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Static Analysis of Android Applications

Posted September 1, 2011 by Peter Teoh in Android. 5 Comments

1. [PDF]

Language-Based Security on Android

www.cs.umd.edu/~avik/papers/lbsa.pdf

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by A Chaudhuri – 2009 – Cited by 17 – Related articles

ing existing *static analysis* tools [10, 12, 7]. As envisioned above, certified installation of *Android applications* based on such an implementation should help both ...

2. [PDF]

Using static analysis on Android applications to identify private ...

people.cis.ksu.edu/~kuiluo/RPE1.pdf

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Name Planet Kernel

- Pete Zaitcev: The space-based ADS-B
- Davidlohr Bueso: Linux v4.16: Performance Goodies
- Michael Kerrisk (manpages): man-pages-4.16 is released
- Pavel Machek: Crazy complexity
- Pavel Machek: Microsoft sabotaging someone else's computers
- Pavel Machek: O2 attacking their own customers
- Pavel Machek: Dark design patterns
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11 Nov 2008 – Klocwork Insight Java *static* source code *analysis* tool have been extended to support the *Android* platform, Google's *software* stack for mobile ...

4. Use of Static Analysis on Android Code? – Android Security ...

groups.google.com/group/**android**-security.../of5d616784d879f0 – Cached 5 posts – 4 authors – Last post: 8 Sep 2010

I was wondering if Google runs automated *static analysis* tools and or vulnerability that is suitable for scanning *Android app* code. > On Wed ...

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www.projectjourneyman.com/making-android-app-better... - Cached

24 Aug 2011 – Any way to get free testing and bugfixing for your $Android\ app$ is a good thing. Here are three tools that can help make your $Android\ app$ be as ...

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www.projectjourneyman.com/ - Cached

Find the best ways to earn money from your *Android apps* and games with ProjectJourneyman's research ... Making Your *Android App* Better With *Static Analysis* ...

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 $www. dark reading. com/.../new-free-tools-simplify-{\color{blue} -} {\color{blue} analysis-of-and roid-...}$

14 hours ago – The IDA Pro product recently added a *static analysis* component for the ... only free and open-source tool that does this for *Android applications*. ...

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www.honeynet.org/node/735 - Cached

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- Kees Cook: security things in Linux v4.16
- James Morris: Linux Security Summit North America 2018 CFP Announced
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www.honeynet.org/gsoc/slot6 - Cached

In this project, we will provide a powerful tool for analyzers to analyze ...

11. RoT-1 Chapter Status Report – 2011 | The Honeynet Project

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3 Jul 2011 – The goal of this framework was to provide large-scale *static analysis* for *Android applications*, to provide high level analytics, statistics and ...

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www.honeynet.org/gsoc/ideas - Cached

Jump to Project 7 – Static Analysis of Android Malware: ... to aide static analysis of Android malware ... the analyst a deeper insight into the application, ...

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denimgroup.posterous.com/using-**static**-**analysis**-to-revie... - Cached

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Static Analysis of Android Programs

www.juliasoft.com/public/Biblioteca/cade11.pdf

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A static analyzer for Android programs must consider such features, for correctness ... *Static analysis of Android applications* is important because quality and re- ...

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www.juliasoft.com/ - Cached

A *Static Analyzer* for Java & *Android*. Try our Julia analyzer and find bugs in Java and *Android programs* well before they are run. Our tool is not just another ...

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Software Verification for Java and Android

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- Protecting users with TLS by default in Android P
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in two open-source *Android applications*. We have ana-lyzed the same *programs* with FINDBUGS, the most down-loaded *static analysis* tool of the world, used ...

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stackoverflow.com/.../are-there-any-multithreading-**static**-**analysis**-e... - Cached 2 answers - 21 Jan

Are there any multithreading *static analysis* eclipse plugins? ... multi-threaded *app* is developed in..as some plugins target specific languages ...

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stackoverflow.com/questions/.../code-**analysis**-tools-for-**android** – Cached 2 answers – 30 Jun

Is there any *static* code *analysis* tools for *android* that would pick up simple ... like resharper and support developing *Android applications*. ...

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www.parasoft.com/jsp/capabilities/static_analysis_java.jsp - Cached

Preconfigured for *application* security (OWASP, PCI, CWE/SANS), mobile/*Android* ... Static code analysis, data flow *static analysis*, code metrics analysis ... Targets Google *Android*, Spring, Hibernate, Eclipse plug-ins, TDD, JSF, Struts, JDBC, ...

