

# 安卓应用安全解析

- 乌云漏洞报告平台核心白帽子

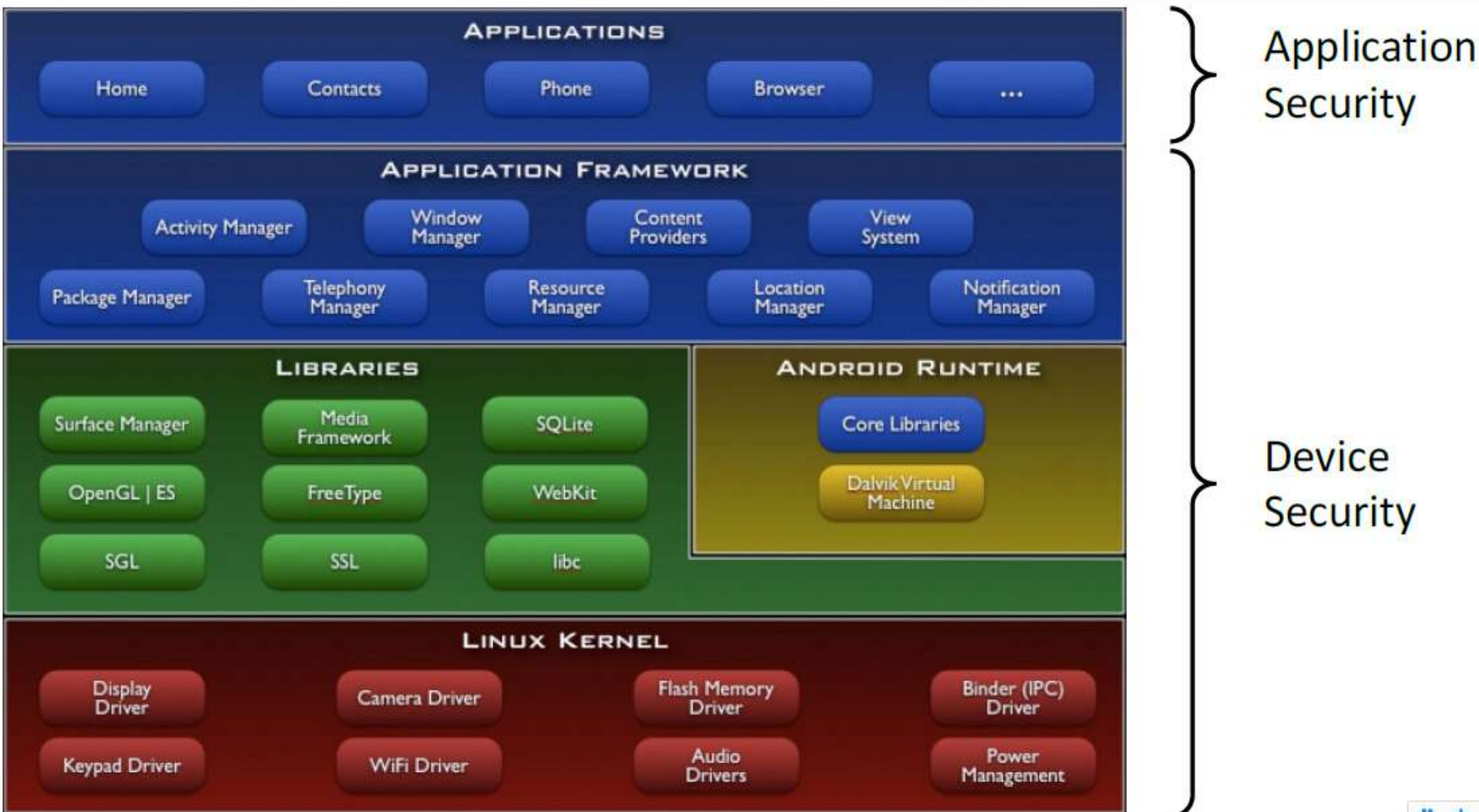
<http://www.wooyun.org/whitehats/瘦蛟舞>

