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TryHackMe | Brim — Write-up



Learn and practice log investigation, pcap analysis and threat hunting with Brim.

Link: https://tryhackme.com/room/brim

"BRIM is an open-source desktop application that processes pcap files and logs files. Its primary focus is providing search and analytics. In this room, you will learn how to use Brim, process pcap files and investigate log files to find the needle in the haystack! This room expects you to be familiar with basic security concepts and processing Zeek log files. We suggest completing the "Network Fundamentals" path and the "Zeek room" before starting working in this room."

My write-up for the Zeek rooms are here:

TryHackMe | Zeek Introduction to hands-on network monitoring and threat detection with Zeek (formerly Bro). medium.com

X

TryHackMe | Zeek Exercises

Put your Zeek skills into practice and analyse network traffic.

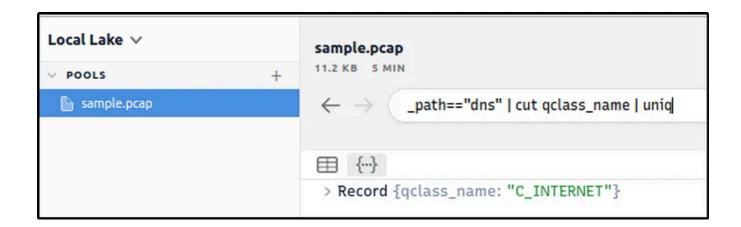
medium.com

Task 3: The Basics

Process the "sample.pcap" file and look at the details of the first DNS log that appear on the dashboard. What is the "qclass_name"?

Ans: C_INTERNET

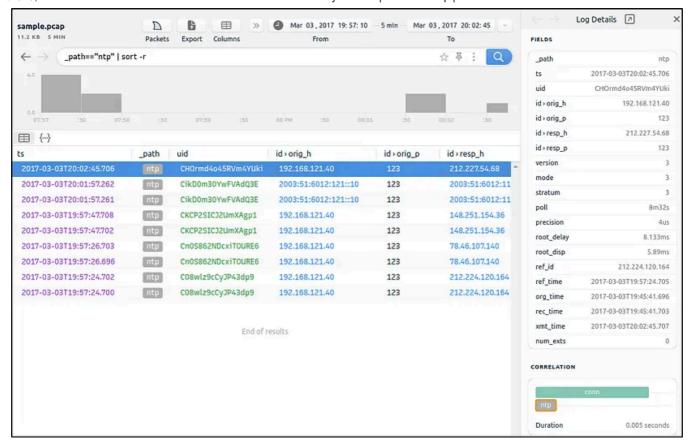
```
_path=="dns" | cut qclass_name | uniq
```



Look at the details of the first NTP log that appear on the dashboard. What is the "duration" value?

Ans: 0.005

```
_path=="ntp" | sort -r
```



Look at the details of the STATS packet log that is visible on the dashboard. What is the "reassem_tcp_size"?

Ans: 540

```
_path=="stats" | cut reassem_tcp_size
```

```
sample.pcap

11.2 KB 5 MIN

← → _path=="stats" | cut reassem_tcp_size

□ {···}

> Record {reassem_tcp_size: 540}

> Record {reassem_tcp_size: 0}
```

Task 4: Default Queries

Investigate the files. What is the name of the detected GIF file?

Ans: cat01_with_hidden_text.gif

```
_path=="files" | cut filename| uniq
```



Investigate the conn logfile. What is the number of the identified city names?

Ans: 2

```
_path=="conn"| cut geo.resp.city | sort | uniq -c
```



Investigate the Suricata alerts. What is the Signature id of the alert category "Potential Corporate Privacy Violation"?

Ans: 2,012,887





Task 6 Exercise: Threat Hunting with Brim | Malware C2 Detection

What is the name of the file downloaded from the CobaltStrike C2 connection?

Ans: 4564.exe

We know that 104.168.44.45 is the first CobaltStrike C2 server identified.

```
_path=="http" | cut host, uri | uniq -c | 104.168.44.45
```



What is the number of CobaltStrike connections using port 443?

