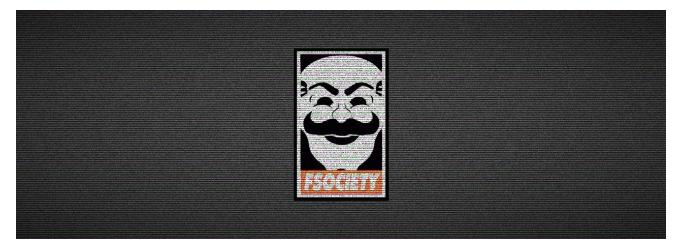
New FuxSocy Ransomware Impersonates the Notorious Cerber

bleepingcomputer.com/news/security/new-fuxsocy-ransomware-impersonates-the-notorious-cerber/

Lawrence Abrams

By Lawrence Abrams

- October 25, 2019
- 04:45 PM
- 2



A new ransomware has been discovered called FuxSocy that borrows much of its behavior from the notorious and now-defunct Cerber Ransomware.

Discovered by <u>MalwareHunterTeam</u>, this ransomware calls itself FuxSocy Encryptor, which is named after the FSociety hacking group in the Mr. Robot television series.

Like any other ransomware, FuxSocy will encrypt a victim's files and then demand a ransom in order to get a decryptor.

What is interesting about this ransomware, though, is that the developers decided to model it after the Cerber Ransomware by adopting its outward appearance as well as some of the internals.

Similarities to Cerber

When analyzed by reverse engineer <u>Vitali Kremez</u>, the researcher told BleepingComputer he noticed that some of the ransomware internals are similar to those used by Cerber.

For example, when encrypting files FuxSocy will skip files whose file path contain certain strings. Many of the strings are taken directly from Cerber, who <u>used the same exception</u> <u>list</u>, with FuxSocy adding some additional ones.

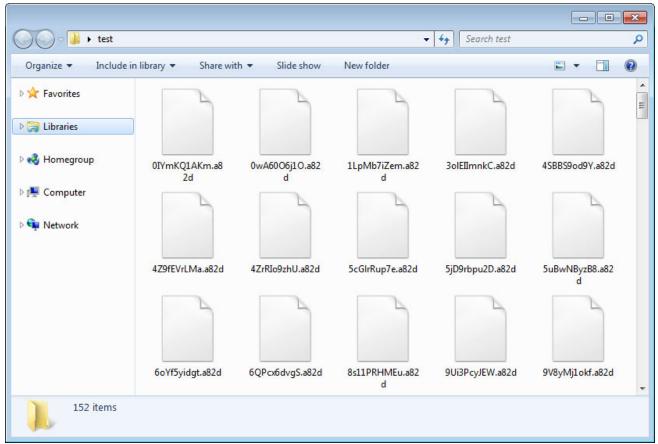
The full list of bypassed folders are below:

```
*:\$getcurrent\*
*:\$recycle.bin\*
*:\$windows.~bt\*
*:\$windows.~ws\*
*:\boot\*
*:\documents and settings\all users\*
*:\documents and settings\default user\*
*:\documents and settings\localservice\*
*:\documents and settings\networkservice\*
*:\intel\*
*:\msocache\*
*:\perflogs\*
*:\program files (x86)\*
*:\program files\*
*:\programdata\*
*:\recovery\*
*:\recycled\*
*:\recycler\*
*:\system volume information\*
*:\temp\*
*:\tmp\*
*:\windows.old\*
*:\windows10upgrade\*
*:\windows\*
*:\winnt\*
*:\.*\*
*\appdata\local\*
*\appdata\locallow\*
*\appdata\roaming\*
*\local settings\*
*\public\music\sample music\*
*\public\pictures\sample pictures\*
*\public\videos\sample videos\*
*\tor browser\*
.txt
.jpg
```

Like Cerber, FuxSocy will also prioritize certain folders to make sure they get encrypted. This list of priority folders are:

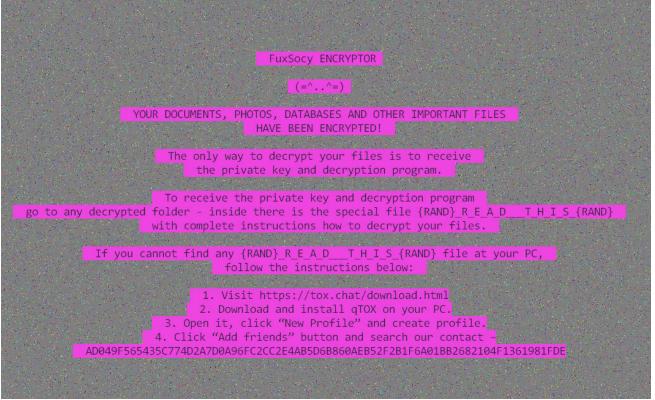
bitcoin excel microsoft sql server microsoft\excel microsoft\microsoft sql server microsoft\office microsoft\onenote microsoft\outlook microsoft\powerpoint microsoft\word office onenote outlook powerpoint steam the bat! thunderbird word autodesk solidworks* **OpenSCAD**

In addition, FuxSocy also scrambles the file name and extensions used by encrypted files in a similar manner as Cerber.



Encrypted FuxSocy Files

Finally, after encrypting a computer the Windows desktop background will be changed to an almost identical background that was <u>originally used by Cerber</u>.



FuxSocy Desktop Background

So what has changed?

