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November 17, 2020

Cybersecurity HW#10

Cryptography Homework

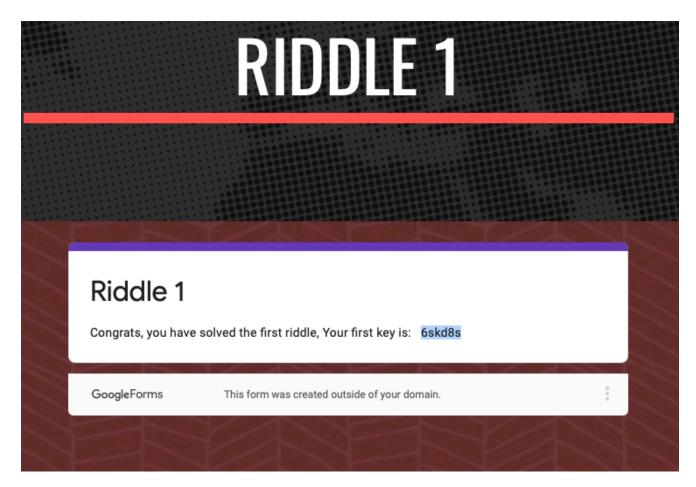
Deliverable

- Below you will find screenshots of each riddle solution, the keys generated, and the final proof that the ransomware has been decrypted.
- Riddle 1 Screenshot:

Solution: ozcjmz = gruber

Key 1: 6skd8s





• Riddle 2 Screenshot:

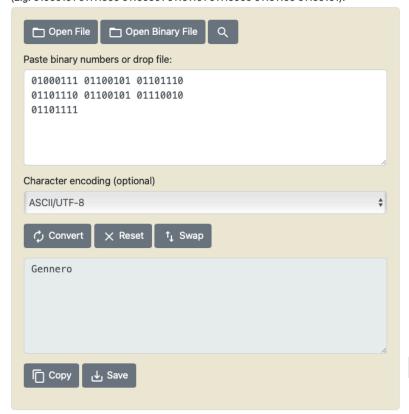
Solution:

```
1 01000111 01100101 01101110
2 01101110 01100101 01110010 = Gennero
3 01101111
```

Key 2: cy8snd2

Home > Conversion > Number conversion > Binary to text translator

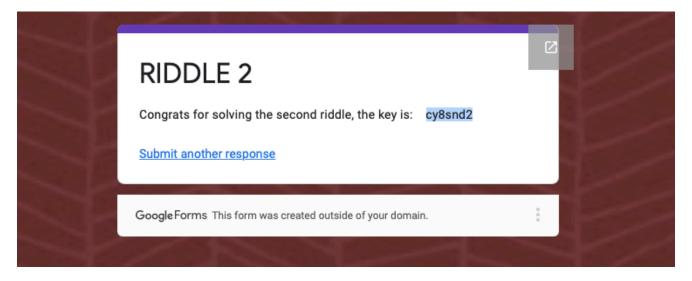
Binary to Text Translator



Text to binary converter ▶

NUMBER CONVERSION

- ASCII, Hex, Binary, Decimal converter
- · ASCII text to binary converter
- · ASCII text to hex converter



• Riddle 3 Screenshot:

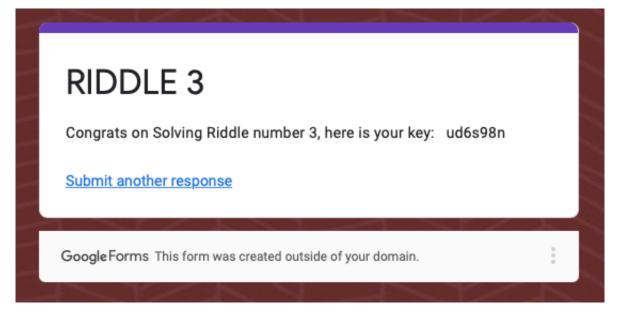
File to hold cipher text:

```
1 # riddle3.txt.enc
2 4qMOIvwEGXzvkMvRE2bNbg==
```

