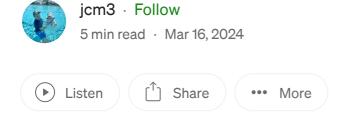




# Benign | TryHackMe — Walkthrough



Hey all, this is the thirty-eighth installment in my walkthrough series on TryHackMe's SOC Level 1 path which covers the seventh and final room in this module on Security Information and Event Management, where we will come to understand how SIEM works and get comfortable creating simple and advanced search queries to look for specific answers from the ingested logs.

In this challenge room, we will investigate a compromised host.

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

Don't be scared of this one guys... it's benign...

#### **Task 1: Introduction**

We will investigate host-centric logs in this challenge room to find suspicious process execution. To learn more about Splunk and how to investigate the logs, look at the rooms <a href="mailto:splunk101">splunk101</a> and <a href="mailto:splunk201">splunk201</a>.

#### **Room Machine**

X

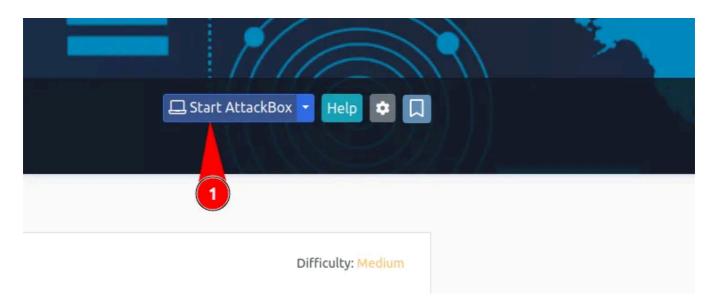
Before moving forward, deploy the machine. When you deploy the machine, it will be assigned an IP. Access this room via the AttackBox, or via the VPN at MACHINE\_IP. The machine will take up to 3-5 minutes to start. Il the required logs are ingested in the index win\_eventlogs.

## Answer the questions below:

#### 1.1 Connect with the lab.

For this room, launch the Machine using the green icon and either start the AttackBox to connect or loadup your VPN:





Answer: No answer needed

Task 2: Scenario: Identify and Investigate an Infected Host

One of the client's IDS indicated a potentially suspicious process execution indicating one of the hosts from the HR department was compromised. Some tools related to network information gathering / scheduled tasks were executed which confirmed the suspicion. Due to limited resources, we could only pull the process execution logs with Event ID: 4688 and ingested them into Splunk with the index win\_eventlogs for further investigation.

#### **About the Network Information**

The network is divided into three logical segments. It will help in the investigation.

