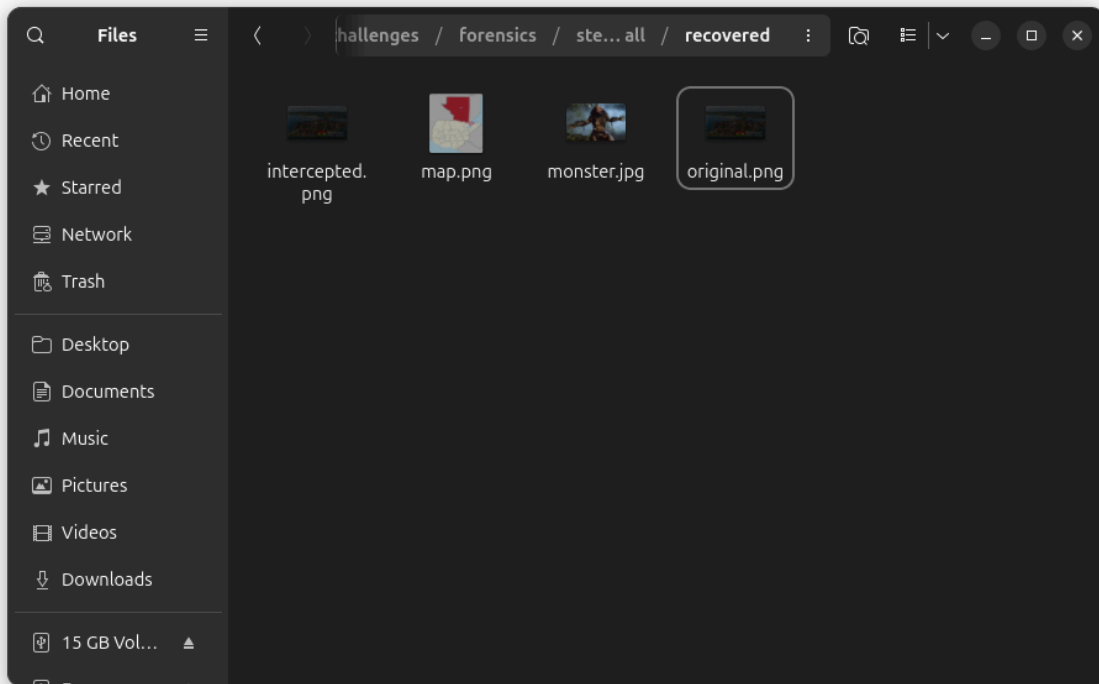# Tricky Communications

Description: Some images were intercepted in communication between potential bad actors. Figure out what they were talking about. Flag is a btc address.
