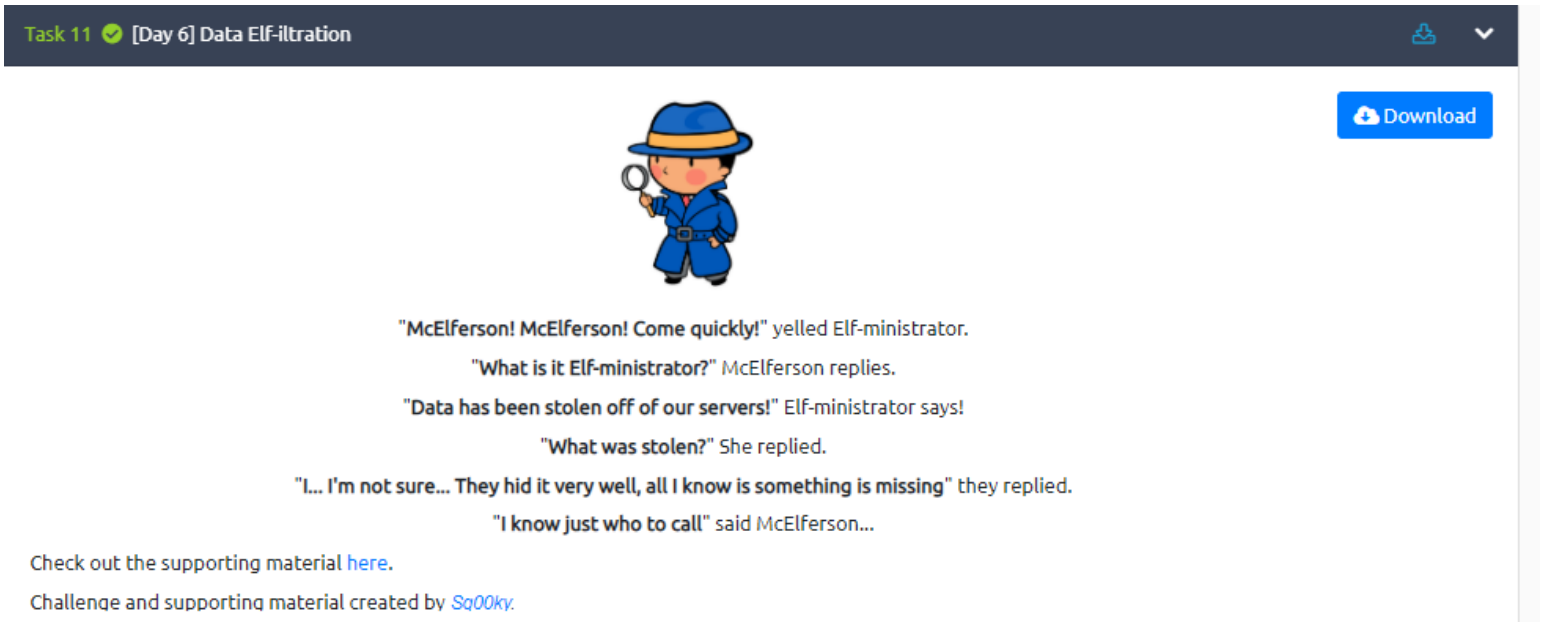
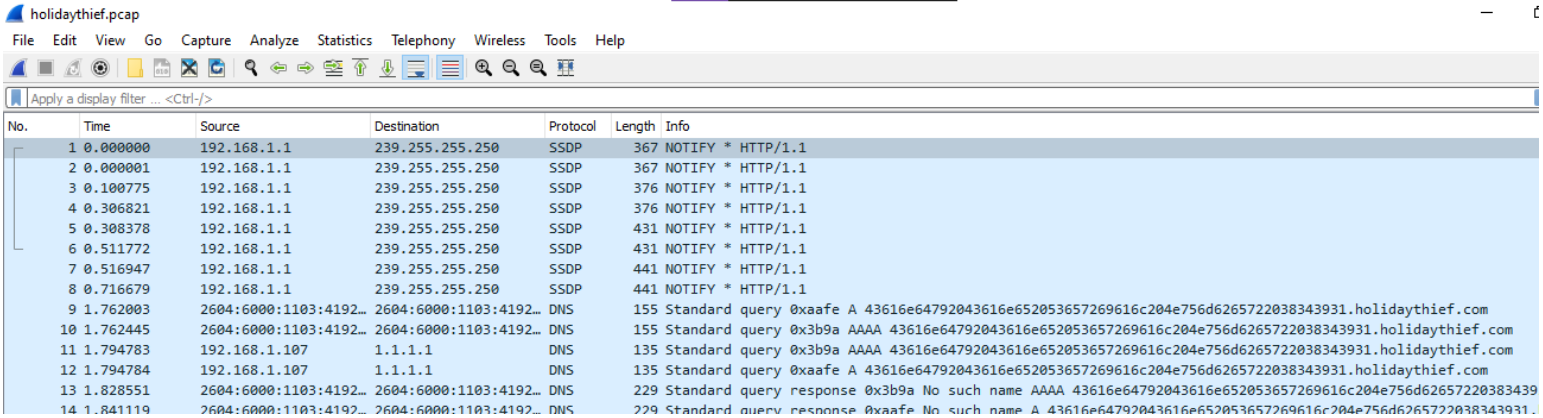
Day 6 - Data Elf-iltration

