

A. Learning Outcome Through the Contest 透過比賽所學到的知識

1. Creative thinking
創意思維
2. Internet search skill
網絡搜索技巧
3. Computer security concept, e.g. reverse engineering
電腦保安概念，例如逆向工程
4. Networking, e.g. TCP/IP, HTTP
網絡知識，例如 TCP/IP, HTTP
5. Mathematics of cryptography
密碼學
6. Programming concept and language, e.g. Python, JavaScript, Assembly, Structured Query Language (SQL), HTML
編程概念及語言，例如 Python, JavaScript, Assembly, Structured Query Language (SQL), HTML

B. Type of Challenges and Samples 題目類型、範例及解決方法

- Binary Exploitation
 - [Sample questions and solutions](#) 範例及解決方法
- Cryptography
 - [Sample questions and solutions](#) 範例及解決方法
- Forensics
 - [Sample questions and solutions](#) 範例及解決方法
- Reverse Engineering
 - [Sample questions and solutions](#) 範例及解決方法
- Web Exploitation
 - [Sample questions and solutions](#) 範例及解決方法
- Miscellaneous

- [Sample questions and solutions 範例及解決方法](#)

C. Basic Computer Requirement 基本電腦要求

- A computer with web browser
電腦，並安裝了網頁瀏覽器

D. Useful Tools 常用工具

1. Desktop 桌面

Type	Tool
Compression utilities	Any Zip tools
File editor	Any text editor
File editor	Any Hex editor
File viewer	Any image viewer
File viewer	Any PDF viewer
Network utilities	Ncat
Network utilities	Nmap
Network utilities	Wireshark
Network utilities	Burp suite
Password crack utilities	Any password crack tool
Terminal emulator	Putty

2. Online 網上

- Compiler, e.g.
 - Python
 - https://www.w3schools.com/python/trypython.asp?filename=demo_compiler
 - JavaScript
 - <https://jsfiddle.net>

E. Online Resources 網上資源

Learning 學習

1. picoCTF: <https://picoctf.org/resources>
2. CTF 101: <https://ctf101.org>
3. HackerOne: <https://www.hacker101.com/videos>
4. Web XSS: <https://prompt.ml/0>
5. Cryptography: <https://cryptohack.org>
6. Binary exploitation: <https://pwnable.tw>

Practice 練習

1. picoCTF: <https://play.picoctf.org/practice> (require registration)
2. HSCTF3: <https://jacobedelman.gitbooks.io/hsctf-3-practice-problems/content/>
3. CTFlearn: <https://ctflearn.com> (require registration)

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