#### **IT Department**

- James
- Moin
- Katrina

#### HR department

- Haroon
- Chris
- Diana

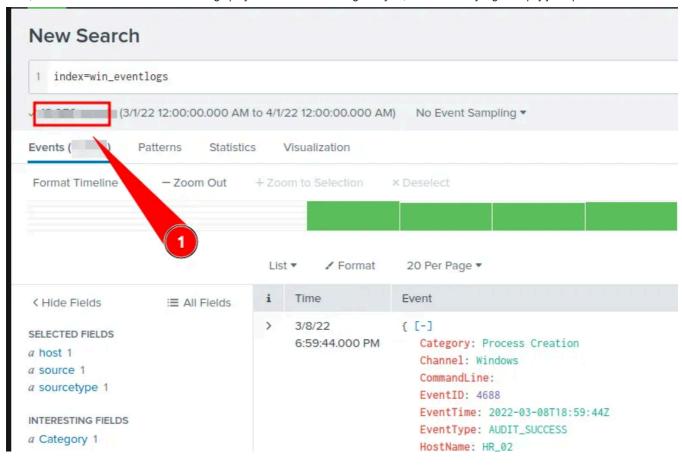
## Marketing department

- Bell
- Amelia
- Deepak

#### *Answer the questions below:*

2.1 How many logs are ingested from the month of March, 2022?

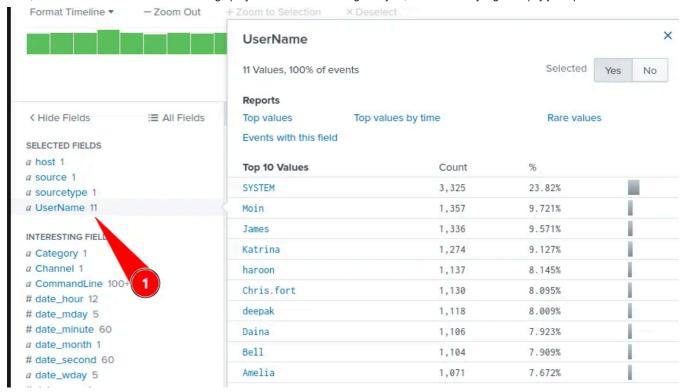
Nice little warm-up to make sure we're awake. Set the date range appropriately:



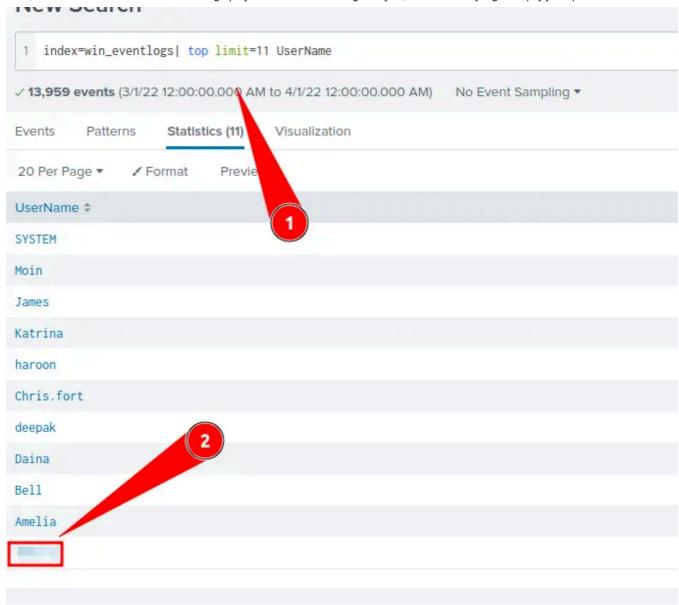
Answer: 13959

2.2 Imposter Alert: There seems to be an imposter account observed in the logs, what is the name of that user?

If we just click on the field 'UserName' we'll see 10/11 results and nothing looks amiss, let's get the extra name:



index=win\_eventlogs
| top limit=11 UserName



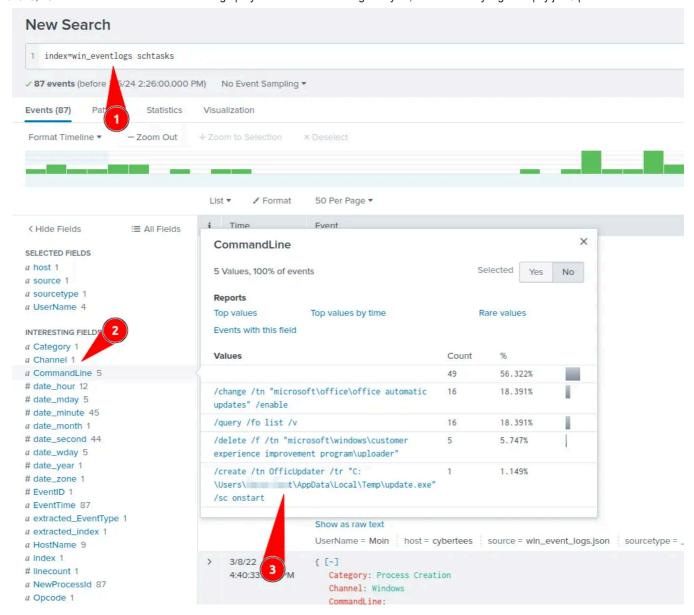
Answer: Amel1a

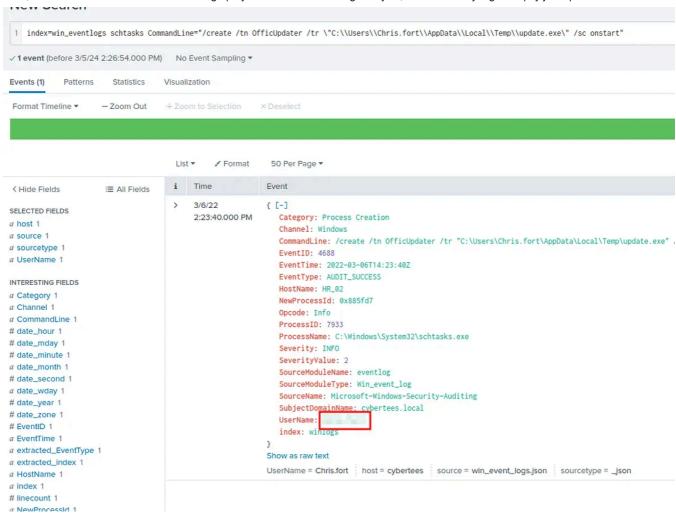
2.3 Which user from the HR department was observed to be running scheduled tasks?

I found this by running the following command, there will be a better way but I'm not experienced enough in Splunk to get it and all the EventIDs are the same for this

```
index=win_eventlogs schtasks
```

From here I sorted by the "CommandLine" field which made it pretty obvious as there's only 5 commands:

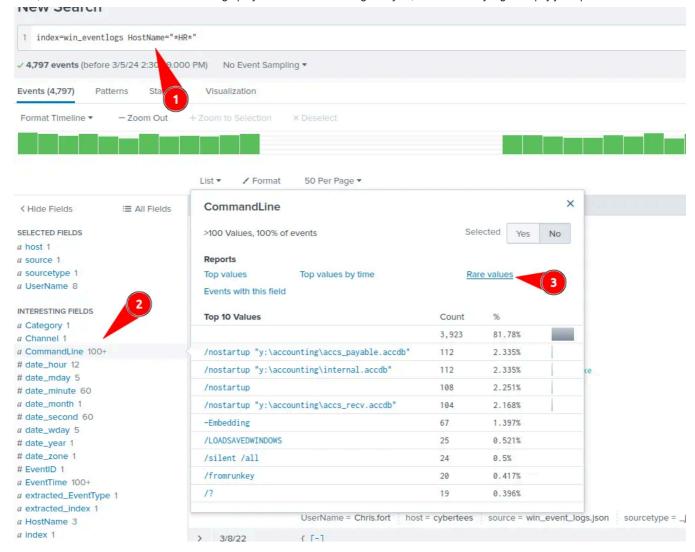




Answer: Chris.fort

2.4 Which user from the HR department executed a system process (LOLBIN) to download a payload from a file-sharing host.

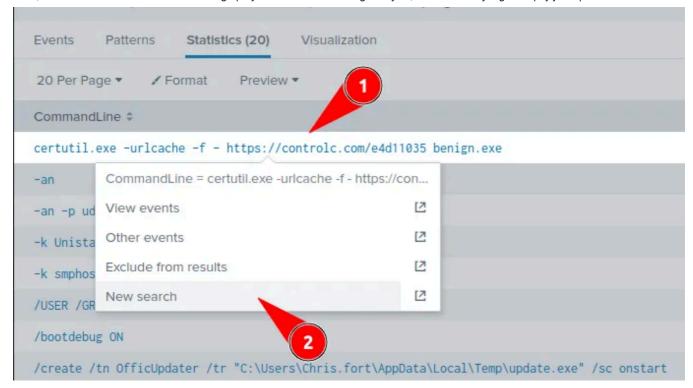
I found this pretty easily this time by going to the CommandLine and displaying rare values:



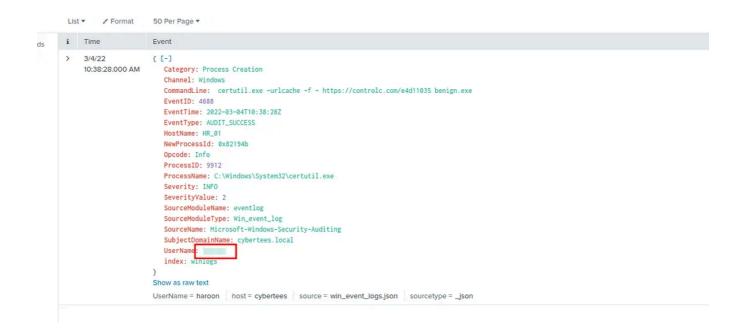
## The query for this is:

```
index=win_eventlogs HostName="*HR*"| rare limit=20 CommandLine
```