Scenario



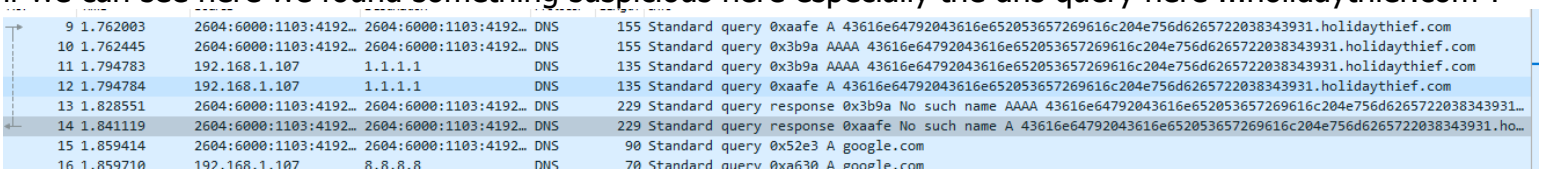
it seems like the data has been stolen here, & we've the network capture packet file let's use the wireshark to examine it

the holidaythief.pcap file content

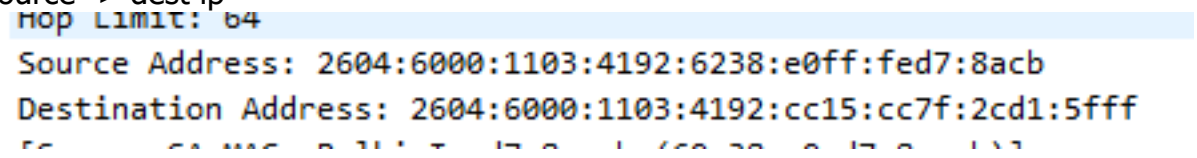


let's check the DNS queries & see whether the threat actor used this data exfiltration technique or not

if we can see here we found something suspicious here especially the dns query here ...holidaythief.com ?



