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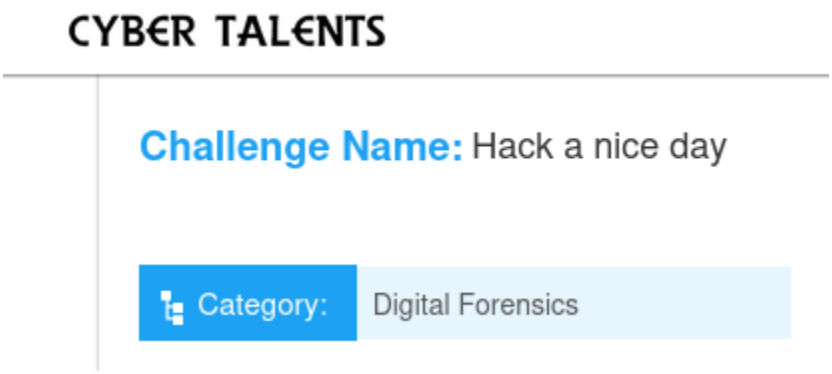


Challenge Description

Unlock the hidden secrets!. Note: Flag format flag{XXXXXXX}.

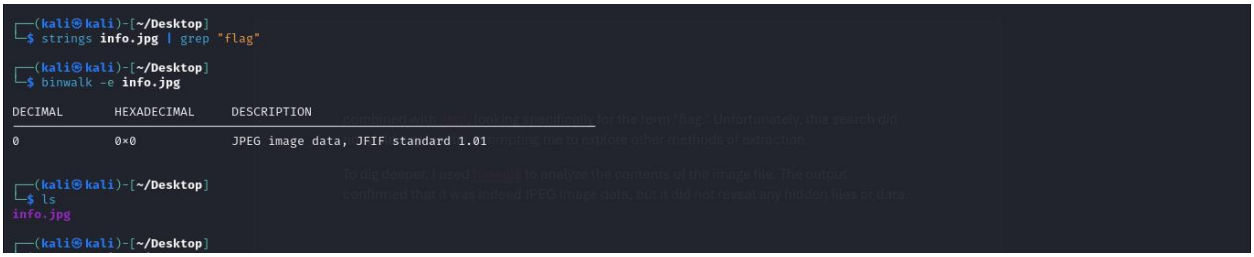
Solution

I began my task by downloading an image file named info.jpg from a specified URL using the wget command line tool. After the download, I wanted to confirm that the file was present on my Desktop, so I used the ls command to list the files in the directory. The output confirmed that info.jpg was indeed there.

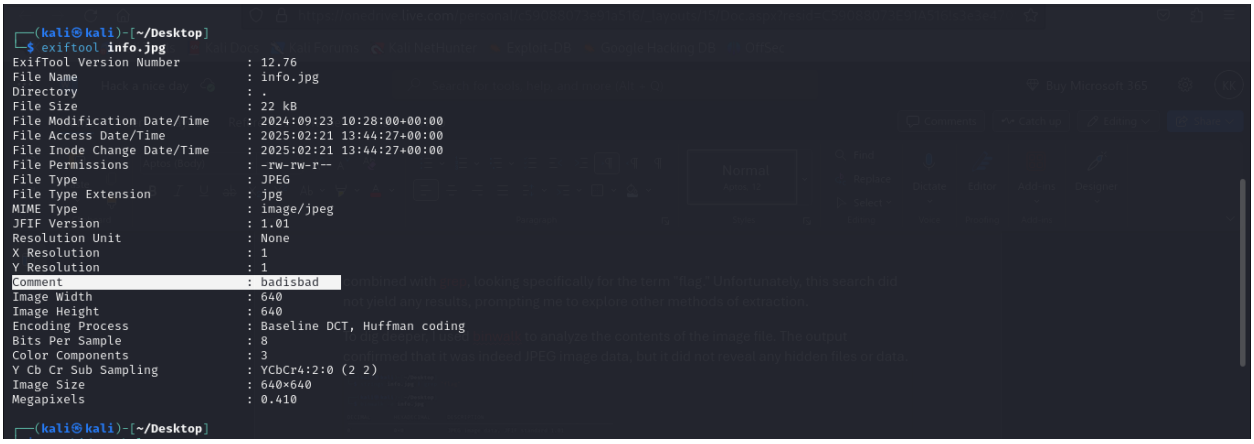
Next, I checked the file type of info.jpg using the file command. The output revealed that it was a JPEG image, providing additional details such as its resolution, aspect ratio, and an interesting comment: "badisbad." This comment caught my attention as it could potentially be relevant for further analysis.

I then attempted to search for any flags within the image using the strings command combined with grep, looking specifically for the term "flag." Unfortunately, this search did not yield any results, prompting me to explore other methods of extraction.

To dig deeper, I used binwalk to analyze the contents of the image file. The output confirmed that it was indeed JPEG image data, but it did not reveal any hidden files or data.



Next, I decided to extract metadata from the image using exiftool. The output provided various details about the file, including its size, modification date, and the previously noted comment "badisbad." This comment seemed significant.



Curious about the possibility of hidden data within the image, I turned to steghide, a tool designed for embedding and extracting data from image files. I first checked the help documentation for steghide to understand the commands available for extraction.

I then proceeded to extract any hidden data from info.jpg using steghide. I ran the command ” steghide extract -sf info.jpg ” When prompted, I entered the passphrase "badisbad," which I had discovered in the metadata.

The extraction was successful, and I received confirmation that the data had been written to a file named flaggg.txt. After the extraction, I listed the files in the directory again and confirmed that flaggg.txt was now present alongside info.jpg. I opened flaggg.txt to view its contents, and to my excitement, I found the flag: flag{Stegn0_1s_n!ce}.