JCTF 2014 小菜一碟

原创

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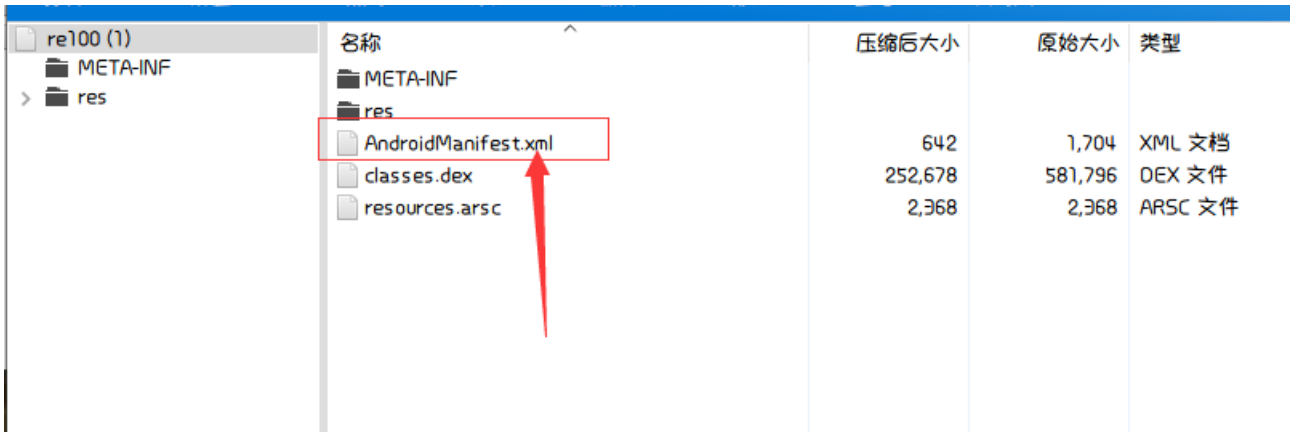
测试文件：https://static2.ichunqiu.com/icq/resources/fileupload//CTF/JCTF2014/re100

1.准备

获得信息

- ZIP文件
- Java文件

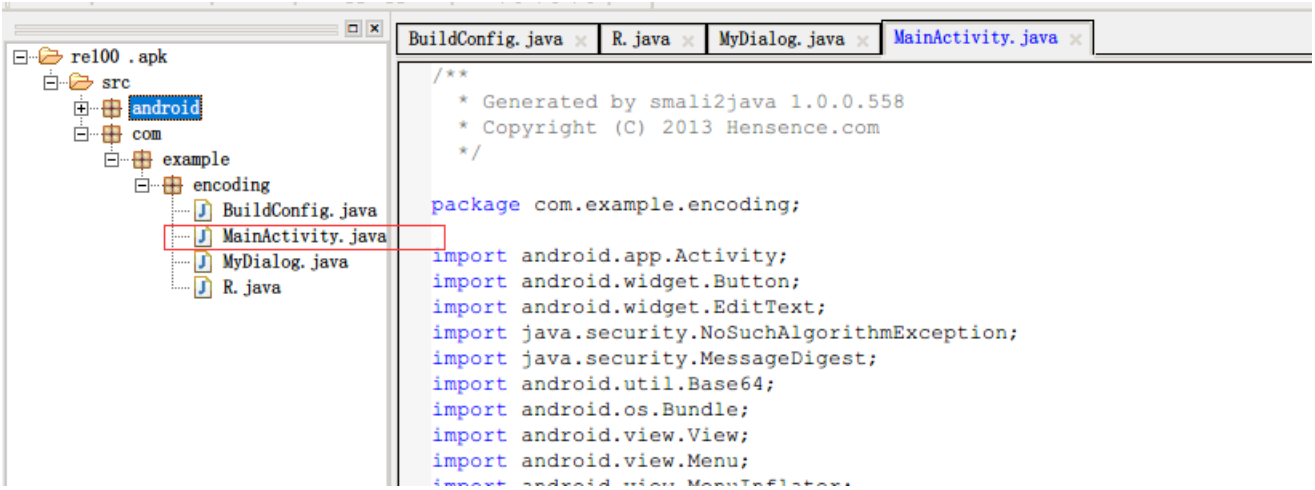
用解压文件打开



获得信息

- APK文件

2.Smali2JavaUI打开




```
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
19 public class MainActivity extends Activity {
20     private Button button;
21     private MyDialog dialog1;
22     private MyDialog dialog2;
23     private MyDialog dialog3;
24     private EditText edittext;
25     private StringBuffer str;
26
27     protected void onCreate(Bundle savedInstanceState) {
28         super.onCreate(savedInstanceState);
29         setContentView(0x7f030000);
30         dialog1 = new MyDialog(this, "try again");
31         dialog2 = new MyDialog(this, "congratulations, you success!!!");
32         dialog3 = new MyDialog(this, "sorry,please try again");
33         edittext = (EditText)findViewById(0x7f080000);
34         button = (Button)findViewById(0x7f080001);
35         button.setOnClickListener(new View.OnClickListener(this) {
36
37             1(MainActivity p1) {
38             }
39
40             public void onClick(View v) {
41                 MyDialog dialog3 = this$0new StringBuffer(edittext.getText().toString());
42                 str = localString1;
43                 if(str.length() < 0x5) {
44                     edittext.setText("");
```

```
45                      dialog1.showDialog();
46                      return;
47                  }
48                  str.reverse();
49                  Log.i("ClownQiang", localString1.append(new String(str)).toString());
50                  String md5_string = encode(new String(str));
51                  Log.i("ClownQiang", str);
52                  String base64 = getBASE64(md5_string).trim();
53                  Log.i("ClownQiang", md5_string);
54                  if(base64.equalsIgnoreCase("NzU2ZDJmYzg0ZDA3YTM1NmM4ZjY4ZjcxZmU3NmUxODk=")) {
55                      dialog2.showDialog();
56                      return;
57                  }
58                  edittext.setText("");
59                  dialog3.showDialog();
60              }
61          });
62      }
63
64      public static String getBASE64(String s) {
65          if(s == null) {
66              return null;
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) {
76          getMenuInflater().inflate(0x7f070000, menu);
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;
}
```

根据代码，我们只需要将经过md5和base64加密后的字符串"**NzU2ZDJmYzg0ZDA3YTM1NmM4ZjY4ZjcxZmU3NmUxODk=**"解密后反向即可。

base64解密：756d2fc84d07a356c8f68f71fe76e189

md5解密：}321nimda{galflj

反向输出：jlflag{admin123}

4.get flag！

```
flag{admin123}
```