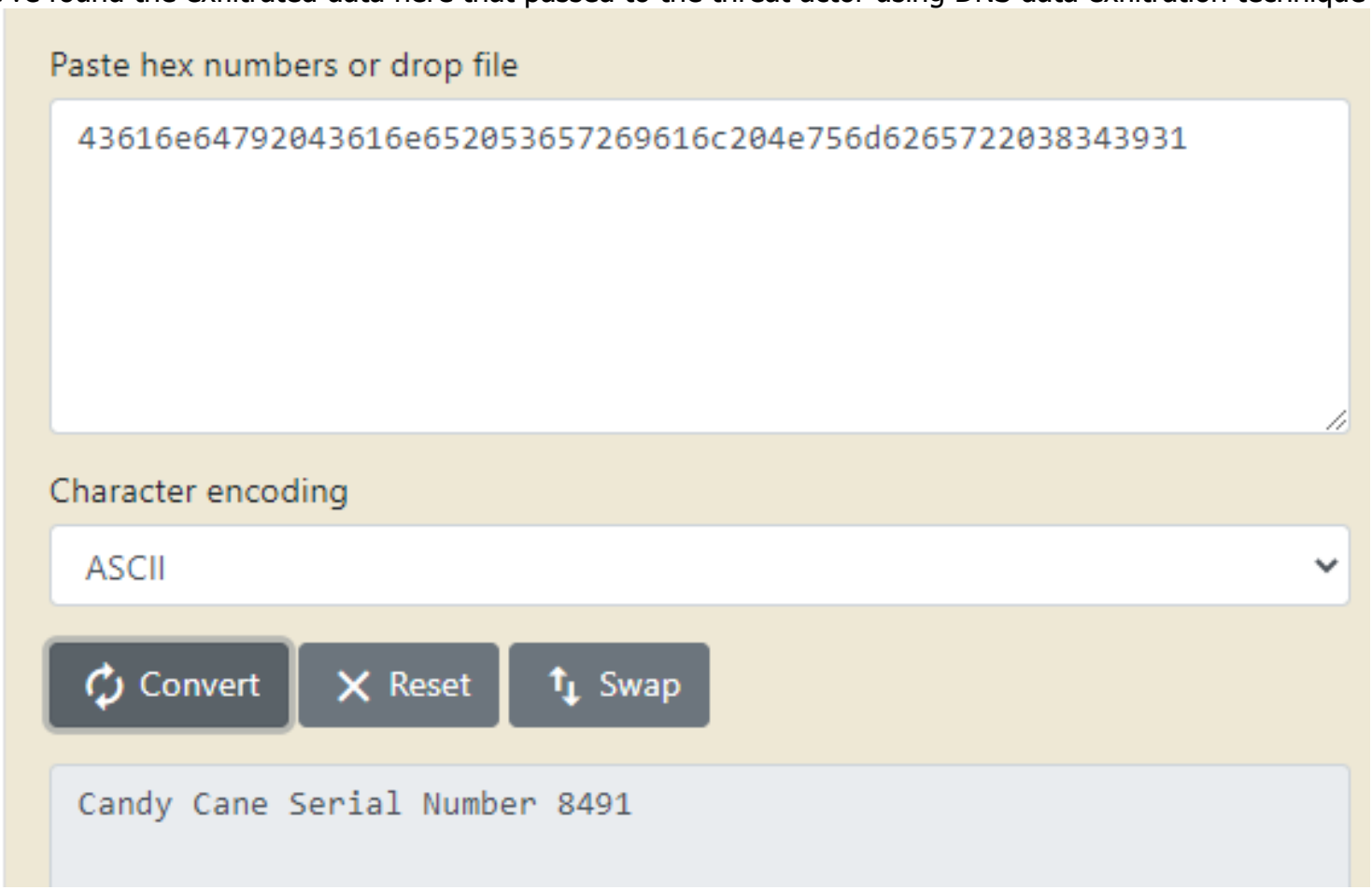
source -> dest ip



dns query, the subdomain part seems quite weird here it's hex encoded form let's convert it to ascii

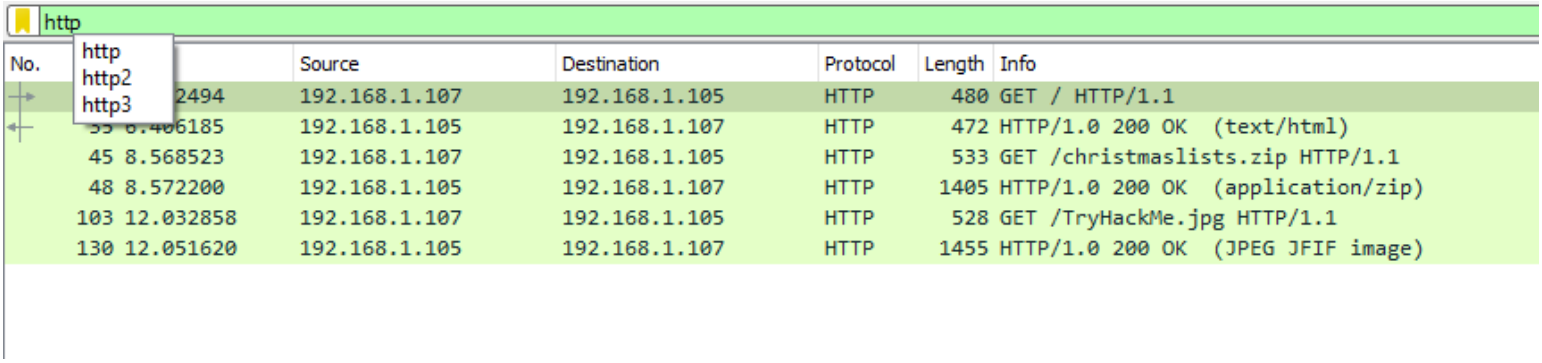
```
Queries
  > 43616e64792043616e652053657269616c204e756d6265722038343931.holidaythief.com: type A, class IN
> Authoritative nameservers
```

& we've found the exfiltrated data here that passed to the threat actor using DNS data exfiltration technique



