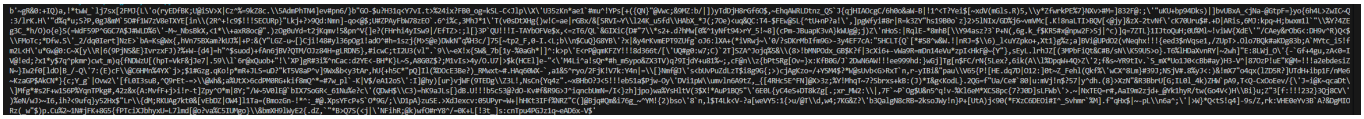
B64 - Regex Scripting Writeup

XXX

To solve this challenge we'll first need to decrypt our string from Base64 which can either be done through scripting or Cyberchef. You'd get a random string but it contains a hint throughout..



Looking through the text you'd notice `!!!SECUR` and could then be confirmed by finding the next piece which would be `!!!I-TAY`. This tells us the rest of this challenge. Create a script that will find every instance of `!!!` and print the 5 characters after it.

A regex query of something equivalent would do the trick - `!!!([a-zA-Z0-9\-\{\}]{5})`

- `a-z` : Matches any lowercase letter.
- `A-Z` : Matches any uppercase letter.
- `0-9` : Matches any digit from 0 to 9.
- `\-` : Matches a literal hyphen (`-`). The backslash escapes the hyphen to treat it as a character, not a range indicator.
- `\{` : Matches a literal curly bracket `{` .

Meaning a final script would do the same as the following

```
import base64
import re
def main():
    a = open("text.txt", "r")
    contents = a.read()
    a.close()
    # Read and store the file contents
    rem_b64 = base64.b64decode(contents)
    for i in range(9):
        rem_b64 = base64.b64decode(rem_b64)
    # Decode it 10 times with one out of the loop for ease
    final = re.findall(r"!!!([a-zA-Z0-9\-\{\}]{5})", str(rem_b64))
    # finds all the parts
    print(''.join(final))
    # join it all together and print it
```

```
    return

if __name__ == "__main__":
    main()
```

```
apter/../..\debugpy\launcher' '31858' '--' 'c:\Users\d
SECURI-TAY{eed38d366ee999a2ebdeb51ab5c53232}3
```