2015

PCSL IT Consulting Institute

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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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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 continues to be the most popular mobile platform, with its share of smartphone sales climbing in every major market in Q4 2013, now accounting for 69.5% of all sales across 12 key markets versus 23.7% for number-two Apple, according to figures out today from Kantar Worldpanel, a market research subsidiary of WPP.

Android security software can protect you away 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. 2435 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.

CHAP. 3

Tested Software

Vendor	Software	Version
Aegislab	AegisLab Antivirus Free	3.0.2 build r31016
Alibaba	Ali Money Shield	2.0.7
Anguanjia	Security Manager	5.0.4
Antiy	AVL Pro	1.2.0130
Ariasecure	Bornaria Mobile Security	1.5.79
AVAST	avast! Mobile Security Free	4.0.7880
AVG	AVG Antivirus FREE	4.3 – 758128018-9515-4257
Avira	Avira Antivirus Security	4.0 build no.3476
COMODO	COMODO Mobile Security	2.7.4
Dr.Web	Dr.Web anti-virus Light	9.00.2(0)
ESET	ESET Mobile Security & Antivirus Free	3.0.1305.0-16
F-Secure	F-Secure Mobile Security	15.0.016484 FS_GP
IKARUS	IKARUS mobile.security Free	1.7.21
Kaspersky Lab	Kaspersky Internet Security for Android	11.8.4.474
Malwarebytes	Malwarebytes Anti-Malware Mobile	V1.05.1.1000(151)
McAfee	McAfee Mobile Security	V4.4.0.392
Quick Heal	Quick Heal Mobile Security	2.01.020
Sophos	Sophos Mobile Security	5.0.1515(12)
Symantec	Norton Mobile Security Free	V3.10.0.2360
Tencent	Tencent Mobile Security Manager	5.4.1 Build 2993
Trend Micro	Trend Micro Dr.Safety	2.0.1011
Zoner	Zoner AntiVirus Free	1.9.3

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Test Result

Vendor	Score Range	2015.04 Month Award
Alibaba	98.00-100.00	★★★★★
Antiy	98.00-100.00	★★★★★
AVAST	98.00-100.00	★★★★★
AVG	98.00-100.00	★★★★★
Avira	98.00-100.00	★★★★★
ESET	98.00-100.00	★★★★★
IKARUS	98.00-100.00	★★★★★
Kaspersky Lab	98.00-100.00	★★★★★
Quick Heal	98.00-100.00	★★★★★
Sophos	98.00-100.00	★★★★★
Tencent	98.00-100.00	★★★★★
Trend Micro	98.00-100.00	★★★★★
Anguanjia	95.00-97.99	★★★★
COMODO	95.00-97.99	★★★★
Dr.Web	95.00-97.99	★★★★
F-Secure	95.00-97.99	★★★★
Malwarebytes	95.00-97.99	★★★★
Symantec	95.00-97.99	★★★★
Ariasecure	90.00-94.99	★★★
McAfee	90.00-94.99	★★★
Aegislab	Below 90.00	TESTED
Zoner	Below 90.00	TESTED

Remarks: Final Score= (Detection %)*100-0.1*FP
We consider the software in the same score range are providing a similar protection level, and they are ranked in no particular order.

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Jiaxing Chenxiang Information Technology Co., Ltd., is an IT product test and consulting company located in Jiaixing, Zhejiang, P. R. China. As a professional tester of desktop security products and mobility 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 we test security solutions for different environment, but also we provide test and consulting reports of other IT products, e.g. battery, mobility devices, computer power, etc.

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