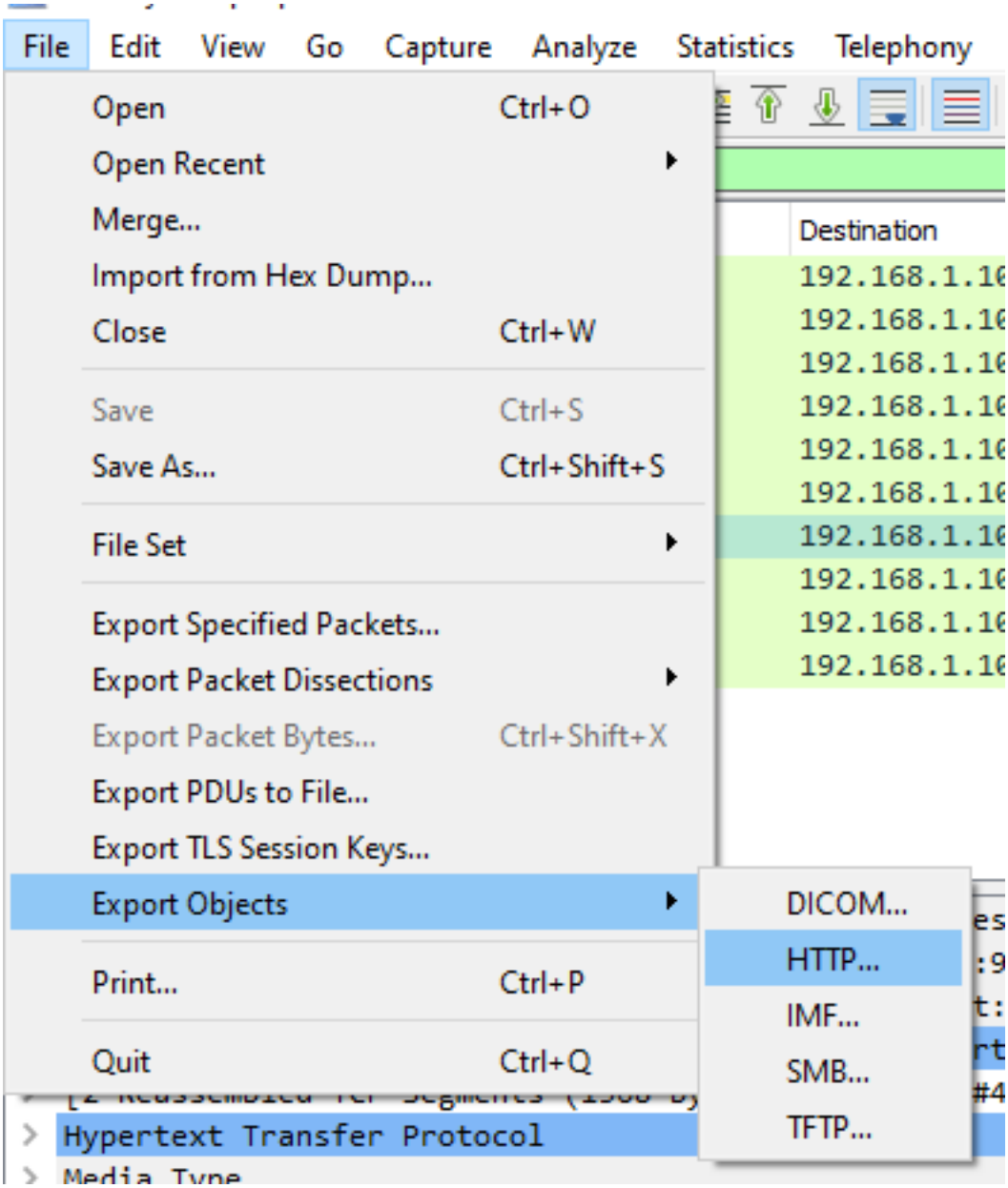
Question: What data was exfiltrated via DNS?
-Candy Cane Serial Number 8491

let's check the http protocol traffics & we've found a GET request on the christmaslists.zip file