- 乌云知识库资深作者

<http://drops.wooyun.org/author/瘦蛟舞>

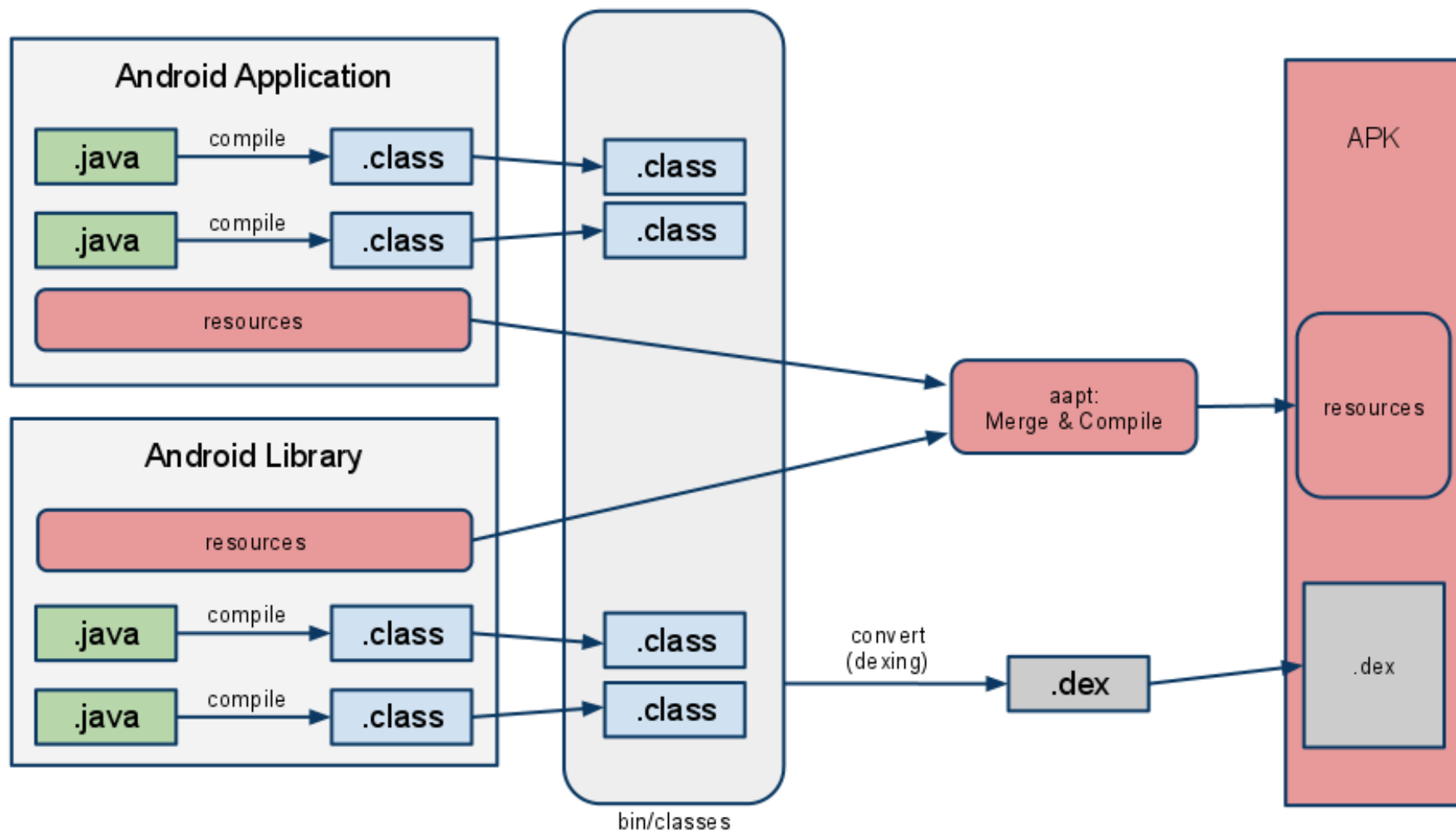
