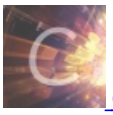
第四届“蓝帽杯”全国大学生网络安全 技能大赛 Writeup

原创

你们这样一点都不可耐 于 2020-08-08 20:54:06 发布 4020 收藏 8

分类专栏： CTF 文章标签： python CTF 网络安全 安全 经验分享

本文链接：https://blog.csdn.net/vanarrow/article/details/107884660



第四届“蓝帽杯”全国大学生网络安全 技能大赛 Writeup

Misc

签到

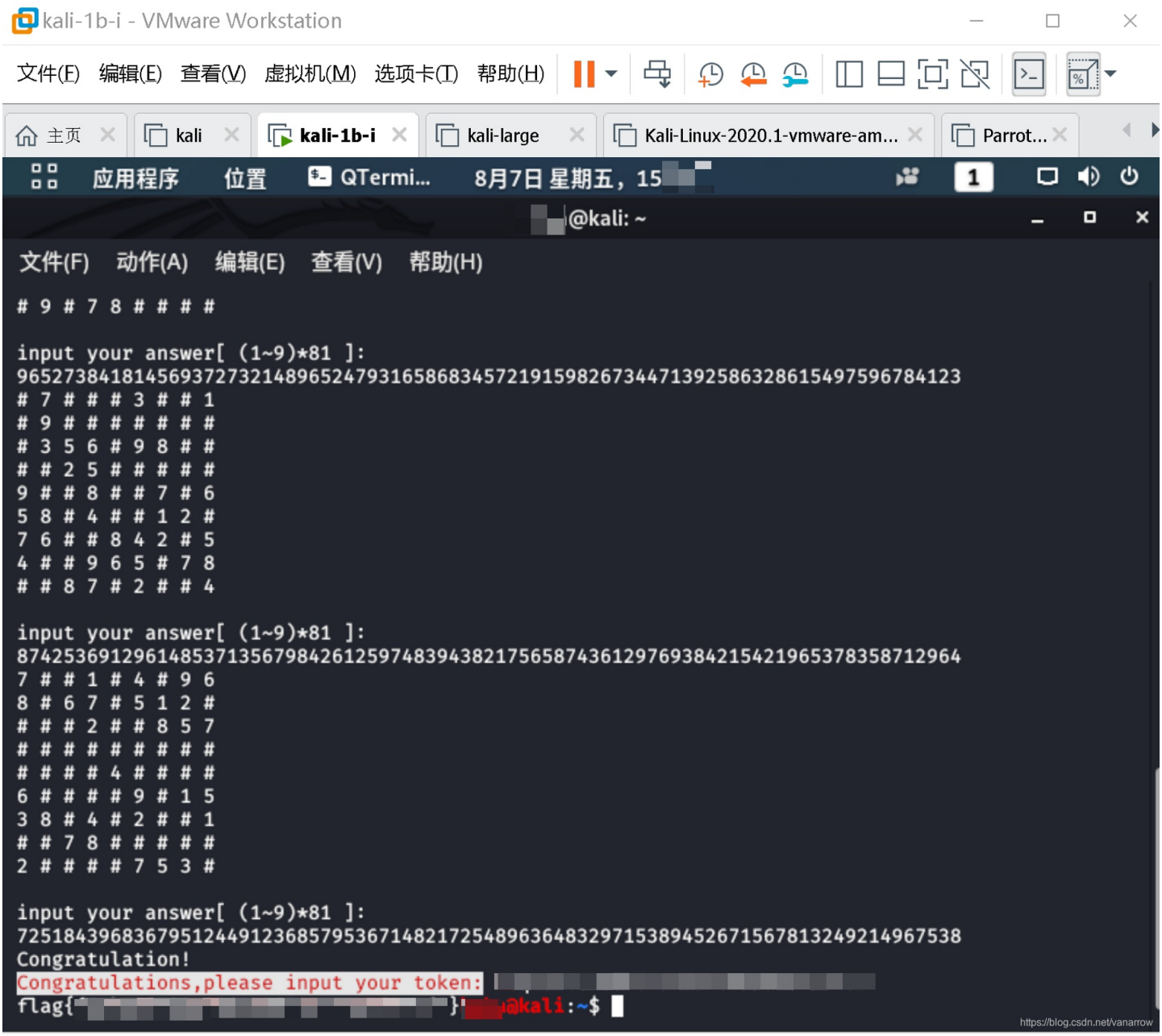
> 观色

010editor查看，发现文件头是GIF89a，是gif文件
Stegsolve 调色道，出现前半flag
ps打开，分离两个图层
Stegsolve分析，得到后半flag，即可得到完整flag

