**Easy Level**

**1. Portal Hunt**

**Description:** Doctor Strange has hidden a portal button somewhere on the page. Can you find it?  
**Theme:** Doctor Strange

Hex code: 7B4D435F4354463A536F7263657265725F416C6C6F7765645F496E7D

**Flag:** {MC\_CTF:Sorcerer\_Supreme\_Approved}

**2. Stark Industries Login**

**Description:** Tony Stark has a secret suite for his closest allies. Can you find the login credentials?  
**Theme:** Iron Man  
user WarMachine68 and password: WARMACHINEROX   
<https://base64.guru/converter/encode/text> “ZTAxRFgwTlVSanBKY205dVgweGxaMkZqZVY5TllYSnJYMWhNU1VsOQ== ==” twice base 64

**Flag:** {MC\_CTF:Iron\_Legacy\_Mark\_XLII}

**3.** **Web of Lies**

**Description:** Spider-Man has been framed for a crime he didn’t commit. Can you decode the secret message proving his innocence?

**Flag:** {MC\_CTF:Great\_Power\_No\_Crime}

**4. Stark’s Encrypted Message**

**Description:** Tony Stark left a secret message, but it's encrypted. Can you figure out how to decrypt it?  
**Theme:** Iron Man

**Code:** 0101101001010100010000010111100001010010010001100110011101110111010101000110110001010110010100110110000101101110010000100100101101010111010001000100101000110100011001000110110101010010011101000101011001101101010110100110110001010110011110100110101101111000010101110100100001110000010011100110010000110000001100010100010101010001011010100110101100111101

Binary to text

Hex to text

Hex to text **Flag:** {MC\_CTF:I\_love\_you\_3000}

**5. Loki’s Illusion**

**Description:** The God of Mischief has hidden the flag not just visually, but also in the code. Can you outsmart Loki and find the real flag?

**Theme:** Loki First Movie

**Code:** e01DX0NURjpJbGx1c2lvbl9QZXJzaXN0c18yMDExfQ==

**Flag:** {MC\_CTF:Illusion\_Persists\_2011}

**6. Shield Frequency**

**Description:** S.H.I.E.L.D. sends messages using encrypted frequencies. Can you tune in?  
**Theme:** S.H.I.E.L.D. The Battle of the Triskelion

https://morsecode.world/international/translator.html

Morse: - .-. .. ... -.- . .-.. .. --- -. ..-. .- .-.. .-.. ..--- ----- .---- ....-

Hex: 7B4D435F4354463A4B4545505F4D4F5253455F434F44455F484552457D

**Flag:** {MC\_CTF:TriskelionFall2014}

**7. Wakandan Glyphs**

**Description:** Uncover the hidden messages within the ancient Wakandan glyphs. Passed down through generations, these encrypted scripts reveal the legacy, wisdom, and strength of the Black Panther lineage. Can you decode the messages left by the ancestors and unlock the secrets of Wakanda?

**Theme:** Black Panther   
**Flag:** {MC\_CTF:heartShapedHerb}

**8. Captain’s Hidden Note**

**Description:** During his final mission against the Red Skull, Captain America managed to send a last encrypted message to his love before crashing the plane into the icy waters. However, HYDRA intercepted the message and scrambled it. Your mission is to recover the original message and reveal Cap's final words.

*Can you decrypt the hidden note and unveil the truth?*

https://www.youtube.com/watch?v=BRHF2Qb-C9U  
**Theme:** Captain America  
<https://cryptii.com/pipes/caesar-cipher>

shift 3

<https://www.base64encode.org>

**Flag:** {MC\_CTF:AvengersAssemble}

**9. Deadpool’s Crazy Math**

**Description:** Deadpool was solving a math equation while eating a chimichanga, but he messed it up!  
Now, he needs your help to find the correct answer. However, he has encrypted his answer using a **special function**.

Can you reverse it and find the secret flag?

