

Octf – mobile – boomshakalaka writeup

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作为一个web狗，一道web都没做出来Orz。。。做出来一道apk，纪念一下在ctf中做出的第一道apk。。。

首先在模拟器或者真机中安装一下apk看到是一个cocos2dx的打飞机游戏

根据题目提示，要打游戏打到最高分就会得到flag，首先拉到Jeb中反编译一下，在manifest文件中看到入口类为FirstTest类

```
import android.os.Bundle;
import org.cocos2dx.lib.Cocos2dxActivity;
import org.cocos2dx.lib.Cocos2dxGLSurfaceView;

public class FirstTest extends Cocos2dxActivity {
    static {
        System.loadLibrary("cocos2dcpp");
    }

    public FirstTest() {
        super();
    }

    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        new a(((Context)this), "flag").d("YmF6aW5nYWZhYQ==");
        new a(((Context)this), "Cocos2dxPrefsFile").d("NO");
    }

    public Cocos2dxGLSurfaceView onCreateView() {
        Cocos2dxGLSurfaceView v0 = new Cocos2dxGLSurfaceView(((Context)this));
        new a(((Context)this), "Cocos2dxPrefsFile").d("MG");
        v0.setEGLConfigChooser(5, 6, 5, 0, 16, 8);
        return v0;
    }
}
```

FirstTest类的onCreate方法调用了a类对flag和Cocos2dxPrefsFile字符串做了某些操作。

下面看一下a类的实现

```
package com.example.plane;

import android.content.Context;
import android.content.SharedPreferences;

public class a {
    private SharedPreferences editor;

    public a(Context arg1, String arg2) {
        super();
        this.editor = null;
        this.editor = arg1.getSharedPreferences(arg2, 0);
    }

    public void b() {
        this.editor.edit().putString("DATA", "").commit();
    }

    public String c() {
        return this.editor.getString("DATA", "");
    }

    public void d(String arg1) {
        this.editor.edit().putString("DATA", String.valueOf(String.valueOf(this.c())) + arg1).commit();
    }
}
```



```

else if ( v3 == (const char *)600 )
{
    v8 = cocos2d::CCUserDefault::sharedUserDefault(v5);
    std::operator+<char,std::char_traits<char>,std::allocator<char>>(&v23, &v20, "Rf");
    cocos2d::CCUserDefault::setStringForKey(v8, &v34, &v23);
    v7 = &v23;
}
else if ( v3 == (const char *)700 )
{
    v9 = cocos2d::CCUserDefault::sharedUserDefault(v5);
    std::operator+<char,std::char_traits<char>,std::allocator<char>>(&v24, &v20, "Rz");
    cocos2d::CCUserDefault::setStringForKey(v9, &v34, &v24);
    v7 = &v24;
}
else if ( v3 == (const char *)3000 )
{
    v10 = cocos2d::CCUserDefault::sharedUserDefault(v5);
    std::operator+<char,std::char_traits<char>,std::allocator<char>>(&v25, &v20, "Bt");
    cocos2d::CCUserDefault::setStringForKey(v10, &v34, &v25);
    v7 = &v25;
}
else if ( v3 == (const char *)5600 )
{
    v11 = cocos2d::CCUserDefault::sharedUserDefault(v5);
    std::operator+<char,std::char_traits<char>,std::allocator<char>>(&v26, &v20, "Ru");
    cocos2d::CCUserDefault::setStringForKey(v11, &v34, &v26);
    v7 = &v26;
}
}

```

所以我们只需要按分数的高低顺序将这些base64的字符串拼起来就是flag

之前我们在xml文件中的到的字符串是

0ctf{C0coS2d_AnDro1

在updateScore中得到的base64字符串为: MWRfRzBtRV9Zb1VfS24w

解码后: 1d_G0mE_YoU_Kn0

卧槽。。。flag不是完整的怎么办!!!

肯定还有其他调用SharePreferences的地方! 写文件的API是一样的, 使用IDA的交叉引用找到其他调用API的地方, 然后得到完整的flag

0ctf{C0coS2d_AnDro1d_G0mE_YoU_Kn0w?}

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