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www.parasoft.com/jtest - Cached

A complete Java developer's quality suite for static code analysis (for ...

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AndroidLeaks: Detecting Privacy Leaks In Android Applications

www.cs.ucdavis.edu/research/tech-reports/2011/CSE-2011-10.pdf

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This session will show the types of problems that compilers, debuggers, and test suites can't solve. Items that often only show up in real-world situations for ...

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Julia is a spin-off company of the University of Verona, Italy, whose goal is to to produces of tware tools for static analysis of Java and Android programs. Its main ...

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julia.scienze.univr.it/runs/**android**/results.html – Cached *Analysis of Android applications* with Julia version (August 11, 2011) ... time, eq, cast, static, uncalled, others, time, warnings, precision, time, warnings, precision ...

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Android Permissions Demystified

www.cs.berkeley.edu/~afelt/ android_permissions.pdf

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by AP Felt - Cited by 2 - Related articles

in compiled *Android applications*. Stowaway is composed of two parts: a *static analysis*tool that determines what. API calls an *application* makes, and a ...

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www.android-permissions.org/ - Cached

We built Stowaway, a *static analysis* tool that detects overprivilege in compiled *Android applications*. Stowaway determines the set of API calls that an ...

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en.crackproofand.biz/ - Cached

CrackProof for *Android* strongly protects *Android applications* from cracking by *static* analysis and dynamic analysis based on tamper resistant technology ...

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scan.coverity.com/ - Cached

"Coverity's static source code analysis has proven to be an effective step ...

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We introduce the ded decompiler, which recovers *Android application* source code ... applications based on static analysis of 21 million lines of recovered code. ...

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Built for the Android mobile phone platform, we reverse engineer downloaded ...

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Curbing Android Permission Creep

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By Dan Cornell The *Android* platform does some clever things to firewall *apps* off from one another. One of the important protections the platform provides is ...

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A Study of Android Application Security

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Smartphones (Android) in Wars: Software Assurance Challenges

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Application Static Analysis does not cover. Program Functionality. Fortify, Coverity, and other application testing tools cover regular, non-Android specific Bugs: ...

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In this paper, we propose an *Android Application* Sandbox (AASandbox) which is able to perform both *static* and dynamic *analysis* on *Android programs* to ...

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Analyzing and Dissecting Android Applications for Security defects

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www.net-security.org/dl/articles/Blueinfy_Rushil_Sc anDroid_Paper.pdf

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Applying Assurance Techniques to a Mobile Phone Application

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Currently, the commercial market for *Android* related *software* solutions is still in its*Static analysis* tool vendor GrammaTech announced a new sophisticated ...

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only free and open-source tool that does this for *Android applications*. ...

87. FUSE: Inter-Application Security for Android | SBIR.gov

www.sbir.gov/sbirsearch/detail/4753 - Cached

FUSE will operate by performing a *static analysis* of each *application's* configuration and byte code before that *application* is installed on an *Android* platform. ...

88. AndTruss2D – Android app on AppBrain

www.appbrain.com > All apps > Productivity - Cached

AndTruss2D: Android app ($\star\star\star\star\star$, 500 downloads) \Rightarrow AndTruss2D is a useful ... mechanical engineers, architects etc) It is used for linear static analysis of ...

89. Google: Spyware Found, Removed from Android Market | threatpost

https://threatpost.com/.../google-spyware-found-removed – android-... – Cached 13 Jun 2011 – Ten *Android apps* in the Official *Android* Market are known to infected, ... In this way, the payload evades *static analysis* and is difficult to detect. ...

90. SecurityXploit: Android

securityxploit.blogger.de/topics/**Android** – Cached

The GUI tool for *static analysis of Android* malware is ready for an alpha release. ... Once installed, the trojan masquerades as an online banking activation *app*. ...

91. [PDF]

Mining Interactions of Android Applications

www.informatik.uni-leipzig.de/~berger/tr/2011-dienst -android.pdf

File Format: PDF/Adobe Acrobat - Quick View

by S Dienst - Related articles

Android Applications. Static Analysis of Dalvik Bytecode. -Technical Note- preliminary version. Steffen Diensti and Thorsten Bergeri. University of Leipzig ...