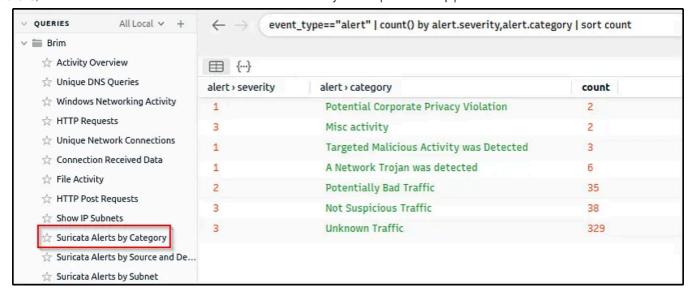
Ans: 328

```
_path=="conn" id.resp_h==104.168.44.45 id.resp_p==443 | count() by id.resp_p
```



There is an additional C2 channel in used the given case. What is the name of the secondary C2 channel?

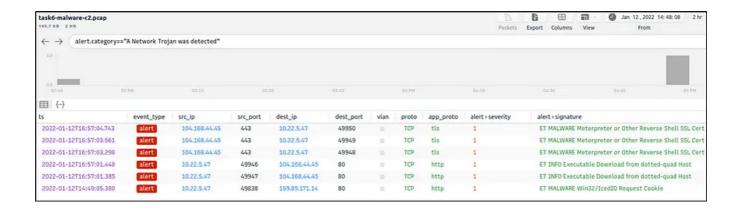
Ans: IcedID



We will leverage the Suricata rules within Brim by investigating all "Alerts by Category". After looking into the categories, we found a C2 channel. (I am quite not familiar yet with the other C2 channels aside from the more popular ones, so it took me awhile to answer this.)

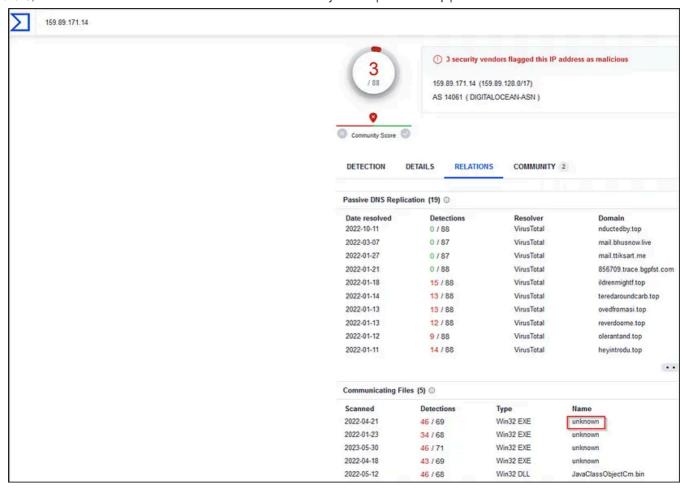
In the category "A Network Trojan was detected", under the alert.signature field, we see the C2 channel

alert.category=="A Network Trojan was Detected"

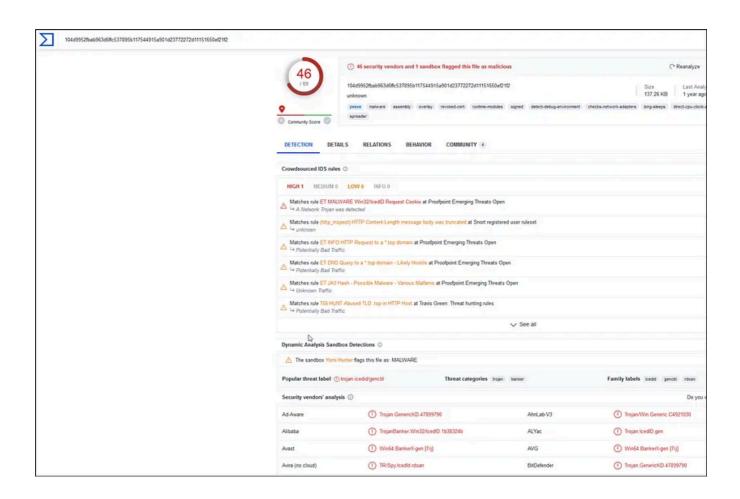


We can also use VirusTotal and search for the IP address identified.

We will then click on one of the communicating files.



The C2 name is found in the Detection section.



Task 7 Exercise: Threat Hunting with Brim | Crypto Mining

How many connections used port 19999?

Ans: 22

```
_path=="conn" id.resp_p==19999 | count() by id.resp_p
```

What is the name of the service used by port 6666?