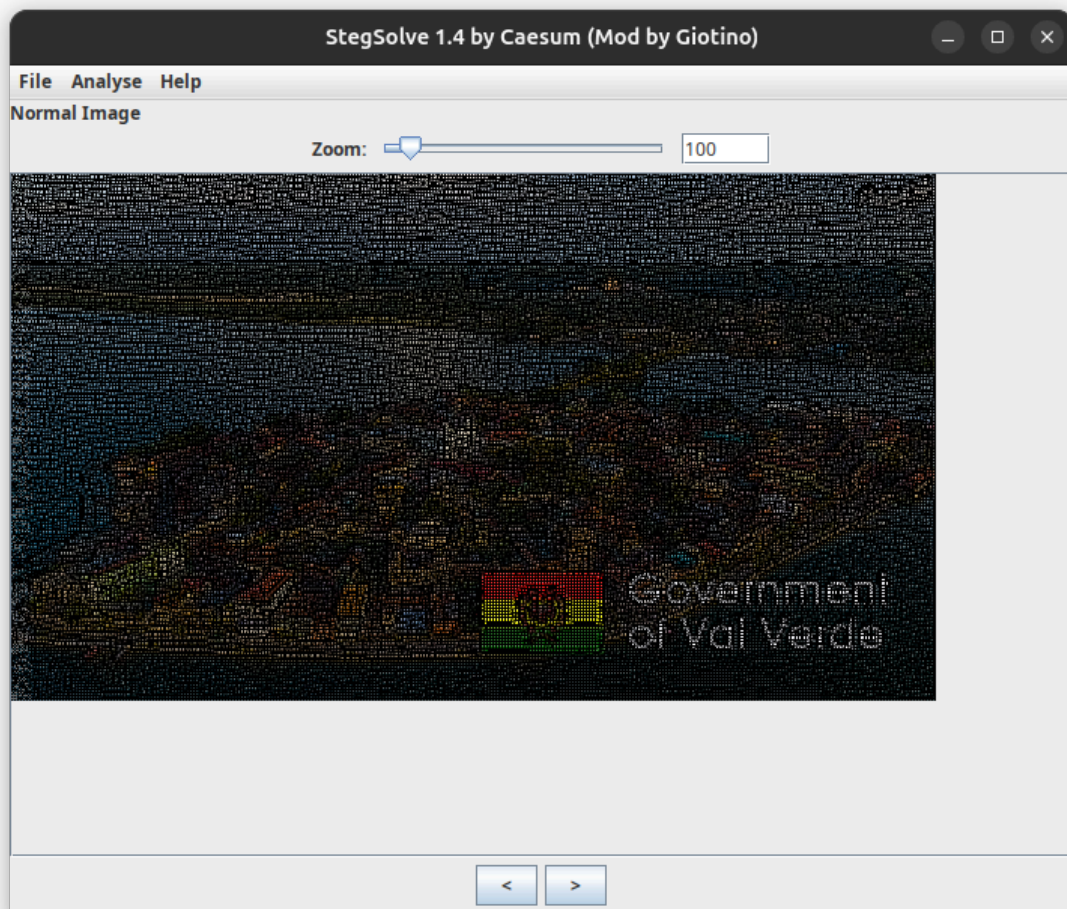
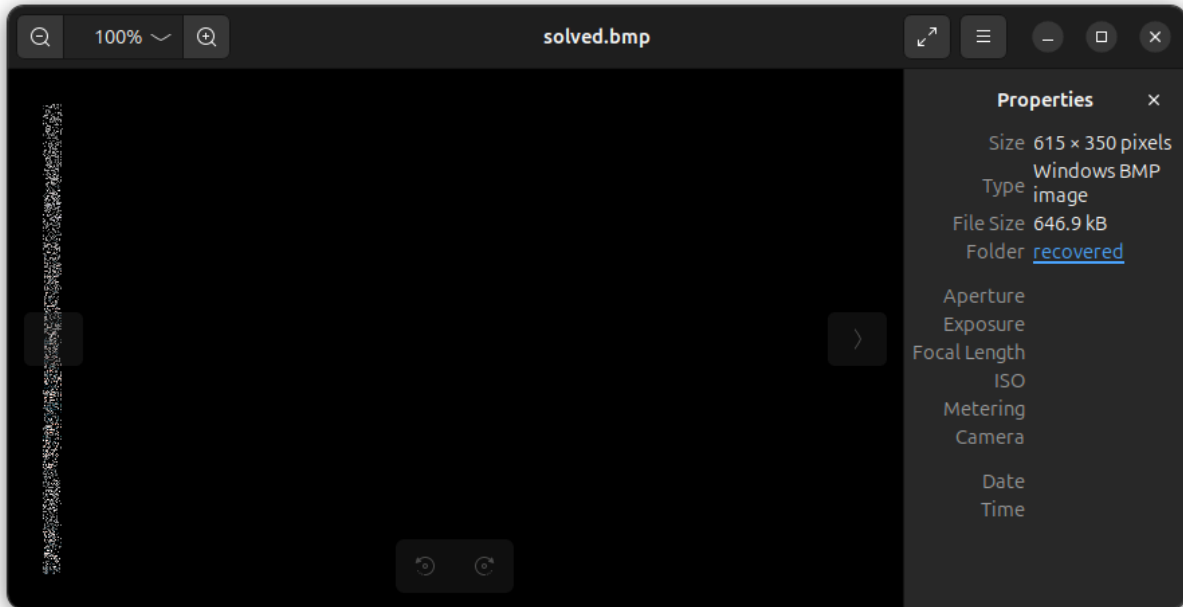Artifact: recovered.zip

Decompress archive:

There are two images: intercepted.png and original.png that are the same image but have different noise on the left.

