



ANDROID STATIC ANALYSIS REPORT



 Spider (0.2.1)

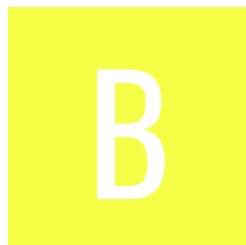
File Name: installer55.apk

Package Name: org.kknickkk.spider






Scan Date: May 31, 2022, 1:37 p.m.

App Security Score: 46/100 (MEDIUM RISK)

Grade:



FINDINGS SEVERITY

 HIGH	 MEDIUM	 INFO	 SECURE	 HOTSPOT
2	6	1	1	1

FILE INFORMATION

File Name: installer55.apk

Size: 2.0MB

MD5: 91df55db2252bc1be352fd24240bd5ae

SHA1: 1847ca951c68f92e3b2c2326a3ddacae633d7874

SHA256: ad1622bd2b810ba1817275c952c7a499ec98f7a44750b846f37d710224b0e26f

APP INFORMATION

App Name: Spider

Package Name: org.kknickkk.spider

Main Activity: org.kknickkk.spider.RegisterActivity

Target SDK: 29

Min SDK: 19

Max SDK:

Android Version Name: 0.2.1

Android Version Code: 12

APP COMPONENTS

Activities: 2

Services: 0

Receivers: 0

Providers: 1

Exported Activities: 0

Exported Services: 0

Exported Receivers: 0

Exported Providers: 0

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: 2019-12-07 16:23:55+00:00

Valid To: 2047-04-24 16:23:55+00:00

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

Serial Number: 0x3b3e3919

Hash Algorithm: sha256

md5: 4e6c9621c67c8211367caf880c266b37

sha1: a0bd929dc5775739fece51a4418197d500914c4f

sha256: f219c814bb2b772faf7c364e4b34111a812739ca74011dab7cf4aa22fac349e2

sha512: 0c48397cc751046e81007040d95b15e0cf7364afd5846380bc9a487c08999783ee06be8f259fcc4c2a953f74aca499a162d254025cd8047c8367d625d35d0b42

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.READ_EXTERNAL_STORAGE	dangerous	read external storage contents	Allows an application to read from external storage.
android.permission.WRITE_EXTERNAL_STORAGE	dangerous	read/modify/delete external storage contents	Allows an application to write to external storage.
android.permission.INTERNET	normal	full Internet access	Allows an application to create network sockets.
android.permission.WAKE_LOCK	normal	prevent phone from sleeping	Allows an application to prevent the phone from going to sleep.

APKID ANALYSIS

FILE	DETAILS
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FILE	DETAILS	
classes.dex	FINDINGS	DETAILS
	Compiler	r8

NETWORK SECURITY

NO	SCOPE	SEVERITY	DESCRIPTION
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MANIFEST ANALYSIS

NO	ISSUE	SEVERITY	DESCRIPTION
1	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
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NO	ISSUE	SEVERITY	STANDARDS	FILES
1	SHA-1 is a weak hash known to have hash collisions.	warning	CWE: CWE-327: Use of a Broken or Risky Cryptographic Algorithm OWASP Top 10: M5: Insufficient Cryptography OWASP MASVS: MSTG-CRYPTO-4	com/jcraft/jsch/jce/SignatureRSA.java com/jcraft/jsch/jce/PBKDF.java com/jcraft/jsch/jce/SignatureDSA.java com/jcraft/jsch/jcraft/HMACSHA1.java com/jcraft/jsch/jce/SHA1.java
2	Weak Encryption algorithm used	high	CWE: CWE-327: Use of a Broken or Risky Cryptographic Algorithm OWASP Top 10: M5: Insufficient Cryptography OWASP MASVS: MSTG-CRYPTO-4	com/jcraft/jsch/jce/TripleDESCBC.java com/jcraft/jsch/jce/ARCFOUR256.java com/jcraft/jsch/jce/ARCFOUR128.java com/jcraft/jsch/jce/TripleDESCTR.java com/jcraft/jsch/jce/ARCFOUR.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	com/jcraft/jsch/jce/HMAC.java com/jcraft/jsch/ChannelSftp.java com/jcraft/jsch/jce/SHA512.java com/jcraft/jsch/DHGEX.java com/jcraft/jsch/jce/SHA384.java com/jcraft/jsch/KeyPair.java org/kknickkk/spider/Tasks/GetFilesTask.java com/jcraft/jsch/DHG14.java com/jcraft/jsch/DHECN.java com/jcraft/jsch/jce/MD5.java org/kknickkk/spider/FolderActivity.java com/jcraft/jsch/jcraft/HMACSHA1.java com/jcraft/jsch/jcraft/HMACMD5.java org/kknickkk/spider/Tasks/ConnectTask.java org/kknickkk/spider/Tasks/DownloadTask.java com/jcraft/jsch/DHG1.java com/jcraft/jsch/Session.java com/jcraft/jsch/jce/SHA1.java org/kknickkk/spider/RegisterActivity.java com/jcraft/jsch/KeyExchange.java com/jcraft/jsch/jce/SHA256.java com/jcraft/jsch/KnownHosts.java org/kknickkk/spider/Tasks/UploadTask.java