- 互联网安全公司安全研究员

- 主流攻击手法
- 常见漏洞
- 乌云经典案例
- 安全开发小技巧
- 总结



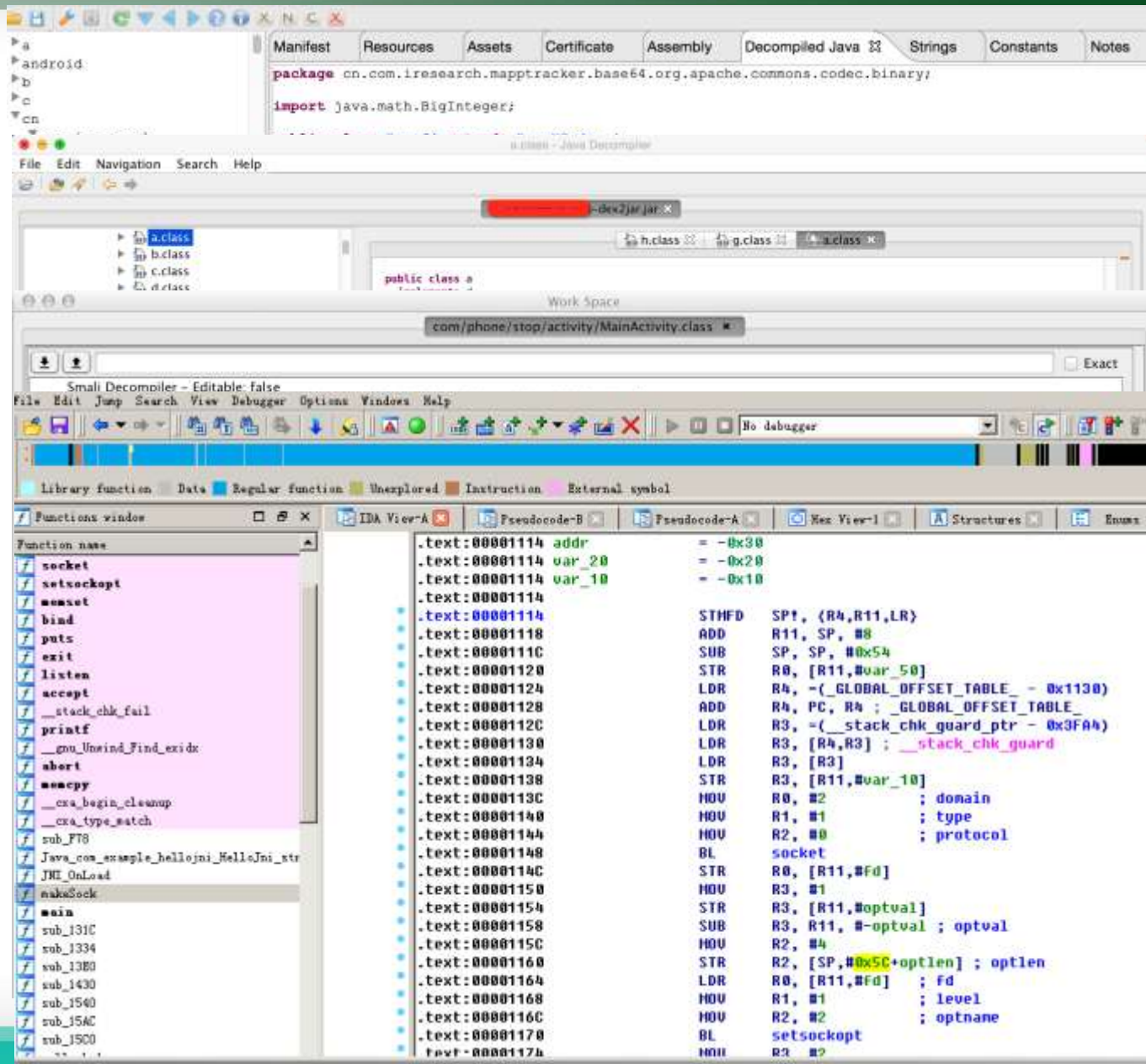