Use stegsolve:

Use the Image Combiner tool, with the SUB option.

We can see there is some noise on the side.
Write a script to convert it to 1s and 0s

```python
from PIL import Image

img_orig = Image.open("solved.bmp")
rgb_im = img_orig.convert('RGB')



width = 615
height = 350

pix = img_orig.load()
output = ""
for j in range(width):
    for i in range(height):
        bin = pix[j,i]
        if str(bin) == "(0, 0, 0)":
            output += "0"
        else:
            output += "1"

print(output)
```

```
crazy@es-base:~/Desktop/PCAP-Generator$ python3 steg_solve.py
0101000001001011000000110000010000010100000000000000100000000000000010000000000000010010110
0011010011010010101100100000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000001110000000000100000000000000011000010110001101110101100 1
0111001110100011110000111010001110101011110000000101100000000000000010000010011101000000 00
0011000000000000000000010011101000000000110000000000000001010101010100000011010000 0
0000000011110000111111101101100101111011001111000011111111011100101111011001111000011111110
1100101111011001111010110101010110110110110110001101110000110011000000001100010110111100010
1010111010010000000101011011001000000001111101111011100001101111000000011011010001111111
0110011110010001110001100100111001000100100100011001001001111011101110000100001110000011
1010110010010110100101100100010010010010110111010011000011111111101000011100011110111110101111
0101111001011101111101001111101100011100011000100111011011111111000111111110001101100110 10
11000101101100011011000100010110000100100110001001100011100011011111110100100110100000 110
111110010000000000010110011110010111101001110011011100110111111101111000111110010000000000111 10
0011000001011100100111000010111101000000000111011000011001111101000000111000100000111011000 0
00111111100110010111110000101111101101011101111011111101010010111011010000001001100110011 11
0010011100000001000100100110101010000010001101101101001010111111001011110000000010111011 0
1100011100011010101011010101011100010001100101001111111010110100000010010011000011100110 110
1001000001001101011110001000001110001001100010001100110001011101011000010110100100001 0 1
00011001001000000011101101100110001101001001010111011001101010101111110010100011101011 00
0001100100110000001001101100110011011111010100101000100001101100011110011110010010101 0 1
01111110011111111000001011000001001110000100110111001000110010000010010010010000010001011
0111110111111011001010011111001001100111001011110111110111111000100011111101110000 0
010001011011111111110101000110011010101011110110001010000001011000101100000010101011000011
100110110100110100011011111111100100111001011110001110001101110100000000110000011110100 0
0110001110110100010111110010011011000101110000101110110000010000110010110100010100000100 00
0001011010010100011010010100000010010011101101110110110000001001011010100100100101100101 1
111010101000111010011101011111101000001000001001001000011101010100000110101101000110111010
01101111011001001100110110001101111001010011001000000101001100010001110101001011011010 00
00000101010101011011100111111111001100010010010100110110010010010010001001110101101101101 1
0110001010100100101101000001000110001011100010010010101011010011101010000110001011010101010
```