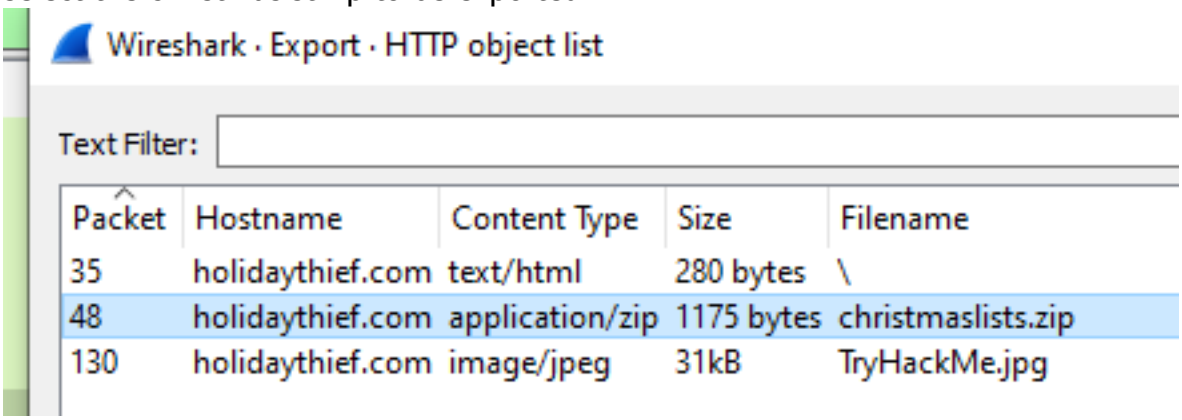


let's export the zip file and see the content

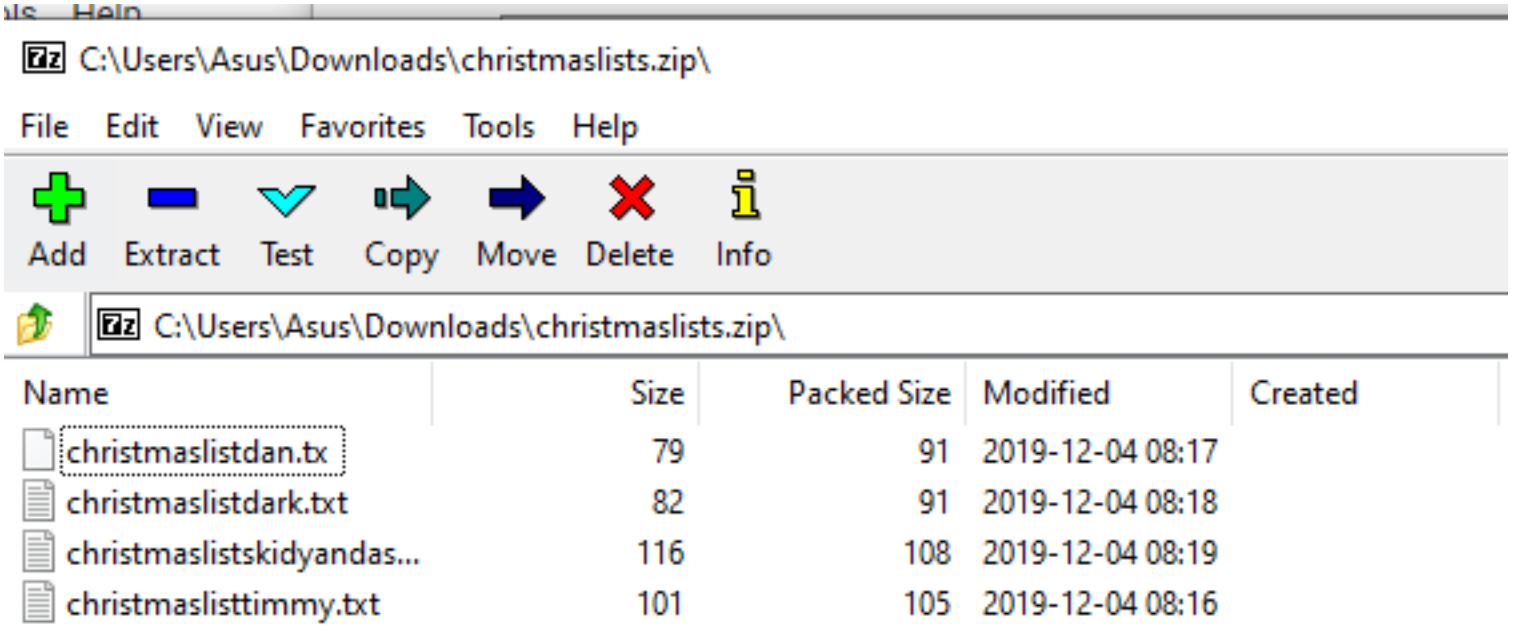
select export object -> HTTP



select the christmasist.zip to be exported

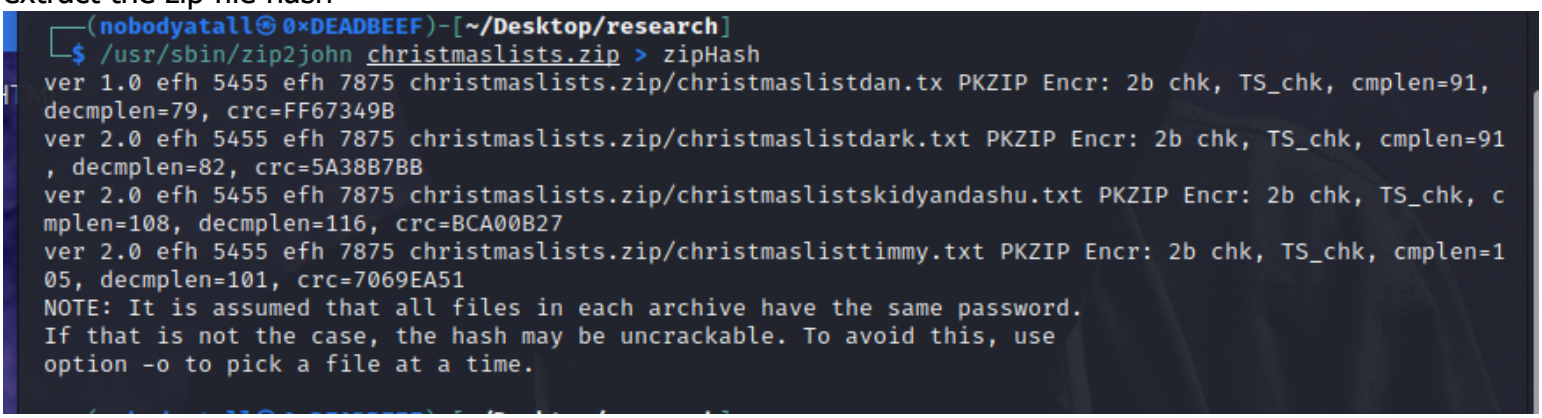