This looks a lot like what we're looking for. We see the lolbin they used, certutil. We see a file, "benign.exe" and a c2 server it's reaching out to:



### Searching by it gives us one result:



#### Answer: haroon

2.5 To bypass the security controls, which system process (lolbin) was used to download a payload from the internet?

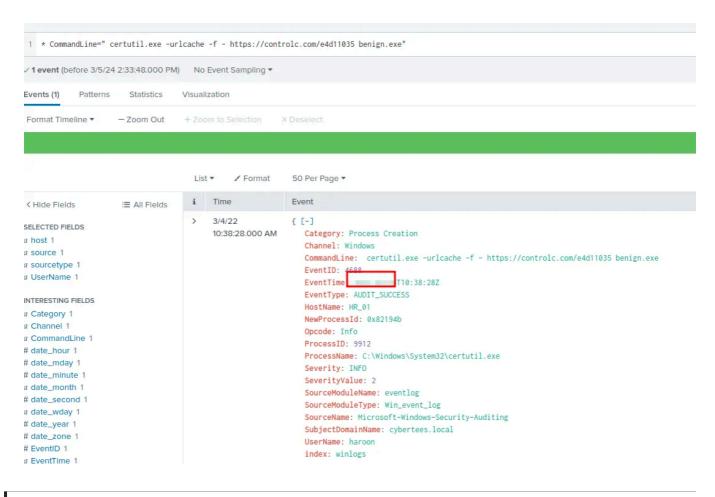
We answered this with the previous question:



**Answer:** certutil.exe

2.6 What was the date that this binary was executed by the infected host? format (YYYY-MM-DD)

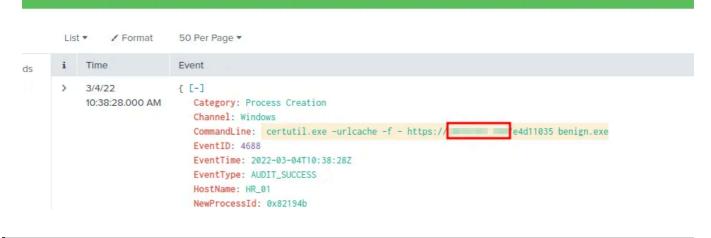
Also answered in question 2.4



Answer: 2022-03-04

2.7 Which third-party site was accessed to download the malicious payload?

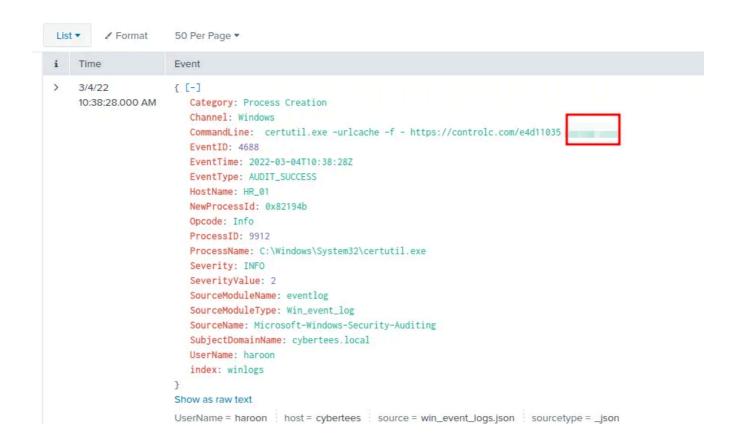
Also answered in 2.4...



Answer: controlc.com

2.8 What is the name of the file that was saved on the host machine from the C2 server during the post-exploitation phase?

