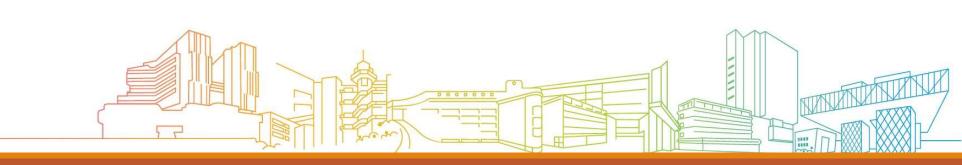


# Common Web Vulnerabilities and Data Leak Identification







Incident Reporting





Event Type	2022 Q2	2022 Q3	2022 Q4	2023 Q1	2023 Q2	quarter-to- quarter
Defacement	118	113	249	233	69	-70.4%
Phishing	5,033	7,141	13,574	2,804	1,120	-60.1%
Botnet (Bots)	3,642	3,684	2,285	2,583	2,227	-13.8%
Total	8,793	10,938	16,108	5,620	3,416	-39.2%



# OWASP Top 10 (2021)

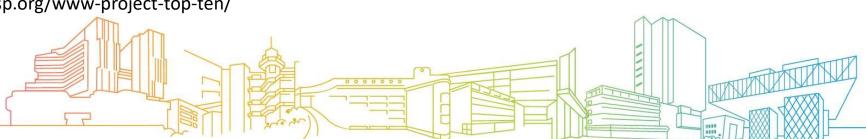


#### 2021

- → A01:2021-Broken Access Control
- A02:2021-Cryptographic Failures
- >A03:2021-Injection
- N) A04:2021-Insecure Design
- A05:2021-Security Misconfiguration
- > A06:2021-Vulnerable and Outdated Components
- A07:2021-Identification and Authentication Failures
- A08:2021-Software and Data Integrity Failures
- A09:2021-Security Logging and Monitoring Failures\*
- N) A10:2021-Server-Side Request Forgery (SSRF)\*

\* From the Survey

https://owasp.org/www-project-top-ten/





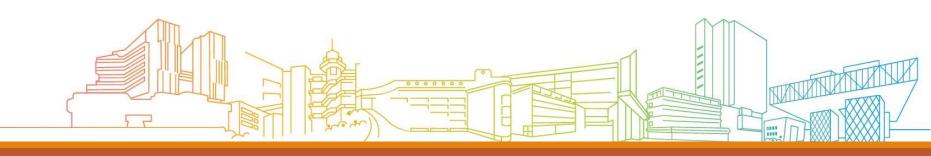


Hacking with Search Engines

Data Leaking Market

In-Service Training

Hands-On Lab (Onsite Only)



# Scanning

Map the network, catalog accessible hosts and identify exposed services.

Reconnaissance You are here! Scanning **Exploitation** Post exploitation

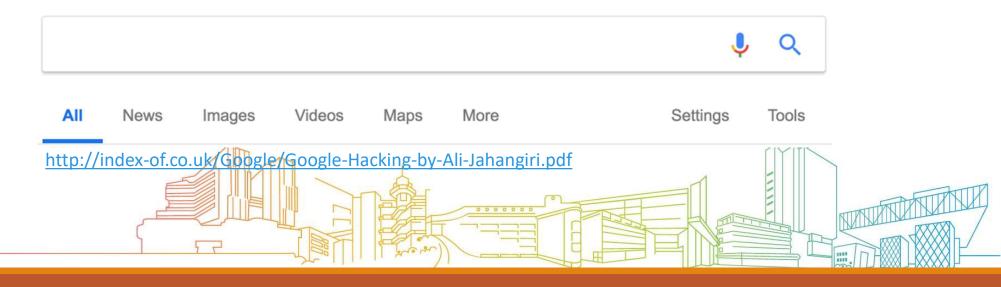


## Search Command

Search engine commands (特定搜索指令)

