

Relazione S10L2

L'obiettivo è analizzare un malware tramite l'analisi dinamica basica utilizzando i diversi software che abbiamo a disposizione.

La prima cosa che viene richiesta è di identificare eventuali azioni del malware sul file system. Utilizzando process monitor sono andato a vedere i processi eseguiti dal malware analizzato.

Time of Day	Process Name	PID	Operation	Path	Result	Detail
2/16/10 16:59:33	Malware_U3_W2_L2.exe	3372	Process Start		SUCCESS	Parent PID: 1608 Command Line: "C:\Documents and Settings\Administrator\Desktop\Escrcio; Malware_U3_W2_L2.exe"
2/16/10 16:59:33	Malware_U3_W2_L2.exe	3372	Thread Create		SUCCESS	Thread ID: 3376
2/16/10 16:59:33	Malware_U3_W2_L2.exe	3372	QueryInformationFile	C:\Documents and Settings\Administrator\Desktop\Escrcio; Phatico_U3_W2_L2\Malware_U3_W2_L2.exe	SUCCESS	Name: \Documents and Settings\Administrator\Desktop\Escrcio; Phatico_U3_W2_L2\Malware_U3_W2_L2.exe
2/16/10 16:59:33	Malware_U3_W2_L2.exe	3372	Load Image	C:\Documents and Settings\Administrator\Desktop\Escrcio; Phatico_U3_W2_L2\Malware_U3_W2_L2.exe	SUCCESS	Image Base: 0x00000000 Image Size: 0x0000
2/16/10 16:59:33	Malware_U3_W2_L2.exe	3372	Load Image	C:\WINDOWS\System32\ntldr.dll	SUCCESS	Image Base: 0x7c900000 Image Size: 0x0a00
2/16/10 16:59:34	Malware_U3_W2_L2.exe	3372	QueryInformationFile	C:\Documents and Settings\Administrator\Desktop\Escrcio; Phatico_U3_W2_L2\Malware_U3_W2_L2.exe	SUCCESS	Name: \Documents and Settings\Administrator\Desktop\Escrcio; Phatico_U3_W2_L2\Malware_U3_W2_L2.exe
2/16/10 16:59:34	Malware_U3_W2_L2.exe	3372	CreateFile	C:\WINDOWS\System32\MALWARE_U3_W2_L2\EXE-1939262A.pl	SUCCESS	Desired Access: Generic Read; Disposition: Open; Options: Synchronous Non-Alert; Attributes: Normal; Security: 0x00000000
2/16/10 16:59:34	Malware_U3_W2_L2.exe	3372	QueryInformationFile	C:\WINDOWS\System32\MALWARE_U3_W2_L2\EXE-1939262A.pl	SUCCESS	Allocation Size: 8192; EndOfFile: 6336; NumLinks(1): DeletePending; File: Directory File: File
2/16/10 16:59:34	Malware_U3_W2_L2.exe	3372	ReadFile	C:\WINDOWS\System32\MALWARE_U3_W2_L2\EXE-1939262A.pl	SUCCESS	Offset: 0; Length: 6336
2/16/10 16:59:34	Malware_U3_W2_L2.exe	3372	ReadFile	C:\WINDOWS\System32\MALWARE_U3_W2_L2\EXE-1939262A.pl	SUCCESS	Offset: 0; Length: 6336; I/O Flags: Non-Cached, Paging I/O; Synchronous Paging I/O
2/16/10 16:59:34	Malware_U3_W2_L2.exe	3372	CloseFile	C:\WINDOWS\System32\MALWARE_U3_W2_L2\EXE-1939262A.pl	SUCCESS	
2/16/10 16:59:34	Malware_U3_W2_L2.exe	3372	CreateFile	C:\	SUCCESS	Desired Access: Read Attributes; Write Attributes; Synchronize; Disposition: Open; Options: Synchronous Non-Alert; Attributes: Normal; Security: 0x00000000
