

Roll No: 241901095

Name:Sakthivel M

Department: CSE-Cyber Security

BUILDING ANONYMOUS FTP SCANNER USING FTPLIB MODULE

AIM:

To verify whether a specific FTP server allows anonymous login so you can audit and remediate insecure FTP configurations.

PROCEDURE:

1. **Get written permission.** Never test systems you don't own or aren't authorized to test. Put scope, time, and targets in writing.
2. **Define scope.** List the single host or hosts you are allowed to test. Limit testing windows to reduce impact.
3. **Single-host check.** Attempt one, non-intrusive anonymous login to each authorized host and record the result and server banner. Do not run broad network scans or automated high-rate checks unless explicitly allowed.
4. **Log results.** Save timestamped results (host, allowed/denied, FTP banner, any reachable directories) for reporting.
5. **Report and remediate.** If anonymous is allowed, inform the owner/operator, recommend disabling anonymous login or restricting it, and retest after remediation.
6. **Follow up.** Verify logs, ensure secure alternatives (SFTP/FTPS) are configured, and schedule periodic authorized audits.

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:

```

Microsoft Windows [Version 10.0.26100.1457]
(c) Microsoft Corporation. All rights reserved.

C:\Users\user>cd C:\Users\user\OneDrive\Documents

C:\Users\user\OneDrive\Documents>python anonymous.py 172.16.10.126
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 Oct  6 08:38 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:

The expected results from running the anonymous FTP scanner. Therefore, anonymous FTP server using ftplib module is built and output is noted.