

Android Tamer

By

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Agenda

- Android and Security
- Tool set available Right Now
- Android Tamer VM
 - Source Code Analysis
 - Application Development
 - Security Analysis Applications
 - ROM analysis
 - Code Injection
- Demo's



Android

- •+40% Phone Market
- •+10% Tablet Market
- Manufacturer support : LG,Samsung,SE & more
- Supported by Google
- Linux Based

Clubhack Why Security Review

- Emerging Market.
- Smart phones.
- Easily acessible
- Emerging Target for malware distribution.
- Simply Put whole PC malacious life cycle is getting repeated in Mobile Domain

Clubhack How and What to perform

- We Need to perform
 - Application / Platform / Protocol Testing
 - Malacious Apps / website testing
 - Rom Analysis / Modification
- How We perform
 - Setup toolset on every machine and still no standards.

Clubhack What's the solution

- Define Some standards.
 - OWASP is working on it.

- Design some ToolKit
 - Basically we need BT style toolkit for android.



Presenting

Android Tamer

Clubhack What is Android Tamer

- VM environment Giving you the freedom to perform
 - Application Pentesting
 - Malware Analysis
 - Rom Modification (Core + kernel)
 - ROM Analysis
 - App / Malware / Native Code Development

Clubhalk Salient Features

- Based on Ubuntu 10.04 LTS
- All non needed software removed.
- Minimum mix of foreign repositories to avoid upgrade issues.
- Not just tool dump but integrated solution.
- Browser bookmarks.
- Tamer Repository configured to avoid re-download of complete VDI image. (contains only one package as of now)

Clubhack Tools: Application Pentesting

- OWASP ZAP
- TSOCK Proxy
- Emulator configured with ZAP certificate.
- Custom Link Given to launch specific AVD.
- DDMS configured

Clubhack Tools : Malware Analysis

- DroidBox
- APKInspector
- Apktool
- Dex2jar /JAD / DED / JD-GUI
- Smali / baksmali
- androguard

ClubHACK Tools: ROM Analysis / Modification

- DSIXDA Android Kitchen
- Unyaffs2
- Split_bootimg
- DDMS

Refer Tools : Development and Malware analysis

Clubhack Tools : Development

- Eclipse + ADT
- NDK
- CodeSourcery C++ lite
- ARM DS-5 CE

Clubhalk Tools: Rooting tools

- Scripts
 - Rageinthecage
 - Psneuter
 - Gingerbreak
 - ZergRush
- APK's
 - Z4root
 - Superoneclick
 - Universal Androot

Note: tools provided AS-IS, usage is a responsibility of USER []



Important Links

https://sourceforge.net/p/androidtamer/



Future

- Plan to keep it going.
- Applications will be distributed using Tamer Repository (preconfigured)
- Tools and Categories to add
 - Agnitio: Source code review
 - Forensics Section.
- If you know some other cool tools that could be added send in a mail.



About Me

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