2/16/10 16:59:34	Malware_U3_W2_L2.exe	3372	QueryInformationVolume	C:\	SUCCESS	VolumeCreationTime: 3/20/2017 9:34:16 PM; VolumeSerialNumber: DBBA-8021; Support: NTFS
2/16/10 16:59:34	Malware_U3_W2_L2.exe	3372	Process Control	C:\	SUCCESS	Control: FSCTL_FILE_PREFETCH
2/16/10 16:59:34	Malware_U3_W2_L2.exe	3372	QueryDirectory	C:\	SUCCESS	Desired Access: Read Data/List Directory; Synchronize; Disposition: Open; Options: Directory File: File
2/16/10 16:59:34	Malware_U3_W2_L2.exe	3372	QueryDirectory	C:\	SUCCESS	0: 65b5e5ca391 4d0389554e3ae7b1; AUTOEXEC.BAT; FileInformationClass: FileInformation
2/16/10 16:59:34	Malware_U3_W2_L2.exe	3372	QueryDirectory	C:\	NO MORE FILES	
2/16/10 16:59:34	Malware_U3_W2_L2.exe	3372	CreateFile	C:\	SUCCESS	
2/16/10 16:59:34	Malware_U3_W2_L2.exe	3372	QueryDirectory	C:\DOCUMENTS AND SETTINGS	SUCCESS	Desired Access: Read Data/List Directory; Synchronize; Disposition: Open; Options: Directory File: File
2/16/10 16:59:34	Malware_U3_W2_L2.exe	3372	QueryDirectory	C:\Documents and Settings	SUCCESS	0: ..., FileInformationClass: FileInformation; 3 All Users; 4 Default User; 5 LocalService
2/16/10 16:59:34	Malware_U3_W2_L2.exe	3372	QueryDirectory	C:\Documents and Settings	NO MORE FILES	
2/16/10 16:59:34	Malware_U3_W2_L2.exe	3372	CreateFile	C:\Documents and Settings	SUCCESS	
2/16/10 16:59:34	Malware_U3_W2_L2.exe	3372	QueryDirectory	C:\Documents and Settings\ADMINISTRATOR	SUCCESS	Desired Access: Read Data/List Directory; Synchronize; Disposition: Open; Options: Directory File: File
2/16/10 16:59:34	Malware_U3_W2_L2.exe	3372	QueryDirectory	C:\Documents and Settings\Administrator	SUCCESS	0: ..., FileInformationClass: FileInformation; 3 Cookies; 4 Desktop; 5 Favorites; 6 LocalService
2/16/10 16:59:34	Malware_U3_W2_L2.exe	3372	QueryDirectory	C:\Documents and Settings\Administrator	NO MORE FILES	
2/16/10 16:59:34	Malware_U3_W2_L2.exe	3372	CloseFile	C:\Documents and Settings\Administrator	SUCCESS	
2/16/10 16:59:34	Malware_U3_W2_L2.exe	3372	CreateFile	C:\Documents and Settings\Administrator\Desktop	SUCCESS	Desired Access: Read Data/List Directory; Synchronize; Disposition: Open; Options: Directory File: File
2/16/10 16:59:34	Malware_U3_W2_L2.exe	3372	QueryDirectory	C:\Documents and Settings\Administrator\Desktop	SUCCESS	0: ..., FileInformationClass: FileInformation; 3 C:\Program Files; 4 Command Prompt
2/16/10 16:59:34	Malware_U3_W2_L2.exe	3372	CloseFile	C:\Documents and Settings\Administrator\Desktop	NO MORE FILES	
2/16/10 16:59:34	Malware_U3_W2_L2.exe	3372	CreateFile	C:\Documents and Settings\Administrator\Desktop	SUCCESS	
2/16/10 16:59:34	Malware_U3_W2_L2.exe	3372	QueryDirectory	C:\Documents and Settings\Administrator\Desktop\ESCRICIO_PRATICO_U3_W2_L2	SUCCESS	Desired Access: Read Data/List Directory; Synchronize; Disposition: Open; Options: Directory File: File
