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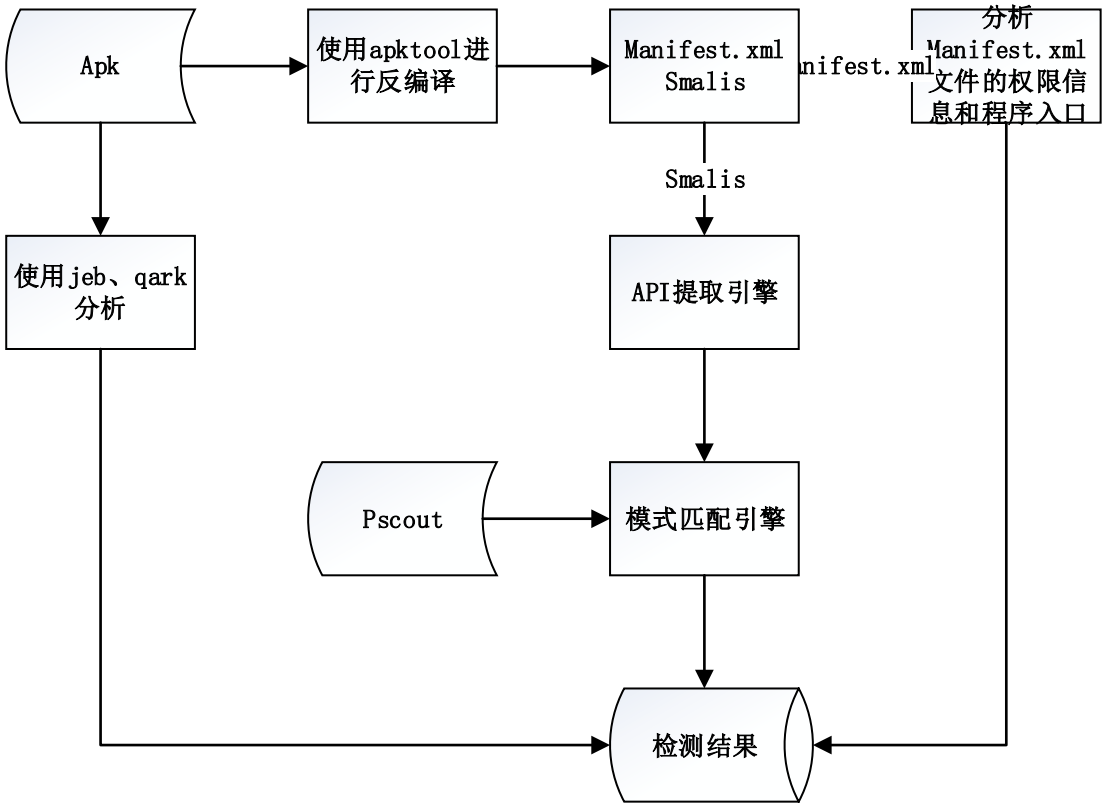
检测方法

检测流程图：



1.1smali api 扫描法

首先使用 apktool 将源 apk 程序进行反编译，得到 apk 的 smali 文件，通过程序提取出 smali 文件的 method、class、apicall 等信息，**这些信息可以用作机器学习的特征，也可以用于传统的模式匹配方法：**

```
id=Lorg/xmlpull/v1/XmlPullParserFactory->newPullParser
class_name=Lorg/xmlpull/v1/XmlPullParserFactory
method_name=newPullParser
parameters=
calling_to=['Ljava/lang/StringBuilder-><init>', 'Ljava/lang/StringBuilder->append', 'Ljava/lang/StringBuilder-
>append', 'Ljava/lang/StringBuilder->toString', 'Lorg/xmlpull/v1/XmlPullParserException-><init>', 'Ljava/util/
Vector->size', 'Ljava/lang/StringBuilder-><init>', 'Ljava/lang/StringBuilder->append', 'Ljava/lang/
StringBuilder->append', 'Ljava/lang/StringBuilder->toString', 'Lorg/xmlpull/v1/XmlPullParserException-><
init>', 'Ljava/lang/StringBuffer-><init>', 'Ljava/util/Vector->size', 'Ljava/util/Vector->elementAt', 'Ljava/
lang/Class->newInstance', 'Ljava/util/Hashtable->keys', 'Ljava/util/Enumeration->hasMoreElements', 'Ljava/util
/Enumeration->nextElement', 'Ljava/util/Hashtable->get', 'Ljava/lang/Boolean->booleanValue', 'Lorg/xmlpull/v1/
XmlPullParser->setFeature', 'Ljava/lang/StringBuilder-><init>', 'Ljava/lang/Class->getName', 'Ljava/lang/
StringBuilder->append', 'Ljava/lang/StringBuilder->append', 'Ljava/lang/Exception->toString', 'Ljava/lang/
StringBuilder->append', 'Ljava/lang/StringBuilder->append', 'Ljava/lang/StringBuilder->toString', 'Ljava/lang/
StringBuffer->append', 'Ljava/lang/StringBuilder-><init>', 'Ljava/lang/StringBuilder->append', 'Ljava/lang/
StringBuilder->append', 'Ljava/lang/StringBuilder->toString', 'Lorg/xmlpull/v1/XmlPullParserException-><
init>']
return_value=Lorg/xmlpull/v1/XmlPullParser;
```

上图所示的 calling_to 即该 apk 源程序的方法中的 api 调用，如 Ljava/lang/StringBuilder-><init>表示的是 java/lang/StringBuilder 这个类调用了他的初始化 init 方法。将提取的 calling_to 方法与 Pscout 敏感 api 库进行匹配，得到匹配结果。

1）Api 提取截图（部分）

```
class_name = self.get_class_name(content=content)
methods = self.get_methods(content=content)
# add methods to db
for method in methods:
    method_name = method[0].split(' ')[-1]
    method_parameters = method[1]
    method_return_value = method[2]
    method_data = method[3]
    if class_name.startswith("LAndroid"):
        class_name = "La" + class_name[2:]
    method_id = '%s->%s' % (class_name, method_name)
    called_methods = self.get_called_methods(content=method_data)
    # method_calling_to = ''
    method_calling_to = []

    for called_method in called_methods:
        # method_calling_to = '%s%s->%s,' % (method_calling_to, called_m
        if (called_method[1].startswith("LAnd")):
            c1 = "La" + called_method[1][2:]
        else:
            c1 = called_method[1]
        called_mt = '%s->%s' % (c1, called_method[2])
        method_calling_to.append(called_mt)
```

2）模式匹配截图（部分）

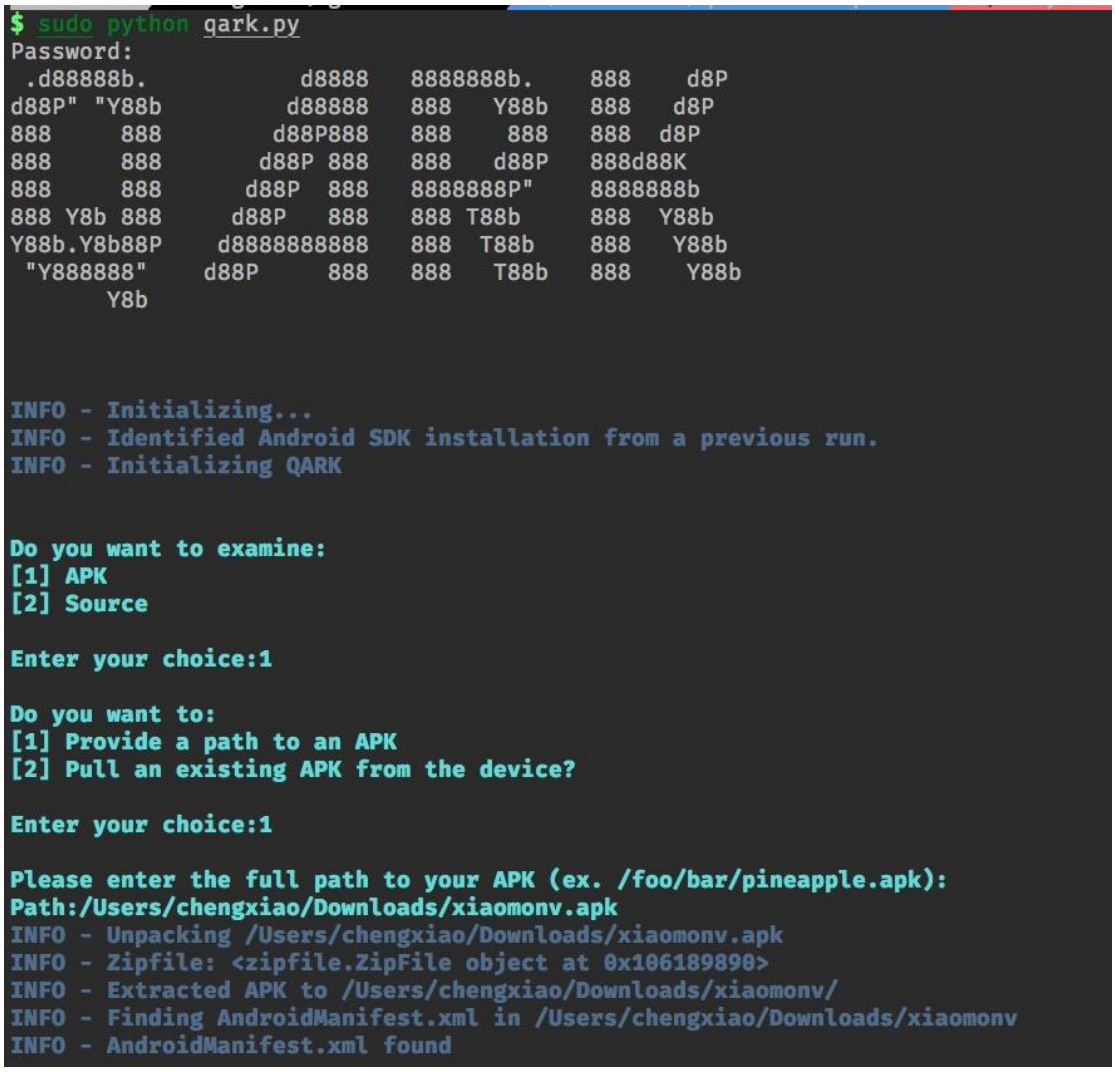
```
def readCSV(csvfilepath):
    result = set()
    with open(csvfilepath, 'r') as f:
        reader = csv.reader(f)
        for item in reader:
            if reader.line_num == 1:
                continue

            result.add("L{}->{}".format(item[0], item[1]))
    return result
```

```
result = []
for i in ares:
    for j in i["calling_to"]:
        if j in apisample:
            result.append(tuple([i["id"],j]))
```

