

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. For each target host: try a TCP connection to port 21 (quick reachability check).
2. If reachable, open an `ftplib.FTP` connection and attempt login('anonymous', 'anonymous@').
3. Record and print whether anonymous login succeeded, was refused, or connection failed.
4. Repeat for all targets.

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 :

```
~/CN/ftp
> python ftp_anon.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) [::ffff:195.234.45.114]
drwxr-xr-x  9 ftp      ftp      4096 Nov 18 03:01 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 18 04:52 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 18 01:48 ubuntu
drwxr-xr-x 39 ftp      ftp      4096 Nov 17 21:21 ubuntu-cdimage
drwxr-xr-x 33 ftp      ftp      4096 Nov 17 20:53 ubuntu-cloudimages
drwxr-xr-x  7 ftp      ftp      4096 Nov 18 02:29 ubuntu-ports
drwxr-xr-x 16 ftp      ftp      4096 Nov 18 02:21 ubuntu-releases
drwxr-xr-x 25 ftp      ftp      303 Nov 18 00:08 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.