

राईकवाCTF

CHALLENGE NAME : WHISPERING WINGS

DEV : ANANYA BISHT

CATEGORY : MISCELLANEOUS

LEVEL : EASY



2025

Question Description:

Some things aren't meant to be seen, but rather uncovered. A hidden message lies in the depths, waiting to be revealed layer by layer. A Message also hides in plain sight, waiting for the right key to set them free. In the gardens of Beaufort, where butterflies rest upon the hand, something waits just beyond view .

Given-->

An image named "Wings_of_SKY" will be given

Solution:

Step 1:

After reading the question title and description well, you will realize the few given hints-

1. Checking the Exif/Meta data of image because of the text (aren't meant to be seen, but rather uncovered).
2. Waiting to be revealed layer by layer ---- Multiple decoding.
3. Some message is hidden plain sight (In image).
- 4.Waiting for the right key, Gardens of "Beaufort" ---- Key is hidden somewhere and the string will have to be decoded form Beaufort cipher

Step 2:

The player either checks the image thoroughly or checks meta data first.

Upon the meta data extraction, in the user comment we have –

METADATA READING FOR THE FILE: Wings_of_SKY.png

IDENTIFIED BY THE FOLLOWING MD5 HASH: defa7d58d8a229ecdea178674dbfa6f2

FILE	
File Name	Wings_of_SKY.png
File Size	88 kB
File Modify Date	2025/02/02 13:50:57
File Access Date	2025/02/02 13:50:57
File Inode Change Date	2025/02/02 13:50:57
File Permissions	-rw-r--r--
File Type	PNG
File Type Extension	png
MIME Type	image/png
Exif Byte Order	Little-endian (Intel, II)

PNG	
Image Width	223
Image Height	267
Bit Depth	8
Color Type	RGB with Alpha
Compression	Deflate/Inflate
Filter	Adaptive
Interlace	Noninterlaced
sRGB Rendering	Perceptual
Gamma	2.2
Pixels Per Unit X	3780
Pixels Per Unit Y	3780
Pixel Units	meters

EXIF	
User Comment	UXd4YmhvTkFae1FmMFklM19pIWNDJF9tS3UzQDFwQiF9

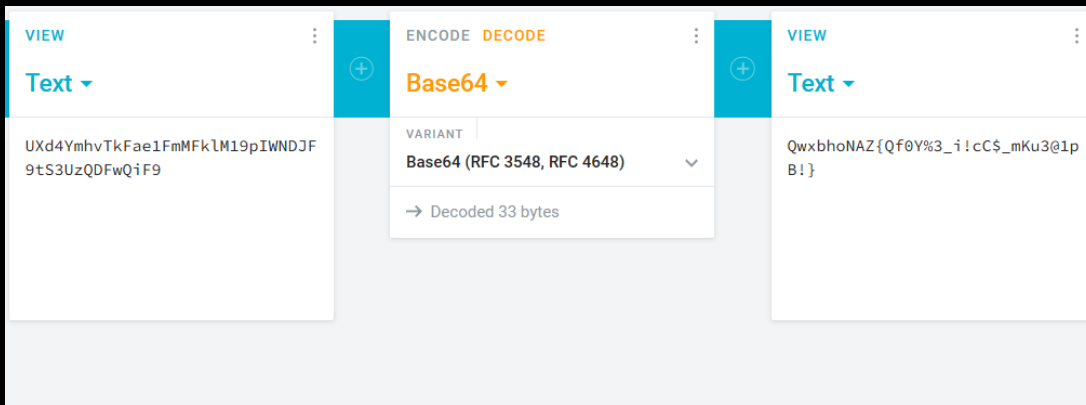
<https://www.thexifer.net/>

String is -

UXd4YmhvTkFae1FmMFklM19pIW
NDJF9tS3UzQDFwQiF9

Step 3:

Finding the string, now we try to decode it, as seasoned players instinctively we go to the BASE64 decoding via trial and error



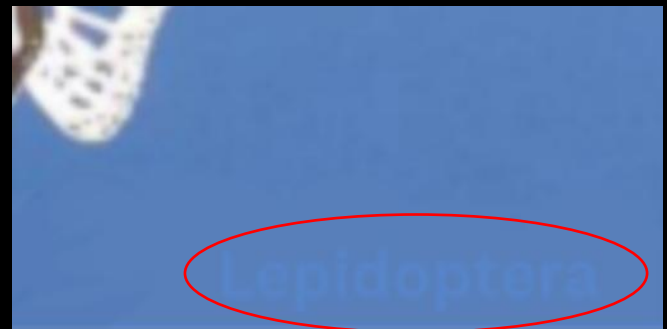
<https://cryptii.com/>

String is -
QwxbhoNAZ{Qf0Y%
3_i!cC\$_mKu3@1p
B!}

Step 4:

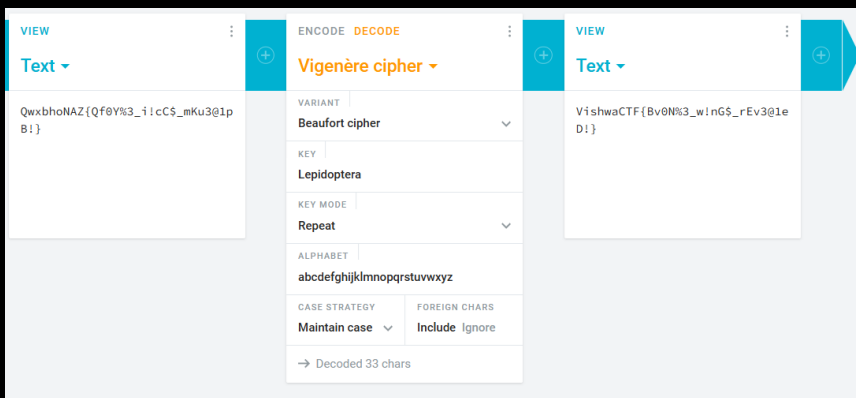
Coming closer to solving, now we see the flag formation, and only a cipher away, we know we have to use the Beaufort cipher, but it needs a key....

From Step 1.3 we observe the image closely and find the “hidden word”, at the top left corner, inverted, which is Lepidoptera (Scientific name of butterflies)



Step 5:

Now we have the “Key” and the string and we know we have to use the Beaufort cipher.



Hence flag =
VishwaCTF{Bv0N%3_w!nG\$_rEv3@1eD!}

Enter this flag on the platform and get your points!