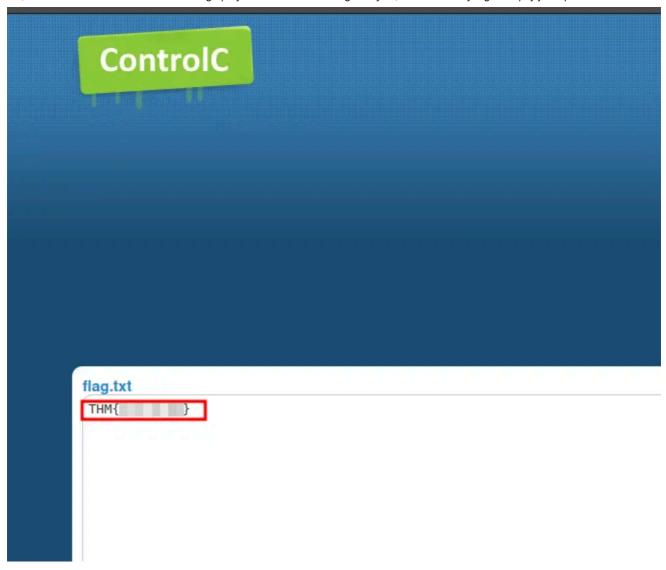
Noticing a pattern?



Answer: benign.exe

2.9 The suspicious file downloaded from the C2 server contained malicious content with the pattern THM{......}; what is that pattern?

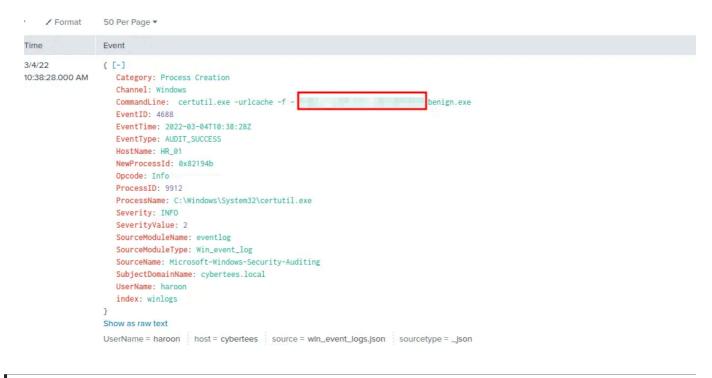
Grab the flag from the site:



Answer: THM{KJ&\*H^B0}

2.10 What is the URL that the infected host connected to?

Again, reference question 2.4:



Answer: https://controlc.com/e4d11035

This concludes the **Benign** room as well as the **Security Information and Event Management** module, the fifth of seven modules in this SOC Level 1 Path on
TryHackMe. This was a fun room and was very approachable and appropriate for
our skill level. We got to see a fun example of an on startup process creation which
resulted in reaching out to a c2 server to download a payload.

Thanks for joining me on this walkthrough and I'll see you in the next one, **DFIR: An Introduction**, where we will also begin our next module, **Digital Forensics and Incident Response**. See you there!

Splunk Cybersecurity Tryhackme Tryhackme Walkthrough Soc Analyst





## Written by jcm3

110 Followers · 9 Following

Proud dad, WGU cybersecurity grad, future MS:Cybersecurity & Information Assurance, aspiring cybersecurity professional, top 2% on TryHackMe.

## No responses yet



What are your thoughts?

Respond

## More from jcm3

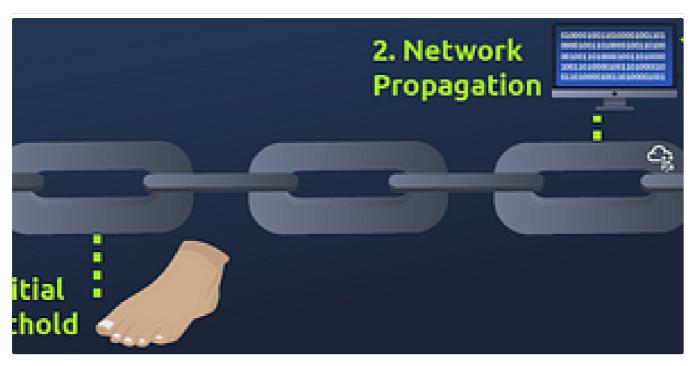


jcm3

## Wireshark: Packet Operations | TryHackMe—Walkthrough

Hey all, this is the twenty-second installment in my walkthrough series on TryHackMe's SOC Level 1 path and the tenth room in this module...

