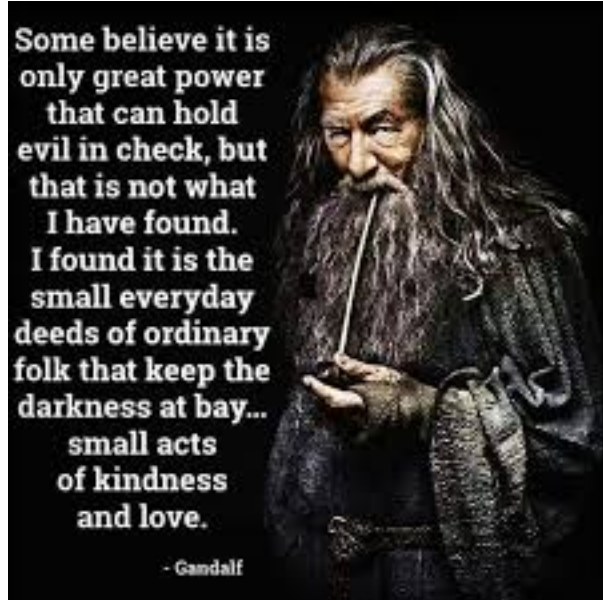


GandalfTheWise

GandalfTheWise

Extract the flag from the Gandalf.jpg file. You may need to write a quick script to solve this.
Gandalf.jpg



Flag: **CTFlearn{Gandalf.BilboBaggins}**

Writeup:

tried strings, got 3 strings:
so i converted text to bytes

taj702@kali: ~/Downloads\$ strings -n 10 Gandalf.jpg

+Q1RGbGVhcm57eG9yX2lzX3lvdXJfZnJpZW5kfQo=

+xD6kfO2UrE5SnLQ6WgESK4kvD/Y/rDJPXNU45k/p

+h2riElj13iAp29VUPmB+TadtZppdw3AuO7JRiDyU

== CTFlearn{xor_is_your_friend} ## HINT

A screenshot of a web-based Base64 decoder tool. The 'Text' input field contains the string 'x0GkFO2UrE5SnLQ6WgESK4kvD/Y/rDJPXNU45k/p'. The 'Base64' dropdown is selected, and the 'Decoded 30 bytes' output is shown in the 'Bytes' panel. The decoded bytes are displayed in hexadecimal format: c4 3e a4 7c ed 94 ac 4e 52 9c b4 3a 5a 01 12 2b 89 2f 0f f6 3f ac 32 4f 5c d5 38 e6 4f e9.

c4 3e a4 7c ed 94 ac 4e 52 9c b4 3a 5a 01 12 2b 89 2f 0f f6 3f ac 32 4f 5c d5 38 e6 4f e9

A screenshot of a web-based Base64 decoder tool. The 'Text' input field contains the string 'h2riElj13iAp29VUPmB+TadtZppdw3AuO7JRiDyU'. The 'Base64' dropdown is selected, and the 'Decoded 30 bytes' output is shown in the 'Bytes' panel. The decoded bytes are displayed in hexadecimal format: 87 6a e2 18 88 f5 de 28 20 db d5 54 3e 68 7e 4d a7 6d 66 9a 5d c3 78 2a 3b b2 51 88 3c 94.

87 6a e2 10 88 f5 de 20 29 db d5 54 3e 60 7e 4d a7 6d 66 9a 5d c3 70 2e 3b b2 51 88 3c 94

then I XORed the byte strings

I. Input: hexadecimal (base 16)

c43ea47ced94ac4e529cb43a5a01122b892f
0ff63fac324f5cd538e64fe9

II. Input: hexadecimal (base 16)

876ae21088f5de2029dbd5543e607e4da76d
669a5dc3702e3bb251883c94

Calculate XOR

III. Output: hexadecimal (base 16)

4354466c6561726e7b47616e64616c662e426
96c626f42616767696e737d

Warning:
Hexadecimal variable was not valid base 16. Updated input value may differ from what you provided.

4354466c6561726e7b47616e64616c662e42696c626f42616767696e737d

Then change bytes back into text to get flag

VIEW Bytes

FORMAT: Hexadecimal GROUP BY: Byte

4354466c6561726e7b47616e64616c662e42696c626f42616767696e737d

VIEW Text

CTFlearn{Gandalf.BilboBaggins}

CTFlearn{Gandalf.BilboBaggins}