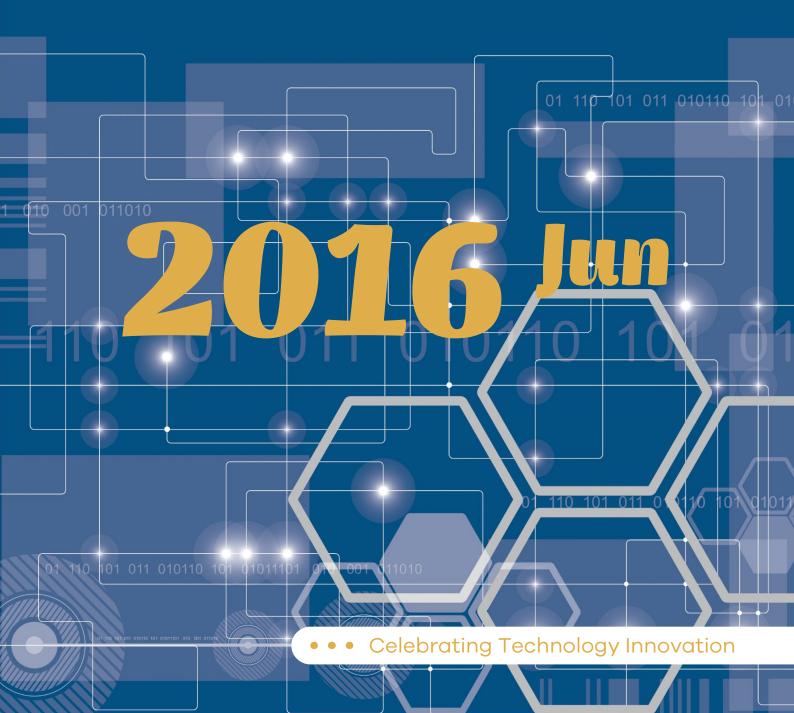
01 110 101 011 0



Android Malware Detection Test 手机安全软件病毒检测率测试





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Chap.1 Background

Android is an open-source platform founded in October 2003 by Andy Rubin and backed by Google, along with major hardware and software developers (such as Intel, HTC, ARM, Motorola and Samsung) that form the Open Handset Alliance. In October 2008, HTC released the HTC Dream, the first phone to use Android. The software suite included on the phone consists of integration with Google's proprietary applications, such as Maps, Calendar, and Gmail, and a full HTML web browser.

Android and iOS-powered devices have long dominated the smartphone market, and it's still clear that the two mobile operating systems show no sign of stopping anytime soon. New data has been released by Gartner, suggesting that Android holds 84.7 percent market share as of the third quarter of 2015, which is a 1.4-percent increase year over year. The research firm says Android's growth is thanks in part to strong global smartphone sales from Samsung and Huawei. These manufacturers make up 23.7 and 7.7 percent of all smartphones sold in Q3 2015, respectively.

Android security software can protect you from the following malware activities (all are actual cases):

- 1. Send messages to "premium service" SMS numbers that cost extra money.
- 2. Send your personal information to unknown parties.
- 3. Turn your phone into a part of a botnet so others can execute commands remotely for nefarious purposes, such as spam, DDOS attack, and more.
- 4. Non-authorized persons may monitor your phone calls and text messages.
- 5. Open you to blackmail, if something embarrassing can be found and sent elsewhere.
- 6. Trick you into entering financial information, such as account number, birth date, and more.
- 7. Even stuff on your PC if you connect your PC to your smartphone.



Chap.2 Test Process

Several android mobility devices will be prepared and backup images are created then. Detailed process is as follows:

- 1. 2316 malware samples and bulks of clean android applications are prepared and delivered to the extended SD card.
- 2. Install a security product on the device.
- 3. Update the security product and perform a full scan against the malware set and clean applications. Malware detection rate and false positive status will be recorded. If full scan function is not provided, then perform one by one installation.
- 4. Restore the backup image and repeat the three steps above.