Feb 29, 2024 **№** 69 **Q** 1

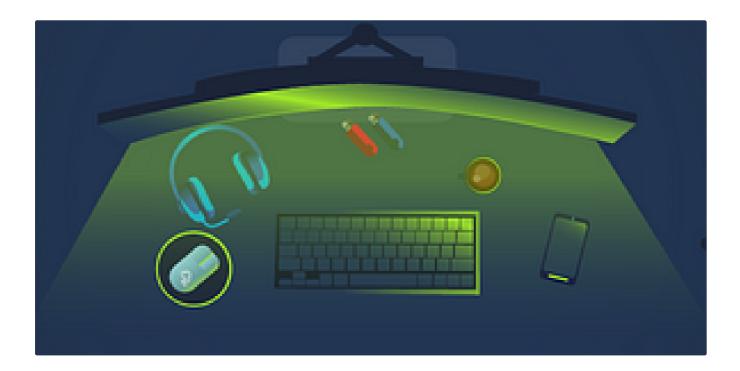




## Unified Kill Chain | TryHackMe—Walkthrough

Hey all, this the is fourth installment in my walkthrough series covering TryHackMe's SOC Level 1 path and the fourth room in this module...

Feb 12, 2024 👏 53





## KAPE | TryHackMe—Walkthrough

Hey all, this is the forty-sixth installment in my walkthrough series on TryHackMe's SOC Level 1 path which covers the sixth room in this...

Mar 25, 2024 **№** 65 **Q** 1





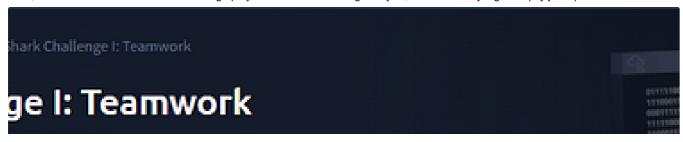
## Intro to Cyber Threat Intel | TryHackMe—Walkthrough

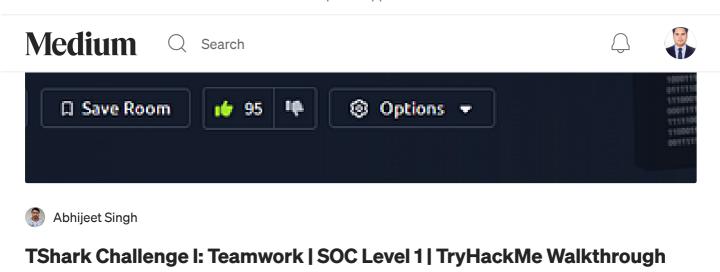
Hey all, this is the seventh installment in my walkthrough series on TryHackMe's SOC Level 1 path and the first room in this module on...

Feb 14, 2024 💜 99

See all from jcm3

#### **Recommended from Medium**





Task 1 - Introduction





In T3CH by Axoloth

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Nov 28, 2024



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Learn to efficiently search the Internet and use specialized search engines and technical docs



ઢ Fritzadriano

## Retracted—TryHackMe WriteUp

Investigate the case of the missing ransomware. After learning about Wazuh previously, today's task is a bit different.

Sep 4, 2024 **№** 50



🚊 In System Weakness by Joseph Alan

# TryHackMe Critical Write-Up: Using Volatility For Windows Memory Forensics

This challenge focuses on memory forensics, which involves understanding its concepts, accessing and setting up the environment using tools...

Jul 18, 2024 **№** 46 **Q** 1

```
rd.img.old
           lib64
                                                                      vmlinuz.old
                        media
                               opt
                                      root
                                            sbin
            lost+found
                               proc
                                                            vmlinuz
var/log
log# ls
cloud-init-output.log
                                         kern.log
                                                              unattended-upgrades
                        dpkg.log
                                                    lxd
cloud-init.log
                        fontconfig.log
                                         landscape
                                                    syslog
                                                              wtmp
                        journal
dist-upgrade
                                         lastlog
                                                    tallylog
log# cat auth.log | grep install
             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

See more recommendations