**Theme:** Deadpool

**Flag:** {MC\_CTF:Deadpool\_Chimichanga}

**10. Hulk’s Heart Rate Challenge**

**Description:** Bruce Banner’s heart rate must stay below 200 BPM. If it goes above 200, he transforms into the Hulk.  
**Theme:** The Hulk

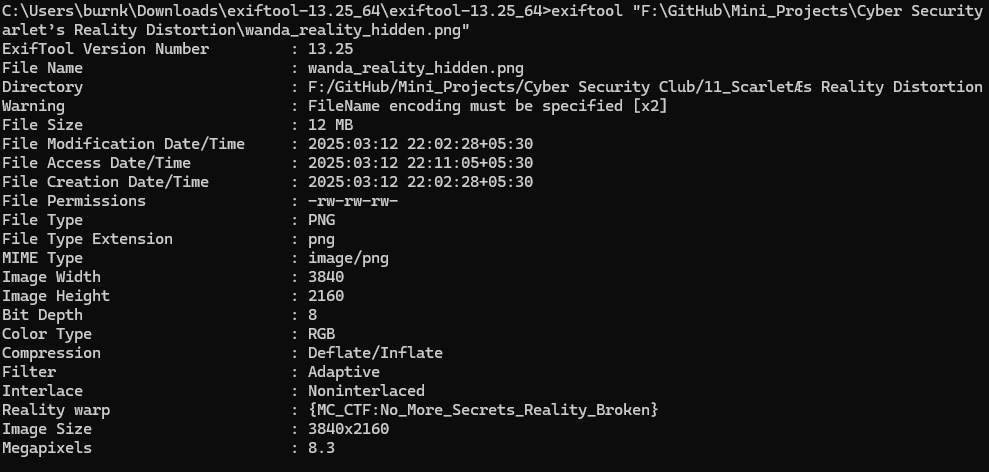
WlRBeFJGZ3dUbFZTYW5CSlpGZDRjbGd3WkdoaVZ6Rm9XREZLYUZwSGJHaGtSMngyWW00d1BRPT0=  
**Flag:** {MC\_CTF:Hulk\_Gamma\_Radiation}

**Medium-Level Challenges**

**1. Scarlet’s Reality Distortion**

**Description:** Wanda Maximoff has rewritten reality, hiding the flag inside a seemingly normal image. However, things are never as they seem… Can you extract the hidden message?

**Theme:** Wanda  
**Hint:** The flag is stored inside the image and can be extracted using steganography tools like exiftool, or strings.

https://exiftool.org  
  
**Flag:** {MC\_CTF:No\_More\_Secrets\_Reality\_Broken}

**2. Bullseye in the Shadows**

**Storyline:** Hawkeye always leaves subtle marks—only those with a keen eye can spot them. A hidden transmission intercepted from a SHIELD server contains a clue, but it's buried under layers of obfuscation. Can you uncover the truth?

**Description:** Wakanda’s security system has a locked password field. But can you bypass it?  
**Theme:** Hawkeye  
**Hints:** "Precision matters. Look at what repeats." & "Base64? No, think twice before decoding." % "EXIF isn't just for photographers."

**Solution Path:**

https://emn178.github.io/online-tools/base58/decode/

1. **First Layer - Log File:**
   * Inside hawkeye\_log.txt, one of the log entries contains a suspicious repeated pattern of characters (Base32 encoded). [NF2HGIDNN5ZGKIDUNBQW4IDQNF4GK3DTFQQFI4TZEBSV6X27ORXW63A=]
   * Decoding it reveals a message:

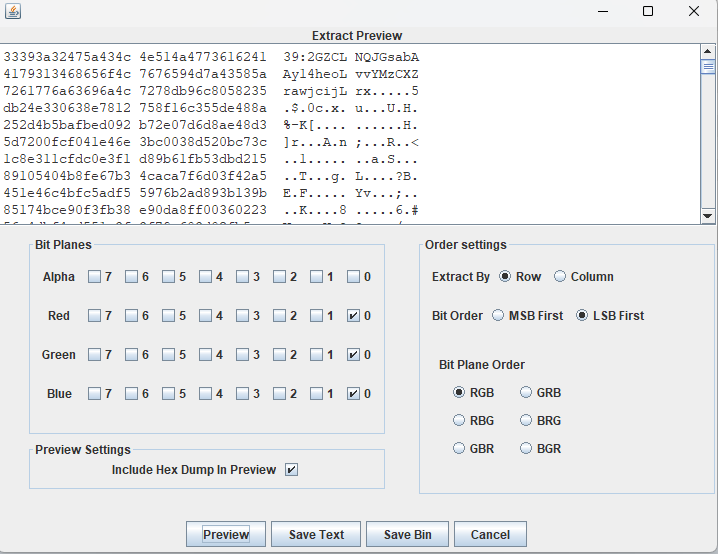
its more than pixels, Try e\_\_\_tool

1. **Second Layer - Image Analysis (trickshot.png) [Solve using exiftool]**
   * Running exiftool on trickshot.jpg reveals hidden metadata:

XMP-metadata: "Look deeper. LSB is your friend."



* + This suggests Least Significant Bit (LSB) steganography is used.

1. **Third Layer - Extracting LSB Data:**
   * Using an LSB extraction tool (e.g., stegsolve or zsteg), a hidden Base58 string is found inside the image.
   * <https://www.wechall.net/downloads/by/user_name/ASC/page-1>
   * Analyze > Data extract
   * 
   * Decoding the Base58 string.

**Flag:** {MC\_CTF:Never\_Miss\_A\_Secret}

**3. Thor’s Rune Cipher**

**Description:** Thor has left a **mysterious message** written in an ancient cipher. Can you translate it?  
**Theme:** Thor  
**Hint:** Odin has left a message inside an ancient image. Open 'hint.jpg' in a text editor like Notepad.

<https://openl.io/translate/old-norse> (For homepage text)  
**Flag:** {MC\_CTF:God\_of\_Lightning\_Not\_Hammers}

**4. Fury’s Vanishing Directive**

**Description:** Nick Fury sent a highly classified SHIELD directive, but someone tried to erase all traces of it. However, digital footprints are hard to completely wipe out. Can you recover the hidden directive?  
**Theme:** S.H.I.E.L.D.  
**Hint:** "*A document is more than what meets the eye*." & "Metadata holds secrets."

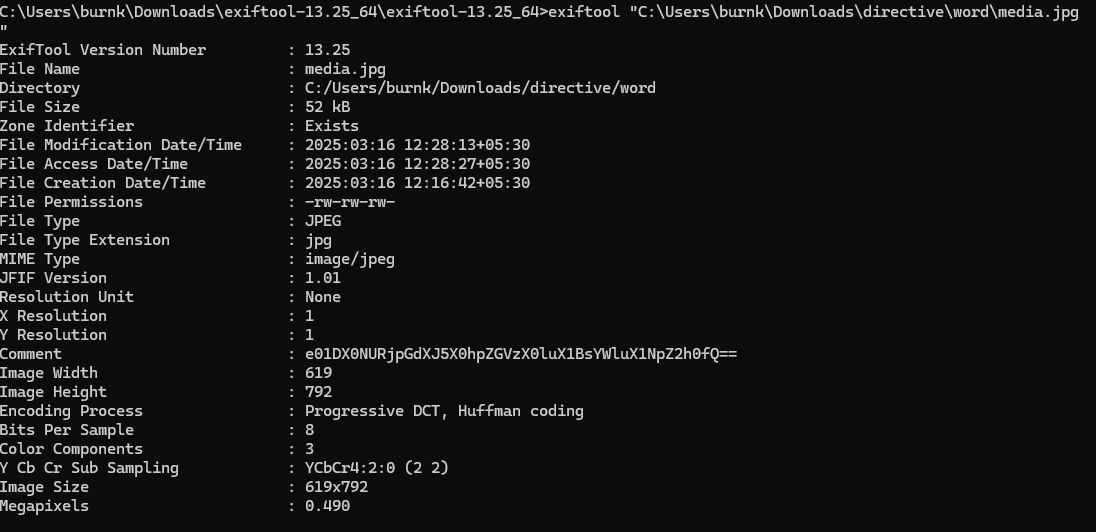
Password: LastTimeITrustedSomeoneILostAnEye

https://www.youtube.com/watch?v=OrKi8idPCSo

Solution path:   
1. First, we have to check for the comment or description in docx using direct properties or exiftool directive.docx. we get “V29yZCAuZG9jeCBmaWxlcyBhcmUgYWN0dWFsbHkgWklQIGFyY2hpdmVzIGNvbnRhaW5pbmcgWE1MIGRhdGEu” = “Word .docx files are actually ZIP archives containing XML data.”