# 安卓平台主流攻击手法

- 逆向反编译
- 代理抓包分析云端 API
- 无源码动态调试
- 插桩
- Hook

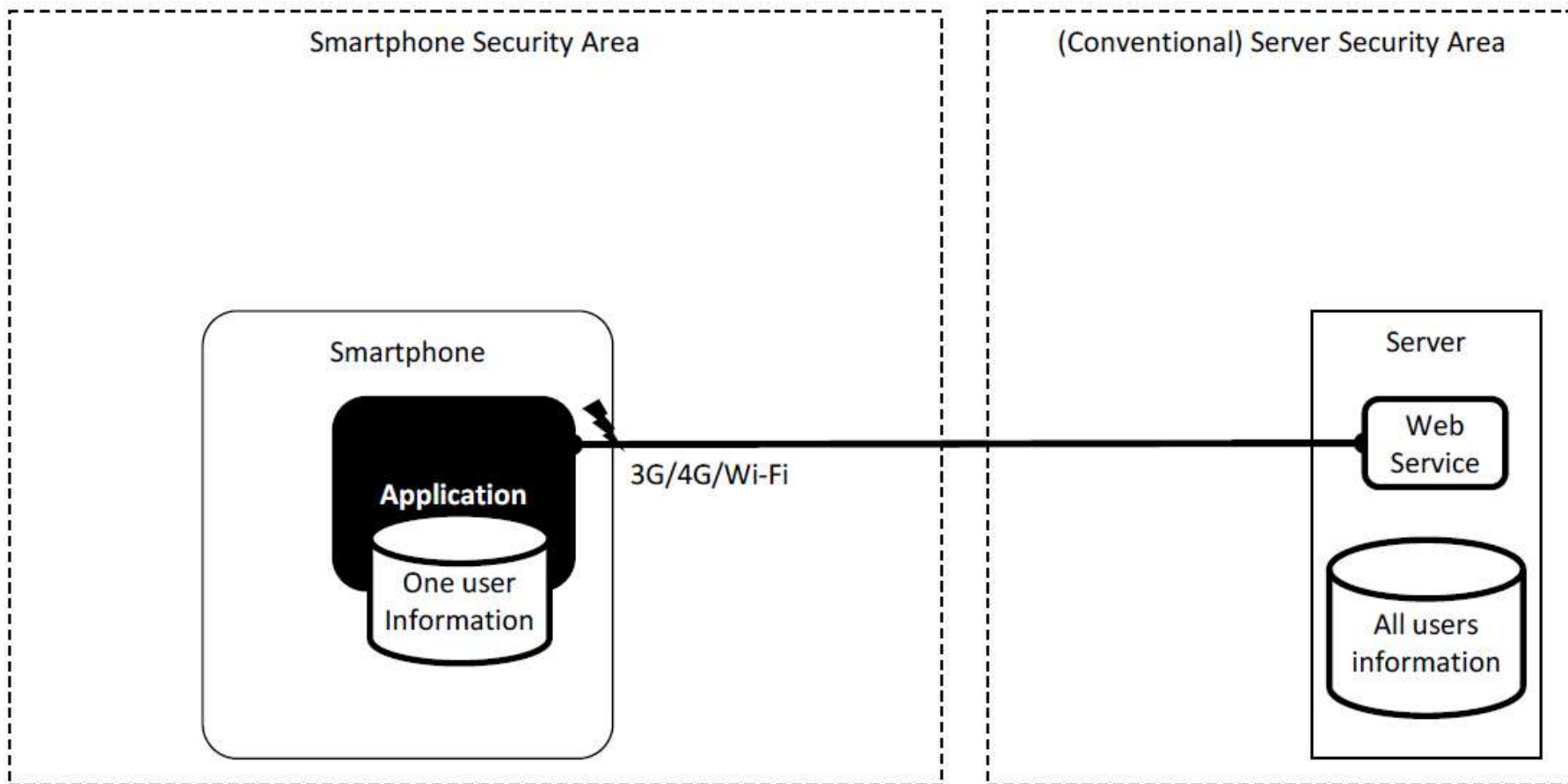




