

Python

Verificare se un indirizzo mail è valido tramite l'utilizzo di server MX

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#!/usr/bin/python
"""
Simple method to verify email address through MX servers
need to improve the exception of error message socket
"""

import smtplib, os, sys, socket

if len(sys.argv) < 2:
    print "use: " + sys.argv[0] + " + email_address"
    exit(1)
email = sys.argv[1]
maildomain = email.split("@")[-1]
nstoken = "mail exchanger = "
mailserver = ""
m = []
print "check mx server ..."
plines = os.popen("nslookup -type=mx " + maildomain).readlines()
for pline in plines:
    if nstoken in pline:
        mailserver = pline.split(nstoken)[1].strip()
        mailserver = mailserver.split(" ")[-1] #no need this line in windows env
        m.append(mailserver)

if mailserver == "":
    print "unable to get mx server ...", maildomain
    exit(1)
else:
    print "found mx mail... ", m
print "checking email address ....", email
for i in m:
    socket.setdefaulttimeout(4)
    try:
        s = smtplib.SMTP(i)
    except (socket.timeout, smtplib.SMTPException), e:
        print "this mx server time out ", i, e
        pass
    else:
        rep1 = s.ehlo()
        if rep1[0] == 250:
            rep2 = s.mail("test@test.com")
            if rep2[0] == 250:
                rep3 = s.rcpt(email)
                if rep3[0] == 250:
                    print email, " valid - mxserver: ", i
                elif rep3[0] == 550:
                    print email, " invalid"
```