2. Change the file extension of docx to .zip

3. Go to word and there is media.jpg ( its in comment we can find the flag)

  
**Flag:** {MC\_CTF:Fury\_Hides\_In\_Plain\_Sight}

**5. Ant-Man’s Micro Code**

**Description:** You are Scott Lang. Dr. Hank Pym has once again hidden a SHIELD directive inside Pym Technologies’ secure terminal. Only the right person can unlock it.

* Your task: Break into Pym Technologies' highly secured digital terminal and retrieve the hidden message.
* But there’s a catch—the system won’t unlock unless you enter the words that convinced Hank Pym to trust you.

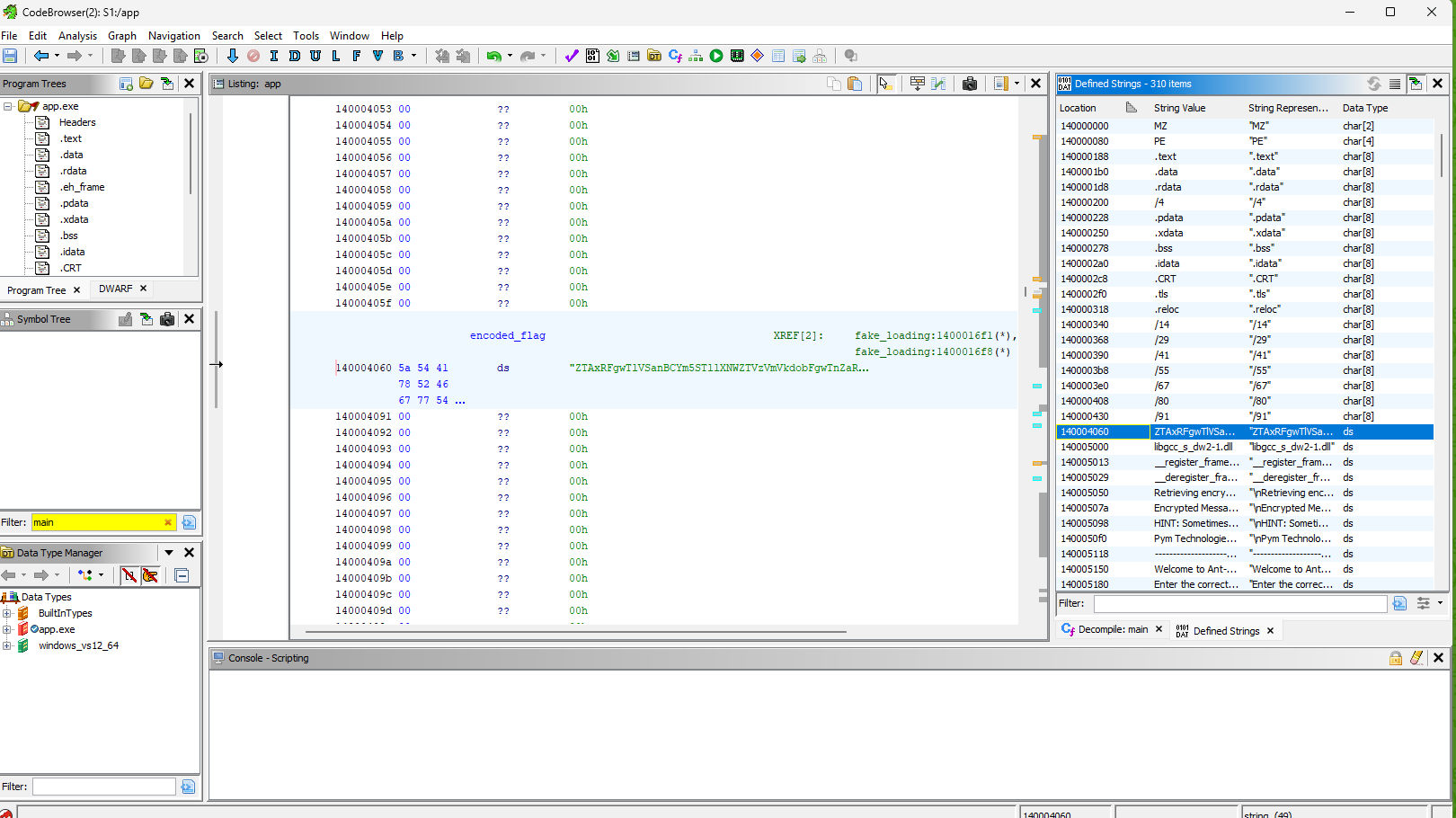
Will you remember the moment Hank believed in you? If you do, the system will grant access. But that’s only the beginning—the true message is still encoded. You’ll have to reverse the process twice to reveal the hidden SHIELD directive.