Complex search queries (運算符號)

List: https://ahrefs.com/blog/google-advanced-search-operators/



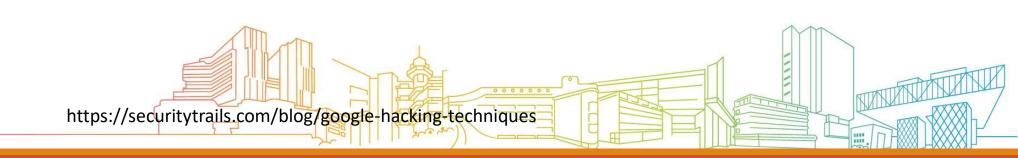


# Command: filetype

Search for any kind of file extensions(副檔名),

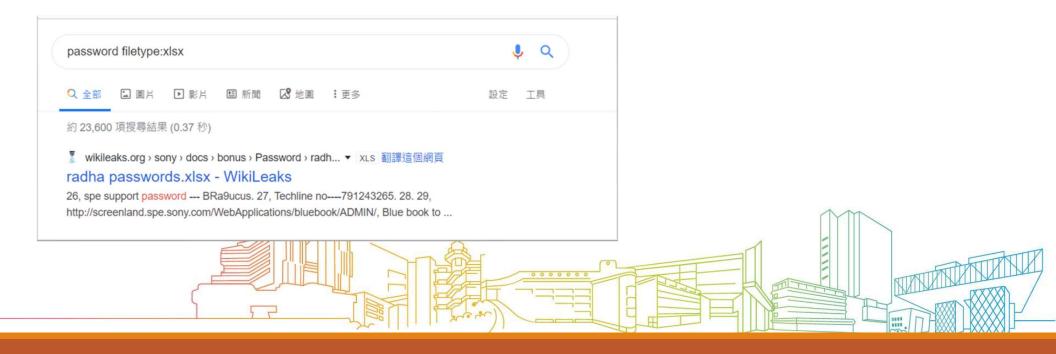
• e.g. :Excel = filetype: xlsx

Stored **passwords** in a single file on public internet











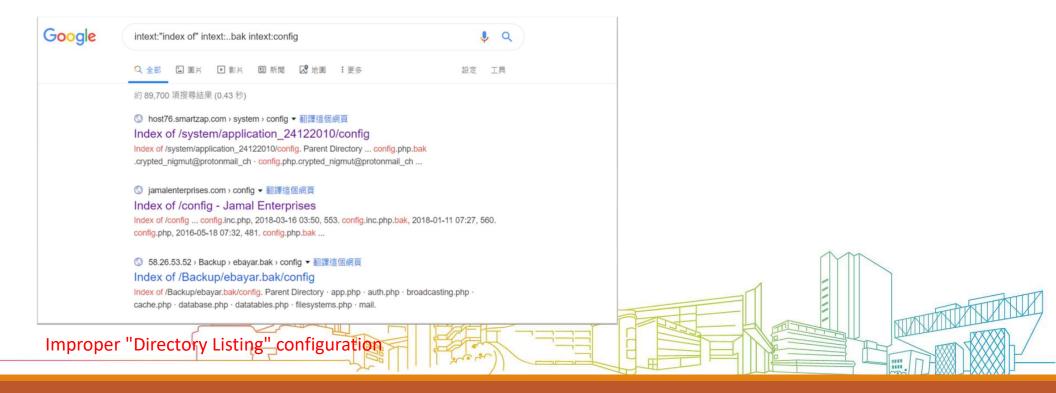
## Command: intext

intext: useful to **locate pages** that contain certain characters or strings **inside their text (**於顯示文字中搜索特定字眼)

