

XCTF MOBILE 新手 easyjni

原创

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115 篇文章 11 订阅

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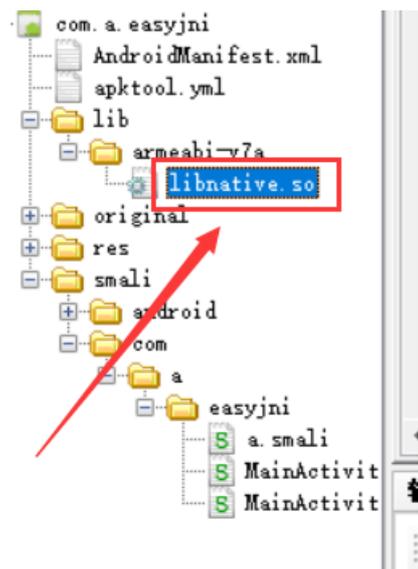
[XCTF](#)

24 篇文章 0 订阅

订阅专栏

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下载文件, 发现是个APK文件, 直接APKIDE分析一波, 发现有lib, 看一看名字:



直接java反编译, 找到主函数:

```
public class MainActivity
    extends C
{
    static
```


毋庸置疑，和我们之前做的一个base64变码表的一样，应该也是一个变换码表的base64:

```
>>> a = [105, 53, 106, 76, 87, 55, 83, 48, 71, 88, 54, 117, 102, 49, 99, 118, 51, 110, 121, 52, 113, 56, 101, 115, 50,
1, 43, 98, 100, 107, 89, 103, 75, 79, 73, 84, 47, 116, 65, 120, 85, 114, 70, 108, 86, 80, 122, 104, 109, 111, 119, 57,
6, 72, 67, 77, 68, 112, 69, 97, 74, 82, 90, 78 ]
>>> flag = ""
>>> for i in a:
...     flag += chr(i)
...
>>> flag
'i5jLW7S0GX6uf1cv3ny4q8es2Q+bdkYgKOIT/tAxUrF1VPzhmow9BHCMDpEaJRZN'
```

进入到libc中的native中看看，解压后用ida打开:

```
Function name | Se ^ | 16 char v16; // [sp+23h] [bp-15h]
| | 17 int v17; // [sp+28h] [bp-10h]
| | 18
| | 19 v17 = v3;
| | 20 v4 = a1;
| | 21 v5 = a3;
| | 22 v6 = (const char *)((__fastcall **)(int, int, _DWORD))(*(_DWORD *)a1 + 676)(a1, a3, 0);
| | 23 if ( strlen(v6) == 32 )
| | 24 {
| | 25     v7 = 0;
| | 26     do
| | 27     {
| | 28         v8 = &v1[v7];
| | 29         v9 = v6[v7 + 16];
| | 30         v9 = v6[v7++];
| | 31         v8[16] = v9;
| | 32     }
| | 33     while ( v7 != 16 );
| | 34     (*void (__fastcall **)(int, int, const char *))(*(_DWORD *)v4 + 680)(v4, v5, v6);
| | 35     v10 = 0;
| | 36     do
| | 37     {
| | 38         v12 = __OFSUB__(v10, 30);
| | 39         v11 = v10 - 30 < 0;
| | 40         v16 = v1[v10];
| | 41         v10 = v1[v10 + 1];
| | 42         v1[v10 + 1] = v16;
| | 43         v10 += 2;
| | 44     }
| | 45     while ( v11 ^ v12 );
| | 46     v13 = memcmp(v11, "MbT3sQgX039i3g==AQOoMQFPskB1Bsc7", 0x20u);
| | 47     result = 0;
| | 48     if ( !v13 )
| | 49         result = 1;
| | 50 }
| | 51 else
```

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emmmm，好像逻辑还是挺简单的，前面16个和后面的16个换一下位置，然后两两交换一下位置:

```
>>> s = "AQOoMQFPskB1Bsc7MbT3sQgX039i3g=="
>>> x = ""
>>> k = 0
>>> for i in range(0, 16):
...     k += 2
...     x += s[k-1]
...     x += s[k-2]
...
>>> x
'QAoOQMPFks1BsB7cbM3TQsXg30i9g3=='
```

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得到一个字符串: QAoOQMPFks1BsB7cbM3TQsXg30i9g3==

使用上次自己写的base64变换码表脚本，变换一下码表，跑一下:

```
python .\base64.py

*****
* (1)encode (2)decode *
*****

Please select the operation you want to perform:
2
Please enter a string that needs to be decrypted:
QAoOQMPFks1BsB7cbM3TQsXg30i9g3==
Decrypted String:
```

flag{just_ANot#er_@p3}

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get flag: flag{just_ANot#er_@p3}