We have again been given the target machine IP address, which is 10.129.161.178, let's start straight away with another port scan and service enumeration:

```
┌─[us-starting-point-2-dhcp]─[10.10.14.203]─[emrom8@htb-wwcaodu5rp]─[~]
└──╼ [★]$ nmap -p- -sV 10.129.161.178
Starting Nmap 7.94SVN ( https://nmap.org ) at 2025-07-06 09:27 CDT
Nmap scan report for 10.129.161.178
Host is up (0.010s latency).
Not shown: 65534 closed tcp ports (reset)
PORT   STATE SERVICE VERSION
21/tcp open  ftp     vsftpd 3.0.3
Service Info: OS: Unix

Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 6.19 seconds
┌─[us-starting-point-2-dhcp]─[10.10.14.203]─[emrom8@htb-wwcaodu5rp]─[~]
└──╼ [★]$
```

From this scan we can determine FTP version running on the target is vsftpd 3.0.3. We know now that this machine is running FTP, and we can usually login without with 'anonymous.

We were further prompted for a password which we can guess was just 'password':

```
┌─[us-starting-point-2-dhcp]─[10.10.14.203]─[emrom8@htb-wwcaodu5rp]─[~]
└──╼ [★]$ ftp anonymous@10.129.161.178
Connected to 10.129.161.178.
220 (vsFTPd 3.0.3)
331 Please specify the password.
Password:
230 Login successful.
Remote system type is UNIX.
Using binary mode to transfer files.
ftp>
```

Let's see what is in our directory and download the flag file:

```
ftp> ls
229 Entering Extended Passive Mode (|||42752|)
150 Here comes the directory listing.
-rw-r--r--    1 0        0              32 Jun 04  2021 flag.txt
226 Directory send OK.
ftp> get flag.txt
local: flag.txt remote: flag.txt
229 Entering Extended Passive Mode (|||58542|)
150 Opening BINARY mode data connection for flag.txt (32 bytes).
100% |***********************************************|    32       12.02 KiB/s    00:00 ETA
226 Transfer complete.
32 bytes received in 00:00 (2.71 KiB/s)
ftp>
```

Once downloaded we should be able to open the file in our home directory:

```
┌─[us-starting-point-2-dhcp]─[10.10.14.203]─[emrom8@htb-wwcaodu5rp]─[~]
└──╼ [★]$ ls
cacert.der  Documents  flag.txt  my_data   Public     Videos
Desktop     Downloads  Music     Pictures  Templates
┌─[us-starting-point-2-dhcp]─[10.10.14.203]─[emrom8@htb-wwcaodu5rp]─[~]
└──╼ [★]$ cat flag.txt
035db21c881520061c53e0536e44f815┌─[us-starting-point-2-dhcp]─[10.10.14.203]─[emrom8@htb-wwcaodu5rp]─[~]
└──╼ [★]$
```

Great!