JCTF 2014 小菜一碟



Hk_Mayfly 于 2019-10-12 00:00:00 发布 版权声明:本文为博主原创文章,遵循 <u>CC 4.0 BY-SA</u>版权协议,转载请附上原文出处链接和本声明。 本文链接: <u>https://blog.csdn.net/qg_39542714/article/details/106834771</u> 版权

测试文件: https://static2.ichunqiu.com/icq/resources/fileupload//CTF/JCTF2014/re100

1.准备

文件: re100				₽н	21
程序入口: ?	00 <	入口区段:	?		
文件偏移: ?]	入口字节:	50.4B.03.04.14		Ĩ
连接器信息:?]	子系统:	?	PE	
文件大小: 00048575h	< N	附加数据:	2		
Diagnose:			DIN 14.5	2	
NOT EVE - 7ID archive - [Det	flated 1 ME		EEST ME - 1AD fi	L. E.C. SY	1

获得信息

- ZIP文件
- Java文件

用解压文件打开

re100 (1)	名称 ^	压缩后大小	原始大小	类型
 META-INF res 	META-INF			
	res .			
	AndroidManifest.xml	642	1,704	XML 文档
	classes.dex	252,678	581,796	OEX 文件
	resources.arsc	2,368	2,368	ARSC 文件

获得信息

• APK文件

2.Smali2JavaUI打开

```
X
                                                            MyDialog. java
                                                                           MainActivity. java
                                   BuildConfig. java
                                                    R. java
   ---- re100 . apk
      🗄 🗁 src
        🗄 🖷 🔠 android
                                        * Generated by smali2java 1.0.0.558
                                        * Copyright (C) 2013 Hensence.com
        🗄 🖶 com
           🗄 🖶 example
             🗄 🔠 encoding
                                      package com.example.encoding;
                  🚺 BuildConfig. java
                  J MainActivity. java
                                      import android.app.Activity;
                  J MyDialog. java
                  🚺 R. java
                                      import android.widget.Button;
                                      import android.widget.EditText;
                                      import java.security.NoSuchAlgorithmException;
                                      import java.security.MessageDigest;
                                      import android.util.Base64;
                                      import android.os.Bundle;
                                      import android.view.View;
                                      import android.view.Menu;
                                              advaid view MenuTaflater
1 /**
 2
     * Generated by smali2java 1.0.0.558
 3
     * Copyright (C) 2013 Hensence.com
     */
 4
5
6 package com.example.encoding;
7
8 import android.app.Activity;
9 import android.widget.Button;
10 import android.widget.EditText;
11 import java.security.NoSuchAlgorithmException;
12 import java.security.MessageDigest;
13 import android.util.Base64;
14 import android.os.Bundle;
15 import android.view.View;
16 import android.view.Menu;
17 import android.view.MenuInflater;
18
  public class MainActivity extends Activity {
19
       private Button button;
20
21
       private MyDialog dialog1;
       private MyDialog dialog2;
22
23
       private MyDialog dialog3;
24
       private EditText edittext;
       private StringBuffer str;
25
26
       protected void onCreate(Bundle savedInstanceState) {
27
28
           super.onCreate(savedInstanceState);
           setContentView(0x7f030000);
29
30
           dialog1 = new MyDialog(this, "try again");
31
           dialog2 = new MyDialog(this, "congratulations, you success!!!");
           dialog3 = new MyDialog(this, "sorry,please try again");
32
33
           edittext = (EditText)findViewById(0x7f080000);
34
           button = (Button)findViewById(0x7f080001);
           button.setOnClickListener(new View.OnClickListener(this) {
35
36
               1(MainActivity p1) {
37
38
               }
39
40
               public void onClick(View v) {
41
                   MyDialog dialog3 = this$0new StringBuffer(edittext.getText().toString());
                    str = localString1;
42
43
                    if(str.length() < 0x5) {</pre>
                        edittext.setText("");
44
                        . -
```

```
45
                        dialog1.showDialog();
46
                        return;
                    }
47
48
                    str.reverse();
                    Log.i("ClownQiang", localString1.append(new String(str)).toString());
49
50
                    String md5_string = encode(new String(str));
51
                    Log.i("ClownQiang", str);
52
                    String base64 = getBASE64(md5_string).trim();
                    Log.i("ClownQiang", md5_string);
53
                    if(base64.equalsIgnoreCase("NzU2ZDJmYzg0ZDA3YTM1NmM4ZjY4ZjcxZmU3NmUxODk=")) {
54
                        dialog2.showDialog();
55
                        return;
56
                    }
57
58
                    edittext.setText("");
                    dialog3.showDialog();
59
60
               }
61
           });
62
       }
63
       public static String getBASE64(String s) {
64
           if(s == null) {
65
               return null;
66
67
           }
68
           return Base64.encodeToString(getBytes(), 0x0);
69
       }
70
71
       public static final String encode(String s) {
72
           // :( Parsing error. Please contact me.
73
       }
74
75
       public boolean onCreateOptionsMenu(Menu menu) {
           getMenuInflater().inflate(0x7f070000, menu);
76
77
           return true;
78
       }
79 }
```

3.代码分析

提取出主要的代码

```
str.reverse();//字符串反向
Log.i("ClownQiang", localString1.append(new String(str)).toString());
String md5_string = encode(new String(str));//md5加密
Log.i("ClownQiang", str);
String base64 = getBASE64(md5_string).trim();//base64加密
Log.i("ClownQiang", md5_string);
if(base64.equalsIgnoreCase("NzU2ZDJmYzg0ZDA3YTM1NmM4ZjY4ZjcxZmU3NmUxODk=")) {
    dialog2.showDialog();
    return;
}
```

base64解密: 756d2fc84d07a356c8f68f71fe76e189

md5解密: }321nimda{galflj

反向输出: jlflag{admin123}

4.get flag!

flag{admin123}