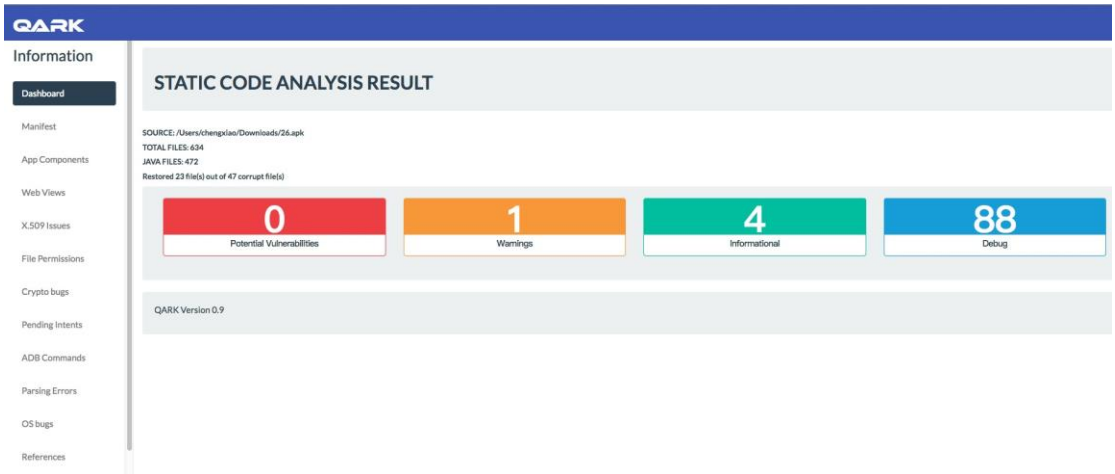
1.2 使用 qark（https://github.com/linkedin/qark）工具对待分析 apk 进行漏洞自动化分析

此工具旨在查找源代码或打包的 APK 中的几个与安全相关的 Android 应用程序漏洞。该工具还能够创建“概念验证”可部署的 APK 和/或 ADB 命令，能够利用它发现的许多漏洞。无需根测试设备，因为此工具专注于可在其他安全条件下利用的漏洞。

