

hackergame misc writeup

原创

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订阅专栏



[ctf](#)

50 篇文章 1 订阅

订阅专栏

猫咪电路

mc的红石电路,逆推过程,输入的二进制01就是flag

flag{01101010001110010111111111111111010}

猫咪和键盘

纵向随机切割

```
with open("typed_printf.cpp", "r") as f:
    lines=f.readlines()
    #print(lines)
    for line in lines:
        seg1=line[0:1]
        seg2=line[1:7]
        seg3=line[8:20]
        seg4=line[20:22]
        seg5=line[22:32]
        seg6=line[32:39]
        seg7=line[39:-1]
        print((seg1+seg6+seg2+seg4+seg3+seg5+seg7).strip())
```

```
/*
* name: typed_printf.cpp
* compile: g++ -std=c++17 typed_printf.cpp
* title: type safe printf
* author: nicekingwei
* url: aHR0cHM6Ly96anUtbGFtYmRhLnRlY2gvY3BwZHQtchJpbnRmLw==
* related knowledge:
*   - value and type
*     value->value: function
*     type->value: parametric polymorphism
*     type->type: generic
*     value->type: dependent type
```

```

* - auto
* - if constexpr
*/
#include <iostream>
#include <functional>
#include <type_traits>

using namespace std;

template<const char*format>
static auto println() {
if constexpr (format[0]=='%') {
if constexpr (format[1]=='d') {
return [](int x){cout<<x<<endl;};
} else if constexpr (format[1]=='s') {
return [](const char* x){cout<<x<<endl;};
} else {
return "error";
}
} else {
return "error";
}
}

struct unit_t {char x;};

template<typename T,typename R>
constexpr auto get_arg(R (*f)(T)){
return T{};
}

template<typename T>
constexpr bool cont_takes_no_arg(T cont){
using cont_t = decay_t<T>;
using arg_type = decay_t<decltype(get_arg(cont))>;
return is_same<unit_t,arg_type>::value;
}

template<typename T,typename R,typename X,R (*cont)(X)>
auto print_var(T x){
cout<<x;
return cont;
}

template<typename T,typename R,typename X,R (*cont)(void)>
auto print_var(T x){
cout<<x;
return cont();
}

template<char c,typename R,typename X,R (*cont)(X)>
auto print_const(X x){
cout<<c;
return cont(x);
}

template<char c,typename R,typename X,R (*cont)(void)>
auto print_const(){
}

```

```

cout<<c;
return cont();
}

template<typename R,typename X>
constexpr auto cont_ret_type(R (*cont)(X)){
return R{};
}

template<typename R>
constexpr auto cont_ret_type(R (*cont)()){
return R{};
}

template<typename R,typename X>
constexpr auto cont_arg_type(R (*cont)(X)){
return X{};
}

template<typename R>
constexpr auto cont_arg_type(R (*cont)()){
return unit_t{};
}

unit_t print_nothing(){return unit_t{};}

#define cont_ret_t decay_t<decltype(cont_ret_type(cont))>
#define cont_arg_t decay_t<decltype(cont_arg_type(cont))>

template<const char*format,int i>
constexpr auto _typed_printf(){
if constexpr (format[i]=='%' && format[i+1] == 'd') {
constexpr auto cont = _typed_printf<format,i+2>();
return print_var<int,cont_ret_t,cont_arg_t,cont>;
} else if constexpr (format[i]=='%' && format[i+1] == 's') {
constexpr auto cont = _typed_printf<format,i+2>();
return print_var<const char*,cont_ret_t,cont_arg_t,cont>;
} else if constexpr (format[i]!='\0') {
constexpr auto cont = _typed_printf<format,i+1>();
return print_const<format[i],cont_ret_t,cont_arg_t,cont>;
} else {
return print_nothing;
}
}

#define def_typed_printf(f,str) constexpr static const char str_fmt##f[] = str; auto f = _typed_printf<str_fmt##f,0>();

#define ABC "FfQ47if9Zxw9jXE68VtGA"
#define BAC "JDk6Y6Xc88UrUtpK3iF8p"
#define CAB "7BMs4y2gzdG8Ao2gv6aiJ"

int main(){
def_typed_printf(f_l_x_g_1, "%s%s%s%s");
f_l_x_g_1("f1")("a")("g")("{");
def_typed_printf(a_a_a_a_a_a_a_a_a_a, "%s%s%s%s%s%s%d");
a_a_a_a_a_a_a_a(ABC)("")((BAC)("")((CAB)(""))(''));
def_typed_printf(def_typed_printf_, "%s%d%s");
def_typed_printf ("typed_printf")('')("}");

```

```
return 0;  
}
```

c++17运行得flag

白与夜



lsb隐写

游园会的集章卡片

用 montage和gaps拼图,我不会用这个东西,拼歪了只能硬着把flag弄出来了

```
montage *png -tile 5x5 -geometry 125x125+0+0 flag.png  
gaps --image=flag.png --generations=50 --population=25 --size=125
```

