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Title : **[writeups] CSAW 2015 - Crypto 50 - whiter0se**
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Hi halo there, this is my first article that didn't use my native language. So if the language is less precise, please be advised.

This challenge is about cryptography. When i open it, i got this task

> *Note: The flag is the entire thing decrypted*
>
> *eps1.7_wh1ter0se_2b007cf0ba9881d954e85eb475d0d5e4.m4v*

I download the decrypted file from the link, and i got this hash:

> EOY XF, AY VMU M UKFNY TOY YF UFWHYKAXZ EAZZHN. UFWHYKAXZ ZNMXPHN. UFWHYKAXZ EHMOYACOI. VH'JH EHHX CFTOUHP FX VKMY IFFQAXZ MY VKMY'U MEFJH OU.

i try to decrypt this hash using some rotation but certainly not as easy as it :p

So I tried to figure it manually

The method I use is to consider "if there is one letter alone, surely it is a word suffix as an "A", and we get our first character subsitution.

M UKFNY = A UKFNY

first try, all hash looks like this

> EOY XF, AY VAU A UKFNY TOY YF UFWHYKAXZ EAZZHN. UFWHYKAXZ ZNAXPHN. UFWHYKAXZ EHAOYACOI. VH'JH EHHX CFTOUHP FX VKAY'U
> IFFQAXZ AY VKAY'U AEFJH OU.

but still not readable :p

Second charater. Now let's look at the word "EHHX", it could be "LOOK" "SEEN" or "DEEP" . But, let's assume it's a vowel. And for the secon

> EOY XF, AY VAU A UKFNY TOY YF UFWEYKAXZ EAZZEN. UFWEYKAXZ ZNAXPEN. UFWEYKAXZ EEAOYACOI. VE'JE EEEX CFTOUEP FX VKAY'U AX
> IFFQAXZ AY VKAY'U AEFJE OU.

still not readable :)

Now, let's looking for this word "VE'JE" and i am absolutely sure this word are "WE'VE" :)

so, lets substitute V to W, and J to V

> EOY XF, AY WAU A UKFNY TOY YF UFWEYKAXZ EAZZEN. UFWEYKAXZ ZNAXPEN. UFWEYKAXZ EEAOYACOI. WE'VE EEEX CFTOUEP FX WKAY'U
> IFFQAXZ AY WKAY'U AEFVE OU.