content of the zip file, now we want to find the item that timmy wanted for christmas

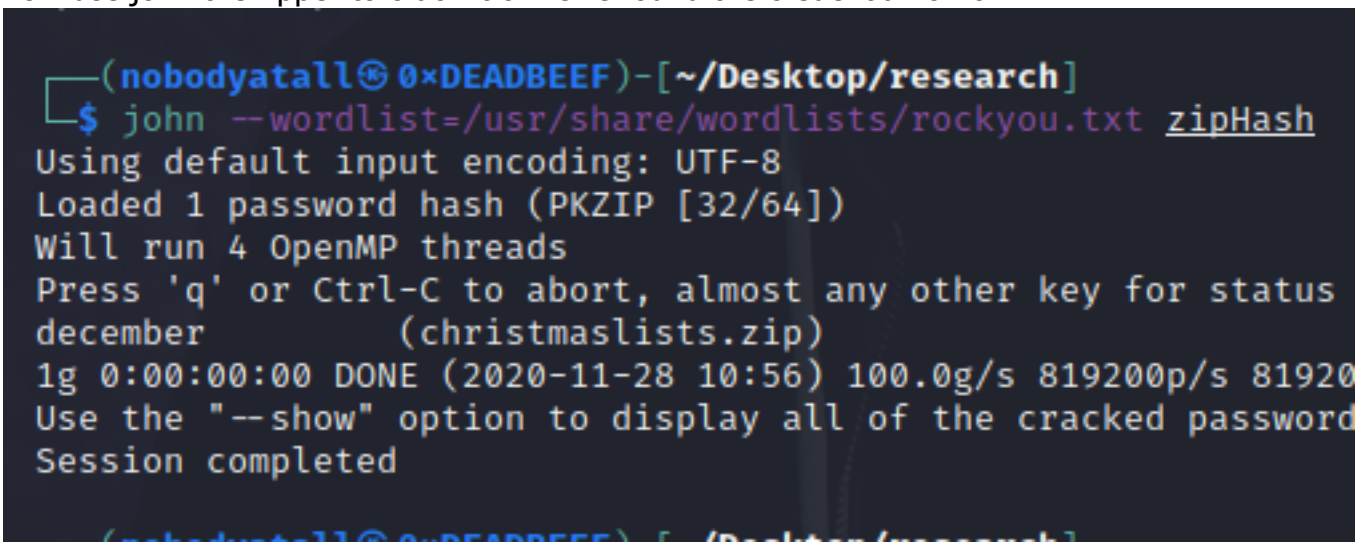


but it required credential to access the file, let's use john the ripper to crack it

