

Disclaimer: Scenarios for all of my assignments are *completely fictional*, but may include actual names, locations, and landmarks to add realism.

SCENARIO:

Great work with that CPS Energy Case last week!

HELP!

Your co-worker (Greg) had to leave urgently on a family emergency. Prior to leaving, he was analyzing a critical piece of malware (virus.exe) and said the malware deleted itself during his analysis. Poor Greg failed to make a backup of the malware ahead of time (oops!), so all he has to pass on to you are the results of some static and dynamic analysis he already performed.

Greg zipped his analysis results for you (Greg_Analysis.zip).

It's all up to you! Can you determine the critical details associated with this malware?

Assignment -- Your mission should you choose to accept it:

--Download the Greg_Analysis zip file from Professor Ervin's [OneDrive account](#).

--Also, Install Procmon to load Greg's Procmon analysis.

--To assist you, please reference Prof Ervin's lecture that demonstrates how to use Procmon and it's filter capabilities to narrow down malware operations. Additionally, how to interpret InetSim reporting.

GRADING RUBRIC -- To receive full credit for this assignment, you must answer the following:

1. Use Procmon and Greg's Procmon analysis file (Procmon_log_virus.PML) to determine the file-path and filename where the malware dropper is being stored on the victim system. Submit a screenshot to support your findings.
2. Based on your analysis of Greg's data, what is the URL that is dropping additional malware on the victim system? Law Enforcement needs this to further their investigation! Submit a screenshot to support your findings.

BONUS (10-pts)

An additional 10pts to any student who is able to setup the Win10 Sandbox/Remnux environment, execute the Unknown2.exe malware (as I demonstrate in lecture), send a 'netstat' command to the malware, and submit a screenshot of the base64 output of the command. You may use your own properly-configured sandbox setup or the sandbox VMs I provide (Remnux_Configured.zip and Win10_Sandbox_Configured.zip) in the Week-10 Lecture Folder on OneDrive.

Good Luck!!

```
file-path: C:\Users\Public\Documents\winsystems64.exe
filename: winsystems64.exe
```



URL: <http://datacenter-server110.datafoundries.com/favicon.ico>



BONUS

```
remnux@remnux: ~  
remnux@r... x remnux@r... x remnux@r... x remnux@r... x remnux@r... x remnux@r... x  
remnux@remnux:~$ nc -nv 192.168.10.2 5555  
Connection to 192.168.10.2 5555 port [tcp/*] succeeded!  
WytdIHdoYXQgY29tbWFuZCBjYW4gSSBydW4gZm9yIHlvdQ==  
ipconfig  
CldpbmRvd3MgSVAgQ29uZmlndXJhdGlvbgoKCKV0aGVybmV0IGFkYXB0ZXIgcXRoZXJuZXQwOgoKICAgQ29ubmVjdGlvbi1zcGVj  
aWZpYyBETlMgU3VmZml4ICAuIDogCiAgIEpmbmstbG9jYWwgSVB2NiBBZGRyZXNzIC4gLiAuIC4gLiA6IGZlODA60mNjZTk6ZDQz  
YTpjYWVhOjllYTQlMgogICBjUHY0IEFkZHZlc3MuIC4gLiAuIC4gLiAuIC4gLiAuIC4gLiAuIC4gLiAuIC4gLiAuIC4gLiAuIC4g  
IE1hc2sgLiAuIC4gLiAuIC4gLiAuIC4gLiAuIDogMjU1LjI1NS4yNTUuMAogICBEZWZhdWx0IEdhbGV3YXkgLiAuIC4gLiAuIC4g  
LiAuIC4gLiAuIC4gLiAuIC4gLiAuIC4gLiAuIC4gLiAuIC4gLiAuIC4gLiAuIC4gLiAuIC4gLiAuIC4gLiAuIC4gLiAuIC4gLiAuIC4g  
ZGhhIFN0YXRlIC4gLiAuIC4gLiAuIC4gLiAuIC4gLiAuIC4gLiAuIC4gLiAuIC4gLiAuIC4gLiAuIC4gLiAuIC4gLiAuIC4gLiAuIC4g  
IEROUyBTdWZmaXggIC4gOIAKClR1bm5lbCBhZGFwdGVyIGlzYXRhcc57MUQ2Rjg5N0UtQjM0Ri00MEZELUE0QUItoEISMkUwRTFG  
OEExfToKCiAgIE1lZGhhIFN0YXRlIC4gLiAuIC4gLiAuIC4gLiAuIC4gLiAuIC4gLiAuIC4gLiAuIC4gLiAuIC4gLiAuIC4gLiAuIC4g  
aW9uLXNwZWNPZmljIEROUyBTdWZmaXggIC4gOIAK
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