



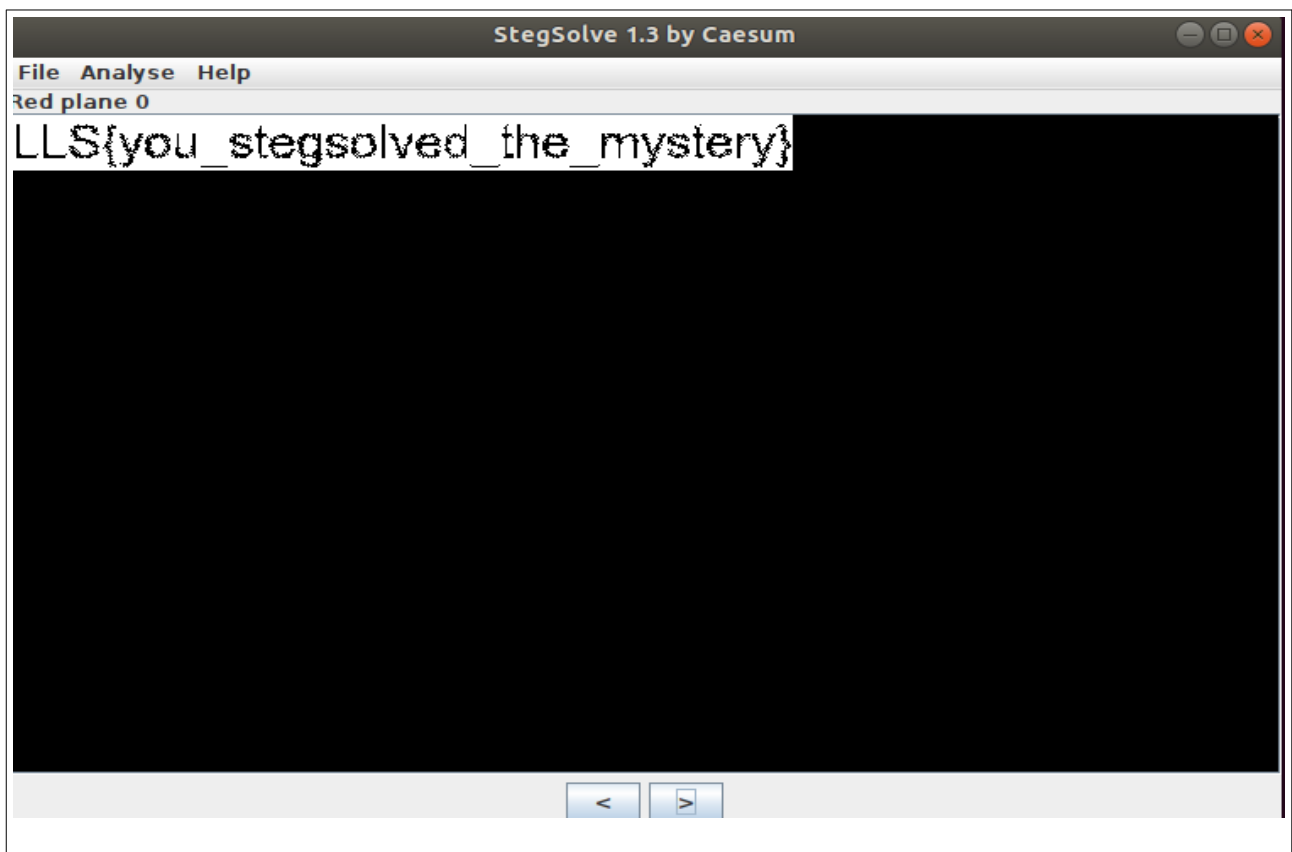
## STEGNOGRAPHY

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1 - Stegosaurus

solution :

it is an image. Did strings and moreon it. Finally used stegsolve tool to get the flag.



