Python

Login and list all A and CNAME records

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#!/usr/bin/env python
import requests

dmapiURL = 'https://dmapi.joker.com'
dmapiUser = 'username'
dmapiPassword = 'password'

def main():
    loginResponse = login(dmapiUser,dmapiPassword)
    #print("Login: Status-Code:", loginResponse.header['Status-Code'])
    if loginResponse.header['Status-Code'] !='0':
        print(loginResponse.header['Status-Text'])
        return

    sessionId = loginResponse.header['Auth-Sid'];
    #print("")
    dnsZoneListResponse = dnsZoneList(sessionId,"")
    #print("DNS Zone List: Status-Code:", dnsZoneListResponse.header['
Status-Code'])
    dnslist = dnsZoneListResponse.resultList()
    for row in dnslist:
        domain = row[0]
        expiration = row[1]
        #print(" domain: %s" % (domain))
        #print(" expiration: %s" % (expiration))
        #print("")
        dnsZoneResponse = dnsZoneGet(sessionId, domain)
        #print("DNS Zone GET for %s: Status-Code:" % (domain), dnsZone
Response.header['Status-Code'])
        zoneEntries = dnsZoneResponse.resultList()
        for entry in zoneEntries:
            #print(' '.join(entry))
            if len(entry)<5:
                continue
            eLabel = entry[0]
            eType = entry[1]
            ePriority = entry[2]
            eTarget = entry[3]
            eTTL = entry[4]
            if eType == 'A' or eType == 'CNAME':
                print(("%s.%s\t%s" % (eLabel,domain,eTarget)).lstrip('
@.'))

    logoutResponse = logout(sessionId)
    #print "Logout: Status-Code:", logoutResponse.header['Status-Code'
]
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# implement dmapi commands as functions
def login(username,password):
    parameters = { 'username': username, 'password': password }
    message = sendCommand('login', parameters)
    return message;

def logout(sessionId):
    parameters = { 'auth-sid': sessionId }
    message = sendCommand('logout', parameters)
    return message;

def domainList(sessionId, pattern="", list_from=1, list_to=""):
    parameters = { 'auth-sid': sessionId , 'from': list_from, 'to': li
st_to, 'pattern': pattern }
    message = sendCommand('query-domain-list', parameters)
    return message;

def dnsZoneList(sessionId, pattern="", list_from=1, list_to=""):
    parameters = { 'auth-sid': sessionId , 'from': list_from, 'to': li
st_to, 'pattern': pattern }
    message = sendCommand('dns-zone-list', parameters)
    return message;

def dnsZoneGet(sessionId, domain):
    parameters = { 'auth-sid': sessionId , 'domain': domain }
    message = sendCommand('dns-zone-get', parameters)
    return message;

# general dmapi command call
def sendCommand(command,parameter={}):
    try:
        url = dmapiURL+'/request/'+command
        #print("Request-URL: ", url)
        response = requests.get(url, params=parameter)
        # print URL with parameters for debugging purposes
        # print("Request-URL: ", response.url)
        if response.status_code != requests.codes.ok:
            raise CommandError("Command Failed! HTTP Status Code: %s"
% response.status_code)
        return DmapiResponse(response.text)
    except requests.ConnectionError as e:
        raise CommandError("Connection Error: %s" % str(e))
    except requests.HTTPError as e:
        raise CommandError("Http Error: %s" % str(e))
    except CommandError as e:
        raise
    except Exception as e:
       raise CommandError("Unexpected Error: %s" % str(e))
```

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class DmapiResponse():
    def __init__(self,responseBody):
        parts = responseBody.split("\n\n",1)
        if len(parts)>0:
            self.header = self.__parseKeyValueList(parts[0])
        if len(parts)>1:
            self.body = parts[1]

    def __parseKeyValueList(self,text):
        lines = text.split("\n")
        keyValueList = {}
        for line in lines:
            keyValue = line.split(' ',1)
            key = keyValue[0].rstrip(':')
            value = keyValue[1]
            keyValueList[key] = value
        return keyValueList

    def __getSeparator(self):
        if self.header.get('Separator') == 'TAB':
            return "\t"
        else:
            return " "

    def resultList(self):
        lines = self.body.split("\n")
        resultList = []
        separator = self.__getSeparator()
        for line in lines:
            values = line.split(separator)
            resultList.append(line.split(separator))
        return resultList

    def resultListWithNames(self):
        columnNames = self.resultListColumns()
        resultList = []
        if len(columnNames) > 0:
            rawList = self.resultList()
            resultList = []
            for row in rawList:
                columns = {}
                for idx, column in enumerate(row):
                    columns[columnNames[idx]] = column
                resultList.append(columns)
        return resultList

    def resultListColumns(self):
        if 'Columns' in self.header:
            columnsText = self.header['Columns']
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            columns = columnsText.split(',')
            return columns
        else:
            return []

    def resultValues(self):
        return self.__parseKeyValueList(self.body)

class CommandError(Exception):
    def __init__(self, value):
        self.value = value
    def __str__(self):
        return repr(self.value)

# call main function
try:
    main()
except CommandError as e:
    print("Error:", str(e).strip("'"))
```

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