92. RPISEC presents: Stephen Ridley on Android Malware | Facebook

www.facebook.com/event.php?eid=120866814659390 - Cached

From there the talk will go into tools and techniques for decompiling *Android applications*. I will also discuss some *static analysis* techniques (that I have not yet ...

93. [PDF]

Jaeho Shin 2010-10-01 ROPAS Show&Tell

ropas.snu.ac.kr/~netj/talk/2010/1001.mobile-security.pdf

File Format: PDF/Adobe Acrobat - Quick View

1 Oct 2010 – Static Analysis Ideas ... Mobile Apps. User. Developer. App runs written by ...

App. 1. tries to install. Android. 3. allows privileged operations to ...

94. [PDF]

Analysis of Dalvik Virtual Machine and Class Path Library

imsciences.edu.pk/serg/wp-content/uploads/.../Analysis-of-Dalvik-VM.pdf

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Analysis of Dalvik Virtual Machine and Class Path Library iv 1.4 Average

Applications Downloads Comparison for Android and iPhone. 5. 3.1 Dex File Anatomy [6].

..... Absolute offset of static field list. 0x14. 4. Absolute offset of instance field ...

95. Android Kernel Security Above Average, Below Linux - Software ...

www.informationweek.com/news/ software/infrastructure/228100092 - Cached 3 Nov 2010 - An *analysis* of the *Android* kernel on an HTC Droid Incredible reveals about half as many *software* defects as expected, according to a report ...

96. Using Static Analysis For Software Defect Detection | About Mobility

weblog.cenriqueortiz.com/.../using-**static**-**analysis**-for-**software**-defe... - Cached

18 Apr 2008 - A very good presentation Using *Static Analysis* For *Software* Defect ... who

are interested in Android OS and application software development. ...

97. [PDF]

Penetration Testing for iPhone / iPad Applications

www.mcafee.com/us/.../wp-pen-testing-iphone-ipad -apps.pdf - United States

File Format: PDF/Adobe Acrobat

more attention, with the introduction of the *Android*, iPhone, and iPad *Static Analysis* for the *applications* could be performed using free tools such as ...

98. forensic blog

forensics.spreitzenbarth.de/ - Cached

This project will develop a sandbox in terms of a automated malware analysis *software* for the *Android* OS. The first version which will only allow *static analysis* ...

99. Fast and Easy Automated Testing for ... – Engineering Software Lab

www.eswlab.com/info.asp?cid=589 - Israel - Cached

Static Code Analysis. Armorize ... PVS-Studio Static Code Analyzer for 64-bit and parallel code Fast and Easy Automated Testing for Android and iOS Apps ...

100. [PDF]

"These Aren't the Droids You're Looking For"

appfence.org/appfence.pdf

File Format: PDF/Adobe Acrobat – Quick View

by P Hornyack – Related articles

5 Apr 2011 – The problem is not unique to *Android*. Egele et al. used *static analysis* to track information flow in popular iPhone ap– plications and discovered ...







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Posted by desnos (@adesnos) on September 1, 2011 at 5:48 pm

Hi,

very useful links.

Maybe you can add the following links:

http://code.google.com/p/androguard/wiki/DatabaseAndroidMalwares

http://code.google.com/p/androguard/wiki/Similarity

https://docs.google.com/viewer?

a=v&pid=explorer&chrome=true&srcid=oB5j6gkONHJd7ZGQ2ZjJiNGMtNDgzMio

http://androguard.blogspot.com

http://code.google.com/p/androguard/

++

Reply

Posted by Dan Cornell (@danielcornell) on September 1, 2011 at 9:16 pm

Great post – thanks for including links to some of our materials! If folks head to http://www.smartphonesdumbapps.com/ that page has links to some talks I've given on Android (and iOS) security testing as well as to a Google Code repository with some analysis scripts. Also we've released an intentionally-flawed application called Pandemobium Stock Trader that can be found here https://code.google.com/p/pandemobium/ That can be used as a developer training tool and testbed for Android security static analysis. Thanks, Dan **Reply** Posted by Android Security related tools | ashishb on May 19, 2013 at 10:26 am http://ashishb.net/uncategorized/android-security-related-tools/ Reply Posted by Security Tools | on November 4, 2014 at 11:08 am http://www.xchg.info/corkami/opcodes_tables/ ExploitMe http://securitycompass.github.io/AndroidLabs/setup.html

Posted by Android App Profits Blackhat | Secret Internet Marketing Blog on November 28, 2014 at 5:33 pm

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