The fate of Pym Technologies is in your hands. Are you ready to prove you're the right hacker for the job?

**Theme:** Ant Man.

**Hint:**

* "Think like a hacker: When something looks unreadable, how do you decode it?"
* "Not everything is what it seems. Sometimes things need to be undone twice before they reveal the truth."
* "What did Hank Pym say to Scott Lang? That might be the key you need."



**Flag:** {MC\_CTF:AntMan\_In\_The\_Code}

**6. Cosmic Echo: Deciphering the Skrull Transmission**

**Description:** During her journey to uncover the truth about her past, Carol Danvers (Captain Marvel) receives an encrypted transmission from a mysterious source. The message is hidden within an old S.H.I.E.L.D. file, but before she can access it, she must decode an audio signal intercepted from space. Your mission is to help Carol unlock the encrypted message and reveal the flag!

* **Zip password:** MarieDanvers

**Solution Path:**

1. **Morse Code Audio File:**
   * The player receives an audio file (message\_signal.wav) containing Morse code.
   * When decoded, the Morse code reveals a password for the next step.
2. **Password-Protected ZIP File:**
   * Inside the challenge ZIP (cosmic\_message.zip), there's another audio file (encrypted\_transmission.wav).
   * The player needs to extract it using the password from the Morse code.
3. **Hidden Flag in the Audio:**
   * Player need to find the flag in wav. [using ffprobe [Free] or whatever they have]

Fake: - ffmpeg -i "C:\Users\burnk\Downloads\final.wav" -metadata comment="WVhKbElIVWdZU0JtYjI5c1B3PT0=" -codec copy final\_with\_flag.wav

VjIweE5HRkdjRFppTW1Sc1RVUkdSVmRFUWs5V1ZrcHhZMFZTYVUwd05UQlpWbVJQV214VmVWWnRjR3BpVmxsM1dYcEZOVlp0U25WWGJYaG9Wak5vYzFkclozZFFVVDA5

ffprobe -i final\_with\_flag8.wav [Answer]

