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EXERCISE 8

BUILDING AN ANONYMOUS FTP SCANNER USING FTPLIB MODULE

INTRO:

FTP is a legacy protocol used for transferring files between hosts. Some servers allow anonymous login so that the public can upload/download files according to the server's policy.

AIM:

1. Demonstrate how an FTP client can test for anonymous access on a target list of hosts.
2. Record and classify responses.
3. Evaluate potential security implications and produce a reproducible report of findings.
4. Emphasize ethical /legal cons.

ALGORITHM:

1. Gather authorization and targets.
2. Set conservative test parameters.
3. Prepare logging.
4. DNS resolution.
5. Attempt anonymous login.
6. Post processing.
7. Cleanup and reporting.

CODE:

```
import ftplib

def anonymousLogin(hostname):

    try:

        ftp = ftplib.FTP(hostname)

        response = ftp.login('anonymous', 'anonymous')

        print(response)

        if "230 Anonymous access granted" in response:

            print('\n[*] ' + str(hostname) + ' FTP Anonymous Login Succeeded.')
```

```

        print(ftp.getwelcome())

        ftp.dir()

except Exception as e:

    print(str(e))

    print('\n[-] ' + str(hostname) + ' FTP Anonymous Login Failed.')

hostname = 'ftp.be.debian.org'

anonymousLogin(hostname)

```

OUTPUT:

```

Microsoft Windows [Version 10.0.26100.6584]
(c) Microsoft Corporation. All rights reserved.

C:\Users\SIVARANJANII>python any.py
230-Welcome to mirror.as35701.net.

The server is located in Brussels, Belgium.

Server connected with gigabit ethernet to the internet.

The server maintains software archive accessible via ftp, http, https and rsync.

ftp.be.debian.org is an alias for this host, but https will not work with that
alias. If you want to use https use mirror.as35701.net.

Contact: mirror-admin at as35701.net

230 Anonymous access granted, restrictions apply

[*] ftp.be.debian.org FTP Anonymous Login Succeeded.
220 ProFTPD Server (mirror.as35701.net) [2a05:7300:0:100:195:234:45:114]
drwxr-xr-x  9 ftp      ftp      4096 Oct  6 02:46 debian
drwxr-xr-x  5 ftp      ftp      105 Sep  7 06:58 debian-cd
drwxr-xr-x  7 ftp      ftp      4096 Oct  5 12:31 debian-security
drwxr-xr-x  5 ftp      ftp      4096 Oct 13 2006 ftp.irc.org
-rw-r--r--  1 ftp      ftp      717 Apr 15 08:10 HEADER.html
drwxr-xr-x  5 ftp      ftp      4096 Oct  6 07:25 mint
drwxr-xr-x  5 ftp      ftp      49 May 16 11:49 mint-iso
lrwxrwxrwx  1 ftp      ftp        33 Apr 29 2021 pub -> /var/www/html/www.kernel.org/pub/
drwxr-xr-x  7 ftp      ftp      4096 Oct  6 04:44 ubuntu
drwxr-xr-x 39 ftp      ftp      4096 Oct  6 07:24 ubuntu-cdimage
drwxr-xr-x 32 ftp      ftp      4096 Oct  6 07:30 ubuntu-cloudimages
drwxr-xr-x  7 ftp      ftp      4096 Oct  6 05:28 ubuntu-ports
drwxr-xr-x 16 ftp      ftp      4096 Oct  6 01:24 ubuntu-releases
drwxr-xr-x 25 ftp      ftp      303 Oct  6 07:02 video.fosdem.org
-rw-r--r--  1 ftp      ftp      390 Jul  9 2021 welcome.msg
drwxr-xr-x  4 ftp      ftp      4096 Jun 14 2023 www.kernel.org

```

RESULT:

Thus, the anonymous FTP scanner has been built using Ftplib module successfully.