1）运行截图：



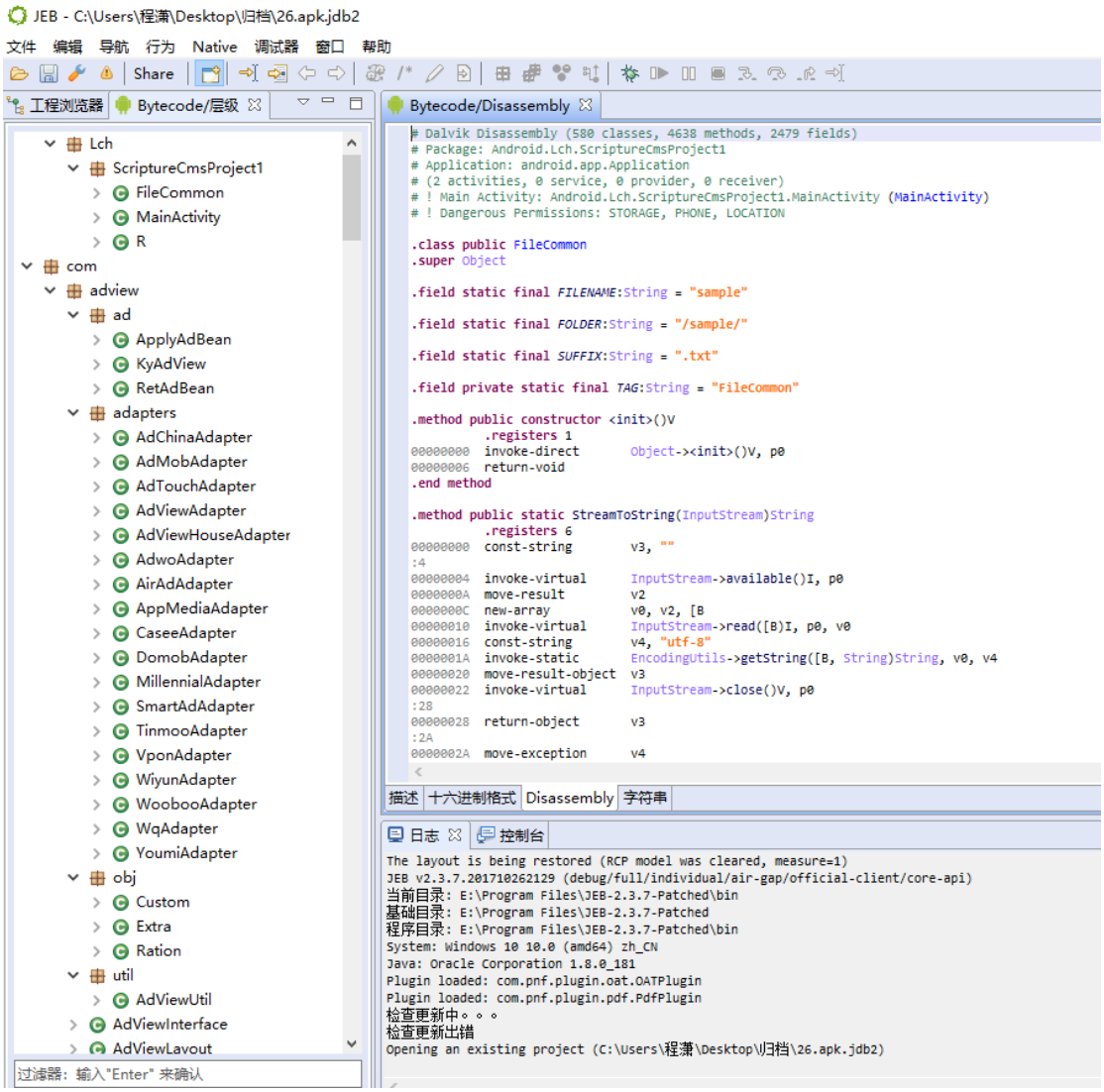
2）检测结果



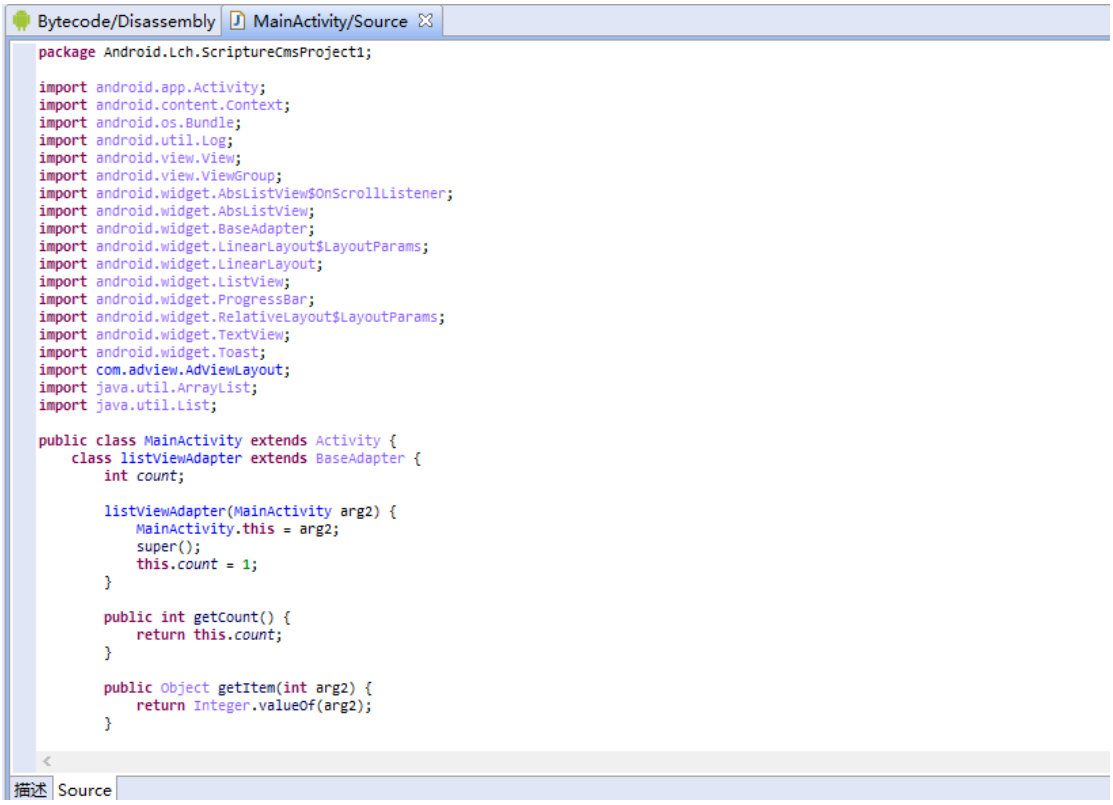
1.3 使用 jeb 分析源程序

JEB 是我们的逆向工程平台，可以手动或作为分析管道的一部分执行代码和文档文件的反汇编，反编译，调试和分析。

1）运行截图


JEB - C:\Users\程潇\Desktop\归档\26.apk.jdb2
文件 编辑 导航 行为 Native 调试器 窗口 帮助
Share
工程浏览器
Bytecode/层级
Lch
ScriptureCmsProject1
FileCommon
MainActivity
R
com
adview
ad
ApplyAdBean
KyAdView
RetAdBean
adapters
AdChinaAdapter
AdMobAdapter
AdTouchAdapter
AdViewAdapter
AdViewHouseAdapter
AdwoAdapter
AirAdAdapter
AppMediaAdapter
CaseeAdapter
DomobAdapter
MillennialAdapter
SmartAdAdapter
TinmooAdapter
VponAdapter
WiyunAdapter
WoobooAdapter
WqAdapter
YoumiAdapter
obj
Custom
Extra
Ration
util
AdViewUtil
AdViewInterface
AdViewLayout
过滤器: 输入"Enter" 来确认
Bytecode/Disassembly
Dalvik Disassembly (580 classes, 4638 methods, 2479 fields)
Package: Android.Lch.ScriptureCmsProject1
Application: android.app.Application
(2 activities, 0 service, 0 provider, 0 receiver)
! Main Activity: Android.Lch.ScriptureCmsProject1.MainActivity (MainActivity)
! Dangerous Permissions: STORAGE, PHONE, LOCATION
.class public FileCommon
.super Object
.field static final FILENAME:String = "sample"
.field static final FOLDER:String = "/sample/"
.field static final SUFFIX:String = ".txt"
.field private static final TAG:String = "FileCommon"
.method public constructor <init>()V
.registers 1
00000000 invoke-direct Object-><init>()V, p0
00000006 return-void
.end method
.method public static StreamToString(InputStream)String
.registers 6
00000000 const-string v3, ""
:4
00000004 invoke-virtual InputStream->available()I, p0
0000000A move-result v2
0000000C new-array v0, v2, [B
00000010 invoke-virtual InputStream->read([B)I, p0, v0
00000016 const-string v4, "utf-8"
0000001A invoke-static EncodingUtils->getString([B, String)String, v0, v4
00000020 move-result-object v3
00000022 invoke-virtual InputStream->close()V, p0
:28
00000028 return-object v3
:2A
0000002A move-exception v4
描述 十六进制格式 Disassembly 字符串
日志
控制台
The layout is being restored (RCP model was cleared, measure=1)
JEB v2.3.7.201710262129 (debug/full/individual/air-gap/official-client/core-api)
当前目录: E:\Program Files\JEB-2.3.7-Patched\bin
基础目录: E:\Program Files\JEB-2.3.7-Patched
程序目录: E:\Program Files\JEB-2.3.7-Patched\bin
System: Windows 10 10.0 (amd64) zh_CN
Java: Oracle Corporation 1.8.0_181
Plugin loaded: com.pnf.plugin.oat.OATPlugin
Plugin loaded: com.pnf.plugin.pdf.PdfPlugin
检查更新中。。。
检查更新出错
Opening an existing project (C:\Users\程潇\Desktop\归档\26.apk.jdb2)

2）反编译结果



检测报告

应用编号：26

应用名称：ScriptureCmsProject1
应用版本：1.0
应用签名信息：

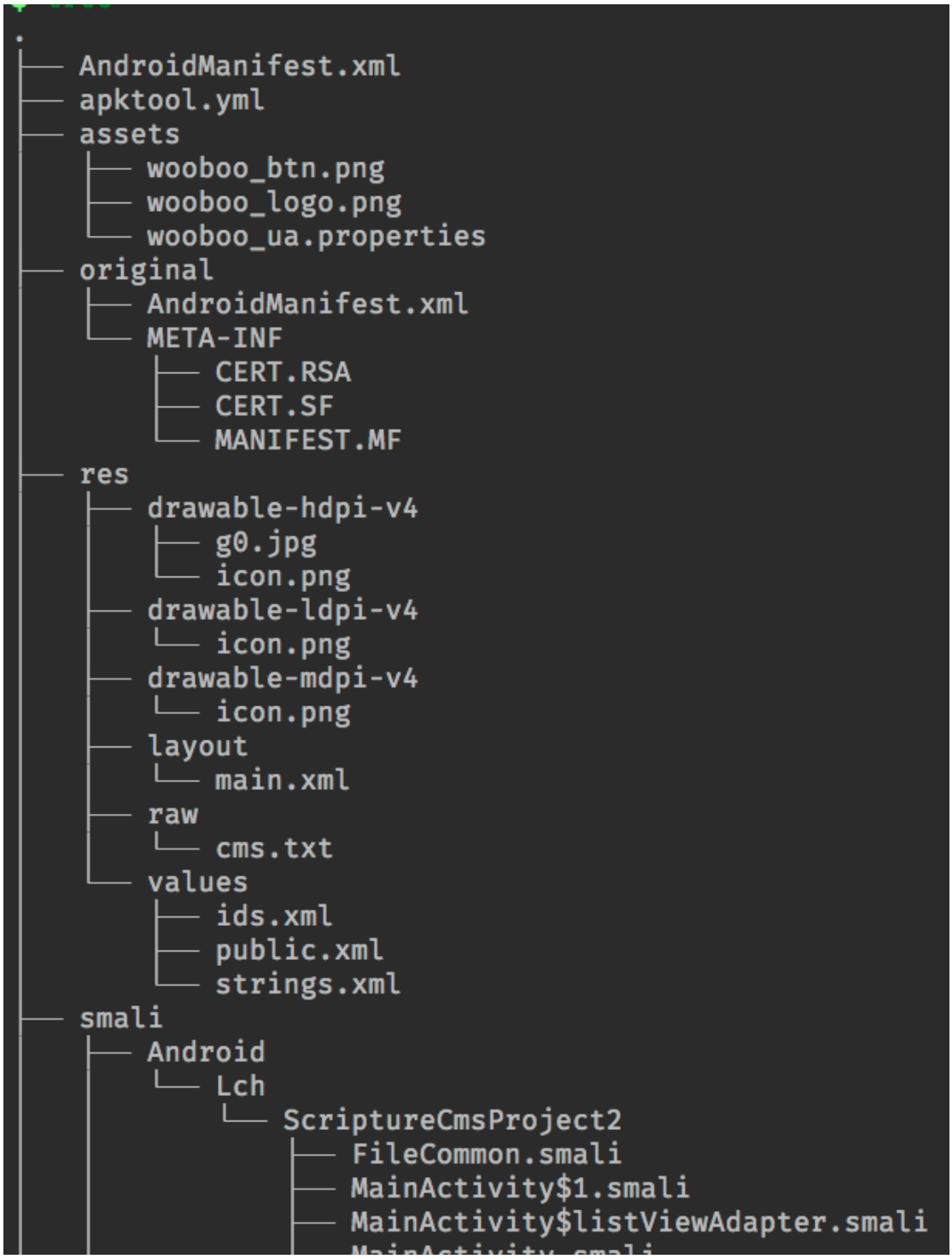
Key	Value
Type	X.509
Version	3
Serial Number	0x4e5dd3dc
Subject	CN=LEE, OU=恒云科技, O=恒云科技, L=puer, ST=yunnan, C=676200
Validity	
From	Wed Aug 31 14:25:32 CST 2011
To	Fri Aug 23 14:25:32 CST 2041
Public Key	
Type	RSA 1024 bits
Exponent	65537
Modulus	10141952965670276272230993240146500028511675689449349
Signature	
Type	SHA1withRSA
OID	1.2.840.113549.1.1.5
HexData	79 20 2F 75 B1 1A E0 69 62 15 30 A8 2A 27 DF DA 3D 65 C1 03 87 EA
Fingerprints	
MD-5	38 36 2A F3 D4 23 FB 3F 11 5E B1 2C E4 76 54 32
SHA-1	63 27 E6 E1 41 E3 2A 4B 1C D6 A5 C9 AA 41 09 99 24 C0 71 17
SHA-256	50 01 09 F2 C7 6E 9F 34 16 0F 76 5C 54 4C B7 5B DD B9 DA 40 C4 C6