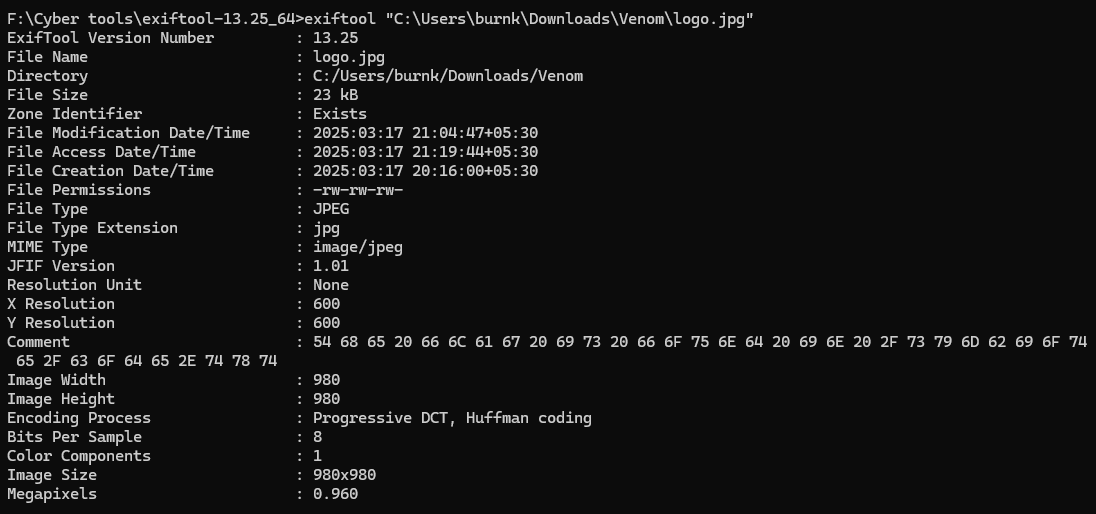
**Flag:** {MC\_CTF:Cosmic\_Secrets\_Unveiled}

**7. Symbiote Infiltration**

**Storyline Inspired by the Movie:**

In *Venom (2018)*, Carlton Drake’s Life Foundation conducts secret experiments on symbiotes, hiding their classified research deep within encrypted files. Investigative journalist Eddie Brock stumbles upon a mysterious file disguised as an image. Can you uncover the hidden secret before it's too late?

Zip password: V1RKb2Rsa3lPWE5aV0ZKcw== (Decoded: chocolate)



From image: 54 68 65 20 66 6C 61 67 20 69 73 20 66 6F 75 6E 64 20 69 6E 20 2F 73 79 6D 62 69 6F 74 65 2F 63 6F 64 65 2E 74 78 74 (Decoded The flag is found in /symbiote/code.txt)

**Flag :** {MC\_CTF:Dont\_Give\_Up\_On\_Her\_Either\_Of\_You}

**Hard Level**

**1.** **Weapon X – Unleashing the Truth**

**Storyline (Inspired by Wolverine's Origins)**

Deep within Alkali Lake, the Weapon X program conducted brutal experiments on Logan, erasing his past and turning him into a living weapon. Classified files documenting these atrocities have surfaced—hidden within layers of encryption and deception. Can you break through the barriers and uncover the truth?

Layer 1:

* You’ll receive an image.
* The password to access it is hidden in binary:  
  01101101 01110101 01110100 01100001 01101110 01110100
* (Hint: Convert it to text.)

Layer 2:

* Inside the image, there’s a phrase:  
  "So... This Is What It Feels Like."
* This phrase is the key to downloading the real encrypted files:
* A ZIP archive
* A compiled binary (a.out)

Layer 3: Your next task is to analyze a.out to find the password for the ZIP file.

Layer 4:

* Inside the extracted contents, you’ll find data.txt with 100 different flags.
* However, there’s a trick—some flags are misleading.
* One flag is linked to "lookflags" (a fake), while another under "layer\_2" contains all 100 flags.
* Find the real one!

Password 0: mutant

Password 1: Ws... Xlmw Mw Alex Mx Jiipw Pmoi (steghide embed -cf hide1.jpg -ef clue.txt -p "mutant") [View: steghide extract -sf hide1.jpg -p "mutant"] [In linux]

Password 2: zip -> snowshoe\_hares

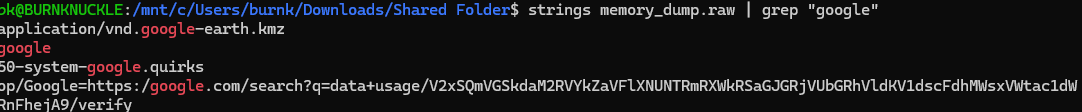
**Flag:** {MC\_CTF:Adamantium\_Unbreakable\_But\_You\_Aren't}

**2. Falcons Test**

**Storyline:** After Steve Rogers’ retirement, a secret test was embedded inside Captain America's shield for the next worthy successor. Sam Wilson's shield contains encrypted data that must be extracted.