Ans: irc

```
_path=="conn" id.resp_p==6666 | cut service | uniq
```



What is the amount of transferred total bytes to "101.201.172.235:8888"?

Ans: 3,729

This filter adds a new column,"total_bytes", that is the sum of bytes sent and received by 101.201.172.235:8888



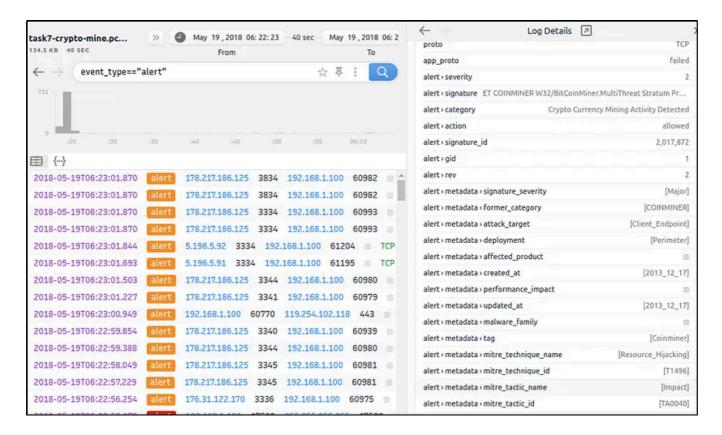


What is the detected MITRE tactic id?

Ans: TA0040

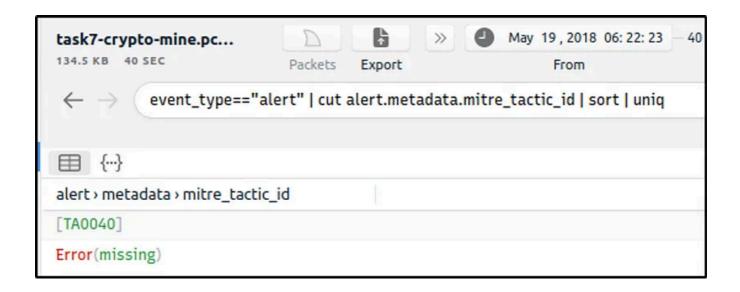
We will first filter all alerts.

```
event_type=="alert"
```



We will then modify the filter if there are other tactic IDs that have been detected. There is only one tactic ID detected so far.

```
event_type=="alert" | cut alert.metadata.mitre_tactic_id | sort | uniq
```



Thanks for reading!

Happy learning:-)





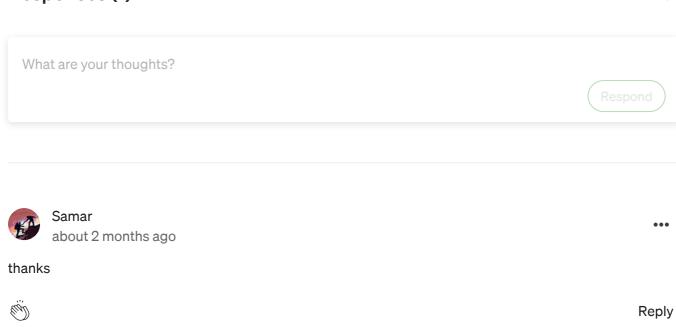


Written by igor_sec

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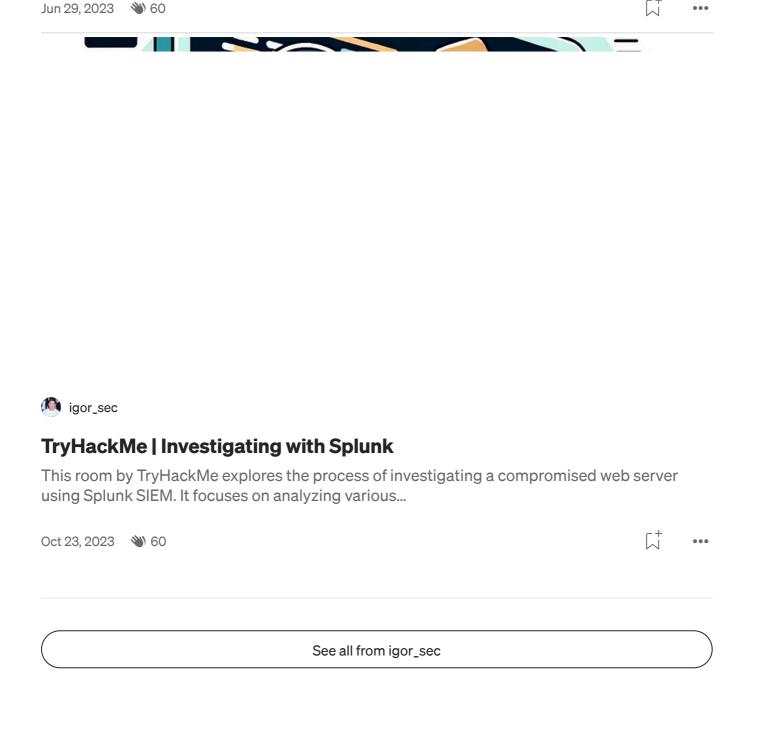