程序图标：

使用 apktool 工具对程序进行反编译：

```
$ apktool d 26.apk
I: Using Apktool 2.3.4 on 26.apk
I: Loading resource table...
I: Decoding AndroidManifest.xml with resources...
S: WARNING: Could not write to (/Users/chengxiao/Library/apktool/framework), using /var/folders/l2/x57w_s3d5cs7flr4_zs14s600000gp/T/ instead...
S: Please be aware this is a volatile directory and frameworks could go missing, please utilize --frame-path if the default storage directory is unavailable
I: Loading resource table from file: /var/folders/l2/x57w_s3d5cs7flr4_zs14s600000gp/T/1.apk
I: Regular manifest package...
I: Decoding file-resources...
I: Decoding values */* XMLs...
I: Baksmaling classes.dex...
I: Copying assets and libs...
I: Copying unknown files...
I: Copying original files...
```

目录结构：



Manifest.xml 文件分析：

应用权限：

<uses-permission android:name="android.permission.INTERNET"/>

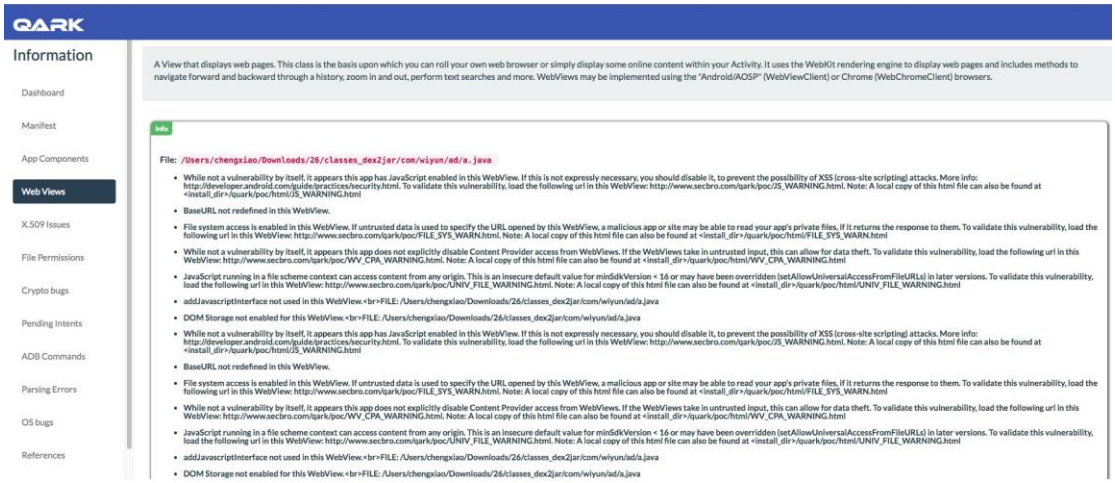
<uses-permission android:name="android.permission.ACCESS_NETWORK_STATE"/>

<uses-permission android:name="android.permission.READ_PHONE_STATE"/>

<uses-permission android:name="android.permission.ACCESS_WIFI_STATE"/>

<uses-permission

android:name="android.permission.WRITE_EXTERNAL_STORAGE"/>
<uses-permission
android:name="android.permission.ACCESS_COARSE_LOCATION"/>
<uses-permission
android:name="android.permission.ACCESS_FINE_LOCATION"/>
该应用会读取用户的手机信息，访问电话状态，包括设备的电话号码，当前的蜂窝网络信息，任何正在进行的呼叫的状态以及设备上注册的任何 PhoneAccounts 列表。可能会窃取用户的手机号、注册信息，可能会监听用户的呼叫记录。
该应用会读取用户的精确的物理位置信息，可能会窃取用户的所在位置信息。
1)扫描解析出的所有 smali 文件中的调用 api 序列，与 PScout 比对：
敏感 api 命中总数 731，详细 api 列表见附录。
2)qark 分析结果



3) jeb 分析结果

```
public void onCreate(Bundle arg12) {
    super.onCreate(arg12);
    this.SplitList(FileCommon.StreamToString(this.getResources().openRawResource(0x7F040000)));
    this.setContentView(0x7F030000);
    View v0 = this.findViewById(0x7F060003);
    ((LinearLayout)v0).addView(new AdViewLayout(((Activity)this), "SDK20111031320817goskybxqxnayg0r"), new RelativeLayout$LayoutParams(0xFFFFFFFF, 0xFFFFFFFE));
```

在主页布局中加入了一个广告窗口。

```
this.keyDev = new String("000000000000000");
this.typeDev = new String("SDK");
this.osVer = new String("2.1-update1");
this.resolution = new String("320*480");
this.servicePro = new String("46000");
this.netType = new String("2G/3G");
this.channel = new String("unknown");
this.platform = new String("android");
```

该广告窗口模拟了该机的网络状态信息，会误导用户误触。

```
private void getAppInfo(Context arg11) {
    String v9 = " ";
    String v8 = "";
    if(arg11 != null) {
        Object v4 = arg11.getSystemService("phone");
        if(arg11 != null) {
            this.keyDev = new String(((TelephonyManager)v4).getDeviceId());
            this.typeDev = new String(Build.MODEL);
            this.typeDev = this.typeDev.replaceAll(v9, v8);
            this.osVer = new String(Build$VERSION.RELEASE);
            this.osVer = this.osVer.replaceAll(v9, v8);
```

该广告会捕捉用户的电话信息，并试图拨打电话。

```
static {
    AdViewUtil.urlImpression = "http://www.adview.cn/agent/agent2.php?appid=%s&nid=%s&type=%d&uuid=%s&country_code=%s&appver=%d&client=0";
    AdViewUtil.urlClick = "http://www.adview.cn/agent/agent3.php?appid=%s&nid=%s&type=%d&uuid=%s&country_code=%s&appver=%d&client=0";
    AdViewUtil.appReport = "http://www.adview.cn/agent/appReport.php?keyAdView=%s&keyDev=%s&typeDev=%s&osVer=%s&resolution=%s&servicePro=%s&netType=%s&channel=%s&platform=%s";
}
```

若用户点击该广告，会跳转至广告网页。

应用编号：27

应用名称：ScriptureCmsProject2
应用版本：1.0
应用签名信息：

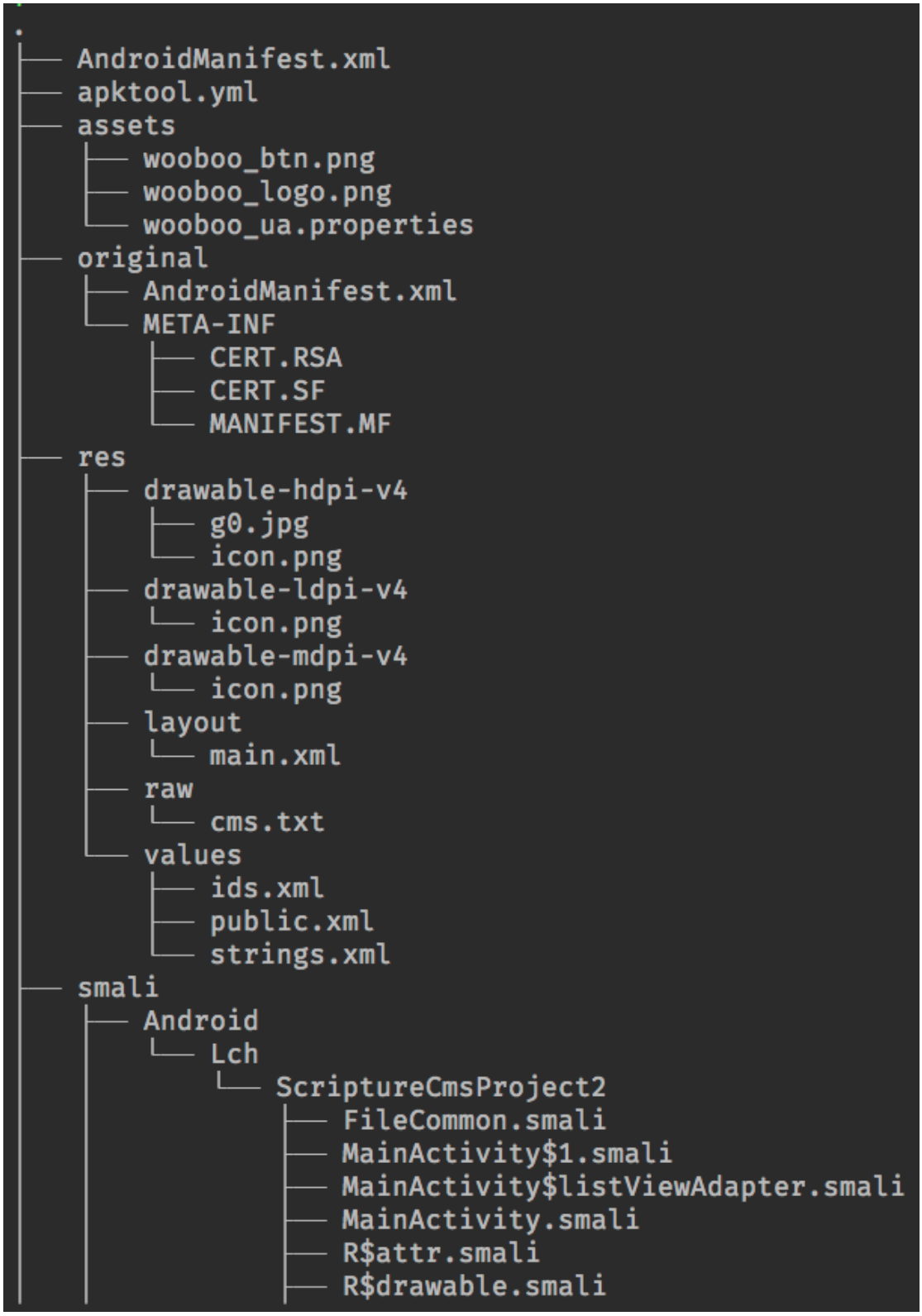
Key	Value
Type	X.509
Version	3
Serial Number	0x4e61ba33
Subject	CN=LEE, OU=恒云科技, O=恒云科技, L=puer, ST=yunnan, C=676200
Validity	
From	Sat Sep 03 13:25:07 CST 2011
To	Mon Aug 26 13:25:07 CST 2041
Public Key	
Type	RSA 1024 bits
Exponent	65537
Modulus	9150009270672858298359632127726221437790631829997073216536
Signature	
Type	SHA1withRSA
OID	1.2.840.113549.1.1.5
HexData	39 DE 2D 02 05 F3 BF A3 61 B0 36 47 74 97 50 B7 90 45 1D D3 9B F1
Fingerprints	
MD-5	A6 A3 39 39 13 86 36 DF 77 C2 54 E5 4A C0 72 30
SHA-1	D5 0A EE 1A 88 D5 6B CF D9 9A 36 27 C3 DC C0 B3 7A 3B 0F DF
SHA-256	04 76 30 3C 5C 95 39 98 E6 0B E2 65 1A 2A CC 84 03 8B 27 6E 99 62

