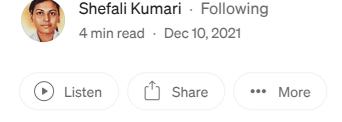
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TRY HACK ME: Write-Up Dunkle Materie — Ransomware Investigation using ProcDOT





Task 1 Ransomware Investigation-

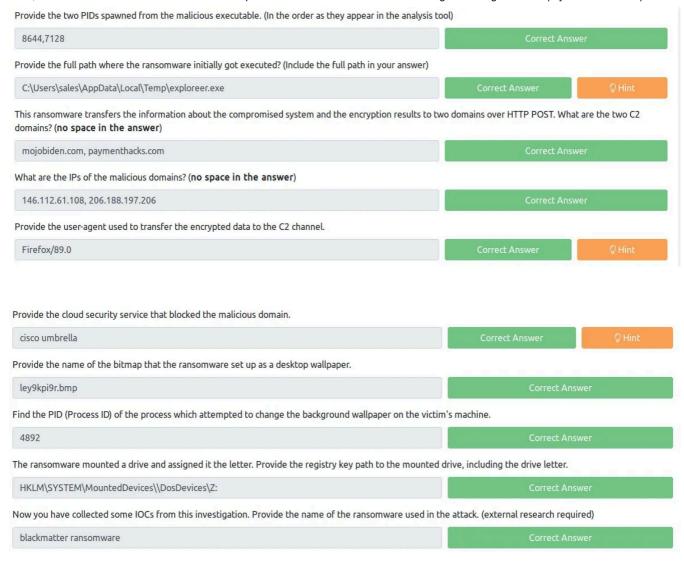
The firewall alerted the Security Operations Center that one of the machines at the Sales department, which stores all the customers' data, contacted the malicious domains over the network. When the Security Analysts looked closely, the data sent to the domains contained suspicious base64-encoded strings. The Analysts involved the Incident Response team in pulling the Process Monitor and network traffic data to determine if the host is infected. But once they got on the machine, they knew it was a ransomware attack by looking at the wallpaper and reading the ransomware note.

Can you find more evidence of compromise on the host and what ransomware was involved in the attack?

ProcDOT visualizes results on the basis of Process Monitoring logs and Network Traffic logs.

Answer to the questions of this section-

X



Answers-

____1 _ _ _ _ _ _ _ _ _ _ _ _ _

- 1) Within Monitoring Logs, select Procmon file from Desktop -> Analysis Files -> CSV file. Navigate under Render Configuration hit the launcher button.
- 2) After this we will be prompted to select the first relevant process name to start the analysis with. I have identified PID 8644 and 7128 with suspicious process names

Medium Search

Search

Sometime

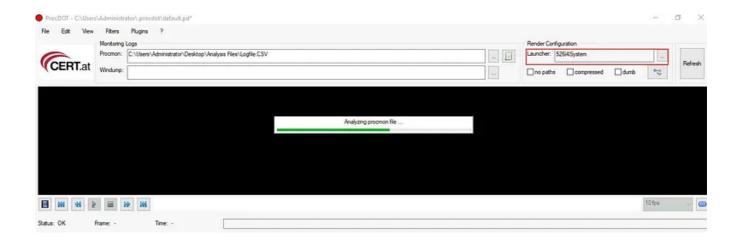
Windume

State

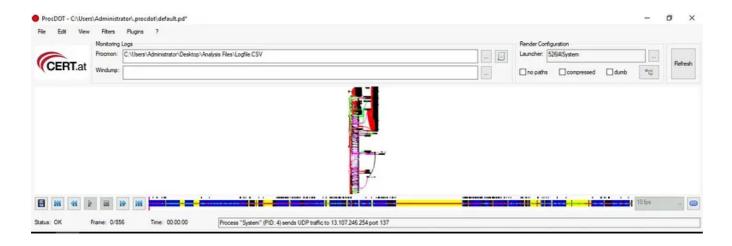
Windume

State

3) Select process name — System, double click on System, and then click on Refresh to visualize.



We will get something like mentioned below.



Zoom in and look for the process itself. [Make use of View tab -> Graph]

Right-click on PID-8644 exploreer.exe and select Details to view Full Path.



