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Android Malware Detection Test

手机安全软件病毒检测率测试

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••• Celebrating Technology Innovation

报告目录

TABLE OF CONTENTS

P1

测试背景
Background

P2

测试流程
Test Process

P2

待测软件
Tested Software

P3

测试结果
Test Result

P5

相关信息
Information

P5

权利说明
Rights Statement

P6

免责声明
Disclaimer

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. 1130 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.

Vendor	Software	Version
AegisLab	AegisLab Antivirus Free	3.0.4 build r32444
Alibaba	Ali Money Shield	5.2.3
Antiy	AVL Pro	2.1.9
Avast	Avast Mobile Security Free	6.1.3-315389-15cd3cc
Avira	Avira Antivirus Security Free	5.0.1 build No.4089
Baidu	Baidu Mobile Security	V9.1.0
Bullguard	BullGuard Mobile Security	14.0.9.144
ESET	ESET Mobile Security & Antivirus Free	3.6.40.0-15
IKARUS	IKARUS mobile.security Free	1.7.82
Kaspersky Lab	Kaspersky Internet Security for Android	11.13.4.835
Malwarebytes	Malwarebytes for Android	2.1.2.1
McAfee	McAfee Mobile Security	V4.9.1.440
Panda	Panda Mobile Security	3.1.20
Quick Heal	Quick Heal Mobile Security Free	2.02.00.014
Tencent	Tencent Mobile Manager	7.1.0 Build 4035
Trend Micro	Trend Micro Mobile Security Free	8.2.3.1093
TrustGo	TrustGo Antivirus & Mobile Security	V2.11.0
Zemana	Zemana Mobile Security Free	1.6.4
Zoner	Zoner AntiVirus Free	1.13.3

Chap.3 Tested Software

Vendor	Total Samples	Missed Samples	Detected Samples	Detection Rate	False Positive Counts	Total Score
Kaspersky Lab	1130	0	1130	100.000%	0	100.000
Tencent	1130	0	1130	100.000%	0	100.000
Trend Micro	1130	0	1130	100.000%	0	100.000
Avira	1130	1	1129	99.912%	0	99.912
IKARUS	1130	1	1129	99.912%	0	99.912
Quick Heal	1130	2	1128	99.823%	0	99.823
ESET	1130	10	1120	99.115%	0	99.115
Bullguard	1130	16	1114	98.584%	3	98.284
Antiy	1130	42	1088	96.283%	0	96.283
TrustGo	1130	42	1088	96.283%	0	96.283
Baidu	1130	68	1062	93.982%	0	93.982
Malwarebytes	1130	69	1061	93.894%	0	93.894
Avast	1130	77	1053	93.186%	0	93.186
Alibaba	1130	120	1010	89.381%	0	89.381
Panda	1130	127	1003	88.761%	0	88.761
McAfee	1130	181	949	83.982%	0	83.982
AegisLab	1130	437	693	61.327%	3	61.027
Zemana	1130	547	583	51.593%	1	51.493
Zoner	1130	730	400	35.398%	0	35.398

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

2017.06	
<i>Kaspersky Lab</i>	5 Star Monthly Award 2017 June
<i>Tencent</i>	
<i>Trend Micro</i>	
<i>Avira</i>	
<i>IKARUS</i>	
<i>Quick Heal</i>	
<i>ESET</i>	4 Star Monthly Award 2017 June
<i>Bullguard</i>	
<i>Antiy</i>	
<i>TrustGo</i>	3 Star Monthly Award 2017 June
<i>Baidu</i>	
<i>Malwarebytes</i>	
<i>AVAST</i>	

Chap.5 Information

Jiaying Chenxiang Information Technology Co., Ltd. (PCSL IT Consulting Institute) is an IT product test and consulting company located in Jiaying, 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.



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