfix:x:89:89:/:/var/spool/postfix:/sbin/nologin
chrony:x:998:996:/:/var/lib/chrony:/sbin/nologin
named:x:25:25:Named:/var/named:/sbin/nologin
unbound:x:997:994:Unbound DNS resolver:/etc/unbound:/sbin/nologin
ntp:x:38:38:/:etc/ntp:/sbin/nologin
noderig:x:1000:1000:/:home/noderig:/bin/bash
beamium:x:1001:1001:/:home/beamium:/bin/bash
nscd:x:28:28:NSCD Daemon:/:/sbin/nologin
rpc:x:32:32:Rpcbind Daemon:/var/lib/rpcbind:/sbin/nologin
cpanel:x:201:201:/:var/cpanel/userhomes/cpanel:/usr/local/cpanel/bin/noshell
cpanellogin:x:202:202:/:var/cpanel/userhomes/cpanellogin:/usr/local/cpanel/bin/noshell
cpanelleximfilter:x:203:203:/:var/cpanel/userhomes/cpanelleximfilter:/usr/local/cpanel/bin/noshell
cpanelleximscanner:x:204:204:/:var/cpanel/userhomes/cpanelleximscanner:/usr/local/cpanel/bin/noshell
cpanelconnecttrack:x:205:205:/:var/cpanel/userhomes/cpanelconnecttrack:/usr/local/cpanel/bin/noshell
cpanelanalytics:x:206:206:/:var/cpanel/userhomes/cpanelanalytics:/usr/local/cpanel/bin/noshell
cpanelcabcache:x:207:207:/:var/cpanel/userhomes/cpanelcabcache:/usr/local/cpanel/bin/noshell
cpanelroundcube:x:208:208:/:var/cpanel/userhomes/cpanelroundcube:/usr/local/cpanel/bin/noshell
mailman:x:209:209:/:usr/local/cpanel/3rdparty/mailman:/usr/local/cpanel/bin/noshell
dovecot:x:97:97:Dovecot IMAP server:/usr/libexec/dovecot:/sbin/nologin
dovenull:x:996:993:Dovecot's unauthorized user:/usr/libexec/dovecot:/sbin/nologin
mailnull:x:47:47:Exim:/var/spool/mqueue:/bin/false
cpanelphpmyadmin:x:995:991:phpMyAdmin for cPanel & WHM:/var/cpanel/userhomes/cpanelphpmyadmin:/usr/local/cpanel/bin/noshell
cpanelphppgadmin:x:994:990:phpPgAdmin for cPanel & WHM:/var/cpanel/userhomes/cpanelphppgadmin:/usr/local/cpanel/bin/noshell
mysql:x:27:27:MySQL Server:/var/lib/mysql:/bin/false
cpses:x:993:989:/:var/cpanel/cpses:/sbin/nologin
```

What Is Crawlers ?

A web crawler, or spider, is a type of bot that is typically operated by search engines like Google and Bing. Their purpose is **to index the content of websites all across the Internet so that those websites can appear in search engine results.**



**What is Index ?*

An index is another name for the database used by a search engine. Indexes contain the information on all the websites that Google (or any other search engine) was able to find

What Is Google Dorking ?

It is basically a search string that uses advanced search query to find information that are not easily available on the websites.

Attackers will combine some of the keywords or use filters to find privacy information.

This will gained the attackers many useful information and use it for illegal purposes.

Google dorking is also known as passive reconnaissance (gain information about the target without actively engaging the systems)

Is Crawlers and Google Dorking Illegal?

Law Enforcement About Hacking or Computer Abused in Malaysia :

1. Akta Tandatangan Digital 1997
2. Akta Jenayah Komputer 1997
3. Akta Teleperubatan 1997
4. Akta Komunikasi & Multimedia 1998

As long as you don't misused the knowledge, so it is still legal. Remember, use it for awareness and benefit the community.