程序图标：

使用 apktool 工具对程序进行反编译：

```
I: Using Apktool 2.3.4 on 27.apk
I: Loading resource table...
I: Decoding AndroidManifest.xml with resources...
S: WARNING: Could not write to (/Users/chengxiao/Library/apktool/framework), using /var/folders/l2/x57w_s3d5cs7flr4_zs14s600000gp/T/ instead...
S: Please be aware this is a volatile directory and frameworks could go missing, please utilize --frame-path if the default storage directory is unavailable
I: Loading resource table from file: /var/folders/l2/x57w_s3d5cs7flr4_zs14s600000gp/T/1.apk
I: Regular manifest package...
I: Decoding file-resources...
I: Decoding values */* XMLs...
I: Baksmaling classes.dex...
I: Copying assets and libs...
I: Copying unknown files...
I: Copying original files...
```

目录结构：



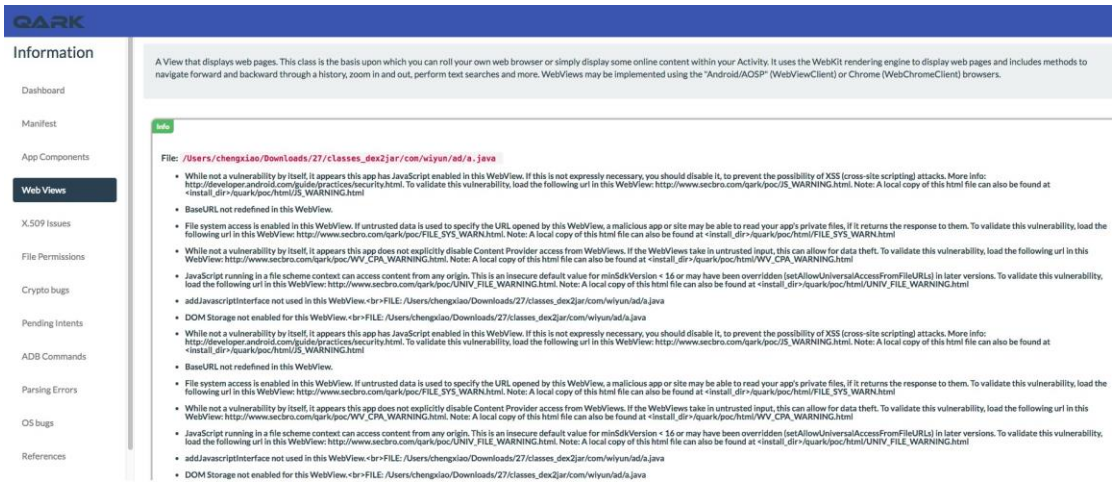
Manifest.xml 文件分析：

应用权限：

<uses-permission android:name="android.permission.INTERNET"/>

<uses-permission

android:name="android.permission.ACCESS_NETWORK_STATE"/>
<uses-permission android:name="android.permission.READ_PHONE_STATE"/>
<uses-permission android:name="android.permission.ACCESS_WIFI_STATE"/>
<uses-permission
android:name="android.permission.WRITE_EXTERNAL_STORAGE"/>
<uses-permission
android:name="android.permission.ACCESS_COARSE_LOCATION"/>
<uses-permission
android:name="android.permission.ACCESS_FINE_LOCATION"/>
该应用会读取用户的手机信息，访问电话状态，包括设备的电话号码，当前的蜂窝网络信息，任何正在进行的呼叫的状态以及设备上注册的任何 PhoneAccounts 列表。可能会窃取用户的手机号、注册信息，可能会监听用户的呼叫记录。
该应用会读取用户的精确的物理位置信息，可能会窃取用户的所在位置信息。
1)扫描解析出的所有 smali 文件中的调用 api 序列，与 PScout 比对：
敏感 api 命中总数 731，详细 api 列表见附录。
2)qark 分析结果



3) jeb 分析结果

```
public void onCreate(Bundle arg12) {
    super.onCreate(arg12);
    this.SplitList(FileCommon.StreamToString(this.getResources().openRawResource(0x7F040000)));
    this.setContentView(0x7F030000);
    View v0 = this.findViewById(0x7F060003);
    ((LinearLayout)v0).addView(new AdViewLayout(((Activity)this), "SDK20111031320817goskybxqxnayg0r"), new RelativeLayout$LayoutParams(0xFFFFFFFF, 0xFFFFFFFE));
```

在主页布局中加入了一个广告窗口。

```
this.keyDev = new String("000000000000000");
this.typeDev = new String("SDK");
this.osVer = new String("2.1-update1");
this.resolution = new String("320*480");
this.servicePro = new String("46000");
this.netType = new String("2G/3G");
this.channel = new String("unknown");
this.platform = new String("android");
```

该广告窗口模拟了该机的网络状态信息，会误导用户误触。

```
private void getAppInfo(Context arg11) {
    String v9 = " ";
    String v8 = "";
    if(arg11 != null) {
        Object v4 = arg11.getSystemService("phone");
        if(arg11 != null) {
            this.keyDev = new String(((TelephonyManager)v4).getDeviceId());
            this.typeDev = new String(Build.MODEL);
            this.typeDev = this.typeDev.replaceAll(v9, v8);
            this.osVer = new String(Build$VERSION.RELEASE);
            this.osVer = this.osVer.replaceAll(v9, v8);
```

该广告会捕捉用户的电话信息，并试图拨打电话。

```
static {
    AdViewUtil.urlImpression = "http://www.adview.cn/agent/agent2.php?appid=%s&nid=%s&type=%d&uuid=%s&country_code=%s&appver=%d&client=0";
    AdViewUtil.urlClick = "http://www.adview.cn/agent/agent3.php?appid=%s&nid=%s&type=%d&uuid=%s&country_code=%s&appver=%d&client=0";
    AdViewUtil.appReport = "http://www.adview.cn/agent/appReport.php?keyAdView=%s&keyDev=%s&typeDev=%s&osVer=%s&resolution=%s&servicePro=%s&netType=%s&channel=%s&platform=%s";
}
```