NO	ISSUE	SEVERITY	STANDARDS	FILES
4	IP Address disclosure	warning	CWE: CWE-200: Information Exposure OWASP MASVS: MSTG-CODE-2	com/jcraft/jsch/jgss/GSSContextKrb5.java com/jcraft/jsch/ChannelX11.java com/jcraft/jsch/ChannelForwardedTCP IP.java com/jcraft/jsch/PortWatcher.java com/jcraft/jsch/Session.java com/jcraft/jsch/ChannelDirectTCPIP.java
5	MD5 is a weak hash known to have hash collisions.	warning	CWE: CWE-327: Use of a Broken or Risky Cryptographic Algorithm OWASP Top 10: M5: Insufficient Cryptography OWASP MASVS: MSTG-CRYPTO-4	com/jcraft/jsch/jce/MD5.java com/jcraft/jsch/jcraft/HMACMD5.java
6	App can read/write to External Storage. Any App can read data written to External Storage.	warning	CWE: CWE-276: Incorrect Default Permissions OWASP Top 10: M2: Insecure Data Storage OWASP MASVS: MSTG-STORAGE-2	org/kknickkk/spider/Tasks/DownloadTask.java
7	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	com/jcraft/jsch/KeyExchange.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.

NO	IDENTIFIER	REQUIREMENT	FEATURE	DESCRIPTION
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 implement asymmetric key generation.
4	FDP_DEC_EXT.1.1	Security Functional Requirements	Access to Platform Resources	The application has access to ['network connectivity'].
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.

NO	IDENTIFIER	REQUIREMENT	FEATURE	DESCRIPTION
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_CKM.1.1(3) , FCS_CKM.1.2(3)	Selection-Based Security Functional Requirements	Password Conditioning	A password/passphrase shall perform [Password-based Key Derivation Functions] in accordance with a specified cryptographic algorithm..
12	FCS_COP.1.1(1)	Selection-Based Security Functional Requirements	Cryptographic Operation - Encryption/Decryption	The application perform encryption/decryption not in accordance with FCS_COP.1.1(1) , AES-ECB mode is being used.
13	FCS_COP.1.1(2)	Selection-Based Security Functional Requirements	Cryptographic Operation - Hashing	The application perform cryptographic hashing services not in accordance with FCS_COP.1.1(2) and uses the cryptographic algorithm RC2/RC4/MD4/MD5.
14	FCS_COP.1.1(3)	Selection-Based Security Functional Requirements	Cryptographic Operation - Signing	The application perform cryptographic signature services (generation and verification) in accordance with a specified cryptographic algorithm RSA schemes using cryptographic key sizes of 2048-bit or greater.



EMAIL	FILE
posix-rename@openssh.com statvfs@openssh.com hardlink@openssh.com	com/jcraft/jsch/ChannelSftp.java
auth-agent-req@openssh.com	com/jcraft/jsch/RequestAgentForwarding.java
auth-agent@openssh.com	com/jcraft/jsch/ChannelAgentForwarding.java
auth-agent@openssh.com	com/jcraft/jsch/Channel.java
zlib@openssh.com	com/jcraft/jsch/OpenSSHConfig.java
keepalive@jcraft.com no-more-sessions@openssh.com auth-agent@openssh.com zlib@openssh.com	com/jcraft/jsch/Session.java
zlib@openssh.com	com/jcraft/jsch/JSch.java

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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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