Understanding Common Terms in Dorking

Terms	Meaning
Intitle:	Find Document that have the title we want
Inurl:	Find specified terms in url
Filetype:	Find the filetype
Ext:	Find the extension of a file
Site:	We use this to limit the site that we want
Intext:	Find the words that have in the text
Cache:	Find google archive of the website

Resources For Google Hacking Database

- <https://www.exploit-db.com/google-hacking-database>
- <https://home.ubalt.edu/abento/753/footscan/googlehacking.html>
- <https://www.objectivity.co.uk/blog/google-hacking-how-to-find-vulnerable-data-using-nothing-but-google-search-engine/>
- <https://securitytrails.com/blog/google-hacking-techniques>
- <https://tryhackme.com/room/googledorking>
- <https://pentest-tools.com/information-gathering/google-hacking>

LET'S DO SOME PRACTICAL !

What is System Hardening?

According to National Institute of Standards & Technology (NIST), system hardening is process intended to eliminate a means of attack by patching vulnerabilities and turning off non-essential services.

Types of System hardening :

- ✓ Server hardening
- ✓ Network hardening
- ✓ Operating System hardening
- ✓ Software hardening
- ✓ Database hardening

Windows Server Hardening

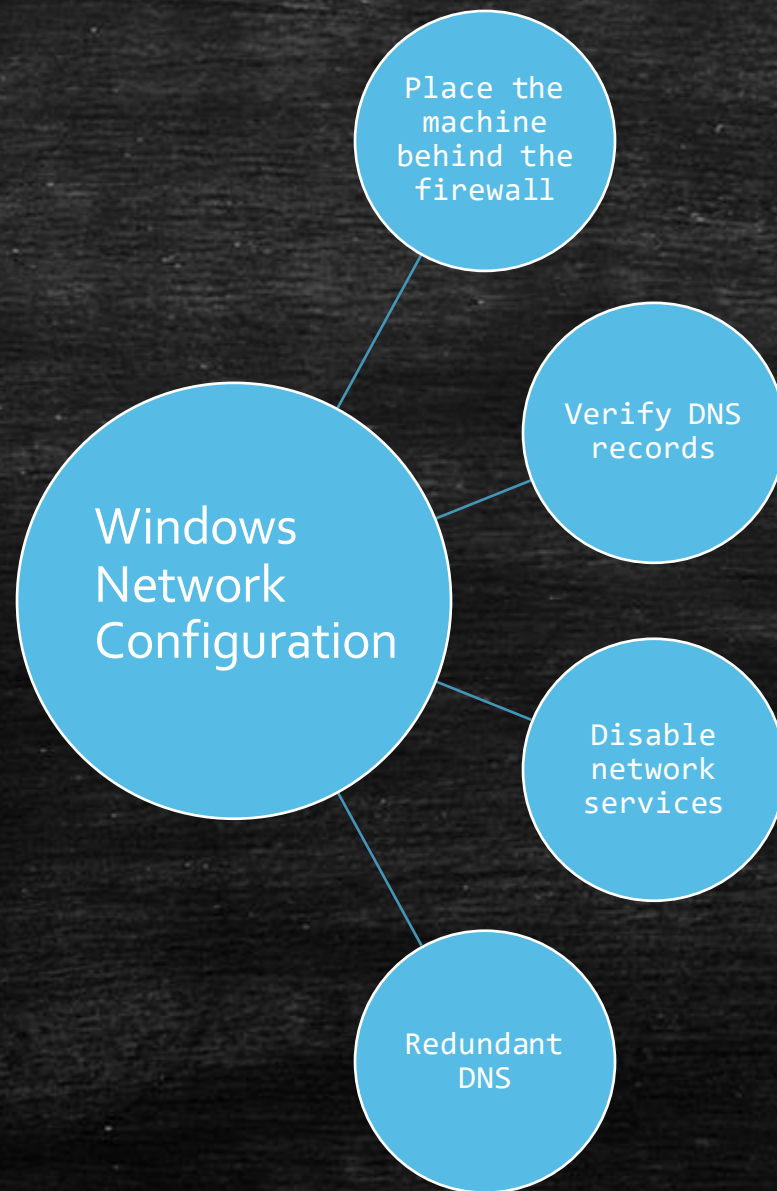
1. Windows User Configuration
2. Windows Network Configuration
3. Windows Service Configuration
4. Network Time Protocol (NTP) Configuration
5. Centralized Event Logs

Windows User Configuration

Disable the
local
administrator

Set up a
custom admin
account

Prefer to run
as a regular
user account





Disable
unused
services

Limit
security
context

Windows Service
Configuration

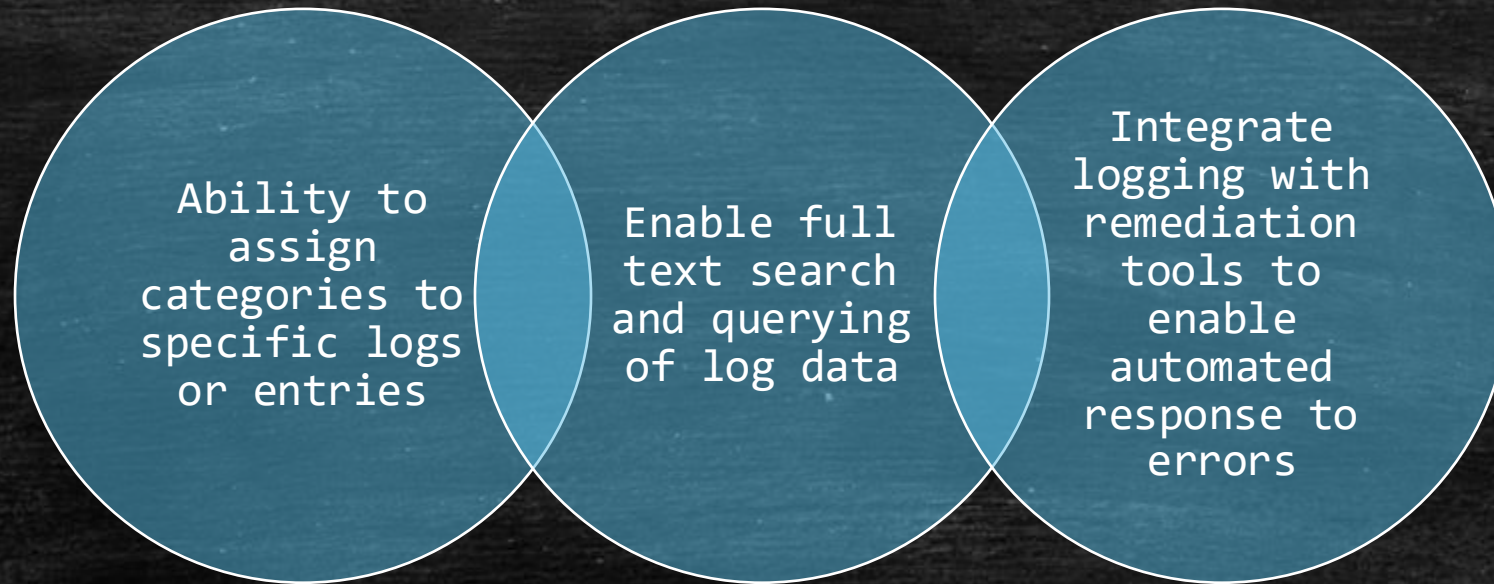
Network Time Protocol (NTP) Configuration

Servers within
domains
automatically sync
time with the
domain controller

Standalone servers
sync with an
external time
source

Domain controllers
sync with a time
server on an
ongoing basis

Centralized Event Logs



Windows Hardening Resources

- ❖ <https://www.hysolate.com/learn/os-isolation/windows-hardening-checklist-for-windows-server-windows-10/>
- ❖ <https://www.trentonsystems.com/blog/system-hardening-overview>
- ❖ <https://github.com/decalage2/awesome-security-hardening#windows>

Thank You For Your Attention

" Hacking Involves a different way of looking at problems that no one's
thought of "
- Walter O'Brien -