若用户点击该广告，会跳转至广告网页。

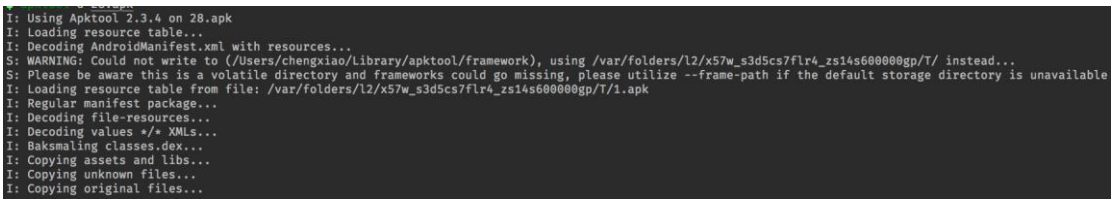
应用编号：28

应用名称：Android.TxtReader
应用版本：1.0
应用签名信息：

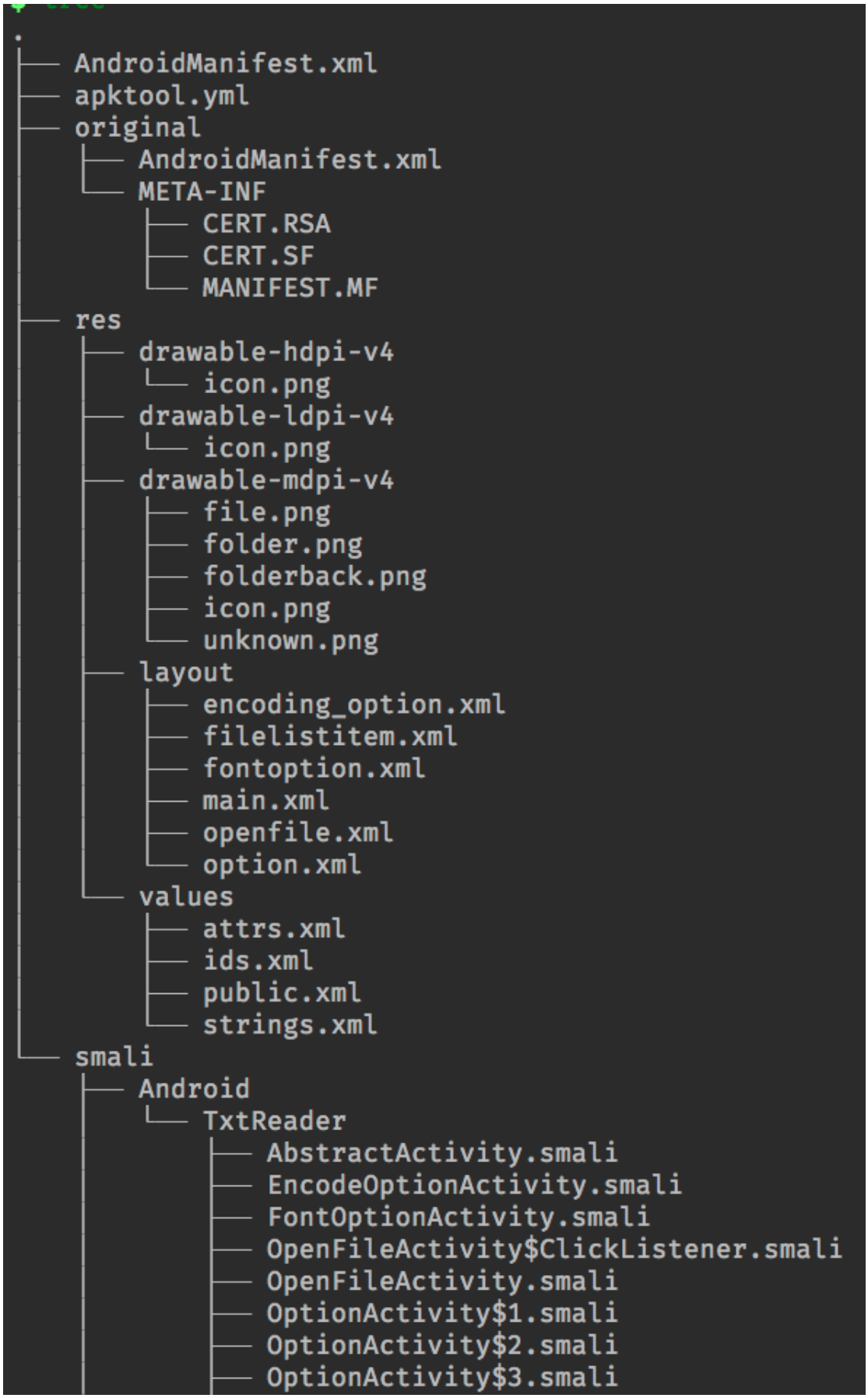
Key	Value
Type	X.509
Subject	CN=Xiaopeng Yu, O=Personal, L=Tokyo, ST=Japan, C=81
Version	3
Serial Number	0x4dd9fd17
Validity	
From	Mon May 23 14:22:15 CST 2011
To	Fri May 16 14:22:15 CST 2036
Public Key	
Type	RSA 1024 bits
Modulus	9939437858214741324622821147090637785095537588600036384266
Exponent	65537
Signature	
Type	SHA1withRSA
HexData	50 0A BD 31 A5 79 42 DC 7D 02 08 A9 49 63 83 FE 54 57 22 A8 CE 32
OID	1.2.840.113549.1.1.5
Fingerprints	
SHA-1	E0 68 66 01 89 76 DF 1E A3 94 AE B2 3B 94 3D 7F 56 3B DB 5C
SHA-256	99 AF 0D D6 8B 15 55 67 62 A1 B6 74 CE AB 05 54 1C 3A 4A EC 0F BI
MD-5	4F A6 AE 78 9A D9 D9 0E 4C D6 61 37 B3 92 FF 3D

程序图标：

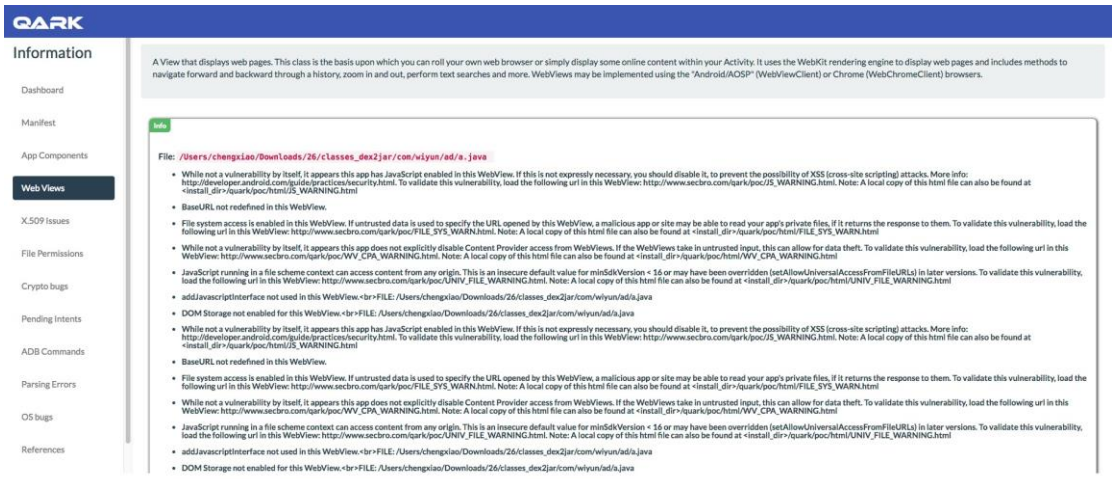
使用 apktool 工具对程序进行反编译：



目录结构：


.
AndroidManifest.xml
apktool.yml
original
AndroidManifest.xml
META-INF
CERT.RSA
CERT.SF
MANIFEST.MF
res
drawable-hdpi-v4
icon.png
drawable-ldpi-v4
icon.png
drawable-mdpi-v4
file.png
folder.png
folderback.png
icon.png
unknown.png
layout
encoding_option.xml
filelistitem.xml
fontoption.xml
main.xml
openfile.xml
option.xml
values
attrs.xml
ids.xml
public.xml
strings.xml
smali
Android
TxtReader
AbstractActivity.smali
EncodeOptionActivity.smali
FontOptionActivity.smali
OpenFileActivity$ClickListener.smali
OpenFileActivity.smali
OptionActivity$1.smali
OptionActivity$2.smali
OptionActivity$3.smali

Manifest.xml 文件分析：
应用权限：
<uses-permission android:name="android.permission.INTERNET"/>
<uses-permission android:name="android.permission.READ_PHONE_STATE"/>
<uses-permission
android:name="android.permission.ACCESS_NETWORK_STATE"/>
<uses-permission
android:name="android.permission.WRITE_EXTERNAL_STORAGE"/>
<uses-permission
android:name="android.permission.ACCESS_FINE_LOCATION"/>
该应用会读取用户的手机信息，访问电话状态，包括设备的电话号码，当前的蜂窝网络信息，任何正在进行的呼叫的状态以及设备上注册的任何 PhoneAccounts 列表。可能会窃取用户的手机号、注册信息，可能会监听用户的呼叫记录。
该应用会读取用户的精确的物理位置信息，可能会窃取用户的所在位置信息。
1)扫描解析出的所有 smali 文件中的调用 api 序列，与 PScout 比对：
敏感 api 命中总数 394，详细 api 列表见附录。
2)qark 分析结果



3) jeb 分析结果

```
import net.youmi.android.AdManager;

public class TxtReader extends AbstractActivity {
    class SaveBookmarkTask extends TimerTask {
        SaveBookmarkTask(TxtReader arg1) {
            TxtReader.this = arg1;
            super();
        }
```

该程序潜入了 youmi 广告的 sdk

附录：

敏感 api 列表(对于列表的每一个二元组，第一项为 apk 中的调用方法，第二项为该方法中调用的敏感 api)