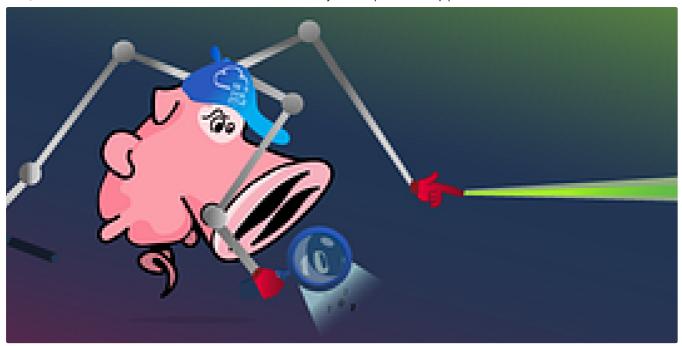
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```
rd.img.old
                                                                      vmlinuz.old
            lib64
                        media
            lost+found
                                      run
                                                            vmlinuz
                               proc
                                            snap
var/log
log# ls
                        dpkg.log
                                         kern.log
                                                    lxd
cloud-init-output.log
                                                              unattended-upgrades
                        fontconfig.log
 cloud-init.log
                                         landscape
                                                    syslog
                                                              wtmp
                        journal
dist-upgrade
                                         lastlog
                                                    tallylog
log# cat auth.log | grep install
8-55 sudo:
             cybert : TTY=pts/0 ; PWD=/home/cybert ; USER=root ; COMMAND=/usr/bin/
8-55 sudo:
             cybert : TTY=pts/0 ; PWD=/home/cybert ; USER=root ; COMMAND=/usr/bin/
8-55 sudo:
             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

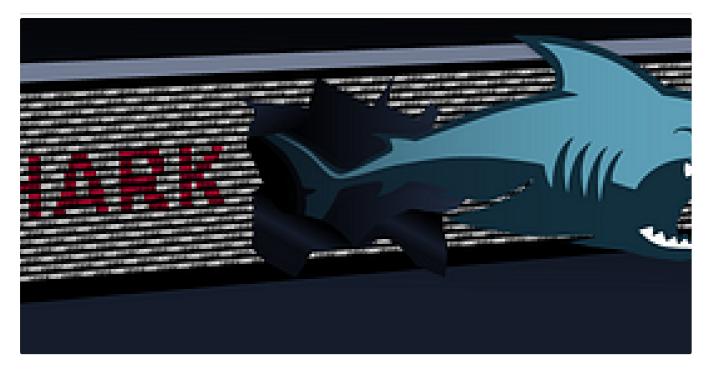
Disgruntled CTF Walkthrough

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

Oct 22, 2024









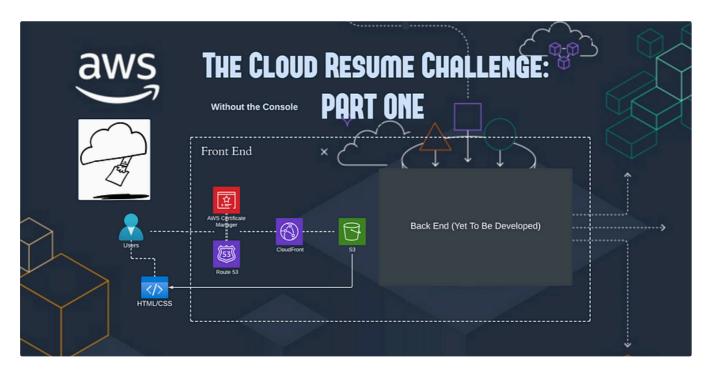
TShark: The Basics—Tryhackme

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