# :mod:`ftplib` --- FTP protocol client

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpythonc\library\(cpython-main) (Doc) (library)ftplib.rst, line 1); backlink

Unknown interpreted text role "mod".

 $System\,Message:\,ERROR/3\,(\texttt{D:}\label{local_control_c$ ain\Doc\library\(cpython-main)(Doc)(library)ftplib.rst, line 4)

Unknown directive type "module".

```
:synopsis: FTP protocol client (requires sockets).
```

Source code: :source:`Lib/ftplib.py

 $System\,Message:\,ERROR/3\,(\text{D:}\colored ing-resources}) ample-onboarding-resources) courses and the colored ing-resources are considered in the colored ing-resources. The colored ing-resources are considered in the colored ing-resources are considered in the colored ing-resources. The colored indicates are considered in the colored indicates are colored in the colored indicates are colored in the colored indicates and colored indicates are colored in the colored indicates are colored indicates are colored in the colored in$ hin\Doc\library\(cpython-main)(Doc)(library)ftplib.rst, line 7); backlink

Unknown interpreted text role "source".

 $System\,Message:\,ERROR/3\,(\text{D:}\colored ing-resources}) ample-onboarding-resources) coupled in the colored index of the colored index$ main\Doc\library\(cpython-main) (Doc) (library) ftplib.rst, line 9)

Unknown directive type "index".

```
.. index::
  pair: FTP; protocol
  single: FTP; ftplib (standard module)
```

This module defines the class 'class' FTP' and a few related items. The 'class' FTP' class implements the client side of the FTP protocol. You can use this to write Python programs that perform a variety of automated FTP jobs, such as mirroring other FTP servers. It is also used by the module "mod.' urllib.request' to handle URLs that use FTP. For more information on FTP (File Transfer Protocol), see internet RFC 959.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpythonmain\Doc\library\(cpython-main) (Doc) (library) ftplib.rst, line 15); backlink

Unknown interpreted text role "class".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources in\Doc\library\(cpython main) (Doc) (library) ftplib.rst, line 15); backlink

Unknown interpreted text role "class".

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Unknown interpreted text role "mod".

The default encoding is UTF-8, following RFC 2640.

Here's a sample session using the :mod:'ftplib' module:

 $System\,Message:\,ERROR/3\, (\texttt{D:} \verb|\conting-resources| sample-onboarding-resources| cpython-onboarding-resources| conting-resources| conting-reso$ ain\Doc\library\(cpython-main) (Doc) (library) ftplib.rst, line 24); backlink

Unknown interpreted text role "mod".

```
>>> from ftplib import FTP
>>> ftp = FTP('ftp.us.debian.org')  # connect to host, default port
>>> ftp.login()  # user anonymous, passwd anonymous@
'230 Login successful.'
  # change into "debian" directory
'250 Directory successfully changed.'
>>> ftp.retrlines('LIST') # list directory contents
-rw-rw-r- 1 1176 1176 1063 Jun 15 10:18 README
drwxr-sr-x 5 1176 1176 4096 Dec 1
drwxr-sr-x 4 1176 1176 4096 Nov 1
drwxr-xr-x 3 1176 1176 4096 Nov 1
'226 Directory send OK.'
>>> with open ('README', 'wb') as fp:
>>> ftp.retrbinary('RETR README', fp.write)
'226 Transfer complete.'
>>> ftp.quit()
                                                                                            4096 Dec 19 2000 pool
4096 Nov 17 2008 project
4096 Oct 10 2012 tools
  >>> ftp.quit()
'221 Goodbye.'
```

The module defines the following items:

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-re main\Doc\library\(cpython-main) (Doc) (library) ftplib.rst, line 48)

Invalid class attribute value for "class" directive: "FTP(host=", user=", passwd=", acct=", timeout=None, source\_address=None, \*, encoding='utf-8')".

```
.. class:: FTP(host='', user='', passwd='', acct='', timeout=None, source_address=None, *, encoding='utf-8')
```

