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EXP : 7   **Building anonymous FTP Scanner using ftplib module**   **Date:2/9/25**

Aim:

The provided Python script uses the built-in ftplib module to test if an FTP server allows anonymous login.

Introduction:

The script attempts to connect anonymously to an FTP server by logging in with the username "anonymous" and password "anonymous." This type of login lets users access the FTP server without a personal account, commonly used for public servers allowing open downloads.

ALGORITHM

1. The function anonymousLogin(hostname) connects to the FTP server at the given hostname.

2. It tries to log in using ftp.login('anonymous', 'anonymous').

3. If the response contains "230 Anonymous access granted," it indicates a successful anonymous login.

4. On success, it prints a success message, the welcome message from the server, and lists the directory contents.

5. If login fails or any exception occurs, it prints an error message indicating failure.

Program:

```
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\swarn\Documents>python k.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  1 08:58 debian
drwxr-xr-x   5 ftp      ftp           105 Sep  7 06:58 debian-cd
drwxr-xr-x   7 ftp      ftp          4096 Oct  1 00:35 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  1 07:23 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  1 08:54 ubuntu
drwxr-xr-x  39 ftp      ftp          4096 Oct  1 08:08 ubuntu-cdimage
drwxr-xr-x  32 ftp      ftp          4096 Oct  1 07:18 ubuntu-cloudimages
drwxr-xr-x   7 ftp      ftp          4096 Oct  1 05:55 ubuntu-ports
drwxr-xr-x  16 ftp      ftp          4096 Oct  1 01:23 ubuntu-releases
drwxr-xr-x  25 ftp      ftp           303 Oct  1 07:05 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

C:\Users\swarn\Documents>python k.py
```

RESULT:

Hence the program has been implemented and we successfully did anonymous login.