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## test\_dropbox.py

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'''
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test connection to dropbox
'''

import dropbox
import datetime
import time
from pathlib import Path
from os.path import expanduser

class TestDropBox(object):

    def __init__(self, local_dir = None , dropbox_dir = None , dropbox_file = None, tokenfile = None, loop_time = None):
        self.LoopTime      = loop_time
        self.TokenFile      = tokenfile
        self.DropBoxFile    = dropbox_file
        self.DropBoxDir     = dropbox_dir
        self.LocalDir       = local_dir

    def ConnectDropbox(self):
        """
        here we establish connection to the dropbox account
        """
        f=open(self.TokenFile,"r")

        temp =f.readlines() #key for encryption
        temp_buf = []

        for k in range(len(temp)):
            temp1 = temp[k].strip('\n')
            start  = temp1.find('\') # find beginning quote
            end    = temp1.rfind('\') # find trailing quote
            temp_buf.append(temp1[start+1:end])

            #connect to dropbox
            #self.dbx=dropbox.Dropbox(self.data.strip('\n'))
            APP_KEY = temp_buf[0]
            APP_SECRET = temp_buf[1]
            REFRESH_TOKEN = temp_buf[2]

            self.dbx = dropbox.Dropbox(
                app_key = APP_KEY,
                app_secret = APP_SECRET,
                oauth2_refresh_token = REFRESH_TOKEN
            )
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self.myaccount = self.dbx.users_get_current_account()
print('*****dropbox*****\n\n')
print( self.myaccount.name.surname , self.myaccount.name.given_name)
print( self.myaccount.email)
print(' \n\n *****dropbox*****\n' )

return

def ConnectDropboxNew(self):
"""
here we establish connection to the dropbox account
"""
f=open(self.TokenFile,"r")

# now we branch out depending on which keyfile we are using:
if 'LCWA_d.txt' in self.TokenFile:
    print("old system")
    f=open(self.TokenFile,"r")
    self.data =f.readline() #key for encryption

#connect to dropbox
self.dbx=dropbox.Dropbox(self.data.strip('\n'))

elif 'LCWA_a.txt' in self.TokenFile:
    print('new system')

    temp =f.readlines() #key for encryption
    temp_buf = []

    for k in range(len(temp)):
        templ = temp[k].strip('\n')
        start = templ.find('\') # find beginning quote
        end = templ.rfind('\') # find trailing quote
        temp_buf.append(templ[start+1:end])

#connect to dropbox
#self.dbx=dropbox.Dropbox(self.data.strip('\n'))
APP_KEY = temp_buf[0]
APP_SECRET = temp_buf[1]
REFRESH_TOKEN = temp_buf[2]

#APP_KEY = '70yem8c9kt0r29f'
#APP_SECRET = 'sbm940lugpfasgp'
#REFRESH_TOKEN = '4l8-Dl00fo0AAAAAUAupzvrrj_YjBH_vw1koRqSlKUZyRb3Gl2XD7Mvo8YNpv'

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        self.dbx = dropbox.Dropbox(
            app_key = APP_KEY,
            app_secret = APP_SECRET,
            oauth2_refresh_token = REFRESH_TOKEN
        )

    else:
        print ("wrong keyfile")

    self.myaccount = self.dbx.users_get_current_account()
    print ('*****dropbox*****\n\n\n')
    print ( self.myaccount.name.surname , self.myaccount.name.given_name)
    print (self.myaccount.email)
    print (' \n\n *****dropbox*****\n' )

    return

def DropFileExists(self,path):
    try:
        self.dbx.files_get_metadata(path)
        return True
    except:
        return False

def GetDropBoxfile(self , temp):

    if self.DropFileExists(temp):
        print ("getting file " ,temp, ' and storing it at:',self.LocalDir+self.DropBoxFile)

        self.dbx.files_download_to_file(self.LocalDir+self.DropBoxFile,temp)
        return True

    else:
        return False

def MainLoop(self):
    ''' this a timed loop, which every looptime gets the file at dropbox
    looptime is seconds
    '''
    while(True):
        e = datetime.datetime.now()
        if self.GetDropBoxfile(self.DropBoxDir+self.DropBoxFile):
            print (" Succesful Transfer at: %s/%s/%s %s:%s:%s" % (e.day, e.month, e.year,e.hour, e.minute, e.second))
        else:
            print (" Failed Transfer at: %s/%s/%s %s:%s:%s" % (e.day, e.month, e.year,e.hour, e.minute, e.second))

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        time.sleep(self.LoopTime)

    return

if __name__ == '__main__':
    import os.path
    loop_time      = 600 # every loop_time we will read a file and copy it locally, the time is in seconds
    homedir        = os.path.expanduser('~')
    #tokenfile      = homedir+'/git/LCWA/src/LCWA_d.txt' # the name and path of the dropbox creds
    tokenfile      = homedir+'/git/LCWA/src/LCWA_a.txt' # the name and path of the dropbox creds
    #dropbox_dir    = '/LCWA/ALL_LCWA/' # dir on dropbox
    dropbox_dir    = '/LCWA/LC99/'
    #dropbox_file   = 'LCWA_TOTAL_2023-05-07speedfile.pdf' # name of file
    dropbox_file   = 'LC99_2023-05-07speedfile.pdf'
    local_dir      = homedir+'/scratch/'

    TDB = TestDropBox(local_dir = local_dir ,dropbox_dir = dropbox_dir , dropbox_file = dropbox_file, tokenfile = tokenfile ,loop_time
= loop_time)
    TDB.ConnectDropboxNew()
    TDB.MainLoop()
```