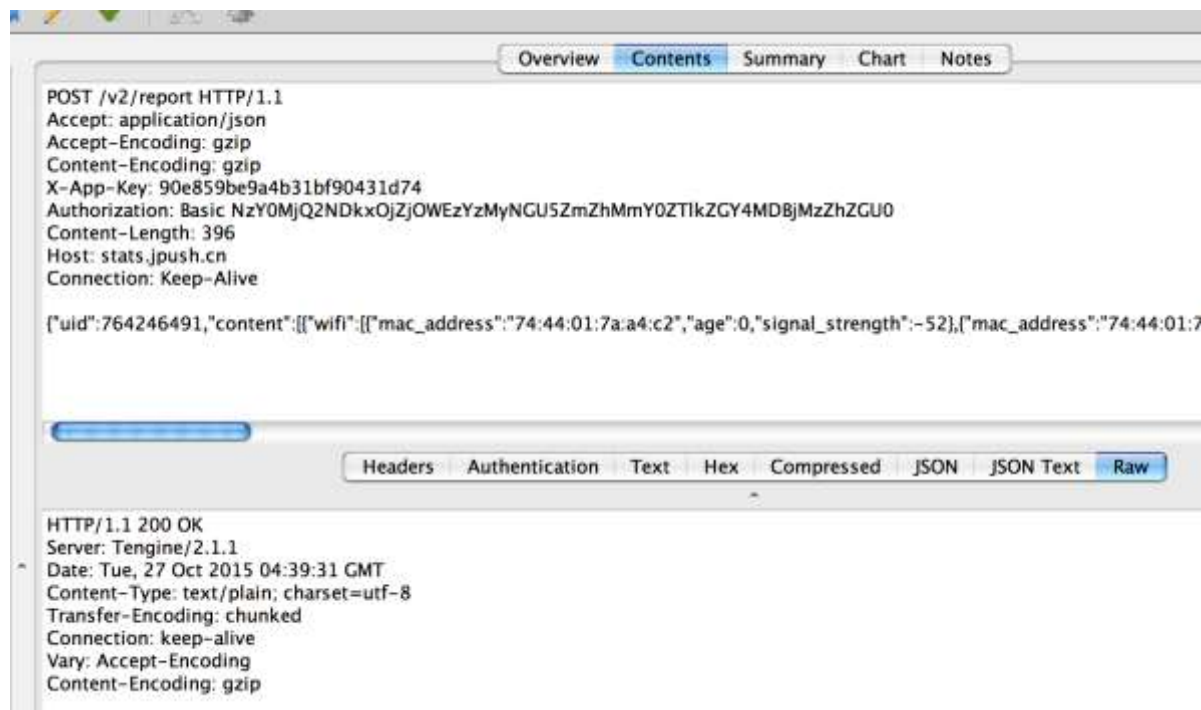
- Smali
- Dex2jar
- Jeb
- IDA
- Enjarify