Version number / software / feature name



# Command: intext:"index of" intext:..bak intext:confi

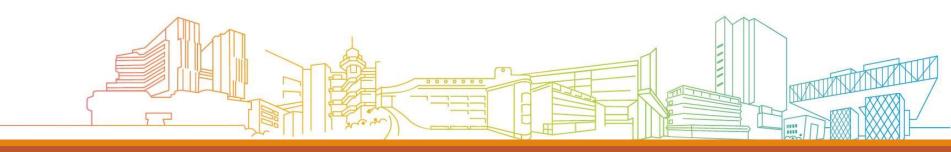




# Command – site: Filter for limiting the searching scope by the domain

https://medium.com/@cuncis/google-dork-cheat-sheet-for-finding-hidden-admin-panels-379e3414d486

intitle:"admin login" site:example.com — This searches for pages with "admin login" in the title of the page on a specific website



#### https://www.exploit-db.com/google-hacking-database

#### Google Hacking Database

Show 15 V

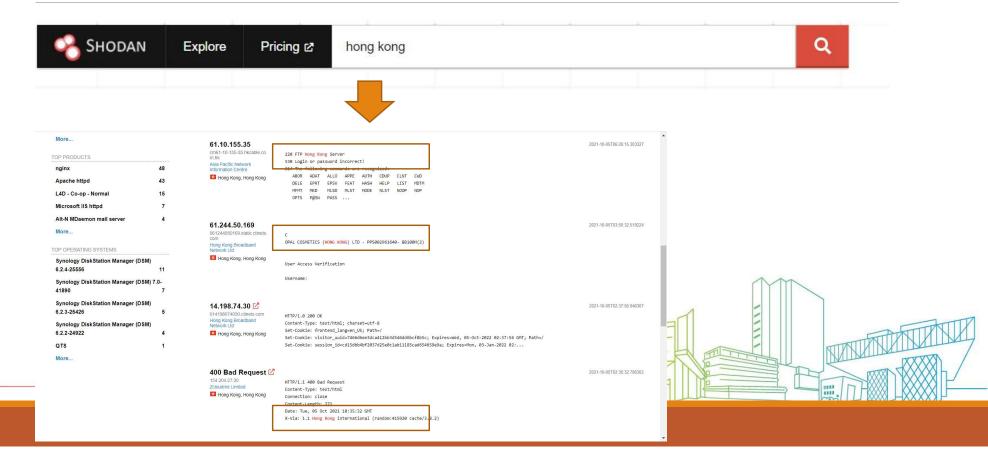


Date Adde	ed Dork
2023-10-16	intitle:"Index of" inurl:/backup/ "wp-config"
2023-10-02	intitle:"index of" "backup.zip"
2023-05-26	intitle:"Index of" inurl:/backup/ "admin.zip"
2023-05-26	Re: "index of /backup.sql
2023-05-05	inurl:"wp-content" intitle:"index.of" intext:backup"
2023-04-20	intext:"Index of" intext:"backup.tar"
2023-02-22	inurl:backup filetype:sql
2022-06-16	intitle:index of /backup private
2022-06-15	=?UTF-8?Q?=E2=80=9CIndex_of_/backup=E2=80=9D?=
2021-11-08	intitle:"database" "backup" filetype:sql
2021-10-28	intitle:"index of" "/backup/sql"
2021-10-13	intitle: "index of" "admin" "/backup"
2021-10-06	intitle: "index of backup.xml"
2021-10-06	intitle: "index of backup.php"
2021-05-21	intitle:"Server Backup Manager SE"
01 1 1 15	CEO. 11 (Ct. 15) TOOC 11 13 \