Return a new instance of the :class: `FTP` class. When \*host\* is given, the method call `'connect(host)`' is made. When \*user\* is given, additionally the method call `'login(user, passwd, acct)`' is made (where \*passwd\* and \*acct\* default to the empty string when not given). The optional \*timeout\* parameter specifies a timeout in seconds for blocking operations like the connection attempt (if is not specified, the global default timeout setting will be used). \*source address\* is a 2-tuple `'(host, port)`' for the socket to bind to as its source address before connecting. The \*encoding\* parameter specifies the encoding for directories and filenames.

```
The :class: `FTP` class supports the :keyword: `with` statement, e.g.:
```

```
>>> from ftplib import FTP
>>> with FTP("ftpl.at.proftpd.org") as ftp:
... ftp.login()
... ftp.dir()
... ftp.dir()
... ft doctest: +GKIP
'230 Anonymous login ok, restrictions apply.'
dr=xr=xr=x 9 ftp ftp 154 May 6 10:43 .
dr=xr=xr=x 9 ftp ftp 154 May 6 10:43 .
dr=xr=xr=x 5 ftp ftp 4096 May 6 10:43 CentOS
dr=xr=xr=x 3 ftp ftp 18 Jul 10 2008 Fedora
>>>
```

```
.. versionchanged:: 3.2
                Support for the :keyword:`with` statement was added.
                versionchanged:: 3.3
*source_address* parameter was added.
           .. versionchanged:: 3.9

If the *timeout* parameter is set to be zero, it will raise a :class:'ValueError' to prevent the creation of a non-blocking socket. The *encoding* parameter was added, and the default was changed from Latin-1 to UTF-8 to follow :rfc:'2640'.
System Message: ERROR/3 (D:\onboarding-resources\s
     .n\Doc\library\(cpython-main) (Doc) (library) ftplib.rst, line 86)
Invalid class attribute value for "class" directive: "FTP_TLS(host=", user=", passwd=", acct=", keyfile=None,
certfile=None, context=None, timeout=None, source_address=None, *, encoding='utf-8')".
      .. class:: FTP_TLS(host='', user='', passwd='', acct='', keyfile=None, certfile=None,
                                                                                                                                                                 ontext=None, timeout=None, source_address=No
           A :class:`FTP` subclass which adds TLS support to FTP as described in
           rfc: 4217.

Connect as usual to port 21 implicitly securing the FTP control connection
          before authenticating. Securing the data connection requires the user to explicitly ask for it by calling the imeth: prot p' method. *context* is a :class: ssl.SSLContext` object which allows bundling SSL configuration options, certificates and private keys into a single (potentially long-lived) structure. Please read :ref:`ssl-security` for best practices.
           *keyfile* and *certfile* are a legacy alternative to *context* -- can point to PEM-formatted private key and certificate chain files (respectively) for the SSL connection.
           .. versionadded:: 3.2
           .. versionchanged:: 3.3
*source_address* parameter was added.
           .. versionchanged:: 3.4
                The class now supports hostname check with :attr:`ssl.SSLContext.check_hostname` and *Server Name Indication* (see :data:`ssl.HAS_SNI`).
                  *keyfile* and *certfile* are deprecated in favor of *context*. Please use :meth:`ssl.SSLContext.load_cert_chain` instead, or let :func:`ssl.create_default_context` select the system's trusted CA
                   certificates for you.
           .. versionchanged:: 3.9

If the *timeout* parameter is set to be zero, it will raise a :class: 'ValueError' to prevent the creation of a non-blocking socket. The *encoding* parameter was added, and the default was changed from Latin-1 to UTF-8 to follow :rfc: '2640'.
           Here's a sample session using the :class:`FTP_TLS` class::
                 >>> ftps = FTP_TLS('ftp.pureftpd.org')
>>> ftps.login()
                 >>> ftps.login()
'230 Anonymous user logged in'
                >>> ftps.prot_p()
'200 Data protection level set to "private"'
                >>> ftps.nlst()
['6jack', 'OpenBSD', 'antilink', 'blogbench', 'bsdcam', 'clockspeed', 'djbdns-jedi', 'docs', 'eaccelerator-jedi', 'favicon.ic
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython main\Doc\library\(cpython-main) (Doc) (library) ftplib.rst, line 135)

Unknown directive type "exception".

.. exception:: error\_reply

Exception raised when an unexpected reply is received from the server.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main) (Doc) (library) ftplib.rst, line 140)