AegisLabAegisLab Antivirus Free3.0.4 build r32444AhnLabAhnLab V3 Mobile Security3.0.5.3(Build 1451)AlibabaAli Money Shield3.2.1AntiyAVL Pro2.1.9AriasecureBornaria Mobile Security1.5.79AvastAvast Mobile Security Free5.2.0-9813-fc7c4dcAVGAVG Antivirus FREE for Android5.3.0.2AviraAvira Antivirus Security Pro4.5 build No.3926BaiduBaidu Mobile Security8.2.0BitdefenderBitdefender Antivirus Free3.0.135BullguardBullguard Mobile Security14.0.9.92CheetahCM Security2.10.4.3050Dr.WebDr.Web anti-virus Light9.01.2(0)ESETESET Mobile Security for Android25.10.11.947bcb3cG DATAG DATA Internet Security for Android25.10.11.947bcb3cIKARUSIKARUS mobile.security for Android2.1.94.333dce32MalwarebytesMalwarebytes Anti-Malware Mobile2.05.3McAfeeMobile SecurityV4.6.1.915PandaPanda Mobile Security2.01.057SophosSophos Mobile Security Free3.14.0.3072QihooNorton Mobile Security Free3.14.0.3072Guncet HealMobile Security Free3.14.0.3072FencentTencent Mobile Manager6.3.0 Build 3490Trend MicroTrend Micro Mobile Security7.00.1443ZemanaZemana Mobile Security1.1.4	Vendor	Software	Version	
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	Trend Micro	Trend Micro Mobile Security	7.0.0.1443	
ZonerZoner AntiVirus Free1.11.1	Zemana	Zemana Mobile Security	1.1.4	
	Zoner	Zoner AntiVirus Free	1.11.1	



Chap.3 Tested Software

Vendor	Total Samples	Missed Samples	Detected Samples	Detection Rate	False Positive Counts	Total Score
IKARUS	2316	0	2316	100.000%	0	100.000
Kaspersky Lab	2316	0	2316	100.000%	0	100.000
Quick Heal	2316	0	2316	100.000%	0	100.000
Symantec	2316	0	2316	100.000%	0	100.000
Tencent	2316	0	2316	100.000%	0	100.000
ESET	2316	1	2315	99.957%	0	99.957
AhnLab	2316	1	2315	99.957%	1	99.857
Bullguard	2316	0	2316	100.000%	2	99.800
Baidu	2316	5	2311	99.784%	0	99.784
Qihoo	2316	5	2311	99.784%	0	99.784
Sophos	2316	5	2311	99.784%	0	99.784
AVG	2316	3	2313	99.870%	1	99.770
Avira	2316	7	2309	99.698%	0	99.698
Alibaba	2316	10	2306	99.568%	0	99.568
Trend Micro	2316	7	2309	99.698%	3	99.398
Avast	2316	12	2304	99.482%	1	99.382
Antiy	2316	15	2301	99.352%	0	99.352
Bitdefender	2316	17	2299	99.266%	1	99.166
Malwarebytes	2316	21	2295	99.093%	0	99.093
Dr.Web	2316	46	2270	98.014%	0	98.014
Cheetah	2316	62	2254	97.323%	0	97.323
G DATA	2316	59	2257	97.453%	8	96.653
McAfee	2316	161	2155	93.048%	0	93.048
AegisLab	2316	148	2168	93.610%	6	93.010
Ariasecure	2316	149	2167	93.566%	6	92.966
Panda	2316	171	2145	92.617%	0	92.617
Zemana	2316	416	1900	82.038%	0	82.038
Zoner	2316	585	1731	74.741%	0	74.741



Chap.4 Test Result

Remarks: Final Score= (Detection %)*100-0.1*FP

6 different mobile security products from six renowned security vendors crashed during the original test, we have already delivered the crash log and related information to them.

Monthly Award

2016.06					
IKARUS					
Kaspersky					
Quick Heal					
Symantec					
Tencent					
ESET	5 Star Monthly Award 2016 June				
AhnLab					
Bullguard					
Baidu					
Qihoo					
Sophos					
AVG					
Avira					
Alibaba					
Trend Micro					
Avast					
Antiy Ditalafaradar					
Bitdefender					
Malwarebytes					
Dr.Web					
Cheetah G DATA	4 Star Monthly Award 2016 June				
McAfee					
AegisLab					
Ariasecure	3 Star Monthly Award 2016 June				
Panda					
i ailua					



Chap.5 Information

Jiaxing Chenxiang Information Technology Co., Ltd. (PCSL IT Consulting Institute) is an IT product test and consulting company located in Jiaxing, Zhejiang, P. R. China. As a professional tester of desktop security products and mobile security solutions, we are willing to provide references to the endpoint users for choosing security solutions and provide security vendors product improvement solutions and consulting services. Not only do we test security solutions for different environment, but we also provide test and consulting reports for other IT products, e.g. battery, mobile devices, computer power, etc.

In early 2015, we launched a brand new service named BOOM Feeds Data Collection and Analysis Service, which provided a variety of different digital threat data like, android applications collection, PE malware collection, phishing Urls, malicious Urls, Linux threat binaries, iOS binaries, attack records, and white binaries collections.



Chap.6 Rights Statement

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