#### **ESERCIZIO W21D1**

Nell'esercizio andremo ad analizzare un malware contenuto nella macchina virtuale Windows 7. Seguiamo la traccia presentata di seguito:

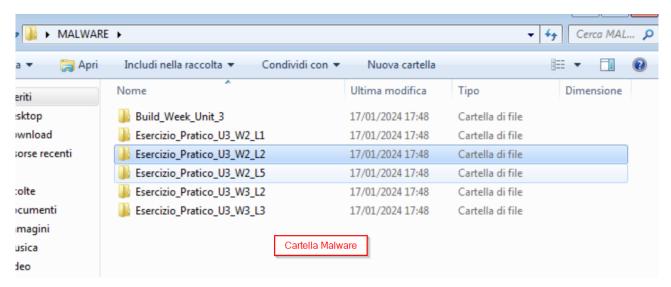
Nella lezione teorica, abbiamo visto come recuperare informazioni su un malware tramite l'analisi dinamica basica.

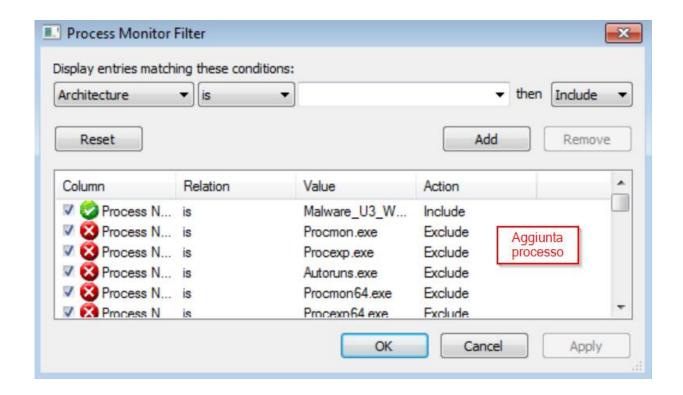
Con riferimento al file eseguibile contenuto nella cartella «Esercizio\_Pratico\_U3\_W2\_L2» presente sul desktop della vostra macchina virtuale dedicata all'analisi dei malware, rispondere ai seguenti quesiti:

- Identificare eventuali azioni del malware sul file system utilizzando Process Monitor (procmon).
- Identificare eventuali azioni del malware su processi e thread utilizzando Process Monitor.
- Identificare le eventuali modifiche del registro dopo l'esecuzione del malware (le differenze).

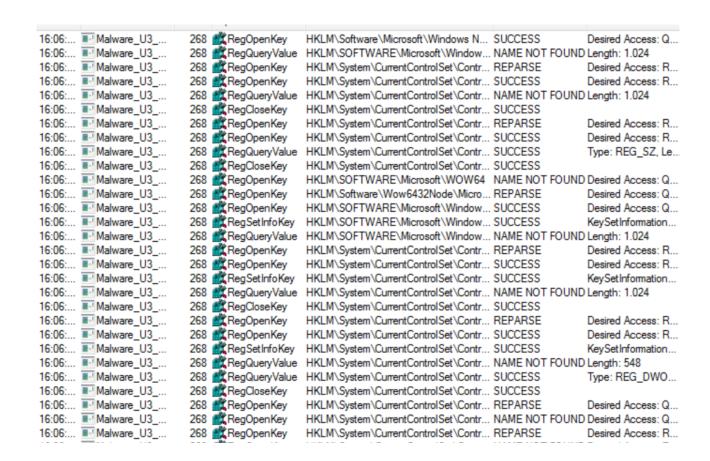
#### Preparazione Procmon e cartella

Eseguiamo l'eseguibile all'interno della cartella e teniamoci pronti con procmon.