Unknown directive type "exception".

.. exception:: error\_temp

Exception raised when an error code signifying a temporary error (response codes in the range 400-499) is received.

System Message: ERROR/3 (p:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main) (Doc) (library)ftplib.rst, line 146)

Unknown directive type "exception".

.. exception:: error\_per

Exception raised when an error code signifying a permanent error (response codes in the range 500--599) is received.

 $System Message: ERROR/3 (p:\onboarding-resources\ample-onboarding-resources\cpython-main\doc\library\cpython-main) (Doc) (library) ftplib.rst, line 152)$ 

Unknown directive type "exception".

.. exception:: error\_proto

Exception raised when a reply is received from the server that does not fit the response specifications of the File Transfer Protocol, i.e. begin with a digit in the range 1--5.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main) (Doc) (library) ftplib.rst, line 159)

Unknown directive type "data".

.. data:: all\_errors

The set of all exceptions (as a tuple) that methods of :class: `FTP' instances may raise as a result of problems with the FTP connection (as opposed to programming errors made by the caller). This set includes the four exceptions listed above as well as :exc: `OSError` and :exc: `EOFError`.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main) (Doc) (library) ftplib.rst, line 167)

Unknown directive type "seealso".

Module :mod: `netro Parser for the :file:`.netrc` file format. The file :file:`.netrc` is typically used by FTP clients to load user authentication information before prompting the user.

## **FTP Objects**

Several methods are available in two flavors: one for handling text files and another for binary files. These are named for the command which is used followed by lines for the text version or binary for the binary version.

:class:'FTP' instances have the following methods:

System Message: ERROR/3 (D:\onl ain\Doc\library\(cpython-main) (Doc) (library) ftplib.rst, line 184); backlink

Unknown interpreted text role "class".

 $System\,Message:\,ERROR/3\,(\texttt{D:}\label{local_control_c$ ain\Doc\library\(cpython-main) (Doc) (library) ftplib.rst, line 187)

Unknown directive type "method".

.. method:: FTP.set\_debuglevel(level)

Set the instance's debugging level. This controls the amount of debugging output printed. The default, 'O', produces no debugging output. A value of 'l' produces a moderate amount of debugging output, generally a single line per request. A value of '2' or higher produces the maximum amount of debugging output, logging each line sent and received on the control connection.

System Message: ERROR/3 (D:\onboarding-r ain\Doc\library\(cpython-main) (Doc) (library) ftplib.rst, line 196)

Unknown directive type "method".

.. method:: FTP.connect(host='', port=0, timeout=None, source address=None)

Connect to the given host and port. The default port number is ``21``, as specified by the FTP protocol specification. It is rarely needed to specify a different port number. This function should be called only once for each instance; it should not be called at all if a host was given when the instance was created. All other methods can only be used after a connection has been

made.
The optional \*timeout\* parameter specifies a timeout in seconds for the connection attempt. If no \*timeout\* is passed, the global default timeout setting will be used.
\*source address\* is a 2-tuple ``(host, port)`` for the socket to bind to as its source address before connecting.

- .. audit-event:: ftplib.connect self,host,port ftplib.FTP.connect
- .. versionchanged:: 3.3
  \*source\_address\* parameter was added.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpythonnin\Doc\library\(cpython-main) (Doc) (library) ftplib.rst, line 216)

Unknown directive type "method".

Return the welcome message sent by the server in reply to the initial connection. (This message sometimes contains disclaimers or help information that may be relevant to the user.)

System Message: ERROR/3 (D:\onboarding-resources\sample-o nin\Doc\library\(cpython-main) (Doc) (library) ftplib.rst, line 223)

Unknown directive type "method".

.. method:: FTP.login(user='anonymous', passwd='', acct='')