26. apk

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27. apk

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('Lnet/youmi/android/g->Ljava/io/File;->exists',
'Landroid/widget/TextView->setText'), ('Lnet/youmi/android/h->a',
'Landroid/widget/RelativeLayout$LayoutParams-><init>'),
('Lnet/youmi/android/h->a',
'Landroid/widget/RelativeLayout$LayoutParams-><init>'),
('Lnet/youmi/android/h->a',
'Landroid/widget/RelativeLayout$LayoutParams-><init>'),
('Lnet/youmi/android/h->b',
'Landroid/widget/RelativeLayout$LayoutParams-><init>'),
('Lnet/youmi/android/h->b',
'Landroid/widget/RelativeLayout$LayoutParams-><init>'),
('Lnet/youmi/android/h->c',
'Landroid/widget/RelativeLayout$LayoutParams-><init>'),
('Lnet/youmi/android/k->a',
'Landroid/content/pm/PackageManager->getPackageArchiveInfo'),
('Lnet/youmi/android/l-><init>', 'Landroid/widget/RelativeLayout-><init>'),
('Lnet/youmi/android/l-><init>',
```

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'Landroid/widget/RelativeLayout$LayoutParams-><init>'),
('Lnet/youmi/android/q->onClick',
'Landroid/os/Environment->getExternalStorageDirectory'),
('Lnet/youmi/android/r->a',          'Landroid/app/PendingIntent->getActivity'),
('Lnet/youmi/android/r->a',                  'Landroid/app/Notification-><init>'),
('Lnet/youmi/android/r->a',     'Landroid/app/Notification->setLatestEventInfo'),
('Lnet/youmi/android/r->b',         'Landroid/app/NotificationManager->notify'),
('Lnet/youmi/android/r->b',         'Landroid/app/NotificationManager->cancel'),
('Lnet/youmi/android/r->b',         'Landroid/app/NotificationManager->cancel'),
('Lnet/youmi/android/s->a',
'Landroid/net/ConnectivityManager->getActiveNetworkInfo'),
('Lnet/youmi/android/s->b',
'Landroid/net/ConnectivityManager->getActiveNetworkInfo'),
('Lnet/youmi/android/t->onClick',            'Landroid/content/Intent->putExtra'),
('Lnet/youmi/android/t->onClick',            'Landroid/content/Intent->putExtra'),
('Lnet/youmi/android/t->onClick',            'Landroid/content/Intent->putExtra'),
('Lnet/youmi/android/t->onClick',     'Landroid/content/Intent->createChooser'),
('Lnet/youmi/android/t->onClick',            'Landroid/content/Intent->putExtra'),
('Lnet/youmi/android/v->onTouch',
'Landroid/view/GestureDetector->onTouchEvent')]
```

28. apk

```
totallength:394
[('Landroid/TxtReader/AbstractActivity-><init>',  'Landroid/app/Activity-><init>'),
('Landroid/TxtReader/EncodeOptionActivity-><init>',
'Landroid/app/Activity-><init>'),
('Landroid/TxtReader/EncodeOptionActivity->onCheckedChanged',
'Landroid/view/inputmethod/InputMethodManager->hideSoftInputFromWindow'),
('Landroid/TxtReader/EncodeOptionActivity->onCreate',
'Landroid/app/Activity->onCreate'),
('Landroid/TxtReader/EncodeOptionActivity->onCreate',
'Landroid/widget/EditText->setText'),
('Landroid/TxtReader/EncodeOptionActivity->onCreate',
'Landroid/widget/RadioGroup->check'),
('Landroid/TxtReader/EncodeOptionActivity->onCreate',
'Landroid/widget/RadioGroup->check'),
('Landroid/TxtReader/EncodeOptionActivity->onKeyDown',
'Landroid/app/Activity->onKeyDown'),
('Landroid/TxtReader/FontOptionActivity-><init>',
'Landroid/app/Activity-><init>'),
('Landroid/TxtReader/FontOptionActivity->onCreate',
'Landroid/app/Activity->onCreate'),
('Landroid/TxtReader/FontOptionActivity->onCreate',
```

```
'Landroid/widget/EditText->setText'),
('Landroid/TxtReader/FontOptionActivity->onKeyDown',
'Landroid/app/Activity->onKeyDown'),
('Landroid/TxtReader/OpenFileActivity-><init>',  'Landroid/app/Activity-><init>'),
('Landroid/TxtReader/OpenFileActivity->viewFileList',
'Landroid/widget/SimpleAdapter-><init>'),
('Landroid/TxtReader/OpenFileActivity->viewFileList',
'Landroid/widget/ListView->setAdapter'),
('Landroid/TxtReader/OpenFileActivity->viewFileList',
'Landroid/widget/TextView->setText'),
('Landroid/TxtReader/OpenFileActivity->viewFileList',
'Landroid/widget/TextView->setText'),
('Landroid/TxtReader/OpenFileActivity->onCreate',
'Landroid/app/Activity->onCreate'),
('Landroid/TxtReader/OpenFileActivity->onCreate',
'Landroid/widget/TextView->setText'),
('Landroid/TxtReader/OpenFileActivity->onCreate',
'Landroid/widget/SimpleAdapter-><init>'),
('Landroid/TxtReader/OpenFileActivity->onCreate',
'Landroid/widget/ListView->setAdapter'),
('Landroid/TxtReader/OpenFileActivity->onCreate',
'Landroid/widget/TextView->setText'),
('Landroid/TxtReader/OpenFileActivity->onCreate',
'Landroid/widget/TextView->setText'),
('Landroid/TxtReader/OptionActivity$ListItemClickListener->onItemClick',
'Landroid/app/Dialog-><init>'),
('Landroid/TxtReader/OptionActivity$ListItemClickListener->onItemClick',
'Landroid/app/Dialog->setTitle'),
('Landroid/TxtReader/OptionActivity$ListItemClickListener->onItemClick',
'Landroid/app/Dialog->show'),        ('Landroid/TxtReader/OptionActivity-><init>',
'Landroid/app/Activity-><init>'),
('Landroid/TxtReader/OptionActivity->showAutoSaveBookmark',
'Landroid/app/AlertDialog$Builder-><init>'),
('Landroid/TxtReader/OptionActivity->showAutoSaveBookmark',
'Landroid/app/AlertDialog$Builder->setTitle'),
('Landroid/TxtReader/OptionActivity->showAutoSaveBookmark',
'Landroid/app/AlertDialog$Builder->setSingleChoiceItems'),
('Landroid/TxtReader/OptionActivity->showAutoSaveBookmark',
'Landroid/app/AlertDialog$Builder->create'),
('Landroid/TxtReader/OptionActivity->showFileFilterSettingDialog',
'Landroid/app/AlertDialog$Builder-><init>'),
('Landroid/TxtReader/OptionActivity->showFileFilterSettingDialog',
'Landroid/app/AlertDialog$Builder->setTitle'),
('Landroid/TxtReader/OptionActivity->showFileFilterSettingDialog',
```

'Landroid/app/AlertDialog$Builder->setSingleChoiceItems'),
('Landroid/TxtReader/OptionActivity->showFileFilterSettingDialog',
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('Landroid/TxtReader/OptionActivity->showScreenModeSettingDialog',
'Landroid/app/AlertDialog$Builder->setTitle'),
('Landroid/TxtReader/OptionActivity->showScreenModeSettingDialog',
'Landroid/app/AlertDialog$Builder->setSingleChoiceItems'),
('Landroid/TxtReader/OptionActivity->showScreenModeSettingDialog',
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('Landroid/TxtReader/OptionActivity->onCreate',
'Landroid/widget/ListView->setAdapter'),
('Landroid/TxtReader/OptionActivity->onKeyDown',
'Landroid/app/Activity->onKeyDown'),
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'Landroid/widget/TextView->setText'),
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'Landroid/widget/TextView->setTextSize'),
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'Landroid/widget/TextView->setTextSize'),
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'Landroid/widget/TextView->setText'),
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'Landroid/app/AlertDialog$Builder-><init>'),
('Landroid/TxtReader/TxtReader->onOptionsItemSelected',
'Landroid/app/AlertDialog$Builder->setPositiveButton'),
('Landroid/TxtReader/TxtReader->onOptionsItemSelected',
'Landroid/app/AlertDialog$Builder->setTitle'),
('Landroid/TxtReader/TxtReader->onOptionsItemSelected',
'Landroid/app/AlertDialog$Builder->setMessage'),
('Landroid/TxtReader/TxtReader->onOptionsItemSelected',
'Landroid/app/AlertDialog$Builder->create'),
('Landroid/TxtReader/TxtReader->onOptionsItemSelected',
'Landroid/app/Dialog->show'), ('Lcom/gfan/sdk/statistics/Collector$4->onSuccess',
'Landroid/preference/PreferenceManager->getDefaultSharedPreferences'),
('Lcom/gfan/sdk/statistics/Collector->getIMEI',
'Landroid/telephony/TelephonyManager->getDeviceId'),

