SECCON 2015 - CTF [Jeopardy]

Monday, July 22, 2019 1:38 AM

- 1. Decompile the apk
- 2. Convert dex to jar to show application code.
- 3. Now open jar file you see there is a activity named: MainActivity.class

All code is written in mainactivity.class
There are three button and three text view

We got an interesting method:

```
private final Handler handler = new Handler();
int m;
Outton r;
Outton r;
Outton r;
Outton r;
Int n;
Int n;
Outton r;
Int n;
Outton r;
Int n;
Outton r;
Int n;
Outton r;
Int n;
Int n;
Outton r;
Int n;
```

You got an condition statement :

```
if (1000 == MainActivity.this.cnt) {
    localTextView.setText("SECCON{" + String.valueOf((MainActivity.this.cnt + MainActivity.this.calc()) * 107) + "}");
```

From above method you see MainActivity.this.cnt =1000 because flag is shown when (1000 == MainActivity.this.cnt)

- 2. And another calc() method is called which is defined in native library.
- 3. No open libcalc.so in ida pro
- 4. And analyze

- 5. From above code . It return 7.
- 6. Now flag is:

SECCON{(1000+7)*107}