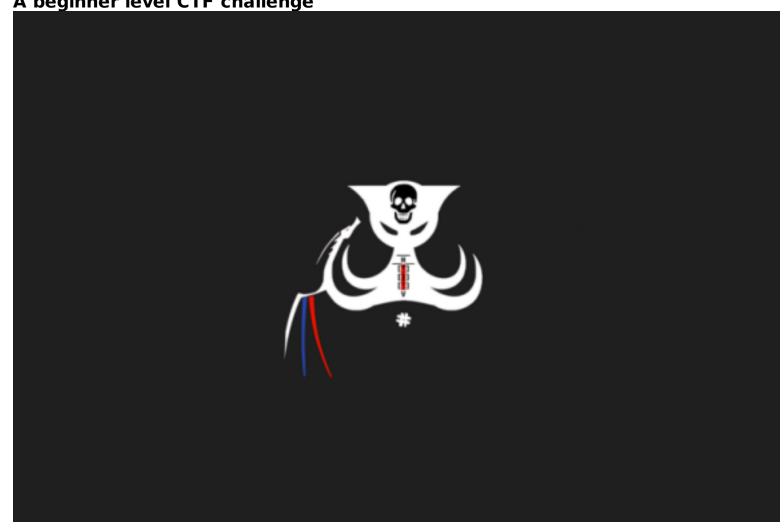
#### c4ptur3-th3-fl4g

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A beginner level CTF challenge



# [Task 1] Translation & Shifting

Translate, shift and decode the following; Answers are all case sensitive.

[#1] c4n y0u c4p7u23 7h3 f149?

can you capture the flag?

[#2] 01101100 01100101 01110100 01110011 00100000 01110100 01110010 01111001 00100000 01110011 01101111 01101101 01100101 00100000 01100010 01101001 

lets try some binary out!

[#3] MJQXGZJTGIQGS4ZAON2XAZLSEBRW63LNN5XCA2LOEBBVIRRHOM======

base32 is super common in CTF's

[#4] RWFjaCBCYXNINjQgZGlnaXQgcmVwcmVzZW50cyBleGFjdGx5IDYgYml0cyBvZiBkYXRhLg==

Each Base64 digit represents exactly 6 bits of data.

[#5] 68 65 78 61 64 65 63 69 6d 61 6c 20 6f 72 20 62 61 73 65 31 36 3f

hexadecimal or base16?

[#6] Ebgngr zr 13 cynprf!

Rotate me 13 places!

[#7] \*@F DA:? >6 C:89E C@F?5 323J C:89E C@F?5 Wcf E:>6DX

You spin me right round baby right round (47 times)

[#8] - . .-.. . -.-. --- -- ..- -. .. -,-. .- - .. --- -.. -. -.- -.. .. -. -. ..

telecommunication encoding

[#9] 85 110 112 97 99 107 32 116 104 105 115 32 66 67 68

Unpack this BCD

[#10]

LS0tLS0gLi0tLS0gLi0tLS0gLS0tLS0gLS0tLS0gLi0tLS0gLi0tLS0gLS0tLS0gLS0tLS0gLi0tLS0gLi0tLS0gLi0tLS0gLS0tLS0gLS0tLS0gLi0t

Let's make this a bit trickier...

#### [Task 2] Hashes

A hash function is any function that can be used to map data of arbitrary size onto data of a fixed size. The values returned by a hash function are called hash values, hashcodes, digests, or simply hashes.

Crack the following hashes to reveal the answers. Hashcat bruteforce is probably the easiest way to complete this

challenge, or try CyberChef and md5hasing.net if you want to go easy-mode.

Reference this website for known hash types

[#1] 39d4a2ba07e44421c9bedd54dc4e1182

MDwhat?

[#2] e0418e7c6c2f630c71b2acabbcf8a2fb

digest the message algorithm

[#3] efbd448a935421a54dda43da43a701e1

128-bit of delicous hash values

[#4] 11FE61CE0639AC2A1E815D62D7DEEC53

Microsoft has encryption?

[#5]

a361f05487b879f25cc4d7d7fae3c7442e7849ed15c94010b389faafaf8763f0dd022e52364027283d55dcb10974b09e7937f90

1024 bit blocks!

[#6] d48a2f790f7294a4ecbac10b99a1a4271cdc67fff7246a314297f2bca2aaa71f

Commonly used in Blockchain

[#7] a34e50c78f67d3ec5d0479cde1406c6f82ff6cd0

The OG

## [Task 3] Spectrograms

A spectrogram is a visual representation of the spectrum of frequencies of a signal as it varies with time. When applied to an audio signal, spectrograms are sometimes called sonographs, voiceprints, or voicegrams. When the data is represented in a 3D plot they may be called waterfalls.

[#1] Download the file

Super Secret Message

# [Task 4] Steganography

Steganography is the practice of concealing a file, message, image, or video within another file, message, image, or video.

[#1] Decode the image to reveal the answer.

SpaghettiSteg

### [Task 5] Security through obscurity

Security through obscurity is the reliance in security engineering on the secrecy of the design or implementation as the main method of providing security for a system or component of a system.

[#1] Download and get 'inside' the file. What is the first filename & extension?

hackerchat.png

[#2] Get inside the archive and inspect the file carefully. Find the hidden text.

AHH\_YOU\_FOUND\_ME!