Find the correct number of trailing null-bytes, and then download to get a zip file.
The Input Length should be 4952.
Extract the archive.

```
crazy@es-base:~/Downloads/download$ ls
ack.txt
```

```
crazy@es-base:~/Downloads/download$ cat ack.txt
nak? Nak? Nananananak Nananak Naknak Nak. Nanananak nak? Naknak Nananak Nak? Nanan
anak Naknaknak Naknaknak Nak? nanak nak? Nanananak Naknak nak. nak? Naknaknaknak
 Nanananak Nanak nak? Naknak. nak? Naknaknak Naknak Nak. Naknaknak Nanak nak? Na
knak. nak? Nanananak Nak? Nananak Naknaknak Naknak Naknak Nanak Nak? Nak. Naknak
 naknaknak Naknak Naknaknak Naknak Nanak nak? Naknaknak Naknaknak Nak. Naknaknak
 Nanananak Naknak Nak? nak? Nanananak Nak? Nananak Nanananak Nak Naknak Nanak Na
k? Naknaknak Naknaknak Nak? Naknak Nanananak Nak? Naknak. Nak? Naknaknak Nakn
ak naknak Naknaknak Nanananak nak? Naknak. nak? Naknaknak nak? Nananak Naknaknak
 Nanananak Naknak Nananak Nak? Nak. nak? nak? Naknak Naknaknak Naknak nak? Nakna
k nak! Nanananak Naknak. Nanananak Nananak nak? Naknak. Nanananak Nananak Naknak
nak Nak. Naknaknak Naknaknaknak Nak? Naknak. Nak? Naknaknak Naknak Nak. Nananana
k Nanak Naknak Nanak Naknaknak Naknak. Nak? Nananak Naknaknak Nak nak? Naknak. N
aknak nak! Naknaknak Nak Naknaknak Naknak. Naknak Nananak Nak? Naknaknak Nak? na
k? Naknaknak Nanananak Nak? Naknak. Nak? Naknaknak Naknak Nak. Nanananak Nanak N
aknak Nanak Naknaknak Naknak. Nak? Nananak Naknak nanak Naknak Nanananak Nak? Nana
nanak Nak? Nananak Naknak nanak Naknak Nanananak Nak? Nak. Nak? nak. Naknaknak N
aknaknaknak Nak? Naknak. Nak? Nak. Naknak Nak? Nanananak nak? Naknak Nak? Naknak
 nak! Naknaknak Nak Naknaknak Nanananak Naknak Nananak Nak? Naknaknak Naknaknak
Nanananak Naknak Naknaknak nak? Naknaknaknak Nak? Nak. Nak? Nananak Naknak Nak.
Naknak Nananak Naknaknak Naknak. Nak? Nananak Nanananak Naknak Naknak Nanak Nak?
 Nak. nak? Naknak Naknaknak Nananak Naknak Nanak Naknak nak! Naknak Nak. Nananan
ak Naknak nak? Naknak. nak? Nak. Nak? nak. Naknaknak Nanananak Nak? naknak Nakna
k Naknaknak Naknaknak Nak nak? Nak. Naknak Nanak Nak? Naknaknak nak? Naknaknakna
```

Use dcode.fr cipher identifier:

Use Nak Nak tool:

NAK NAK (DUCKSPEAK)

Cryptography › Substitution Cipher › Nak Nak (Duckspeak)

NAK NAK DECODER

NAK NAK CIPHERTEXT (?)

nak? Nak? Nanananak Nananak Naknak Nak. Nanananak nak?
Naknak Nananak Nak? Nanananak Naknaknak Naknaknak Nak?
nanak nak? Nanananak Naknak nak. nak? Naknaknaknak
Nanananak Nanak nak? Naknak. nak? Naknaknak Naknak Nak.
Naknaknak Nanak nak? Naknak. nak? Nanananak Nak? Nananak

RESULTS FORMAT ● STRING OF PRINTABLE CHARACTERS (ASCII/UNICODE)
○ HEXADECIMAL 00-7F-FF
○ FILE TO DOWNLOAD

▶ DECRYPT

See also: ASCII Code

NAK NAK ENCODER

NAK NAK PLAINTEXT (?)

T2h5bCwKSnZ1YWhqYSBvaHogaWxsdSB0aGtsIGlsYWRsbHUgem92Y2xzIGh
1ayBpYmpybGEsIGh1ayBkbCBkcHNzIHd5dmpsbGsgZHBhbyB6aHVramh6YX
NsLgpXaGZ0bHVhIGRwc3MgaWwgemx1YSBhdiA4Nm9PRWFQSXhWaDhtem1tY

Results

T2h5bCwKSnZ1YWhqYSBvaHogaWxsdSB0aGtsIGlsYWRsb
HUgem92Y2xzIGh1ayBpYmpybGEsIGh1ayBkbCBkcHNzIH
d5dmpsbGsgZHBhbyB6aHVramh6YXNsLgpXaGZ0bHVhIGR
wc3MgaWwgemx1YSBhdiA4Nm9PRWFQSXhWaDhtem1tYnJ1
RUd1cHpQMGVZcVp4bnpSCkhkaHBhIGl1eWFvbHkgcHV6Y
XliamFwdnV6LgpMaG5zbA

Nak Nak (Duckspeak) - dCode

Tag(s) : Substitution Cipher

Share

Use cyberchef to finish decoding:

Done.