Persistence Analysis Appendix

Checking auto-start locations on an infected disk C

Checking auto-start locations on an infected disk C (1)

• Conditions:

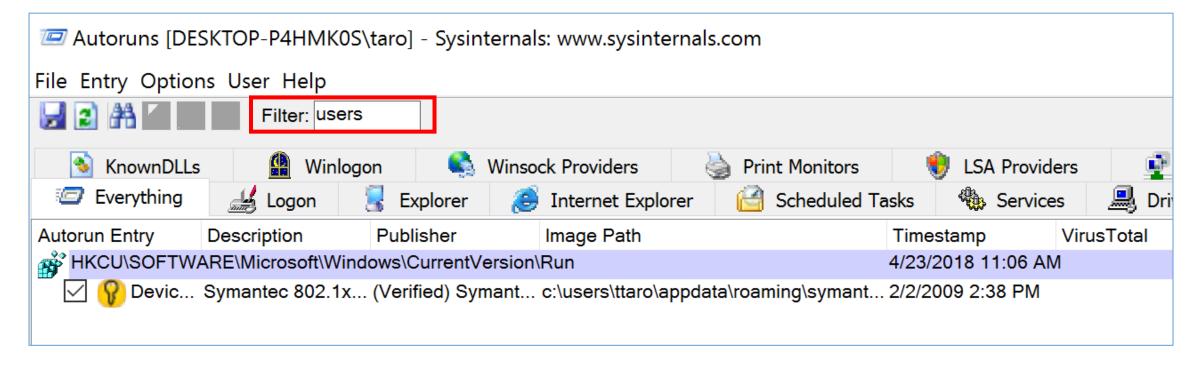
- We are investigating a compromised client's disk image, which is saved as the file below.
 - "E:\Artifacts\other_E01\infected_drive_c.E01
- The client seemed to be infected with malware.
- The account name of the client's main user is "ttaro".

• Goal:

To find out the persistence of malware in the image.

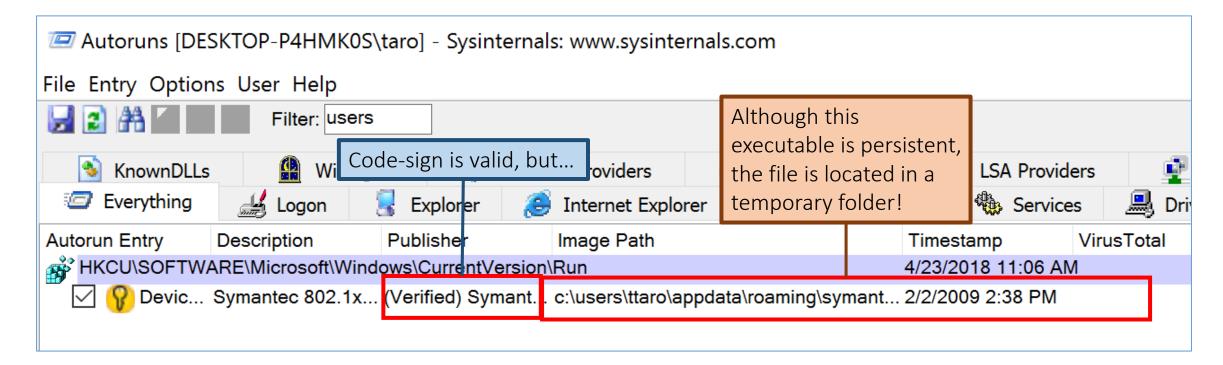
Checking auto-start locations on an infected disk C (2)

- Mount the disk image "infected_drive_c.E01" with Arsenal Image Mounter and view the auto-start locations with Autoruns. In this case, since we are focusing on the user "ttaro", we should use ttaro's home folder as "User Profile".
- Then, apply the filter with a part of the path like exercises we have done.



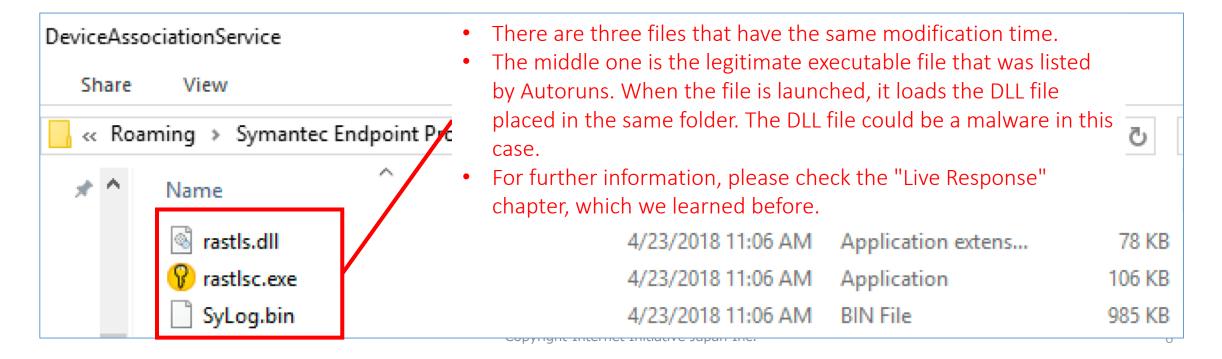
Checking auto-start locations on an infected disk C (3)

- Check the entry.
 - At the first glance, the file seems to be legitimate because it has a valid codesign, but the file is located in a temporary folder. It looks so strange because those entries listed by Autoruns are related to persistence.



Checking auto-start locations on an infected disk C (4)

- It seems that this is one of the anti-Autoruns techniques such as DLL side loading that we learned in "Live Response" chapter.
- Let's open the folder that contains the executable file.



Checking auto-start locations on an infected disk C (5)

• In a real case, you should get all files in the temporary folder (at least rastlsc.exe, rastls.dll and SyLog.bin), and execute it on your dynamic analysis environment.