4) Look at PID-7128 exploreer.exe and map mentioned IP addresses related to explorer.exe in Wireshark.

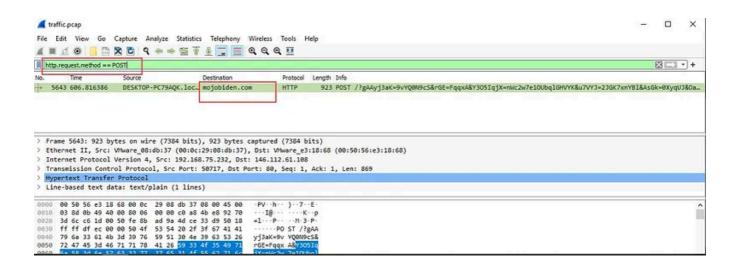
IP address1-146,112,61,108

IP address 2-206.188.197.206



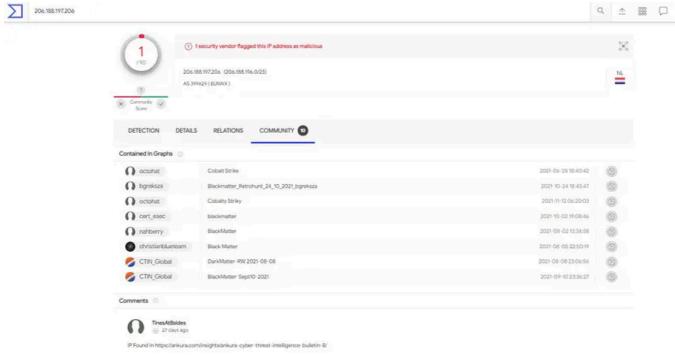
Now type http.request.method == POST as filter in wireshark and navigate to Edit -> preferenses -> Name Resolution -> enable resolve network (IP) addresses.

Domain 1- mojobiden.com



Domain 2- paymenthacks.com

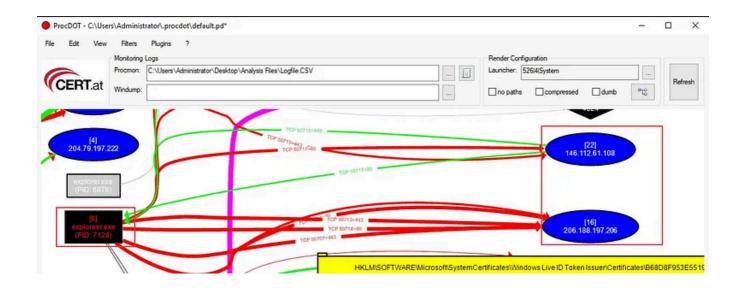
Domain 2 is identified using Threat Hunting Skills by searching information for IP-206.188.197.206 on Virus Total.



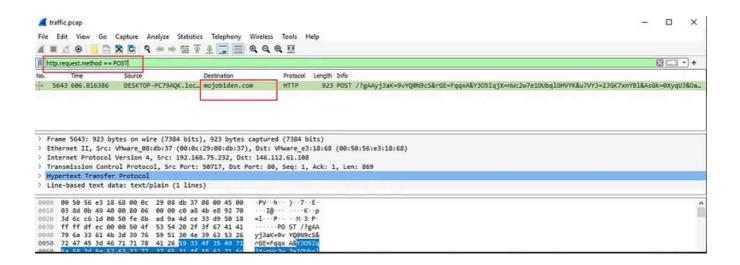
Domain 2 identified.



5) Malicious IP address for the identified domains are mentioned below



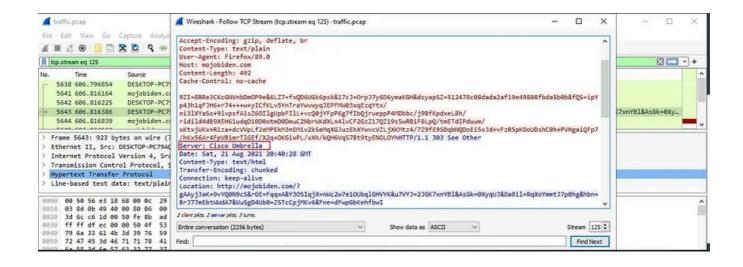
6) Now type http.request.method == POST as filter in wireshark and navigate to Edit ->preferenses -> Name Resolution -> enable resolve network (IP) addresses.