2/16/10 16:59:34	Malware_U3_W2_L2.exe	3372	QueryDirectory	C:\Documents and Settings\Administrator\Desktop\Escrcio; Phatico_U3_W2_L2	SUCCESS	0: ..., FileInformationClass: FileInformation
2/16/10 16:59:34	Malware_U3_W2_L2.exe	3372	QueryDirectory	C:\Documents and Settings\Administrator\Desktop\Escrcio; Phatico_U3_W2_L2	NO MORE FILES	
2/16/10 16:59:34	Malware_U3_W2_L2.exe	3372	CloseFile	C:\Documents and Settings\Administrator\Desktop\Escrcio; Phatico_U3_W2_L2	SUCCESS	
2/16/10 16:59:34	Malware_U3_W2_L2.exe	3372	CreateFile	C:\WINDOWS	SUCCESS	Desired Access: Read Data/List Directory; Synchronize; Disposition: Open; Options: Directory File: File
2/16/10 16:59:34	Malware_U3_W2_L2.exe	3372	QueryDirectory	C:\WINDOWS	SUCCESS	0: ..., FileInformationClass: FileInformation; 2 log; 4 admin; 5 AppPatch; 6 asser
2/16/10 16:59:34	Malware_U3_W2_L2.exe	3372	QueryDirectory	C:\WINDOWS	NO MORE FILES	
2/16/10 16:59:34	Malware_U3_W2_L2.exe	3372	CreateFile	C:\WINDOWS	SUCCESS	
2/16/10 16:59:34	Malware_U3_W2_L2.exe	3372	QueryDirectory	C:\WINDOWS\AppPatch	SUCCESS	Desired Access: Read Data/List Directory; Synchronize; Disposition: Open; Options: Directory File: File
2/16/10 16:59:34	Malware_U3_W2_L2.exe	3372	QueryDirectory	C:\WINDOWS\AppPatch	SUCCESS	0: ..., FileInformationClass: FileInformation; 3 ActualSize; 4 ActualSize; 5 ActualSize
2/16/10 16:59:34	Malware_U3_W2_L2.exe	3372	QueryDirectory	C:\WINDOWS\AppPatch	NO MORE FILES	
2/16/10 16:59:34	Malware_U3_W2_L2.exe	3372	CloseFile	C:\WINDOWS\AppPatch	SUCCESS	
2/16/10 16:59:34	Malware_U3_W2_L2.exe	3372	CreateFile	C:\WINDOWS\System32	SUCCESS	Desired Access: Read Data/List Directory; Synchronize; Disposition: Open; Options: Directory File: File
2/16/10 16:59:34	Malware_U3_W2_L2.exe	3372	QueryDirectory	C:\WINDOWS\System32	SUCCESS	0: ..., FileInformationClass: FileInformation; 3 1; 4 1025; 5 1026; 6 1031; 7 1033;
2/16/10 16:59:34	Malware_U3_W2_L2.exe	3372	QueryDirectory	C:\WINDOWS\System32	SUCCESS	0: esqsvc.dll; 1: ncdm.com; FileInformationClass: FileInformation; 3: edm.exe; 4: etasud.dll
2/16/10 16:59:34	Malware_U3_W2_L2.exe	3372	QueryDirectory	C:\WINDOWS\System32	SUCCESS	0: mpsvc.dll; 1: mpsvc.dll; FileInformationClass: FileInformation; 3: mpsvc.dll; 4: mpsvc.dll
2/16/10 16:59:34	Malware_U3_W2_L2.exe	3372	QueryDirectory	C:\WINDOWS\System32	SUCCESS	0: program.exe; 1: PRG00000000; FileInformationClass: FileInformation; 3: PRG00000000
2/16/10 16:59:34	Malware_U3_W2_L2.exe	3372	QueryDirectory	C:\WINDOWS\System32	SUCCESS	0: vpsvc.dll; 1: vmsGuestLib; FileInformationClass: FileInformation; 3: vmtoolsd.dll; 4: VMToolsd.dll