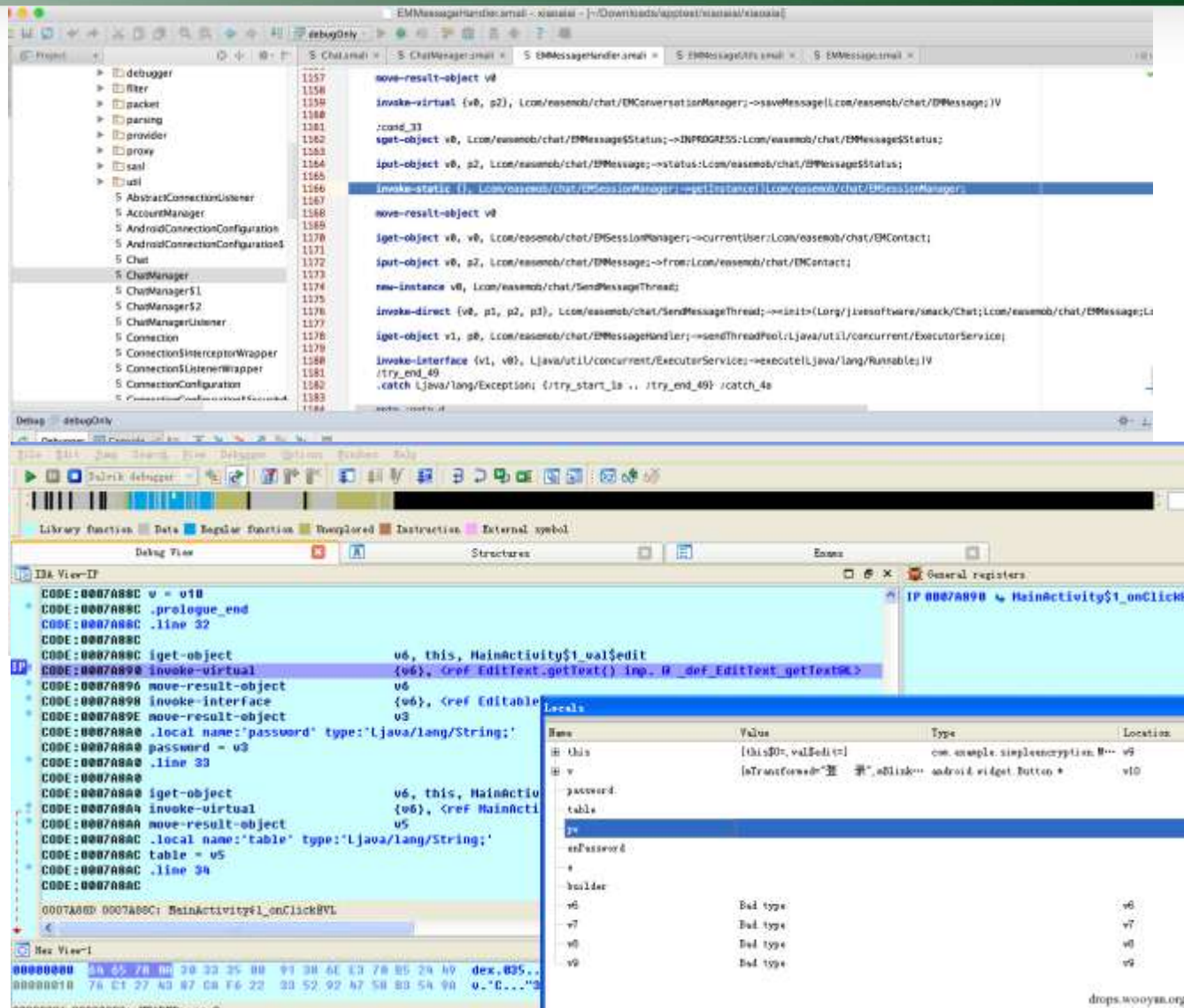




- ProxyDroid
- Charles
- BurpSuite
- WireShark



- Smalidea
- IDA
- Eclipse
- ...



- Xposed
- Cydia
- ADBI

- smali 注入
- dalvik 插桩

# 安卓平台下应用常见漏洞



# Attack surface

- 人禍
- 天災
- <http://zone.wooyun.org/content/19039>



- 权限泄露
- 信息泄露
- 组件安全
- ...
- <http://wiki.wooyun.org/android:client>

- RCE:<http://drops.wooyun.org/webview.html>
- UXSS:<http://uxss.sinaapp.com/index.php>