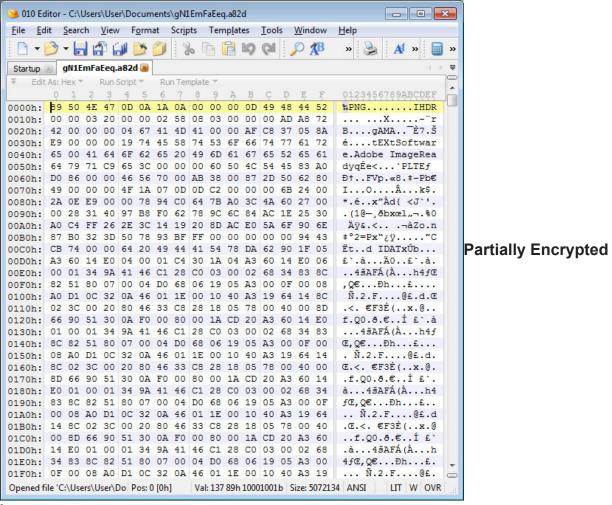
While outwardly FuxSocy looks very similar to Cerber, there are also quite a few differences.

For example, FuxSocy attempts to more extensively block users from running the ransomware on a virtual machine by looking for the following processes, files, and named pipes:

prl_cc.exe prl_tools.exe vboxservice.exe vboxtray.exe VMSrvc.exe VMUSrvc.exe vmtoolsd.exe vmwaretray.exe vmwareuser.exe VGAuthService.exe vmacthlp.exe xenservice.exe gemu-ga.exe \\.\VBoxMiniRdrDN \\.\VBoxGuest \\.\pipe\VBoxMiniRdDN \\.\VBoxTrayIPC \\.\pipe\VBoxTrayIPC $\$ HGFS \\.\vmci system32\drivers\VBoxMouse.sys system32\drivers\VBoxGuest.sys system32\drivers\VBoxSF.sys system32\drivers\VBoxVideo.sys system32\vboxdisp.dll system32\vboxhook.dll system32\vboxmrxnp.dll system32\vboxogl.dll system32\vboxoglarrayspu.dll system32\vboxoglcrutil.dll system32\vboxoglerrorspu.dll system32\vboxoglfeedbackspu.dll system32\vboxoglpackspu.dll system32\vboxoglpassthroughspu.dll system32\vboxservice.exe system32\vboxtray.exe system32\VBoxControl.exe system32\drivers\vmmouse.sys system32\drivers\vmhgfs.sys system32\drivers\vm3dmp.sys system32\drivers\vmci.sys system32\drivers\vmmemctl.sys system32\drivers\vmrawdsk.sys system32\drivers\vmusbmouse.sys

Another strange feature is that the FuxSocy Encryptor does not encrypt the entire file.

According to <u>Michael Gillespie</u>, the ransomware will start encrypting files at 0x708 bytes, which for the most part will make documents unusable.

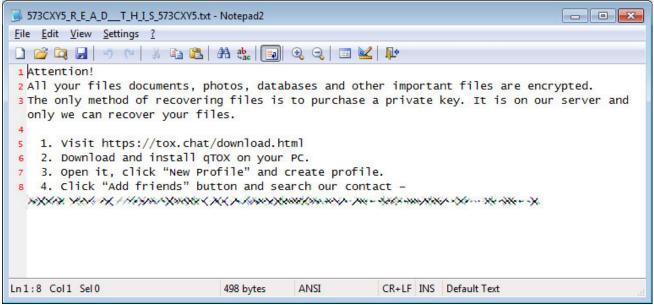


Image

Some image files, though, will have their unencryption regions viewable as shown below, with the rest being corrupted.

Corrupted Image File

Finally the ransom notes are different, with Cerber using a Tor payment site, while FuxSocy asks you to contact them via the ToxChat messaging app.



FuxSociety Ransom Note

While the similarities and differences are interesting, ultimately both ransomware infections do the same thing. They encrypt your data and make you pay a ransom to get your files back.

Unfortunately, at this time preliminary research of this ransomware indicates that the ransomware cannot be decrypted for free. It is advised that any victims restore their files backup rather than paying the ransom.

Update 10/28/19: Made a correction that some of the folders we stated were bypassed are actualy given prioritized encryption.

Related Articles:

Windows 11 KB5014019 breaks Trend Micro ransomware protection

Industrial Spy data extortion market gets into the ransomware game

New 'Cheers' Linux ransomware targets VMware ESXi servers

SpiceJet airline passengers stranded after ransomware attack

US Senate: Govt's ransomware fight hindered by limited reporting

- <u>Cerber</u>
- <u>FuxSociety</u>
- FuxSocy Encryptor
- Ransomware

Lawrence Abrams

Lawrence Abrams is the owner and Editor in Chief of BleepingComputer.com. Lawrence's area of expertise includes Windows, malware removal, and computer forensics. Lawrence Abrams is a co-author of the Winternals Defragmentation, Recovery, and Administration Field Guide and the technical editor for Rootkits for Dummies.

- Previous Article
- <u>Next Article</u>

Comments



<u>Morality</u> - 2 years ago o Aiplt the Corrupted I

Ain't the Corrupted Image File a image from DirtyDecrypt?



Post a Comment <u>Community Rules</u> You need to login in order to post a comment Not a member yet? <u>Register Now</u>

You may also like: