

# *mH-PriSe*

## Software & Hardware Versions

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September 22, 2016

## 1 Information

This document provides details on software and hardware used to run experiments. The MSc thesis includes further details on the process and application of the framework.

Krämer, M. (2016). Health Monitors Under The Magnifying Glass: A Privacy And Security Study. MSc Thesis. University of Edinburgh.

## 2 Software

Table 1: Framework software components

name	version	usage
Kali Linux	2016.1	Penetration Testing and Ethical Hacking Linux Distribution
PyCharm	Community 2016.1	Python development environment
Android SDK Tools	24.0.2	Android Build and Development Tools
Android Studio	2.1.2	developing and reverse engineering Android applications
MySQL Server	5.6.27-2 (Debian)	database server used to store experiment results and documentation
Apache	Apache/2.4.20 (Debian)	web pages used as administration interface to database
PHP	7.0	dependency for phpMyAdmin
Androguard	2.0	Android decompiler and analysis tools
Mallodroid	31-12-2016	detecting SSL implementation weaknesses in Android applications
Drozer	2.3.4	Android penetration testing tool suite
apktool	2.1.1	dissassembler for Android Dalvik byte code to smali and back (baksmali)

OpenSSL	1.0.2e 3 Dec 2015	Cryptographic toolkit
dex2jar	reader-1.15 translator-0.0.9.15 ir-1.12	decompiling Android dex to Java jar files
Wireshark / tShark	2.0.1	network traffic capture and analysis
mitmproxy	0.15	Man-In-The-Middle proxy used to forge certificates, traffic manipulation, <u>fabrication and more</u>
MySQL Workbench	6.3.7	administration interface to MySQL server
hostapd	v2.3	IEEE 802.11 AccessPoint management
dnsmasq	2.76	network infrastructure for <u>small networks</u>
googleplay-api	commit c463cbe	downloading apk files from <u>google play store</u>
Vysor	1.1.3	Android screen mirroring
Addon Detector	3.24	Android app reading addon libraries and frameworks from installed apps
EviCheck	0.1	Digital Evidence for Android - <u>Malware classification</u>
ExplainDroid	0.1	text mining based approach for <u>malware classification</u>
recordmydesktop	0.3.8.1	desktop screen scraping
DroidWall	1.5.7	Android app Android firewall application
Device Identifier	1.3.2	Android app displays several device identifier like IMEI, <u>MAC and others</u>
tPacketCapture	2.0.1	Android app capturing network traffic on the phone

### 3 Hardware

Table 2: Framework hardware components

name	version	usage
Lenovo Thinkpad X230		main workstation to run the framework and share internet connection
Atheros Wifi Card	AR9271	external Wifi adapter to expose hotspot
LG Nexus 5	Android 6.0 (rooted)	test device used to run experiments
External Harddrive 4GB		used to store results