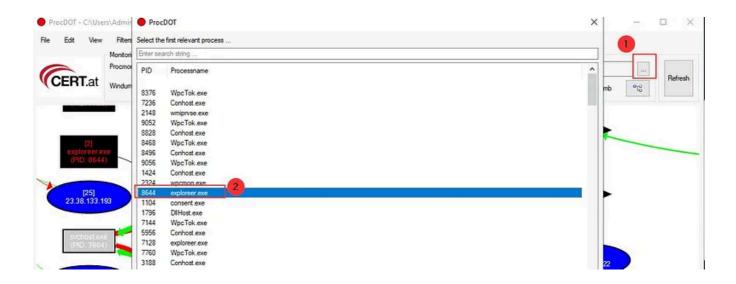
Following TCP Stream for the traffic mentioned above, we will get User-Agent for the same.



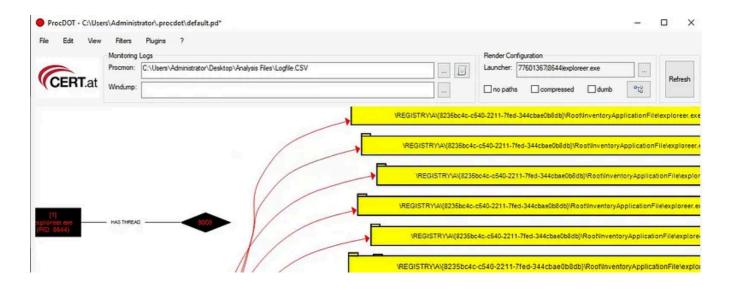
7) Follow TCP Stream for the domain -mojobiden.com



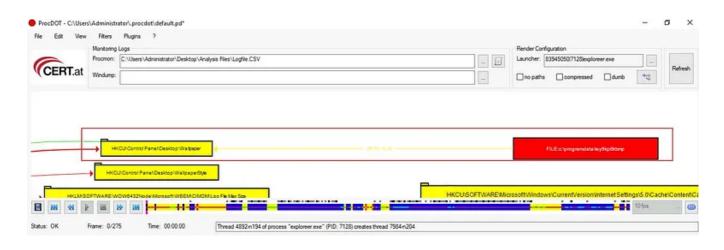
8) Now in ProcDot, click the launcher button to view the process listing. Select PID-7128 exploreer.exe and double click on 7128 exploreer.exe



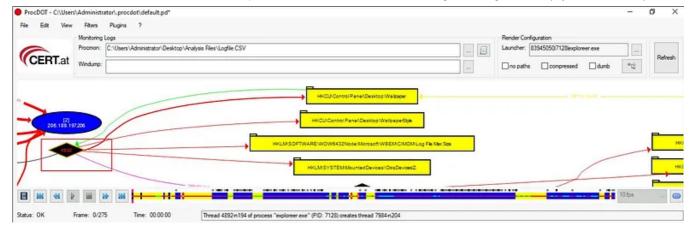
Now visualize PID-7128 exploreer.exe



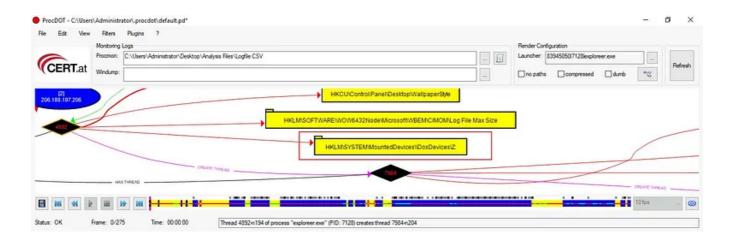
9) Answer 7 — ley
9kpi
9r.bmp



10) Answer 8-4892

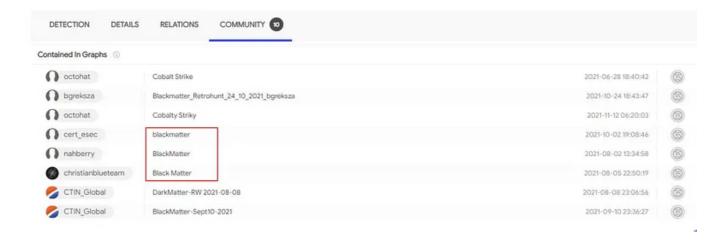


11) Answer 10- HKLM\SYSTEM\MountedDevices\\DosDevices\Z:



