

ANDROID STATIC ANALYSIS REPORT



Pi-hole Droid (1.0.5)

File Name:	installer378.apk
Package Name:	friimaind.piholedroid
Scan Date:	May 31, 2022, 3:22 p.m.
App Security Score:	56/100 (MEDIUM RISK)
Grade:	

FINDINGS SEVERITY

派 HIGH	▲ MEDIUM	i INFO	✓ SECURE	≪ HOTSPOT
1	1	1	1	1

FILE INFORMATION

File Name: installer378.apk

Size: 2.59MB

MD5: d74741b82efe7cbabcf68fcc46cd739f

SHA1: 9f84e7f9e57b64db2fc118512f94e7ea7b5e6ed8

SHA256: 02c81bdf84b3ca524f53edbc9bb3bffcfcd98f2ea19eacdbe42bf62c149fa84c

i APP INFORMATION

App Name: Pi-hole Droid

Package Name: friimaind.piholedroid

Main Activity: friimaind.piholedroid.MainActivity

Target SDK: 25 Min SDK: 16 Max SDK:

Android Version Name: 1.0.5
Android Version Code: 10005

EE APP COMPONENTS

Activities: 3 Services: 0 Receivers: 0 Providers: 0

Exported Activities: O Exported Services: O Exported Receivers: O Exported Providers: O



APK is signed v1 signature: True v2 signature: False v3 signature: False

Found 1 unique certificates

Subject: C=UK, ST=ORG, L=ORG, O=fdroid.org, OU=FDroid, CN=FDroid

Signature Algorithm: rsassa_pkcs1v15 Valid From: 2019-02-12 10:44:53+00:00 Valid To: 2046-06-30 10:44:53+00:00

Issuer: C=UK, ST=ORG, L=ORG, O=fdroid.org, OU=FDroid, CN=FDroid

Serial Number: 0x12e736e2 Hash Algorithm: sha256

md5: e12a7d217b3f10779e17bb032238aca5

sha1: d22dcb30acbbe9c74d33fc62349badab0786cdf0

sha256: 4b640cc40f01878c45d915104d5bf07c30c41b9482b7054f24a8d4f4ca6af219

sha512: 23a2626a69d7d5176851773af7a06199a95c4b30f2e18382877c0bcfa687d7763e3e7a6283004213b32029a2935c56888506fbfcc31a89863029edece135ff1c

TITLE	SEVERITY	DESCRIPTION
Signed Application	info	Application is signed with a code signing certificate

TITLE	SEVERITY	DESCRIPTION
Application vulnerable to Janus Vulnerability	high	Application is signed with v1 signature scheme, making it vulnerable to Janus vulnerability on Android 5.0-8.0, if signed only with v1 signature scheme. Applications running on Android 5.0-7.0 signed with v1, and v2/v3 scheme is also vulnerable.

⋮ APPLICATION PERMISSIONS

PERMISSION	STATUS	INFO	DESCRIPTION
android.permission.INTERNET	normal	full Internet access	Allows an application to create network sockets.
android.permission.CAMERA	dangerous	take pictures and videos	Allows application to take pictures and videos with the camera. This allows the application to collect images that the camera is seeing at any time.
android.permission.FLASHLIGHT	normal	control flashlight	Allows the application to control the flashlight.

M APKID ANALYSIS

FILE DETAILS

FILE	DETAILS	DETAILS		
	FINDINGS	DETAILS		
	Anti-VM Code	Build.FINGERPRINT check Build.MODEL check Build.MANUFACTURER check Build.PRODUCT check Build.BOARD check		
	Anti Debug Code	Debug.isDebuggerConnected() check		
classes.dex	Compiler	dx (possible dexmerge)		
	Manipulator Found	dexmerge		

△ NETWORK SECURITY

NO	SCOPE	SEVERITY	DESCRIPTION

Q MANIFEST ANALYSIS

NO	ISSUE	SEVERITY	DESCRIPTION
1	Application Data can be Backed up [android:allowBackup] flag is missing.	warning	The flag [android:allowBackup] should be set to false. By default it is set to true and allows anyone to backup your application data via adb. It allows users who have enabled USB debugging to copy application data off of the device.

</> CODE ANALYSIS

NO	ISSUE	SEVERITY	STANDARDS	FILES
1	The App logs information. Sensitive information should never be logged.	info	CWE: CWE-532: Insertion of Sensitive Information into Log File OWASP MASVS: MSTG-STORAGE-3	com/phonegap/plugins/barcodescanner/Barco deScanner.java

■ NIAP ANALYSIS v1.3

NO	IDENTIFIER	REQUIREMENT	FEATURE	DESCRIPTION
1	FCS_RBG_EXT.1.1	Security Functional Requirements	Random Bit Generation Services	The application invoke platform-provided DRBG functionality for its cryptographic operations.
2	FCS_STO_EXT.1.1	Security Functional Requirements	Storage of Credentials	The application does not store any credentials to non-volatile memory.
3	FCS_CKM_EXT.1.1	Security Functional Requirements	Cryptographic Key Generation Services	The application generate no asymmetric cryptographic keys.

NO	IDENTIFIER	REQUIREMENT	FEATURE	DESCRIPTION

4	FDP_DEC_EXT.1.1	Security Functional Requirements	Access to Platform Resources	The application has access to ['network connectivity', 'camera'].
5	FDP_DEC_EXT.1.2	Security Functional Requirements	Access to Platform Resources	The application has access to no sensitive information repositories.
6	FDP_NET_EXT.1.1	Security Functional Requirements	Network Communications	The application has user/application initiated network communications.
7	FDP_DAR_EXT.1.1	Security Functional Requirements	Encryption Of Sensitive Application Data	The application implement functionality to encrypt sensitive data in non-volatile memory.
8	FMT_MEC_EXT.1.1	Security Functional Requirements	Supported Configuration Mechanism	The application invoke the mechanisms recommended by the platform vendor for storing and setting configuration options.
9	FTP_DIT_EXT.1.1	Security Functional Requirements	Protection of Data in Transit	The application does encrypt some transmitted data with HTTPS/TLS/SSH between itself and another trusted IT product.
10	FCS_RBG_EXT.2.1,FCS_RBG_EXT.2.2	Selection-Based Security Functional Requirements	Random Bit Generation from Application	The application perform all deterministic random bit generation (DRBG) services in accordance with NIST Special Publication 800-90A using Hash_DRBG. The deterministic RBG is seeded by an entropy source that accumulates entropy from a platform-based DRBG and a software-based noise source, with a minimum of 256 bits of entropy at least equal to the greatest security strength (according to NIST SP 800-57) of the keys and hashes that it will generate.

NO	IDENTIFIER	REQUIREMENT	FEATURE	DESCRIPTION
11	FIA_X509_EXT.2.1	Selection-Based Security Functional Requirements	X.509 Certificate Authentication	The application use X.509v3 certificates as defined by RFC 5280 to support authentication for HTTPS , TLS.

Report Generated by - MobSF v3.5.2 Beta

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