

网鼎杯2020 玄武组部分writeup

原创

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订阅专栏

太难了 太难了 先放出来俩题花了大量时间没搞出来 如下是俩道简单的安卓题

Reverse-java

解压题目得到一个java.apk, 要求输入正确的flag。

主要函数:

```
package ctf.crack.java;
import android.support.v7.a.a.f;
public class c {
    public static String a = "aes_check_key!@#";
    public static String b = "7880JCVND837VICRHY587mouIa2M9cqZaq70WVwD@vX819K4P9X0bHC8ftoF83";
    int[] c = {214, 144, 239, 254, 284, 225, 61, 183, 22, 182, 49, j.AppCompatTheme_textColorAlertDialogListItem, 20, 194, 40, 251, 44, 5, 43,
    d d;
    public boolean a(String str) {
        byte[] bArr = new byte[0];
        byte[] a2 = e.a(str.getBytes(), a.getBytes()); aes加密输入的flag
        this.d = new d(); 异或处理一下密文
        return new String(b.a(a2)).equals(b); 计算密文的base64判断是否与相等
    }
}
```

坑: 替换了密钥内容

```
public class App extends Application {
    private static App a;
    static {
        c.a = c.a.replace("e", "o");
    }
}
```

解密代码:


```
141     byte[] cmdbyte = str.getBytes();
142     for (byte i = 0; i < cmdbyte.length; i = (byte) (i + 1)) {
143         cmdbyte[i] = (byte) (cmdbyte[i] - (i % num));
144     }
145     try {
146         return new String(cmdbyte, charsetName: "UTF-8");
147     } catch (UnsupportedEncodingException e) {
148         e.printStackTrace();
149         return "";
150     }
151 }
152 @ public static String calcFlagFirstStep() {
153     //return comm(Base64.decodeToString(keyFirst), 8);
154     byte[] ret = Base64.getDecoder().decode(keyFirst.getBytes());
155     return comm(new String(ret), num: 8);
156 }
157
158 @ public static String calcFlagSecondStep() {
159     //return comm(Base64.decodeToString(keySecond), 4);
160     byte[] ret = Base64.getDecoder().decode(keySecond.getBytes());
161     return comm(new String(ret), num: 4);
162 }
```

test > main()

Run: test x

flag {414A6E12-B42E-48D3-95CE-A9FF9D2F1D49}

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