<https://google.com/search?q=data+usage/V2xSQmVGSkdaM2RVYkZaVFlXNUNTRmRXWkRSaGJGRjVUbGRhVldKV1dscFdhMWsxVWtac1dWRnFhejA9/verify>

flag : V2xSQmVGSkdaM2RVYkZaVFlXNUNTRmRXWkRSaGJGRjVUbGRhVldKV1dscFdhMWsxVWtac1dWRnFhejA9

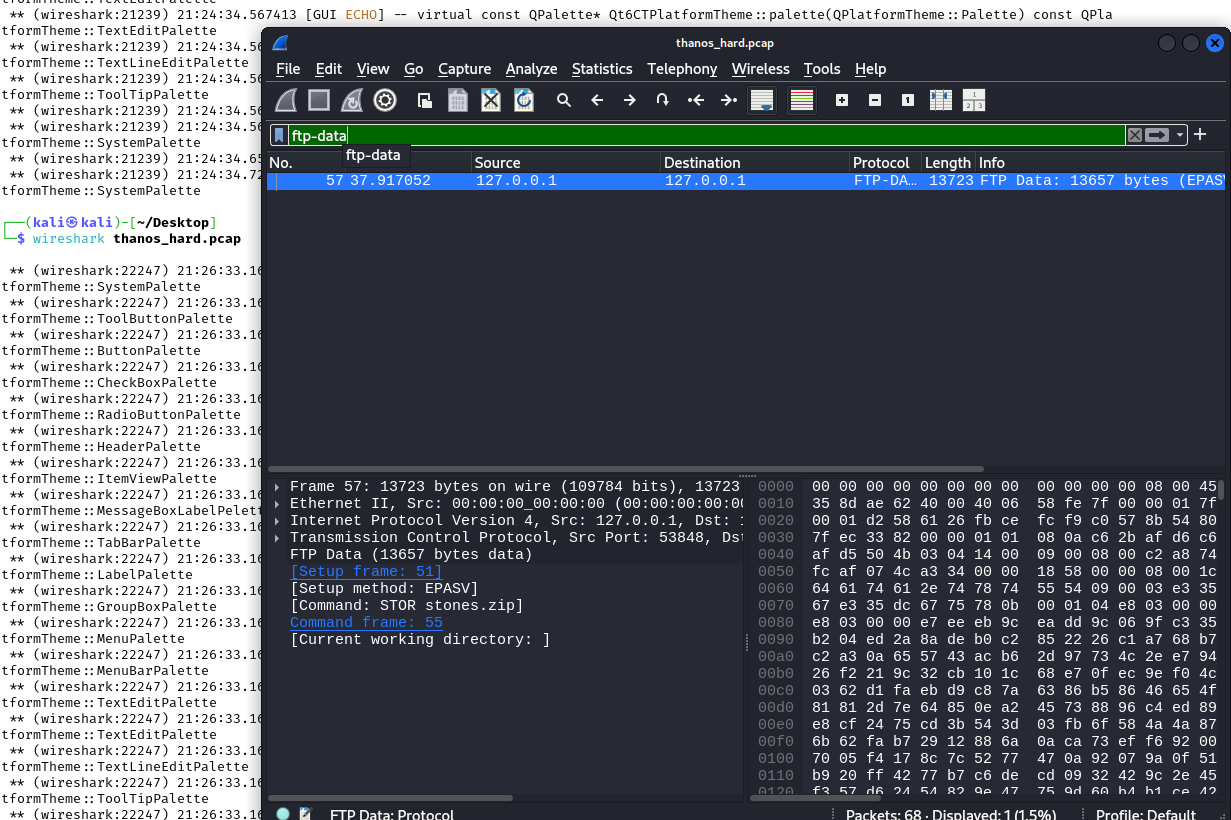
****

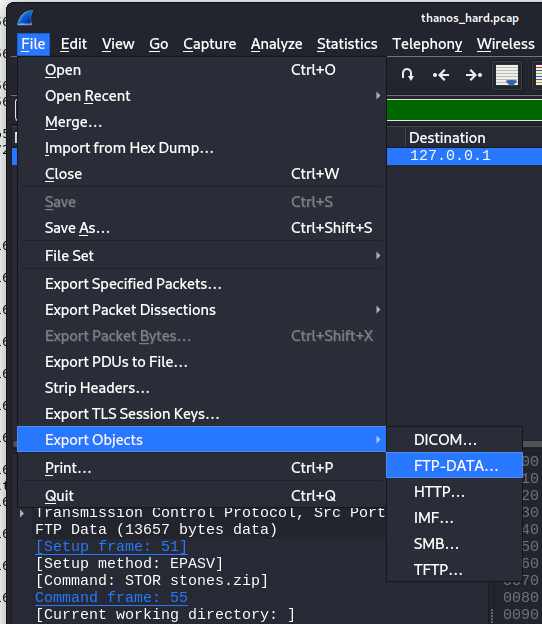
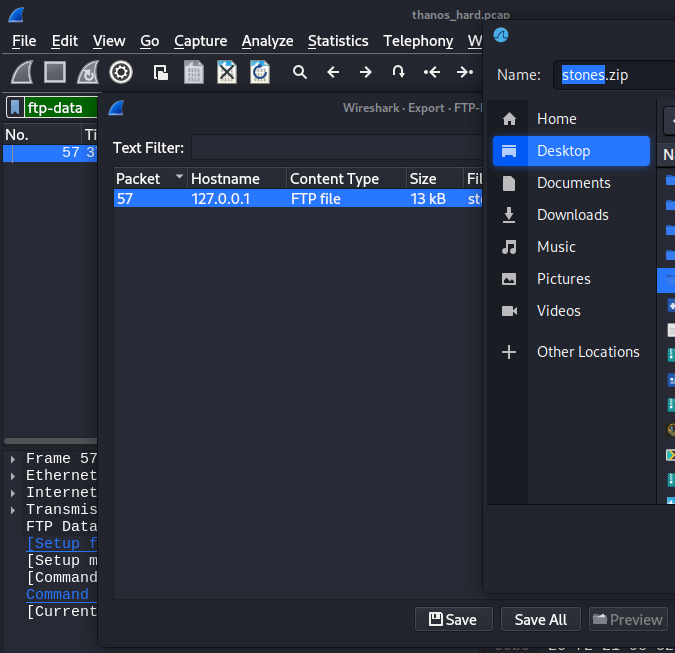
**Flag:** {MC\_CTF:FalcOn\_NeXT\_Cap}

**3.** **Thanos’ Final Transmission**

**Storyline:** As the Avengers attempt to track Thanos’ movements, they intercept a suspicious network transmission. The data, extracted from a compromised FTP server, contains encrypted logs and hidden messages. Somewhere in this captured traffic lies a critical piece of intelligence—a message from Thanos himself, possibly revealing his next move.

Can you uncover the unencrypted string and decipher the Mad Titan’s final transmission before it's too late?

****

** **

**ZIP :**

**AES (SHA 256) :** 53616c7465645f5fd47ab2cd715ae47b848b879c20cfb9f1e4d1f4fecad60c02ae66a4000e38c682414dd7ea7bc7d35e (Given in styles.css)

* DataManagerToFindIt

**Flag =>** VmpKNFUxRnRWa2RUYTJSaFRUSlNWbGxyV21GV1JteFlUbFZPVkUxV2NFbGFSVnByVmpBeFZrNVdhRmRXTTFKTVZsY3hSbVZ0UmtaYVJtaFRVbFp3VVZaclVrZFNNVmw0VW01U1dHSkdjRlJXYlhoM1ZsWmFXRTFVUWxkTlZYQklWakowYTFWR1dsWk9WazVYWWtkb2RsVlVSbUZUUjFKR1QxWk9hVlp1UWxSV1ZWcFNaREZDVWxCVU1EMD0=

**Flag:** {MC\_CTF:INEVITABLE\_SNAP\_PERFECT\_BALANCE}