Log in as the given \*user\*. The \*passwd\* and \*acct\* parameters are optional and default to the empty string. If no \*user\* is specified, it defaults to `'anonymous''`. If \*user\* is `'anonymous''`, the default \*passwd\* is ''anonymouse''`. This function should be called only once for each instance, after a connection has been established; it should not be called at all if a host and user were given when the instance was created. Most FTP commands are only allowed after the client has logged in. The \*acct\* parameter supplies "accounting information"; few systems implement this.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpythonn\Doc\library\(cpython-main) (Doc) (library) ftplib.rst, line 235)

Unknown directive type "method".

.. method:: FTP.abort()

Abort a file transfer that is in progress. Using this does not always work, but it's worth a try.

System Message: ERROR/3 (D:\onboarding-resources\sample-only rding-resources\cpython main\Doc\library\(cpython-main) (Doc) (library) ftplib.rst, line 241)

#### Unknown directive type "method".

.. method:: FTP.sendcmd(cmd)

Send a simple command string to the server and return the response string.

.. audit-event:: ftplib.sendcmd self,cmd ftplib.FTP.sendcmd

System Message: ERROR/3 (p:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main) (Doc) (library) ftplib.rst, line 248)

### Unknown directive type "method".

.. method:: FTP.voidcmd(cmd)

Send a simple command string to the server and handle the response. Returnothing if a response code corresponding to success (codes in the range 200--299) is received. Raise :exc:`error\_reply` otherwise.

.. audit-event:: ftplib.sendcmd self,cmd ftplib.FTP.voidcmd

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main) (Doc) (library) ftplib.rst, line 257)

### Unknown directive type "method".

.. method:: FTP.retrbinary(cmd, callback, blocksize=8192, rest=None)

Retrieve a file in binary transfer mode. \*cmd\* should be an appropriate ``RETR`` command: ``'RETR filename'``. The \*callback\* function is called for each block of data received, with a single bytes argument giving the data block. The optional \*blocksize\* argument specifies the maximum chunk size to read on the low-level socket object created to do the actual transfer (which will also be the largest size of the data blocks passed to \*callback\*). A reasonable default is chosen. \*rest\* means the same thing as in the :meth: `transfercmd` method.

System Message: ERROR/3 (p:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main\) (Doc) (library) ftplib.rst, line 269)

### Unknown directive type "method".

.. method:: FTP.retrlines(cmd, callback=None)

Retrieve a file or directory listing in the encoding specified by the \*encoding\* parameter at initialization.
\*cmd\* should be an appropriate ``RETR'` command (see :meth: retrbinary') or a command such as ``ILST'` or `NLST'` (usually just the string ``'LIST'`).
``LIST'` retrieves a list of files and information about those files.
'`NLST'` retrieves a list of file names.
The \*callback\* function is called for each line with a string argument containing the line with the trailing CRLF stripped. The default \*callback\* prints the line to ``sys.stdout'`.

System Message: ERROR/3 (p:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main)\ (Doc) (library) ftplib.rst, line 282)

# Unknown directive type "method".

.. method:: FTP.set\_pasv(val)

Enable "passive" mode if  $^*$ val $^*$  is true, otherwise disable passive mode. Passive mode is on by default.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main) (Doc) (library)ftplib.rst, line 288)

## Unknown directive type "method".

.. method:: FTP.storbinary(cmd, fp, blocksize=8192, callback=None, rest=None)

Store a file in binary transfer mode. \*cmd\* should be an appropriate ``STOR` command: ``"STOR filename"`. \*fp\* is a :term:'file object` (opened in binary mode) which is read until EOF using its :meth:`~io.IOBase.read` method in blocks of size \*blocksize\* to provide the data to be stored. The \*blocksize\* argument defaults to 8192. \*callback\* is an optional single parameter callable that is called on each block of data after it is sent. \*rest\* means the same thing as in the :meth:`transfercmd` method.

.. versionchanged:: 3.2 \*rest\* parameter added.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main) (Doc) (library)ftplib.rst, line 302)

## Unknown directive type "method".

.. method:: FTP.storlines(cmd, fp, callback=None)

Store a file in line mode. \*cmd\* should be an appropriate