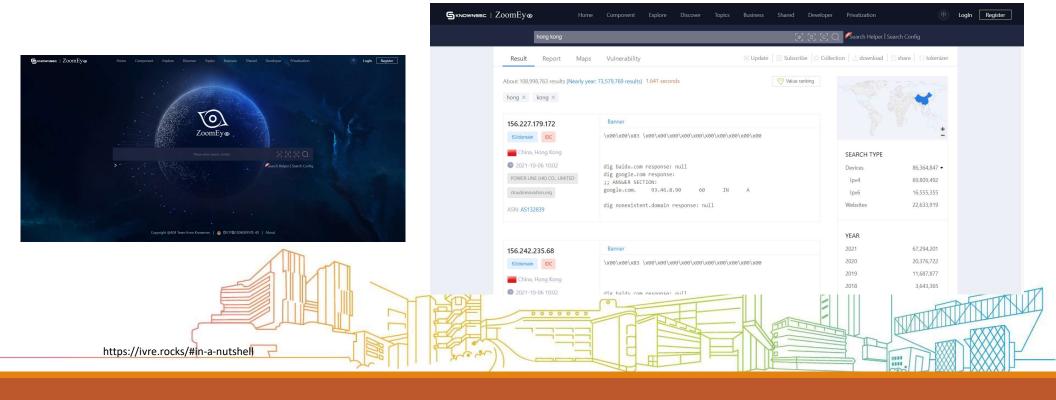






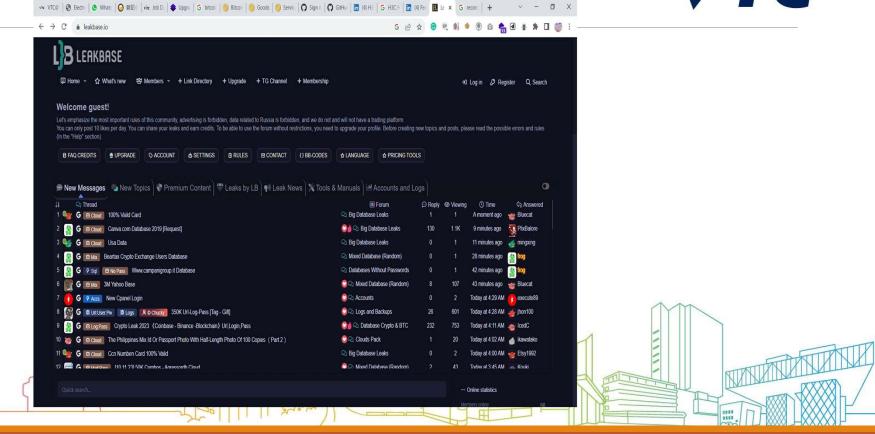




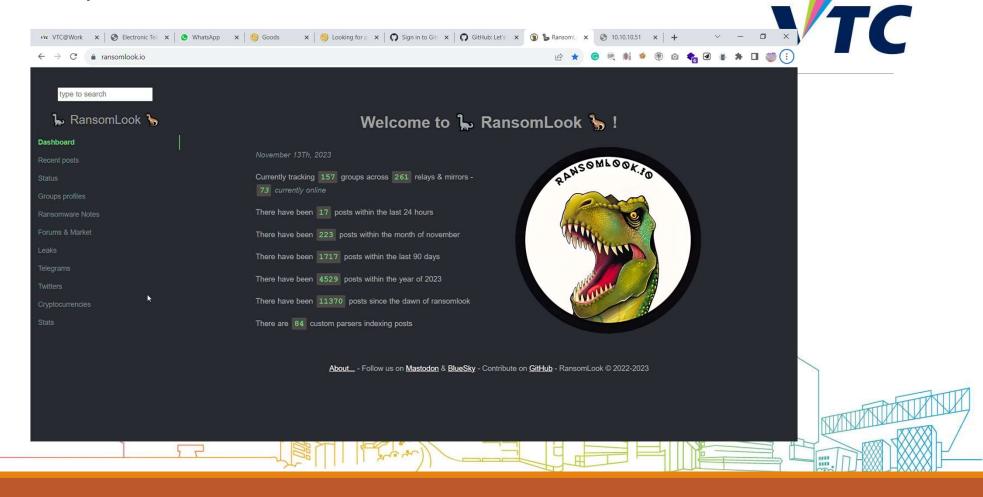


#### Black Market





## https://www.ransomlook.io/leaks





### Solution?

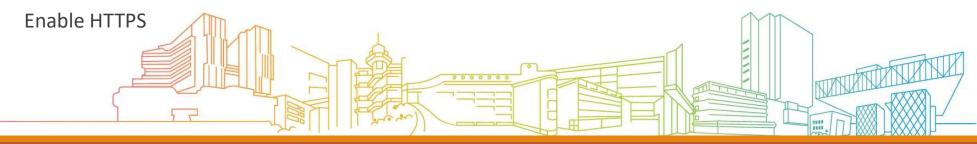
Access control to the System management page / the page content (Server settings / Application-level controls)

Using VPN / SSL VPN to access internal resource (Intranet)

Apply 2-Factor Authentication

Also....

Keeps update the system



# **Cybersecurity Centre**



- Cyber Range
- Penetration testing Lab
- Malware Analysis Lab









CyberRange

**SIEM** 



**Hardware Security Training Kit** 



**Purple Team Training** System

**Malware Analysis and Reverse Engineering Tools** 





**Targets** 

Competitions
Events
Workshops
Taster
Programmes

Raise public awareness of cybersecurity

Professional Courses



