

Write-up – Crypto 100 – Sam Sepiol's pizzas

POSTED ON [JANUARY 11, 2017](#) BY [WISERIX](#)

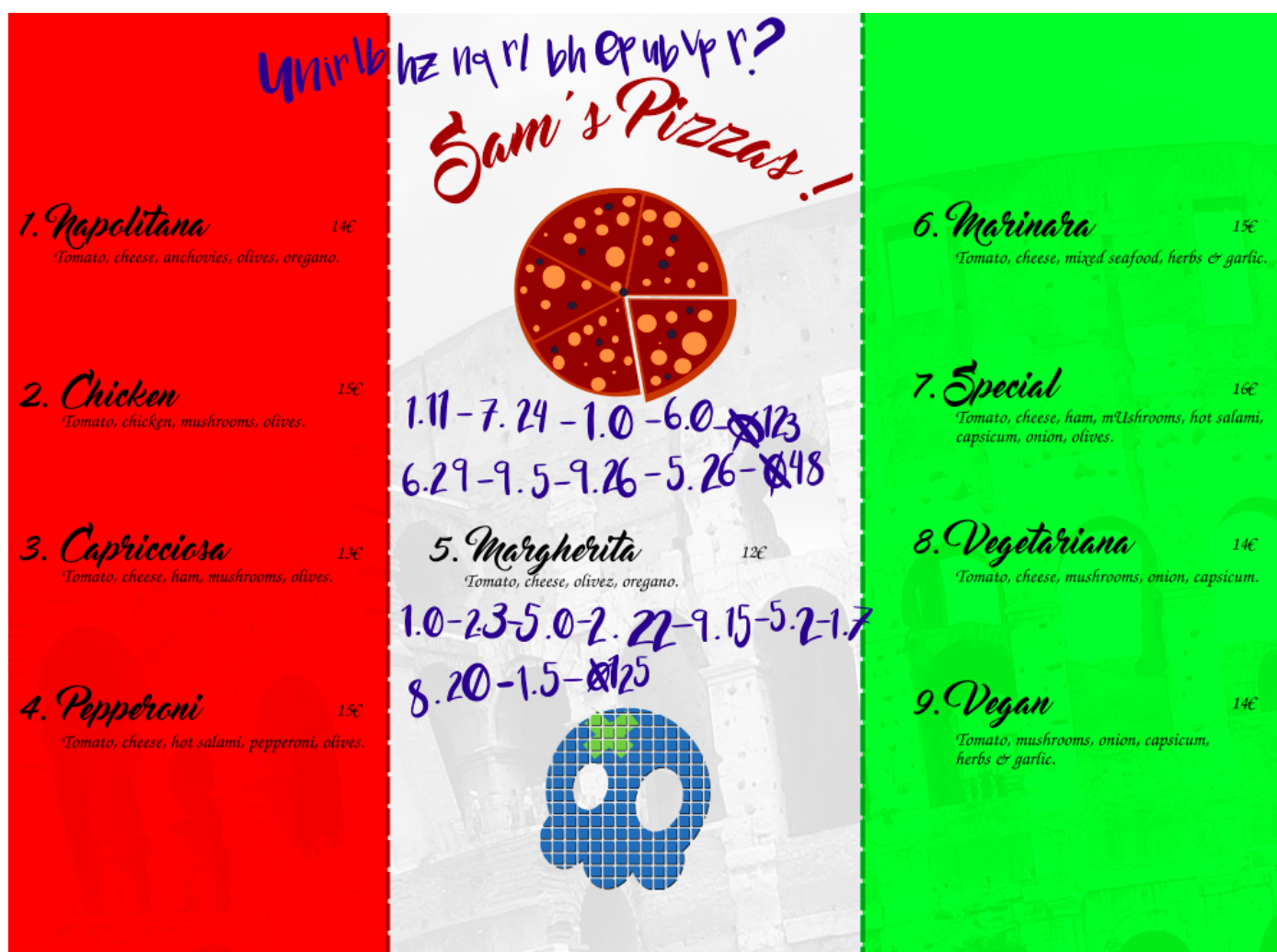
Points: 100

Author: dok

Description: How much do you love pizza ?

Remarks : "there are some guessing..."

During **GreHack 2016**, crypto challenge **Sam Sepiol's Pizzas** was based on the following image:



We can see different things within this menu:

- Theme is Italy, with a background of a coliseum.
- Available Pizzas are various with indices (9), prices and description.
- There is multiple handwritten elements with a blue marker.

From this point, we can try to understand the following question:

“unirlbhznqrlbhepubvpr?”

After several tries, we found that the following string was encoded using ROT13.

Knowing that, reversing it was easy, but it only lead us to the following translation:

“haveyoumadeyourchoice?”

That's not a big improvement that seems to lead to any solution...

After that, we looked into the different numbers written down in blue:

1.11-7.24-1.0-6.0-Ø123

6.29-9.5-9.26-5.26-Ø48

1.0-2.3-5.0-2.22-9.15-5.2-1.7

8.20-1.5-Ø125

What we guessed:

- Ø123 and Ø125 codes are ASCII equivalent of { and } characters, Ø48 is 0
- First numbers of each separated values seems to be a reference pizzas indices
- Second numbers of each separated values seems to be a reference to a character position

From this, we found a weird translation with non-sense:

TU16{fncv01i5uhatel}

We then tried to apply ROT13 on it (first part was a clue !) and finally found the final flag !

GH16{sapi01v5hungry}

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Lots of guessing actually...

This kind of challenges drives me nuts after 2am
haha

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