## 2 - Winter Wonderland

solution :

used stegsnow to get flag.

```
masscan@masscan-Inspiron-3521:~/ctf/viruscon-steg$ stegsnow winter_wonderland.txt
LLS{let_it_snow_baby_let_it_reindeer}masscan@masscan-Inspiron-3521:~/ctf/viruscon-steg$
```

## 3 – White Pages

solution :

Download the file and do a xxd on it and u can see some bytes are duplicated like e28083 and i replace this with 0 and 20 are with 1 and i got a binary data

```
masscan@masscan-Inspiron-3521:~/ctf/viruscon-steg$ xxd whitepages.txt | cut -d":" -f2 | tr -d " " | xargs | tr -d " " | sed 's/e28083/0/g' | sed 's/20/1/g' | sed 's/.[0-9]*/&/g'
00001010 01000011 01100001 01110000 01110100 01110101 01110010 01100101 00100000 01110100 01101000 01100101 00100000 01000110 01101100 01100001 011001
11 00100000 00001010 00001010 01010011 01000101 01000101 00100000 01010000 01010101 01000010 01001100 01001001 01000011 00100000 01010010 01000101 010
00011 01001111 01010010 01000100 01010011 00100000 00100110 00100000 01000010 01000001 01000011 01001011 01000111 01010010 01001111 01010101 01001110
01000100 00100000 01010010 01000101 01010000 01001111 01010010 01010100 00001010 01010100 01101000 01101001 01110011 00100000 01101001 01110011 001000
00 01100001 01101110 00100000 01100101 01101110 01110100 01110010 01111001 00100000 01101001 01101110 00100000 01110100 01101000 01100101 00100000 010
10111 01101000 01101001 01110100 01100101 01010000 01100001 01100111 01100101 01110011 00100000 01100010 01101111 01101111 01101011 01101100 01100101
01110100 00001010 00001010 01001100 01001100 01010011 01111011 01110111 01101000 01101001 01110100 01100101 01110011 01110000 01100001 01100011 011001
01 01011111 01110011 01110100 01100101 01100111 01100001 01101110 01101111 01100111 01110010 01100001 01110000 01101000 01111001 01011111 01101001 011
01110 01011111 01110100 01101000 01100101 01011111 01100101 01101101 01110000 01110100 01111001 01011111 01110011 01110000 01100001 01100011 01100101
01111101
masscan@masscan-Inspiron-3521:~/ctf/viruscon-steg$
```

Decoding this binary will give you the flag  
LLS{whitespace\_steganography\_in\_the\_empty\_space}

## 4 - Elessbe

solution :

download the file and use the tool zteg to get the flag

```
masscan@masscan-Inspiron-3521:~/Downloads$ zsteg elessbe.png
imagedata          .. text: "',(EBCCCB$!"
b1,bgr,lsb,xy      .. text: "LLS{lsb_est_mon_bon_ami}"
b2,r,lsb,xy        .. file: 5View capture file
b2,r,msb,xy        .. file: VISX image file
b2,g,lsb,xy        .. file: 5View capture file
b2,g,msb,xy        .. file: VISX image file
b2,b,lsb,xy        .. file: 5View capture file
b2,b,msb,xy        .. file: VISX image file
b2,rgb,lsb,xy      .. file: 5View capture file
b2,rgb,msb,xy      .. file: VISX image file
b2,bgr,lsb,xy      .. file: 5View capture file
b2,bgr,msb,xy      .. file: VISX image file
b4,r,msb,xy        .. text: ["w" repeated 9 times]
b4,g,msb,xy        .. text: ["w" repeated 12 times]
b4,b,msb,xy        .. text: ["w" repeated 10 times]
b4,rgb,msb,xy      .. text: ["w" repeated 28 times]
b4,bgr,msb,xy      .. text: ["w" repeated 29 times]
masscan@masscan-Inspiron-3521:~/Downloads$
```

LLS{lsb\_est\_mon\_bon\_ami}