12) Answer 11- black matter ransomware

Visit AlienVault or Virus Total with IOCs to fetch the ransomware names.



That is all for this Write-up, hoping this will help you in solving the challenges of Dunkle Materie. Have Fun and Enjoy Hacking! Do visit other rooms and modules on TryHackMe for more learning.

-by Shefali Kumai

Tryhackme Writeup

Dunkle Materie

Ransomware

Wireshark

Malware Analysis



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Written by Shefali Kumari

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Love Learning about Malware analysis, Threat hunting, Network Security and Incident Response Management professionally | https://youtube.com/channel/UCf-F-eATCU

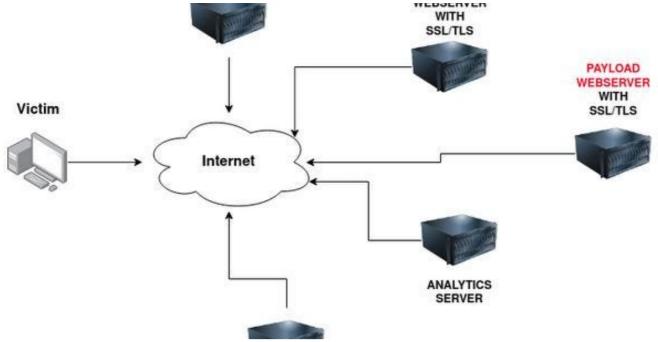
No responses yet



What are your thoughts?

Respond

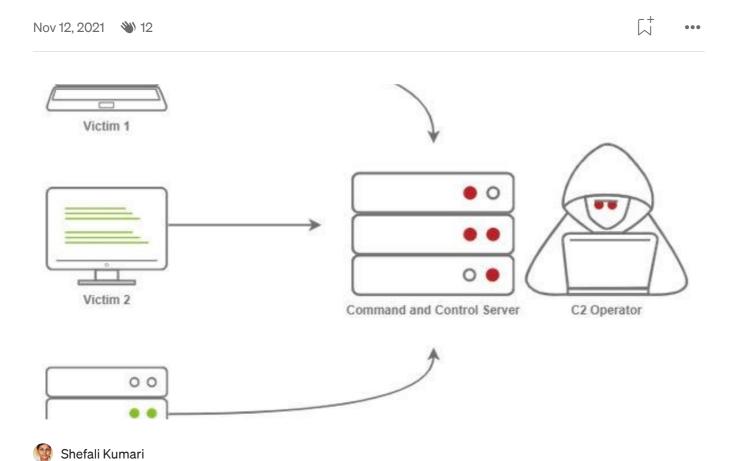
More from Shefali Kumari





TRY HACK ME: Write-Up Phishing

Task 2 Intro To Phishing Attacks -



TRY HACK ME: Intro to C2 Write-Up

Task 1 Introduction -

Mar 14, 2022 **3** 54





TRY HACK ME: Write-Up Module-Vulnerability Research: Exploit Vulnerabilities

TASK 1: INTRODUCTION -

Oct 13, 2021 🐿 55 🗨 2

```
MBC Behavior
Debugger Detection::Process Environment Block BeingDebugged
Debugger Detection::Process Environment Block NtGlobalFlag
Debugger Detection::Software Breakpoints [80001.025]
Virtual Machine Detection::Human User Check [80009.012]
                Detection::Instruction Testing [80009.029]
                 ion::Argument Obfuscation [80012.001]
Keylogging::Polling [F0002.002]
HTTP Communication::Read Header [C0002.014]
Encoding::XOR [C0026.002]
Non-Cryptographic Hash::MurmurHash [C0030.001]
Obfuscated Files or Information::Encoding-Standard Algorith
Create Directory [C0046]
Delete File [C0047]
Get File Attributes [C0049]
Read File [C0051]
```