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('Lcom/gfan/sdk/statistics/Collector->getMetricsd',
'Landroid/view/Display->getMetrics'),
('Lcom/gfan/sdk/statistics/Collector->getSimSerialNumber',
'Landroid/telephony/TelephonyManager->getSimSerialNumber'),
('Lcom/gfan/sdk/statistics/Collector->onPause',
'Landroid/preference/PreferenceManager->getDefaultSharedPreferences'),
('Lcom/gfan/sdk/statistics/Collector->onResume',
'Landroid/preference/PreferenceManager->getDefaultSharedPreferences'),
('Lcom/gfan/sdk/statistics/CommentActivity$1->handleMessage',
'Landroid/app/ProgressDialog-><init>'),
('Lcom/gfan/sdk/statistics/CommentActivity$1->handleMessage',
'Landroid/app/ProgressDialog->setMessage'),
('Lcom/gfan/sdk/statistics/CommentActivity$1->handleMessage',
'Landroid/app/ProgressDialog->show'),
('Lcom/gfan/sdk/statistics/CommentActivity$2$1->onFailed',
'Landroid/widget/Toast->makeText'),
('Lcom/gfan/sdk/statistics/CommentActivity$2$1->onFailed',
'Landroid/widget/Toast->show'),
('Lcom/gfan/sdk/statistics/CommentActivity$2$1->onSuccess',
'Landroid/widget/Toast->makeText'),
('Lcom/gfan/sdk/statistics/CommentActivity$2$1->onSuccess',
'Landroid/widget/Toast->show'),
('Lcom/gfan/sdk/statistics/CommentActivity-><init>',
'Landroid/app/Activity-><init>'),
('Lcom/gfan/sdk/statistics/CommentActivity->newContentView',
'Landroid/widget/RelativeLayout-><init>'),
('Lcom/gfan/sdk/statistics/CommentActivity->newContentView',
'Landroid/widget/RelativeLayout$LayoutParams-><init>'),
('Lcom/gfan/sdk/statistics/CommentActivity->newContentView',
'Landroid/widget/EditText-><init>'),
('Lcom/gfan/sdk/statistics/CommentActivity->newContentView',
'Landroid/widget/RelativeLayout$LayoutParams-><init>'),
('Lcom/gfan/sdk/statistics/CommentActivity->newContentView',
'Landroid/widget/LinearLayout-><init>'),
('Lcom/gfan/sdk/statistics/CommentActivity->newContentView',
'Landroid/widget/RelativeLayout$LayoutParams-><init>'),
('Lcom/gfan/sdk/statistics/CommentActivity->newContentView',
'Landroid/widget/Button-><init>'),
('Lcom/gfan/sdk/statistics/CommentActivity->newContentView',
'Landroid/widget/LinearLayout$LayoutParams-><init>'),
('Lcom/gfan/sdk/statistics/CommentActivity->newContentView',
'Landroid/widget/Button-><init>'),
('Lcom/gfan/sdk/statistics/CommentActivity->newContentView',
'Landroid/widget/LinearLayout$LayoutParams-><init>'),
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('Lcom/gfan/sdk/statistics/CommentActivity->onCreate',
'Landroid/app/Activity->onCreate'),
('Lcom/gfan/sdk/statistics/ConnectDBUtil->AppClear',
'Landroid/database/sqlite/SQLiteDatabase->delete'),
('Lcom/gfan/sdk/statistics/ConnectDBUtil->AppInsert',
'Landroid/database/sqlite/SQLiteDatabase->insert'),
('Lcom/gfan/sdk/statistics/ConnectDBUtil->AppSelect',
'Landroid/database/sqlite/SQLiteDatabase->query'),
('Lcom/gfan/sdk/statistics/ConnectDBUtil->AppSelectClickname',
'Landroid/database/sqlite/SQLiteDatabase->query'),
('Lcom/gfan/sdk/statistics/ConnectDBUtil->AppUpdate',
'Landroid/database/sqlite/SQLiteDatabase->update'),
('Lcom/gfan/sdk/statistics/ConnectDBUtil->BackupAppInfoClear',
'Landroid/database/sqlite/SQLiteDatabase->delete'),
('Lcom/gfan/sdk/statistics/ConnectDBUtil->BackupAppInfoInsert',
'Landroid/database/sqlite/SQLiteDatabase->insert'),
('Lcom/gfan/sdk/statistics/ConnectDBUtil->BackupAppInfoSelect',
'Landroid/database/sqlite/SQLiteDatabase->query'),
('Lcom/gfan/sdk/statistics/ConnectDBUtil->BackupStartInfoClear',
'Landroid/database/sqlite/SQLiteDatabase->delete'),
('Lcom/gfan/sdk/statistics/ConnectDBUtil->BackupStartInfoInsert',
'Landroid/database/sqlite/SQLiteDatabase->insert'),
('Lcom/gfan/sdk/statistics/ConnectDBUtil->BackupStartInfoSelect',
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'Landroid/database/sqlite/SQLiteDatabase->query'),
('Lcom/gfan/sdk/statistics/ConnectDBUtil->ridInsert',
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('Lcom/gfan/sdk/statistics/DatabaseHelper->onUpgrade',
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('Lcom/gfan/sdk/statistics/DatabaseHelper->onUpgrade',
'Landroid/database/sqlite/SQLiteDatabase->execSQL'),
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('Lcom/gfan/sdk/statistics/DatabaseHelper->onUpgrade',
'Landroid/database/sqlite/SQLiteDatabase->execSQL'),
('Lnet/youmi/android/AdActivity-><init>', 'Landroid/app/Activity-><init>'),
('Lnet/youmi/android/AdActivity->a', 'Landroid/content/Intent->putExtra'),
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('Lnet/youmi/android/AdActivity->b', 'Landroid/view/Window->setFlags'),
('Lnet/youmi/android/AdActivity->b', 'Landroid/content/Intent->putExtra'),
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('Lnet/youmi/android/af->a',
'Landroid/widget/RelativeLayout$LayoutParams-><init>'),
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'Landroid/widget/ImageSwitcher->setImageURI'), ('Lnet/youmi/android/ai->a',
'Landroid/view/animation/AnimationSet-><init>'), ('Lnet/youmi/android/ai->a',
'Landroid/view/animation/TranslateAnimation-><init>'),
('Lnet/youmi/android/ai->a', 'Landroid/view/animation/AlphaAnimation-><init>'),
('Lnet/youmi/android/ai->e', 'Landroid/view/animation/AnimationSet-><init>'),
('Lnet/youmi/android/ai->e',
'Landroid/view/animation/TranslateAnimation-><init>'),
('Lnet/youmi/android/ai->e', 'Landroid/view/animation/AlphaAnimation-><init>'),
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('Lnet/youmi/android/ai->g', 'Landroid/view/animation/AlphaAnimation-><init>'),
('Lnet/youmi/android/aq-><init>', 'Landroid/widget/RelativeLayout-><init>'),
('Lnet/youmi/android/aq-><init>', 'Landroid/widget/Button-><init>'),
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('Lnet/youmi/android/as->e',
'Landroid/widget/RelativeLayout$LayoutParams-><init>'),
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('Lnet/youmi/android/at-><init>', 'Landroid/view/View-><init>'),
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('Lnet/youmi/android/av-><init>', 'Landroid/webkit/WebView-><init>'),
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('Lnet/youmi/android/av->a', 'Landroid/app/Activity->setProgressBarVisibility'),
('Lnet/youmi/android/av->a',
'Landroid/app/Activity->setProgressBarIndeterminateVisibility'),
('Lnet/youmi/android/av->a', 'Landroid/app/Activity->setProgress'),
('Lnet/youmi/android/ax->a', 'Landroid/widget/Toast->makeText'),
('Lnet/youmi/android/ax->a', 'Landroid/widget/Toast->show'),
('Lnet/youmi/android/ay->a', 'Landroid/os/Environment->getExternalStorageState'),
('Lnet/youmi/android/ay->a', 'Landroid/os/Environment->getExternalStorageState'),
('Lnet/youmi/android/az->a',
'Landroid/database/sqlite/SQLiteDatabase->openDatabase'),
('Lnet/youmi/android/az->a', 'Landroid/database/sqlite/SQLiteDatabase->query'),
('Lnet/youmi/android/az->a', 'Landroid/webkit/WebView->clearCache'),
('Lnet/youmi/android/bd->a', 'Landroid/content/Intent->putExtra'),
('Lnet/youmi/android/bd->a', 'Landroid/content/Intent->putExtra'),
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('Lnet/youmi/android/br->a', 'Landroid/app/NotificationManager->notify'),
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'Landroid/graphics/drawable/ShapeDrawable-><init>'),
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'Landroid/app/AlertDialog$Builder->setNegativeButton'),
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'Landroid/app/AlertDialog$Builder->setPositiveButton'),
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,                          'Landroid/graphics/drawable/ShapeDrawable-><init>'),
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,                        'Landroid/graphics/drawable/StateListDrawable->addState'),
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'Landroid/telephony/TelephonyManager->getSubscriberId'),
('Lnet/youmi/android/ej-><init>',
'Landroid/telephony/TelephonyManager->getDeviceId'),
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'Landroid/net/ConnectivityManager->getActiveNetworkInfo'),
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('Lnet/youmi/android/s->onClick', 'Landroid/content/Intent->createChooser'),
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