and the word "WAU" looks like "WAS", then substitute it again, U=S

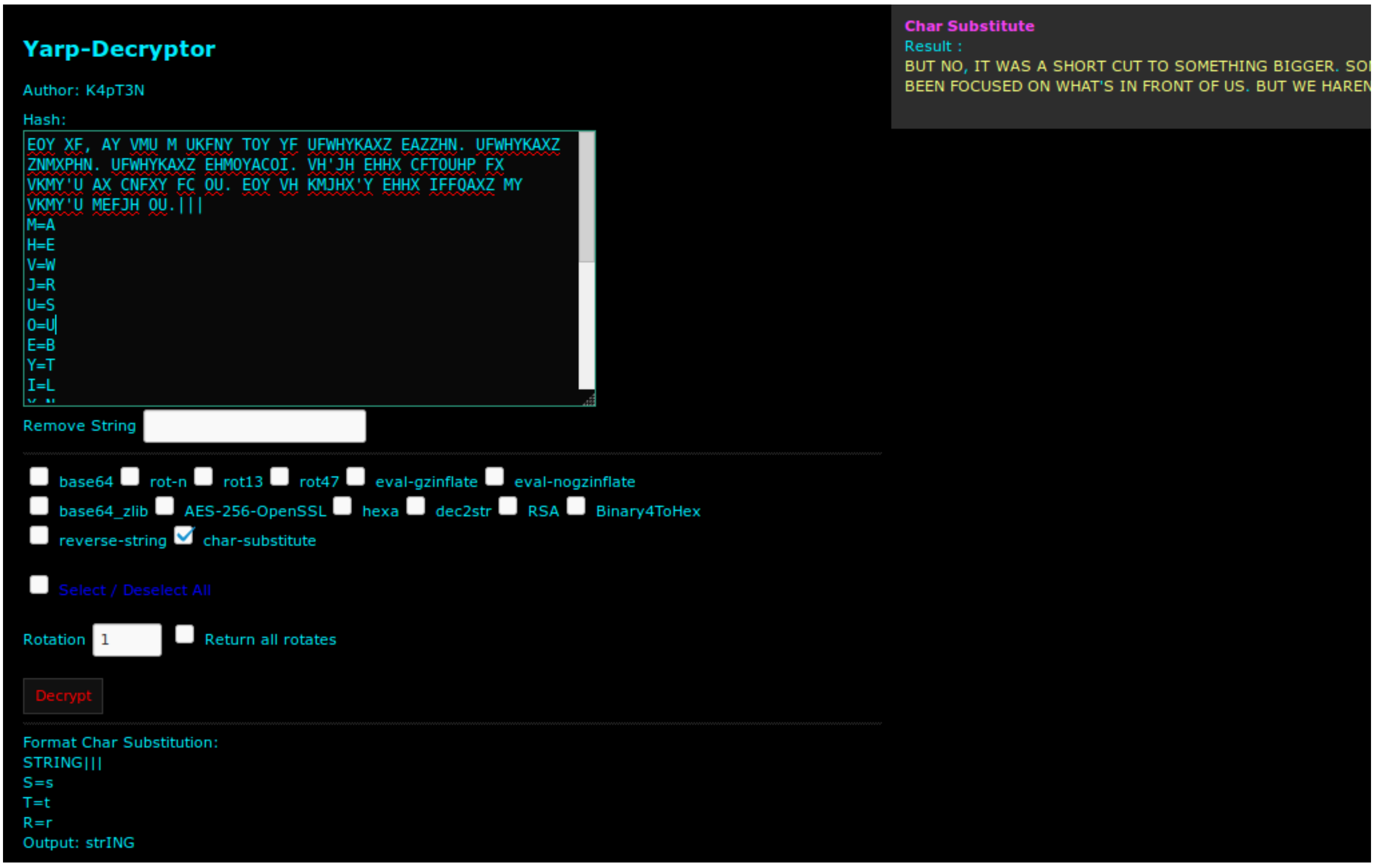
> EOY XF, AY WAS A SKFNY TOY YF SFWEYKAXZ EAZZEN. SFWEYKAXZ ZNAXPEN. SFWEYKAXZ EEAOYACOI. WE'VE EEEX CFTOSEP FX WKAY'S A
> IFFQAXZ AY WKAY'S AEFVE OS.

i think i;m on the right track. Next, i'll guess OS as US. So, O=U

> EUY XF, AY WAS A SKFNY TUY YF SFWEYKAXZ EAZZEN. SFWEYKAXZ ZNAXPEN. SFWEYKAXZ EEAUYACUI. WE'VE EEEX CFTUSEP FX WKAY'S A
> IFFQAXZ AY WKAY'S AEFVE US.

still, now looks at this word "EEAUYACUI" it's looks like "BEAUTIFUL". One more right track :)

But for this challenge, I do not really do it manually. Because it is really a waste of time. So, i coding it. Yarp. I made my own decryptor for th
Challenges.



Author: K4pT3N

Hash:

```
EOY XF, AY VMU M UKFNY TOY YF UFWHYKAXZ EAZZHN. UFWHYKAXZ
ZNMXPHN. UFWHYKAXZ EHMOYACOI. VH'JH EHHX CFTOUHP FX
VKMY'U AX CNFXY FC OU. EOY VH KMJHX'Y EHHX IFFQAXZ MY
VKMY'U MEFJH OU.|||
M=A
H=E
V=W
J=R
U=S
O=U
E=B
Y=T
I=L
```

Remove String

□ base64 □ rot-n □ rot13 □ rot47 □ eval-gzinflate □ eval-nogzinflate
□ base64_zlib □ AES-256-OpenSSL □ hexa □ dec2str □ RSA □ Binary4ToHex
□ reverse-string ☑ char-substitute

□ Select / Deselect All

Rotation 1 □ Return all rotates

```
Format Char Substitution:
STRING|||
S=s
T=t
R=r
Output: strING
```

Char Substitute

Result :

```
BUT NO, IT WAS A SHORT CUT TO SOMETHING BIGGER. SO
BEEN FOCUSED ON WHAT'S IN FRONT OF US. BUT WE HAREN
```

and after all, i got the flag

BUT NO, IT WAS A SHORT CUT TO SOMETHING BIGGER. SOMETHING GRANDER. SOMETHING BEAUTIFUL. WE'VE BEEN FOCUSED ON WHAT'S
BEEN LOOKING AT WHAT'S ABOVE US.

:)

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