TRY HACK ME: Basic Static Analysis Write-Up

Task 1 Introduction-

Mar 13, 2023	3 1			•••
		See all from Shefali Ku	mari	

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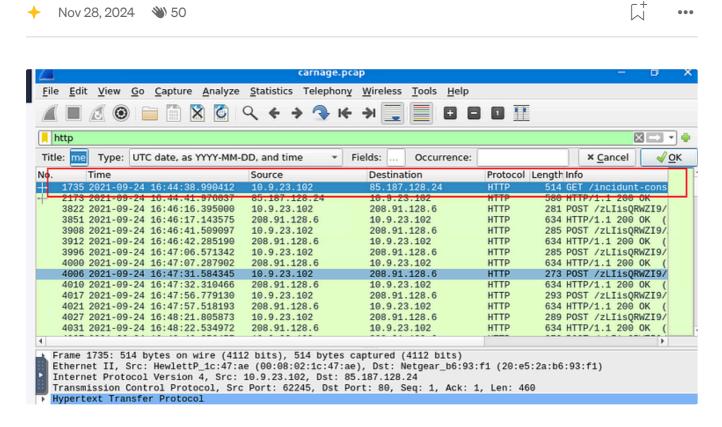
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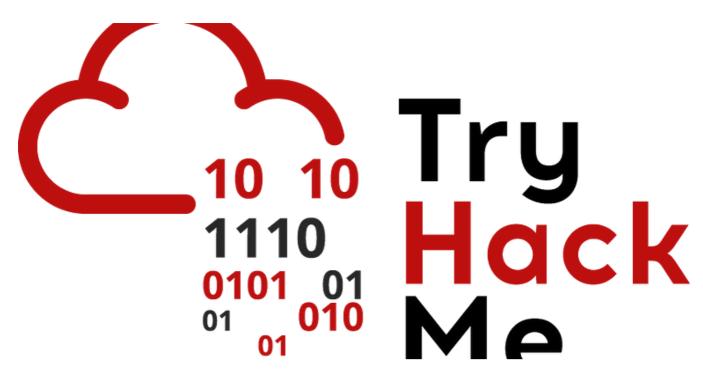


Chicken0248

[TryHackMe Write-up] Carnage

Apply your analytical skills to analyze the malicious network traffic using Wireshark.

Aug 17, 2024 *** 50





Advent of Cyber 2024

TL;DR Walkthrough of the first & current days of the 2024 Advent of Cyber, covering Google Fu, PowerShell, AD, a little Entra ID, and some...

Dec 17, 2024 ----

```
rd.img.old
            lib64
                                                                      vmlinuz.old
                        media
                                opt
                                                       tmp
                                                             var
            lost+found
                                                             vmlinuz
                                proc
                                      run
                                            snap
                                                       usr
var/log
log# ls
cloud-init-output.log
                        dpkq.log
                                         kern.log
                                                    lxd
                                                               unattended-upgrades
                        fontconfig.log
cloud-init.log
                                         landscape
                                                    syslog
                                                               wtmp
                        journal
dist-upgrade
                                         lastlog
                                                    tallylog
log# cat auth.log | grep install
                                  PWD=/home/cybert ; USER=root ; COMMAND=/usr/bin/
             cybert : TTY=pts/θ ;
             cybert : TTY=pts/θ ; PwD=/home/cybert ; USER=root ; COMMAND=/usr/bin/
             cybert : TTY=pts/0 ; PWD=/home/cybert ; USER=root ; COMMAND=/bin/chow
hare/dokuwiki/bin /usr/share/dokuwiki/doku.php /usr/share/dokuwiki/feed.php /usr/s
hare/dokuwiki/install.php /usr/share/dokuwiki/lib /usr/share/dokuwiki/vendor -R
log#
```

Dan Molina

Disgruntled CTF Walkthrough

This is a great CTF on TryHackMe that can be accessed through this link here: https://tryhackme.com/room/disgruntled

Oct 22, 2024

See more recommendations