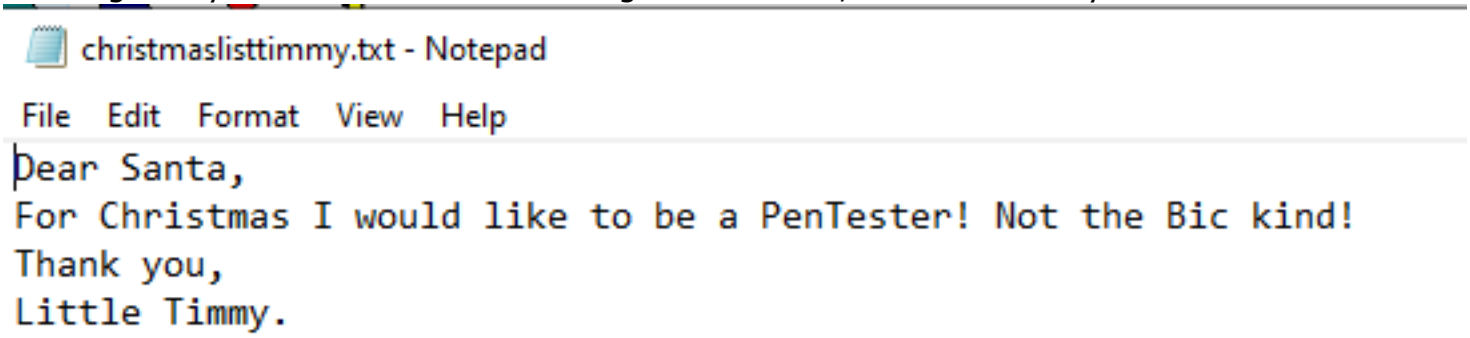
extract the zip file hash



now use john the ripper to crack it & we've found the credential for it



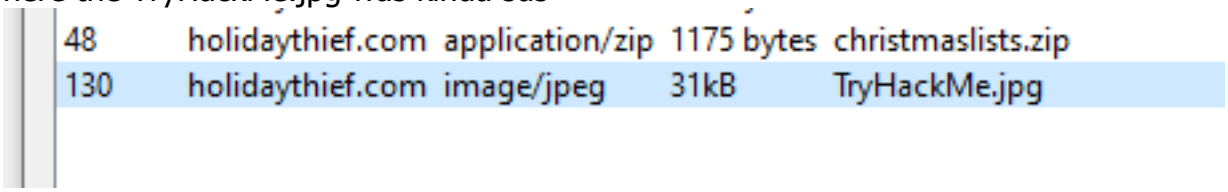
checking timmy christmas item wishlist using the credential, seems like timmy want to be PenTester uh



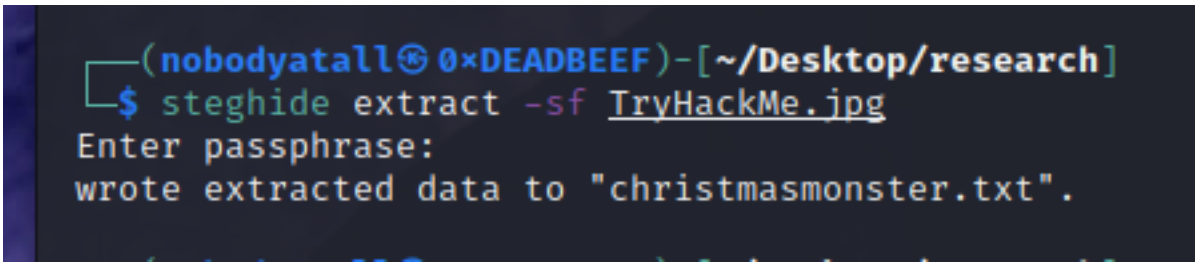
-PenTester

if we still remember that we can hide some files within an image file too using steganography technique