# The Lab for Today



- 1. Scan the targeted hosts for available ports
- 2. Discover the services running on the server
- 3. Find the vulnerabilities on the running web pages
- 4. Injection the backdoor by using the vulnerabilities found
- 5. Accessing to the backdoor and run the malicious commands

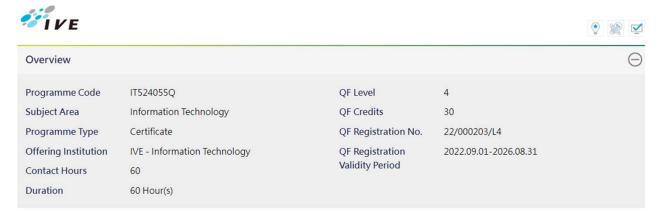


# Certificate in Web Application Penetration Testing

#### Certificate in Web Application Penetration Testing



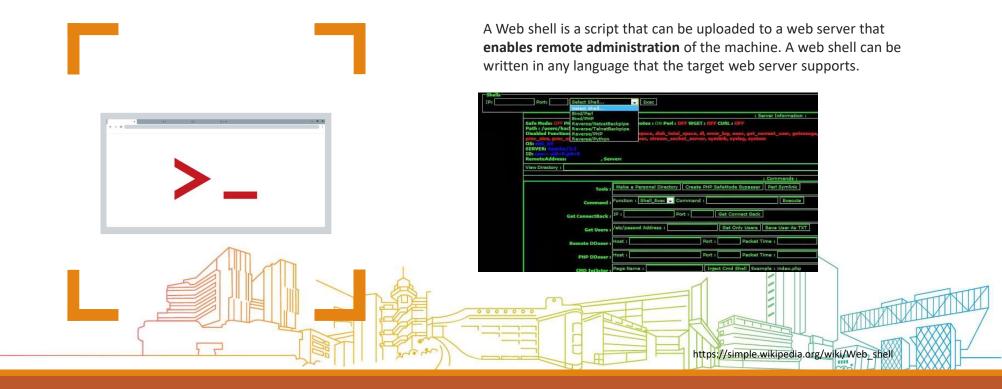
**IVE - Information Technology** 



https://cpe\_vtc\_edulhk/en/admission/programmes/%E7%B6%B2%E9%A0%81%E7%A828B8%E5%BC%8F%E6%BB% B2%E9%80%8E%E6%B8%AC%E8%A9%A6%E8%AD%89%E6%9B%B8/HT5240550/1

# **Web Shell**





Using the features (weakness) of PHPMyAdmin to inject the PHP codes into the webserver.



Accessing the injected backdoor page to run malicious commands



