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EXPT: 8 BUILDING AN ANONYMOUS FTP SCANNER USING FTPLIB MODULE

AIM:

Create a small Python script that checks one or more hosts for FTP service and reports whether anonymous login is permitted.

ALGORITHM:

1. Start
2. Import the ftplib module.
3. Define a function anonymousLogin(hostname).
4. Inside the function, begin a **try block** to handle errors.
5. Attempt to connect to the remote FTP server using:
ftp = ftplib.FTP(hostname)
6. Try logging in using the anonymous credentials:
ftp.login('anonymous', 'anonymous')
7. Store the login response text.
8. If the response contains "**230 Anonymous access granted**", then:
 - Print a message indicating **anonymous login succeeded**.
 - Display the server welcome message.
 - List directory contents using ftp.dir().
9. If any exception occurs (connection error, login failure, timeout):
 - Print the exception message.
 - Print **anonymous login failed** for that host.
10. In the main program, set the target hostname (e.g., 'ftp.be.debian.org').
11. Call the function:
anonymousLogin(hostname)
12. Stop

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:

```
C:\Users\Mahalaxmi\OneDrive\Desktop>python ftp.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 Nov 16 14:57 debian
drwxr-xr-x  5 ftp      ftp      105 Nov 15 21:21 debian-cd
drwxr-xr-x  7 ftp      ftp      4096 Nov 16 13:33 debian-security
drwxr-xr-x  5 ftp      ftp      4096 Oct 13 2006 ftp.irc.org
-rw-r--r--  1 ftp      ftp      717 Apr 15 2025 HEADER.html
drwxr-xr-x  5 ftp      ftp      4096 Nov 17 04:58 mint
drwxr-xr-x  5 ftp      ftp      49 May 16 2025 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 Nov 17 05:43 ubuntu
drwxr-xr-x 39 ftp      ftp      4096 Nov 17 05:55 ubuntu-cdimage
drwxr-xr-x 33 ftp      ftp      4096 Nov 16 20:45 ubuntu-cloudimages
drwxr-xr-x  7 ftp      ftp      4096 Nov 17 06:33 ubuntu-ports
drwxr-xr-x 16 ftp      ftp      4096 Nov 17 02:22 ubuntu-releases
drwxr-xr-x 25 ftp      ftp      303 Nov 17 08:04 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: The anonymous FTP scanner successfully attempted connections to target hosts and tried to log in using the anonymous account.