### Informazioni raccolte - Registri



# Informazioni raccolte – File System

Time Frocess Name	FID	Operation	Гаит	nesuit	Detail
16:06: Malware_U3	268	■ CreateFile	C:\Windows\Prefetch\MALWARE_U3	NAME NOT FOUND	Desired Access: G
16:06: Malware_U3	268	■ CreateFile	C:\Windows	SUCCESS	Desired Access: E
16:06: Malware_U3	268	■ Create File	C:\Windows\System32\wow64.dll	SUCCESS	Desired Access: R
16:06: Malware_U3	268	QueryBasicInfor.	.C:\Windows\System32\wow64.dll	SUCCESS	Creation Time: 21/1
16:06: Malware_U3	268	CloseFile	C:\Windows\System32\wow64.dll	SUCCESS	
16:06: Malware_U3	268	■ CreateFile	C:\Windows\System32\wow64.dll	SUCCESS	Desired Access: R
16:06: Malware_U3	268	CreateFileMapp	.C:\Windows\System32\wow64.dll	FILE LOCKED WI	SyncType: SyncTy
16:06: Malware_U3	268	CreateFileMapp	.C:\Windows\System32\wow64.dll	SUCCESS	SyncType: SyncTy
16:06: Malware_U3	268	■ CloseFile	C:\Windows\System32\wow64.dll	SUCCESS	
16:06: Malware_U3	268	■ CreateFile	C:\Windows\System32\wow64win.dll	SUCCESS	Desired Access: R
16:06: Malware_U3	268	QueryBasicInfor	.C:\Windows\System32\wow64win.dll	SUCCESS	Creation Time: 21/1
16:06: Malware_U3	268	➡ CloseFile	C:\Windows\System32\wow64win.dll	SUCCESS	
16:06: Malware_U3	268	■ CreateFile	C:\Windows\System32\wow64win.dll	SUCCESS	Desired Access: R
16:06: Malware_U3	268	CreateFileMapp	.C:\Windows\System32\wow64win.dll	FILE LOCKED WI	SyncType: SyncTy
16:06: Malware_U3	268	CreateFileMapp	.C:\Windows\System32\wow64win.dll	SUCCESS	SyncType: SyncTy
16:06: Malware_U3	268	CloseFile	C:\Windows\System32\wow64win.dll	SUCCESS	
16:06: Malware_U3	268	Create File	C:\Windows\System32\wow64cpu.dll	SUCCESS	Desired Access: R
16:06: Malware_U3	268	QueryBasicInfor.	.C:\Windows\System32\wow64cpu.dll	SUCCESS	Creation Time: 21/1
16:06: Malware_U3	268	■ CloseFile	C:\Windows\System32\wow64cpu.dll	SUCCESS	
16:06: Malware_U3	268	■ CreateFile	C:\Windows\System32\wow64cpu.dll	SUCCESS	Desired Access: R
16:06: Malware_U3	268	CreateFileMapp	.C:\Windows\System32\wow64cpu.dll	FILE LOCKED WI	SyncType: SyncTy
16:06: Malware_U3	268	CreateFileMapp	.C:\Windows\System32\wow64cpu.dll	SUCCESS	SyncType: SyncTy
16:06: Malware_U3	268	CloseFile	C:\Windows\System32\wow64cpu.dll	SUCCESS	
16:06: Malware_U3	268	■ CreateFile	C:\Windows\System32\wow64log.dll	NAME NOT FOUND	Desired Access: R
16:06: Malware_U3	268	Create File	C:\Windows	SUCCESS	Desired Access: R
16:06: Malware_U3	268	QueryNameInfo	.C:\Windows	SUCCESS	Name: \Windows
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## Informazioni raccolte – Processi e Threads

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16:06:	Malware_U3	268	Process Start		SUCCESS	Parent PID: 1348,
16:06:	Malware_U3	268	Thread Create		SUCCESS	Thread ID: 2020
16:06:	Malware_U3	268	Load Image	C:\Users\user\Desktop\MALWARE\Es	SUCCESS	Image Base: 0x400
16:06:	Malware_U3	268	Load Image	C:\Windows\System32\ntdll.dll	SUCCESS	Image Base: 0x775
16:06:	Malware_U3	268	Load Image	C:\Windows\SysWOW64\ntdll.dll	SUCCESS	Image Base: 0x777
16:06:	Malware_U3	268	Load Image	C:\Windows\System32\wow64.dll	SUCCESS	Image Base: 0x752
16:06:	Malware_U3	268	Load Image	C:\Windows\System32\wow64win.dll	SUCCESS	Image Base: 0x751
16:06:	Malware_U3	268	Load Image	C:\Windows\System32\wow64cpu.dll	SUCCESS	Image Base: 0x751
16:06:	Malware_U3	268	<b>ar</b> Load Image	C:\Windows\System32\kemel32.dll	SUCCESS	Image Base: 0x774
16:06:	Malware_U3	268	TLoad Image	C:\Windows\SysWOW64\kemel32.dll	SUCCESS	Image Base: 0x761
16:06:	Malware_U3	268	TLoad Image	C:\Windows\System32\kemel32.dll	SUCCESS	Image Base: 0x774
16:06:	Malware_U3	268	Toad Image	C:\Windows\System32\user32.dll	SUCCESS	Image Base: 0x773
16:06:	Malware_U3	268	Load Image	C:\Windows\SysWOW64\kemel32.dll	SUCCESS	Image Base: 0x761
16:06:	Malware_U3	268	TLoad Image	C:\Windows\SysWOW64\KemelBase.dll	SUCCESS	Image Base: 0x755
16:06:	Malware_U3	268	Process Create	C:\Windows\SysWOW64\svchost.exe	SUCCESS	PID: 2192, Comma
16:06:	Malware_U3	268	TLoad Image	C:\Windows\SysWOW64\apphelp.dll	SUCCESS	Image Base: 0x73f
16:06:	Malware_U3	268	Load Image	C:\Windows\SysWOW64\svchost.exe	SUCCESS	Image Base: 0xcf0
16:06:	Malware_U3	268	Thread Exit		SUCCESS	Thread ID: 2020,
16:06:	Malware_U3	268	Process Exit		SUCCESS	Exit Status: 0, User