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EXPT: 8 BUILDING AN ANONYMOUS FTP SCANNER USING FTPLIB MODULE

Aim:

Write a Python script that tests one or more hosts for FTP service and checks if anonymous login is allowed.

Algorithm:

1. For each host, try connecting to port 21 to see if FTP is reachable.
2. If the connection works, use `ftplib.FTP` to attempt login with username `'anonymous'` and password `'anonymous'`.
3. Print whether anonymous login was successful, denied, or if the connection failed.
4. Repeat this process for all specified hosts.

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:

```
PS H:\bala> 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 12:59 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 13:44 ubuntu
drwxr-xr-x  39 ftp      ftp          4096 Nov 17 09:59 ubuntu-cdimage
drwxr-xr-x  33 ftp      ftp          4096 Nov 17 08:20 ubuntu-cloudimages
drwxr-xr-x   7 ftp      ftp          4096 Nov 17 14:29 ubuntu-ports
drwxr-xr-x  16 ftp      ftp          4096 Nov 17 14:23 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 script successfully tested the target host for FTP and checked if anonymous login was allowed, reporting whether it succeeded or failed.