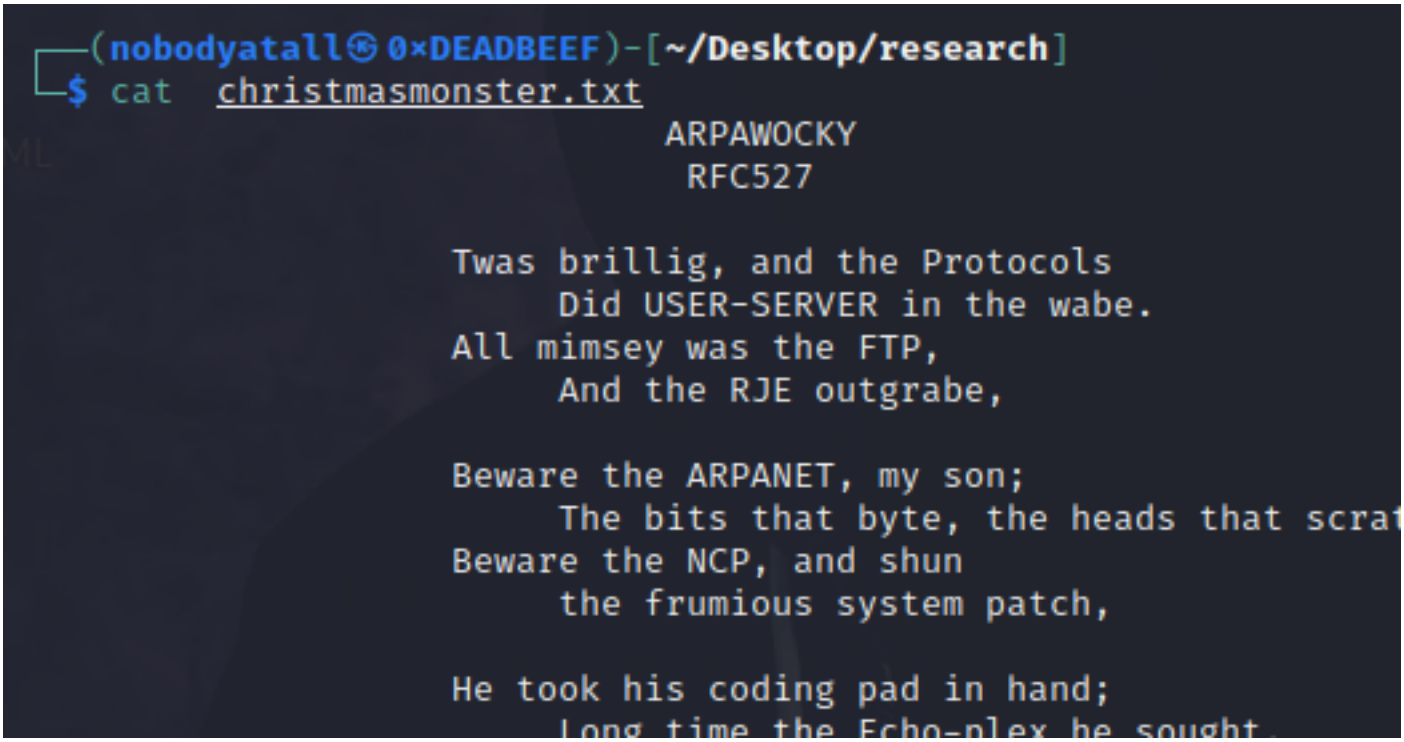
here the TryHackMe.jpg was kinda sus



let's use steghide to extract the content of the file without credentials & voila! we've extracted the christmasmonster.txt



the content of the text file



did some googleFu here & we found that the following text was belong to RFC 527

RFC Editor

RFC 527

ARPAWOCKY, MAY 1973

File formats:

Status:
UNKNOWN

Author:
R. Merryman

Stream:
[Legacy]

Cite this RFC: TXT | XML

DOI: 10.17487/RFC0527

Discuss this RFC: Send questions or comments to iesg@ietf.org

Other actions: Submit Errata | Find IPR Disclosures from the IETF

For the definition of Status, see RFC 7276

rfc-editor.org/rfc/rfc527.txt

Network Working Group R. Merryman (UCSD-C
Request for Comments: 527 6/22/

ARPAWOCKY

Twas brillig, and the Protocols
Did USER-SERVER in the wabe.
All mimsey was the FTP,
And the RJE outgrabe,

Beware the ARPANET, my son;
The bits that byte, the heads that scratch;
Beware the NCP, and shun
the frumious system patch,

He took his coding pad in hand;
Long time the Echo-plex he sought.
When his HOST-to-IMP began to limp
he stood a while in thought,

And while he stood, in uffish thought,
The ARPANET, with IMPish bent,
Sent packets through conditioned lines,
And checked them as they went,

One-two, one-two, and through and through
The IMP-to-IMP went ACK and NACK,
When the RFNM came, he said "I'm game",
And sent the answer back,

Then hast thou joined the ARPANET?
Oh come to me, my bankrupt boy!
Quick, call the NIC! Send RFCs!
He chortled in his joy.

Twas brillig, and the Protocols
Did USER-SERVER in the wabe.
All mimsey was the FTP,
And the RJE outgrabe.

D.L. COVILL
May 1973

Question: What was hidden within the file?
-RFC527