sudo

> 喜欢玩数独吗，一起来玩吧。
> nc 47.93.204.245 12000

1-9数字玩9981数独
复制选区到Notepad++正则表达式
编写脚本计算，输入答案
整个过程务必快速输入，超过时间就断开连接



熟悉的解密

逐行base64解密得到py脚本

```python
#!/usr/bin/env python
#-*- coding: utf-8 -*-
import sys
from ctypes import *
def encipher(v, k):
    y = c_uint32(v[0])
    z = c_uint32(v[1])
    sum = c_uint32(0)
    delta = 0x9e3779b9
    n = 32
    w = [0,0]
    while(n>0):
        sum.value += delta
        y.value += ( z.value << 4 ) + k[0] ^ z.value + sum.value ^ ( z.value >> 5 ) + k[1]
        z.value += ( y.value << 4 ) + k[2] ^ y.value + sum.value ^ ( y.value >> 5 ) + k[3]
        n -= 1
    w[0] = y.value
    w[1] = z.value
    return w
def encodestr(text, key):
    cipherList = []
    text += (8 - len(text) % 8) * chr(0)
    for i in range(len(text)/8):
        v1 = 0
        v2 = 0
        for j in range(4):
            v1+= ord(text[i*8+j]) << (4-j-1)*8
            v2+= ord(text[i*8+j+4]) << (4-j-1)*8
        cipherList.append(encipher([v1,v2],key))
    return cipherList

if __name__ == "__main__":
    key = [11,22,33,44]
    flag = ?
    cipher = encodestr(flag1,key)
    #cipher = [[4018289233L, 2950320151L], [1771827478L, 493980876L], [1863284879L, 1137797599L], [2759701525L,
3957885055L], [2600866805L, 78850724L]]
```

Tea算法解出前一半flag
base64隐写解出后一半flag

Web

文件包含绕过

```php
<?php
highlight_file(__FILE__);
    include("./check.php");
    if(isset($_GET['filename'])){
        $filename  = $_GET['filename'];
        include($filename);
    }
?>
```

curl 命令+bzip2.compress协议绕过

easiestSQLi

> 他们说这年头黑客很多，所以我的SQL就过滤了一大堆的东□!这下谁也 别想拿到我的flag了哈哈哈哈哈哈

给flag 表，列

布尔盲注，用pyhon脚本

Soitgoes

> find the flag.

使用php伪协议读取源码
?file=php://filter/read=convert.base64-encode/resource=try.php
反序列化
小范围爆破

```php
<?php
class Seri{
    public $alize;
    public function __construct($alize) {
        $this->alize = $alize;
    }
    public function __destruct(){
        $this->alize->getFlag();
    }
}

class Flag{
    public $f;
    public $t1;
    public $t2;

    function __construct($file){
        echo "Another construction!!";
        $this->f = $file;
        $this->t1 = $this->t2 = md5(rand(1,10000));
    }

    public function getFlag(){
        $this->t2 = md5(rand(1,10000));
        echo $this->t1;
        echo $this->t2;
        if($this->t1 === $this->t2)
        {
            if(isset($this->f)){
                echo @highlight_file($this->f,true);
            }
        }
    }
}
?>
```

```php
<?php
error_reporting(0);
$file = $_GET["file"];
$p = $_GET["p"];
if (isset($file)) {
    echo 'NONONO' . '<br>';

    if (preg_match("/flag/", $file)) {
        die('HACKER GOGOGO!!!');
    }
    @include($file);

    if (isset($p)) {
        $p = unserialize($p);
    } else {
        echo "NONONO";
    }
}
?>
```