Figure 1

Solution



flag{H4PPY_1M4GE_PR0CE551NG}

猫咪遥控器

uuencode隐写类似base64隐写

poem.txt - 文档

文件(F) 编辑(E) 格式(O) 查看(V) 帮助(H)

```
@268@>6]U)W)E(&AA<!Y+!T:&5N($DG;2!H87!P>2[,  
<5VAE;B!Y;W4@;6%K92!S;VUE;VYE(&AA<!Y+#  
G>6]U(&UA;V4@>6]U<G-E;&8@82!L:71T;&4@:&%P<&EE<BT;V\N  
?06YD('1H870@<F5P96%T<R!O=F5R(&%N9"!O=F5R+%  
;6%K:6YG(&$@:&%P<&EN97-S('P:7)A;"X,  
*+2TM+2TM+2TM+0  
H5VAA="!D;R!Y;W4@=&AI;FL@86)O=70@=&AE('!L86YE=&%R:75M/U  
D5&AA="!B96%U=&EF=6P@='=I;FML:6YG(&]F(&5T97)N:71Y  
E=&AA="!W:6QL(&YE=F5R(&9A9&4L(&YO(&UA='1E<BT;W:&5N+O  
M06QL('1H92!S=&%R<R!I;BT:&4@<VMY(&%R92!W86ET:6YG(&9O<BT;W4N  
*+2TM+2TM+2TM+6  
<179E<GET:&EN9R!Y;W4@<V%Y(&%N9"!D;RXN+F  
<:70@86QL('P87)K;&5S('O(&)R:6=H=&QY+G  
9270G<RT;V\@8FQI;F1I;F<@9F]R(&UE+%
```

=86YD(\$D@96YD('5P(&-L;W-I;F<@;7D@97EE<RY(
90G5T(\$D@8V%N)W0@:&5L<"IA<W!I<FEN9^
/=&\@8F4@;&EK92!Y;W4N
*+2TM+2TM+2TM+7
>+RH@2&5R92!I<RT:&4@96YD(&]F(&UY('!O96TN
B2&%V92!Y;W4@979E<BT;W5N9"!M>2!&3\$%'/R Z*2 J+]

CSDN @~VAS~

exp

```
def is_line_contain_flag(line):
    left = line[0] - 32
    return left * 4 % 3

def get_hidden_bits(line):
    left = is_line_contain_flag(line)
    assert (left != 0)
    if left == 1:
        return (line[-3] - 32) & 0b1111
    else:
        return (((line[-2] - 32) & 0b11) << 2) | (((line[-1] - 32) & 0b1100) >> 2) # 提取隐藏的flag bits

if __name__ == '__main__':
    fin = open("poem.txt", "r")
    fout = open("flag.txt", "w")

    enc_lines = fin.read().splitlines()
    enc_lines = list(
        map(lambda x: bytes(x, encoding='ascii'), enc_lines))
    lines_contain_flag = []
    flag = ''
    for i in enc_lines:
        if is_line_contain_flag(i):
            lines_contain_flag.append(i)
        else:
            continue
    for i in range(len(lines_contain_flag)):
        if i % 2 == 0: # ****
            flag_chr = (get_hidden_bits(lines_contain_flag[i]) << 4) | (get_hidden_bits(lines_contain_flag[i + 1]))
        flag += chr(flag_chr)
    fout.write(flag)
    fin.close()
    fout.close()
```

Word 文档

binwalk那个doc文件,会出一个flag.txt然后python处理

DECIMAL	HEXADECIMAL	DESCRIPTION
0	0x0	Zip archive data, at least v2.0 to extract, compressed size: 350, uncompressed size: 1445, name: [Content_Types].xml
427	0x1AB	Zip archive data, at least v1.0 to extract, name: _rels/
491	0x1EB	Zip archive data, at least v2.0 to extract, compressed size: 233, uncompressed size: 590, name: _rels/.rels
793	0x319	Zip archive data, at least v1.0 to extract, name: docProps/
860	0x35C	Zip archive data, at least v2.0 to extract, compressed size: 376, uncompressed size: 723, name: docProps/app.xml
1310	0x51E	Zip archive data, at least v2.0 to extract, compressed size: 368, uncompressed size: 769, name: docProps/core.xml
1753	0x6D9	Zip archive data, at least v2.0 to extract, compressed size: 60, uncompressed size: 78, name: flag.txt
1879	0x757	Zip archive data, at least v1.0 to extract, name: word/
1942	0x796	Zip archive data, at least v2.0 to extract, compressed size: 770, uncompressed size: 3923, name: word/fontTable.xml
2788	0xAE4	Zip archive data, at least v2.0 to extract, compressed size: 10762, uncompressed size: 250063, name: word/document.xml
13625	0x3539	Zip archive data, at least v2.0 to extract, compressed size: 988, uncompressed size: 2754, name: word/settings.xml
14688	0x3960	Zip archive data, at least v2.0 to extract, compressed size: 1500, uncompressed size: 28569, name: word/numbering.xml

```
flag{xlsx,pptx,docx_are_just_zip_files}
```

三教奇妙夜

```
import cv2
from matplotlib import pyplot as plt

file = cv2.VideoCapture("output.mp4")
ret, preframe = file.read()

while True:
    ret, frame = file.read()
    if ret == 0:
        break
    diff = cv2.absdiff(pframe, frame).sum()
    if diff > 1000:
        print("diff: {}".format(diff))
        plt.imshow(frame)
        plt.show()
    pframe = frame
```