# 乌云上安卓应用经典漏洞

2.对于漏洞2，通过反编译App并且修改支付金额

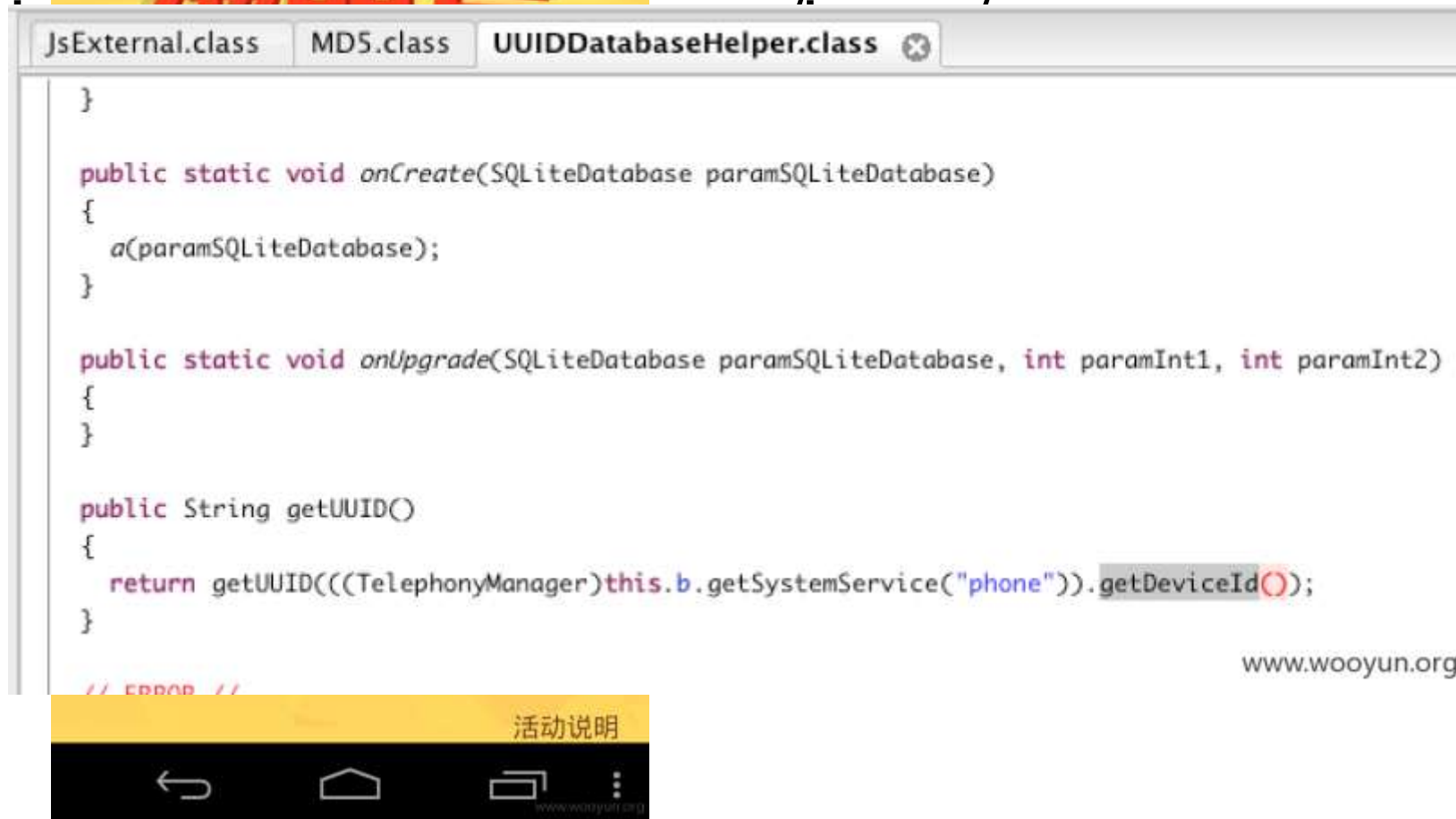
漏洞可以利用

- <http://www.wooyun.org>  
2015.

