

### ANDROID STATIC ANALYSIS REPORT



Ahorcado (1.3)

File Name:	installer3790.apk
Package Name:	com.ahorcado
Scan Date:	May 31, 2022, 6:04 p.m.
App Security Score:	65/100 (LOW RISK)
Grade:	A

#### **FINDINGS SEVERITY**

<b>派</b> HIGH	▲ MEDIUM	<b>i</b> INFO	<b>✓</b> SECURE	♥ HOTSPOT
1	3	1	2	0

#### FILE INFORMATION

File Name: installer3790.apk

Size: 4.79MB

MD5: cd9f9d3b7bde60da75a763ed52d00bb1

**SHA1**: f360a5091a74a393bcd1a498bcfde5d1b0c60348

SHA256: ae922ff16a1d2f3266df6c6b13738f0c44de34264861f3ea759991f4ee90ce05

#### **i** APP INFORMATION

App Name: Ahorcado

Package Name: com.ahorcado

Main Activity: com.ahorcado.MainActivity

Target SDK: 28 Min SDK: 21 Max SDK:

Android Version Name: 1.3 Android Version Code: 4

#### **APP COMPONENTS**

Activities: 5 Services: 0 Receivers: 0 Providers: 0

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

### **\*** CERTIFICATE INFORMATION

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: 2019-06-06 08:17:47+00:00 Valid To: 2046-10-22 08:17:47+00:00

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

Serial Number: 0x45ae65b9 Hash Algorithm: sha256

md5: c61c08f3a9ffbffa33d3334aed12447c

sha1: 75638028c11d60d091dae5991aa06b863034e815

sha256: e5e909931cf5662f78ac8eb708cfb2e61b18f1912a326b81568e3fdb93fcb906

sha512: 2943dbd07bff202389769c9d4ea857ec2552c5ae82e16d2df0fe7d8eafef2215eacad6439681e6339a0d637c4d02c71e04e65ad55f8c9b536ff425bf092411e7

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.ACCESS_NETWORK_STATE	normal	view network status	Allows an application to view the status of all networks.

### ক্ল APKID ANALYSIS

FILE	DETAILS			
classes.dex	FINDINGS DETAILS			
	Compiler	r8		



NO	SCOPE	SEVERITY	DESCRIPTION	

# **Q** MANIFEST ANALYSIS

NO	ISSUE	SEVERITY	DESCRIPTION
1	App has a Network Security Configuration [android:networkSecurityConfig=@xml/network_security_config]	info	The Network Security Configuration feature lets apps customize their network security settings in a safe, declarative configuration file without modifying app code. These settings can be configured for specific domains and for a specific app.
2	Application Data can be Backed up [android:allowBackup=true]	warning	This flag 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 uses an insecure Random Number Generator.	warning	CWE: CWE-330: Use of Insufficiently Random Values OWASP Top 10: M5: Insufficient Cryptography OWASP MASVS: MSTG-CRYPTO-6	org/jsoup/helper/DataUtil.java
2	Files may contain hardcoded sensitive information like usernames, passwords, keys etc.	warning	CWE: CWE-312: Cleartext Storage of Sensitive Information OWASP Top 10: M9: Reverse Engineering OWASP MASVS: MSTG-STORAGE-14	org/jsoup/helper/W3CDom.java org/jsoup/nodes/DocumentType.java org/jsoup/nodes/Comment.java

NO	ISSUE	SEVERITY	STANDARDS	FILES
3	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	android/databinding/adapters/TextViewBindin gAdapter.java android/databinding/MergedDataBinderMapp er.java
4	This App uses SSL certificate pinning to detect or prevent MITM attacks in secure communication channel.	secure	OWASP MASVS: MSTG-NETWORK-4	org/jsoup/helper/HttpConnection.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.
4	FDP_DEC_EXT.1.1	Security Functional Requirements	Access to Platform Resources	The application has access to ['network connectivity'].

NO	IDENTIFIER	REQUIREMENT	FEATURE	DESCRIPTION
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.
11	FCS_HTTPS_EXT.1.1	Selection-Based Security Functional Requirements	HTTPS Protocol	The application implement the HTTPS protocol that complies with RFC 2818.
12	FCS_HTTPS_EXT.1.2	Selection-Based Security Functional Requirements	HTTPS Protocol	The application implement HTTPS using TLS.

NO	IDENTIFIER	REQUIREMENT	FEATURE	DESCRIPTION
13	FIA_X509_EXT.1.1	Selection-Based Security Functional Requirements	X.509 Certificate Validation	The application invoked platform-provided functionality to validate certificates in accordance with the following rules: ['The certificate path must terminate with a trusted CA certificate'].
14	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.

### **Q DOMAIN MALWARE CHECK**

DOMAIN	STATUS	GEOLOCATION
www.paypal.com	ok	IP: 151.101.1.21 Country: United States of America Region: California City: San Francisco Latitude: 37.775700 Longitude: -122.395203 View: Google Map
www.palabrasaleatorias.com	ok	IP: 62.149.144.67 Country: Italy Region: Toscana City: Bibbiena Latitude: 43.696548 Longitude: 11.813540 View: Google Map

Mobile Security Framework (MobSF) is an automated, all-in-one mobile application (Android/iOS/Windows) pen-testing, malware analysis and security assessment framework capable of performing static and dynamic analysis.

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