Solution: 4qMOIvwEGXzvkMvRE2bNbg== = takagi

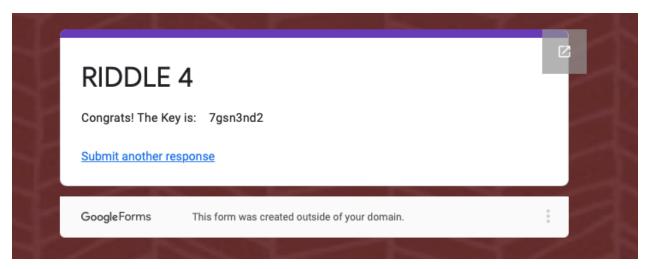
Key: ud6s98n

```
→ ~ nano riddle3.txt.enc
→ ~ cat riddle3.txt.enc
4qMOIvwEGXzvkMvRE2bNbg==
→ ~ openssl enc -pbkdf2 -nosalt -aes-256-cbc -d -in riddle3.txt.enc -out riddle
3Soln.txt -base64 -K 5284A3B154D99487D9D8D8508461A478C7BEB67081A64AD9A15147906E8
E8564 -iv 1907C5E255F7FC9A6B47B0E789847AED
→ ~ cat riddle3Soln.txt
takagi
→ ~
```



• Riddle 4 Screenshot:

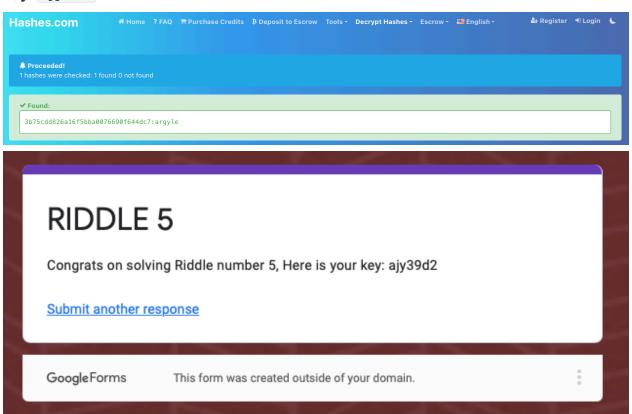
Key: 7gsn3nd2



• Riddle 5 Screenshot:

Solution: 3b75cdd826a16f5bba0076690f644dc7 = argyle

Key: ajy39d2

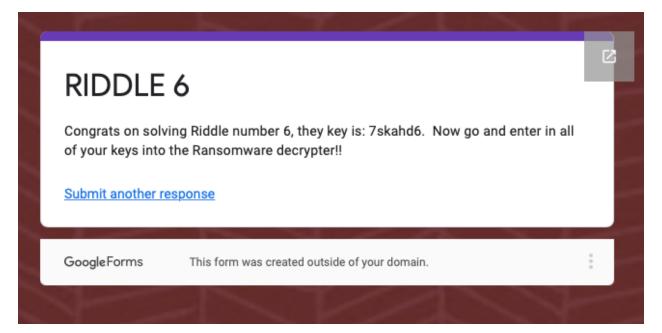


• Riddle 6 Screenshot:

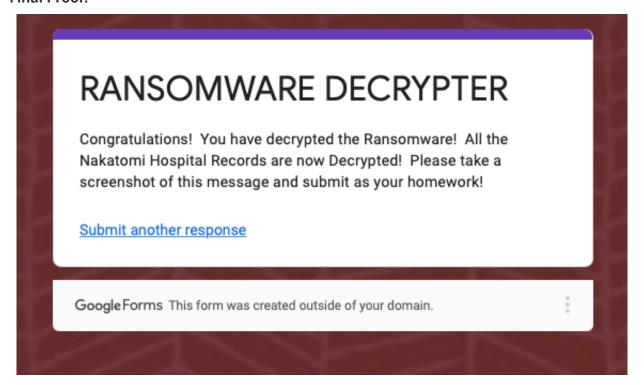
Solution: mcclane

Key: 7skahd6

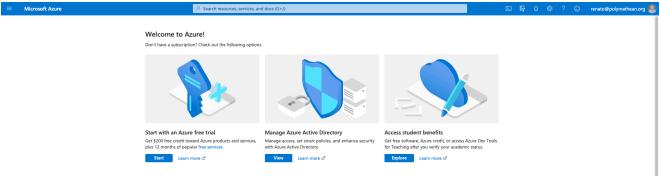
```
→ ~ steghide extract -sf Downloads/mary-lamb.jpg
Enter passphrase:
wrote extracted data to "code_is_inside_this_file.txt".
→ ~ cat code_is_inside_this_file.txt
mcclane
→ ~ [
```

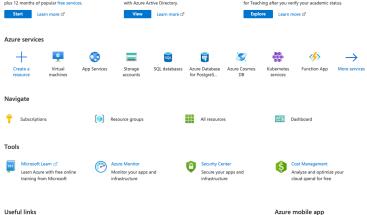


• Final Proof:



• Screenshot of personal Azure account, renato@polymathean.org:





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