``STOR`` command (see :meth: storbinary`). Lines are read until EOF from the
:term:'file object` \*fp\* (opened in binary mode) using its :meth: `-io.IOBase.readlime
method to provide the data to be stored. \*callback\* is an optional single
parameter callable that is called on each line after it is sent.

 $System Message: ERROR/3 \ (D:\nboarding-resources\ sample-onboarding-resources\ cpython main\ (Doc)\ (library)\ ftplib.rst, line\ 311)$ 

### Unknown directive type "method".

.. method:: FTP.transfercmd(cmd, rest=None)

Initiate a transfer over the data connection. If the transfer is active, send an ``EPRT`` or ``PORT`` command and the transfer command specified by \*cmd\*, and accept the connection. If the server is passive, send an ``EPSV'` or ``PASV'` command, connect to it, and start the transfer command. Either way, return the socket for the connection.

If optional \*rest\* is given, a ``REST`` command is sent to the server, passing

\*rest\* as an argument. \*rest\* is usually a byte offset into the requested file, telling the server to restart sending the file's bytes at the requested offset, skipping over the initial bytes. Note however that the :meth: 'transfercmd' method converts \*rest\* to a string with the \*encoding\* parameter specified at initialization, but no check is performed on the string's contents. If the server does not recognize the 'REST' command, an :exc:'error\_reply' exception will be raised. If this happens, simply call :meth: 'transfercmd' without a \*rest\* argument.

System Message: ERROR/3 (p:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main) (Doc) (library)ftplib.rst, line 330)

#### Unknown directive type "method".

.. method:: FTP.ntransfercmd(cmd, rest=None)

Like :meth:`transfercmd`, but returns a tuple of the data connection and the expected size of the data. If the expected size could not be computed, ``None`` will be returned as the expected size. \*cmd\* and \*rest\* means the same thing as in :meth:`transfercmd`.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main) (Doc) (library)ftplib.rst, line 338)

#### Unknown directive type "method".

.. method:: FTP.mlsd(path="", facts=[])

List a directory in a standardized format by using `MLSD` command (:rfc:`3659`). If \*path\* is omitted the current directory is assumed. \*facts\* is a list of strings representing the type of information desired (e.g. `"Irtype", "size", "perm")`). Return a generator object yielding a tuple of two elements for every file found in path. First element is the file name, the second one is a dictionary containing facts about the file name. Content of this dictionary might be limited by the \*facts\* argument but server is not guaranteed to return all requested facts.

.. versionadded:: 3.

System Message: ERROR/3 (p:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main) (Doc) (library) ftplib.rst, line 352)

### Unknown directive type "method".

.. method:: FTP.nlst(argument[, ...])

Return a list of file names as returned by the ``NLST`` command. The optional \*argument\* is a directory to list (default is the current server directory). Multiple arguments can be used to pass non-standard options to the ``NLST`` command.

.. note:: If your server supports the command, :meth:`mlsd` offers a better API.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main) (Doc) (library)ftplib.rst, line 362)

# Unknown directive type "method".

.. method:: FTP.dir(argument[, ...])

Produce a directory listing as returned by the ``LIST`` command, printing it to standard output. The optional \*argument\* is a directory to list (default is the current server directory). Multiple arguments can be used to pass non-standard options to the ``LIST`` command. If the last argument is a function, it is used as a \*callback\* function as for :meth: retrlines'; the default prints to ``sys.stdout``. This method returns ``None``.

.. note:: If your server supports the command, :meth: `mlsd` offers a better API.

System Message: ERROR/3 (p:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main) (Doc) (library)ftplib.rst, line 374)

### Unknown directive type "method".

.. method:: FTP.rename(fromname, toname)

Rename file \*fromname\* on the server to \*toname\*.

# Unknown directive type "method".

.. method:: FTP.delete(filename)