code 区域

```
public void onClick(View paramView)
{
    if ((isAlipay) || (isHomeInnPay))
    {
        if (paramView.getId() == 2131)
        {
            getActivity().getIntent().putExtra("amount", 1.00);
            while (true)
            {
                ((PaymentOperateActivity)getActivity()).startPayment();
                return;
            }
        }
        getActivity().getIntent().putExtra("amount", 1.00);
    }
    noSupportAlert.show();
}
```







```
→ android-open-port git:(master) X python findPort.py
Base64
CommonParam
DeviceId
MD5
RSA
Util
module
  deep
    a
      b
        c
          d
            e
              f
                From
                  Get
                    Get
                      Get
                        Get
                          List
                            Run
                              a
                                b
                                  c
                                    d
                                      e
                                        f
                                          q
                                            h
                                              i
                                                k
                                                  l
                                push
                                  From
                                    From
                                      From
                                        From
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                                                                                    From
                                                                                                                                                                www.wooyun.org
static {
    a.b = new HashMap();
}
xxx && xxx({"error":0,"cuid":"784D19B3AC0593C86987046F383E9BDC|446513560667853"});
xxx && xxx({"error":0,"coords":{"location":{"accuracy":"154.000000","longitude":"11582882.740260","latitude":"3562624.532277"},"city_code":"75"}});
xxx && xxx({"error":0,"cuid":"1607F2ACFF768A7CB5EEB7DD57F7A2FC|922835150052953"});
xxx && xxx({"error":0,"coords":{"location":{"accuracy":"69.827438","longitude":"13558521.728881","latitude":"3469959.635851"},"city_code":"180"}});
xxx && xxx({"error":0,"cuid":"81E2C1429A333B8AD63E48C8B55522D1|971131720270568"});
xxx && xxx({"error":0,"cuid":"D978A0302B43AF524BF796DB6BFEDA58|576419820773568"});
xxx && xxx({"error":0,"cuid":"FBC323D9300EB1F5837040768635D126|117946320181468"});
xxx && xxx({"error":0,"cuid":"64584C3BE973691309EF92EFEB0FC4D7|769843760290753"});
xxx && xxx({"error":0,"cuid":"B4435D0978E068F2CA9EB80FA4EB875A|699163320518568"});
xxx && xxx({"error":0,"cuid":"1324CDD76A31C11D9E2D5FA155DBC9F5|094873750315753"});
```

登录抓包吧

code 区域

GET /android

Host: dynam

Connection:

Accept-Langu

User-Agent:

修改任意uid即可



我的信息

设置



vip08620  
04



有效期至: 2014-05-12

续费

消费记

消费记录

分享设

分享设置

绑定邮

绑定邮箱

绑定手

绑定手机

修改密

登录后

修改密码

退出登录

# 安全开发小技巧

- 使用第三方安全框架
- 安全配置检测
- 小心使用第三方库/**SDK**/工具类
- 应用初期考虑安全设计
- 定制开发规范
- 系统漏洞规避

- sqlcipher
- secure-preferences

- debug 开关
- proguard 使用
- export 属性
- API 选择
- Backup 属性



- weiboSDK
- Android-PullTo
- Jpush

## 漏洞概要

缺陷编号：**WooYun-2014-52339**

漏洞标题：新浪微博sdk设计缺陷可导致网络传输中窃取敏感信息

相关厂商：**新浪微博**

漏洞作者：**hqdvista**

提交时间：2014-03-20 10:55

## 漏洞概要

缺陷编号：**WooYun-2015-138620**

漏洞标题：极光推送错误实现可能导致某些安全风险

相关厂商：**jpush.cn**

漏洞作者：**么么哒**

提交时间：2015-09-02 15:37

公开时间：2015-12-05 10:29

漏洞类型：远程代码执行

危害等级：低

自评Rank：1

漏洞状态：厂商已经确认

漏洞来源：**<http://www.wooyun.org>**

Tags标签：无

- 传输协议
- 数据加密
- 签名效验

- 测试代码移除logcat 移除
- 测试接口移除
- 最小权限原则
- Don't Copy without
- thinkOWASP\_Mobile\_Security

- LanchAnywhere
- WebView RCE/UXSS
- BroadAnywhere
- master key
- 签名漏洞
- ...

# 总结

# THE END

THANK YOU

[sdcc.csdn.net](http://sdcc.csdn.net)