Tra le azioni che possiamo vedere abbiamo la creazione dei file:

[illegible]

Per quanto riguarda i processi vediamo questo:

Time of Day	Process Name	PID	Operation	Path	Result	Detail
2:05:10.65833	Makeware_U3_W2_L2.exe	3372	Process Start		SUCCESS	Parent PID: 1608, Command line: "C:\Documents and Settings\Administrator\Desktop\Esercizio_F
2:05:10.65833	Makeware_U3_W2_L2.exe	3372	Process Create	C:\WINDOWS\system32\svchost.exe	SUCCESS	PID: 3380, Command line: "C:\WINDOWS\system32\svchost.exe"
2:05:11.68495	Makeware_U3_W2_L2.exe	3372	Process Exit		SUCCESS	Exit Status: 0, User Time: 0.0156250 seconds, Kernel Time: 0.0156250 seconds, Private Bytes: 27
3:40:13.42224	Makeware_U3_W2_L2.exe	2908	Process Start		SUCCESS	Parent PID: 1608, Command line: "C:\Documents and Settings\Administrator\Desktop\Esercizio_F
3:40:13.44808	Makeware_U3_W2_L2.exe	2908	Process Create	C:\WINDOWS\system32\svchost.exe	SUCCESS	PID: 2912, Command line: "C:\WINDOWS\system32\svchost.exe"
3:40:14.43545	Makeware_U3_W2_L2.exe	2908	Process Exit		SUCCESS	Exit Status: 0, User Time: 0.0156250 seconds, Kernel Time: 0.0156250 seconds, Private Bytes: 27

Tra le voci di registro modificate troviamo queste:

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~res-x86_0017 - Notepad
File Edit Format View Help
Regshot 1.9.0 x86 unicode
Comments:
Datetime: 2023/11/28 15:40:05 , 2023/11/28 15:40:19
Computer: MALWARE_TEST , MALWARE_TEST
Username: Administrator , Administrator

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values modified: 3
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HKLM\SOFTWARE\Microsoft\Cryptography\ RNG\Seed: AE EF 9B 3C 5C 64 E8 EE CB 04 85 C5 B6 FA DE 5B BE E3 24 71 75 94 6B AA D5 22 4B 03 46 97 72 C4 94 77 AB CE 37 48 A
HKLM\SOFTWARE\Microsoft\Cryptography\ RNG\Seed: 3A E0 A4 ED 83 F8 DB 93 90 3F 14 81 37 4B 40 79 60 34 5C C1 2D 7F CB 87 1E C9 71 BE C0 B0 3F 2F C2 8A 92 37 39 5D E
HKU\S-1-5-21-1993962763-1606980848-725345543-500\Software\Microsoft\Windows\CurrentVersion\Explorer\UserAssist\{75048700-EF1F-11D0-9888-006097DEACF9}\Count\HRZR_EH
HKU\S-1-5-21-1993962763-1606980848-725345543-500\Software\Microsoft\Windows\CurrentVersion\Explorer\UserAssist\{75048700-EF1F-11D0-9888-006097DEACF9}\Count\HRZR_EH
HKU\S-1-5-21-1993962763-1606980848-725345543-500\Software\Microsoft\Windows\CurrentVersion\Explorer\UserAssist\{75048700-EF1F-11D0-9888-006097DEACF9}\Count\HRZR_EH
HKU\S-1-5-21-1993962763-1606980848-725345543-500\Software\Microsoft\Windows\CurrentVersion\Explorer\UserAssist\{75048700-EF1F-11D0-9888-006097DEACF9}\Count\HRZR_EH

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Total changes: 3
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In base a quello che vedo non sono in grado di dare ulteriori informazioni. Il malware crea un processo e allo stesso tempo va a creare diversi files all'interno di system32. Per capire cosa faccia nello specifico sono necessarie ulteriori analisi.

Davide Lecci