Remove the file named \*filename\* from the server. If successful, returns the text of the response, otherwise raises :exc:`error\_perm` on permission errors or :exc:`error\_reply` on other errors.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main) (Doc) (library) ftplib.rst, line 386)

## Unknown directive type "method".

.. method:: FTP.cwd(pathname)

Set the current directory on the server.

 $System \, Message: ERROR/3 \, (\ log \ log - resources) sample-onboarding-resources \ cpython-main\ Doc\ library\ (cpython-main) \, (Doc) \, (library) \, ftplib.rst, \, line \, 391)$ 

## Unknown directive type "method".

.. method:: FTP.mkd(pathname)

Create a new directory on the server.

System Message: ERROR/3 (p:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main) (Doc) (library)ftplib.rst, line 396)

Unknown directive type "method".

.. method:: FTP.pwd()

Return the pathname of the current directory on the server.

System Message: ERROR/3 (p:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main) (Doc) (library)ftplib.rst, line 401)

Unknown directive type "method".

method: FTP rmd(dirname)

Remove the directory named \*dirname\* on the server.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main) (Doc) (library) ftplib.rst, line 406)

Unknown directive type "method".

.. method:: FTP.size(filename)

Request the size of the file named \*filename\* on the server. On success, the size of the file is returned as an integer, otherwise ``None`` is returned. Note that the ``SIZE`` command is not standardized, but is supported by many common server implementations.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main) (Doc) (library)ftplib.rst, line 414)

Unknown directive type "method".

.. method:: FTP.quit()

Send a ``QUIT`` command to the server and close the connection. This is the "polite" way to close a connection, but it may raise an exception if the server responds with an error to the ``QUIT`` command. This implies a call to the :meth: `close` method which renders the :class: `FTP` instance useless for subsequent calls (see below).

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main) (Doc) (library) ftplib.rst, line 423)

Unknown directive type "method".

.. method:: FTP.close(

Close the connection unilaterally. This should not be applied to an already closed connection such as after a successful call to :meth: `-FTP.quit`. After this call the :class: FTP` instance should not be used any more (after a call to :meth: `close` or :meth: `-FTP.quit` you cannot reopen the connection by issuing another :meth: `login` method).

## FTP\_TLS Objects

class: FTP\_TLS' class inherits from class: FTP', defining these additional objects:

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython main\Doc\library\(cpython-main) (Doc) (library) ftplib.rst, line 435); backlink

Unknown interpreted text role "class".

 $System Message: ERROR/3 (p:\onboarding-resources\sample-onboarding-resources\cpython-main\doc\library\cpython-main) (Doc) (library) ftplib.rst, line 435); \\ backlink$ 

Unknown interpreted text role "class".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main) (Doc) (library) ftplib.rst, line 437)

Unknown directive type "attribute".

.. attribute:: FTP\_TLS.ssl\_version

The SSL version to use (defaults to :attr:`ssl.PROTOCOL\_SSLv23`).

System Message: ERROR/3 (p:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main) (Doc) (library)ftplib.rst, line 441)

Unknown directive type "method".

.. method:: FTP\_TLS.auth()

Set up a secure control connection by using TLS or SSL, depending on what is specified in the :attr: ssl version` attribute.

.. versionchanged:: 3.4

The method now supports hostname check with
:attr::ssl.SSLContext.check\_hostname` and \*Server Name Indication\* (see
:data:`ssl.HAS\_SNI`).

System Message: ERROR/3 (p:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main) (Doc) (library)ftplib.rst, line 451)

Unknown directive type "method".

.. method:: FTP\_TLS.ccc()

Revert control channel back to plaintext. This can be useful to take advantage of firewalls that know how to handle NAT with non-secure FTP without opening fixed ports.

.. versionadded:: 3.3

System Message: ERROR/3 (p:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main) (Doc) (library) ftplib.rst, line 459)

Unknown directive type "method".

.. method:: FTP\_TLS.prot\_p()
Set up secure data connection.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main) (Doc) (library)ftplib.rst, line 463)

Unknown directive type "method".

.. method:: FTP\_TLS.prot\_c()

Set up clear text data connection.