



# ANDROID STATIC ANALYSIS REPORT



 Rsync Server (0.9.7)

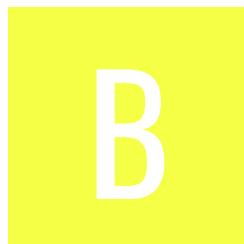
File Name: `installer382.apk`

Package Name: `com.github.ktsr42.rsyncserver`






Scan Date: May 31, 2022, 4:09 p.m.

App Security Score: **52/100 (MEDIUM RISK)**

Grade:



## FINDINGS SEVERITY

 HIGH	 MEDIUM	 INFO	 SECURE	 HOTSPOT
1	6	1	1	1

## FILE INFORMATION

File Name: installer382.apk

Size: 1.45MB

MD5: 25d9d2f4064501f44abd903f84dac479

SHA1: 3645396396502c9bd68b906661dfeffb6151d0ef

SHA256: 9d86bce8b4a47039fb8f7ed7b67b0e00014abbb79bd8b68dbb0a3fb8c08448b3

## APP INFORMATION

App Name: Rsync Server

Package Name: com.github.ktsr42.rsyncserver

Main Activity: com.github.ktsr42.rsyncserver.MainActivity

Target SDK: 29

Min SDK: 26

Max SDK:

Android Version Name: 0.9.7

Android Version Code: 1

## APP COMPONENTS

Activities: 1  
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: 2020-11-16 15:35:01+00:00  
Valid To: 2048-04-03 15:35:01+00:00  
Issuer: C=UK, ST=ORG, L=ORG, O=fdroid.org, OU=FDroid, CN=FDroid  
Serial Number: 0x6ad6b6707034db2a  
Hash Algorithm: sha256  
md5: 0c7a227f193374d9bf2aca9e33bc4ef8  
sha1: 9f5dcaa57832f0ac435185fd812496148139f815  
sha256: 9fb4cb05d16788465d06f4a31099a06ef12f91017e773899fb1b52e5c2e1767e  
sha512: 5e73d3dabe1fea309efd071cc2014266c5329b80a53716a8325c287ced8b6409c2a5878aab5095b097de95c1f8bcb9979e5e34951640c84763767b00919c812a

TITLE	SEVERITY	DESCRIPTION
Signed Application	<a href="#">info</a>	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.ACCESS_NETWORK_STATE	normal	view network status	Allows an application to view the status of all networks.
android.permission.ACCESS_WIFI_STATE	normal	view Wi-Fi status	Allows an application to view the information about the status of Wi-Fi.
android.permission.INTERNET	normal	full Internet access	Allows an application to create network sockets.
android.permission.FOREGROUND_SERVICE	normal		Allows a regular application to use Service.startForeground.
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.

## 🌀 APKID ANALYSIS

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	<a href="#">The App logs information. Sensitive information should never be logged.</a>	info	CWE: CWE-532: Insertion of Sensitive Information into Log File OWASP MASVS: MSTG-STORAGE-3	com/github/ktsr42/rsyncserver/MainActivity.java com/github/perlundq/yajsync/ui/YajsyncClient.java com/github/ktsr42/rsyncserver/AndroidLoggingHandler.java com/github/ktsr42/rsyncserver/RsyncServer.java
2	<a href="#">The App uses an insecure Random Number Generator.</a>	warning	CWE: CWE-330: Use of Insufficiently Random Values OWASP Top 10: M5: Insufficient Cryptography OWASP MASVS: MSTG-CRYPTO-6	com/github/perlundq/yajsync/internal/util/Util.java
3	<a href="#">MD5 is a weak hash known to have hash collisions.</a>	warning	CWE: CWE-327: Use of a Broken or Risky Cryptographic Algorithm OWASP Top 10: M5: Insufficient Cryptography OWASP MASVS: MSTG-CRYPTO-4	com/github/perlundq/yajsync/internal/util/MD5.java
4	<a href="#">Files may contain hardcoded sensitive information like usernames, passwords, keys etc.</a>	warning	CWE: CWE-312: Cleartext Storage of Sensitive Information OWASP Top 10: M9: Reverse Engineering OWASP MASVS: MSTG-STORAGE-14	com/github/perlundq/yajsync/internal/util/Environment.java
5	<a href="#">App can read/write to External Storage. Any App can read data written to External Storage.</a>	warning	CWE: CWE-276: Incorrect Default Permissions OWASP Top 10: M2: Insecure Data Storage OWASP MASVS: MSTG-STORAGE-2	com/github/ktsr42/rsyncserver/RsyncServer.java
6	App creates temp file. Sensitive information should never be written into a temp file.	warning	CWE: CWE-276: Incorrect Default Permissions OWASP Top 10: M2: Insecure Data Storage OWASP MASVS: MSTG-STORAGE-2	com/github/perlundq/yajsync/internal/session/Receiver.java

# NIAP ANALYSIS v1.3

NO	IDENTIFIER	REQUIREMENT	FEATURE	DESCRIPTION
1	<a href="#">FCS_RBG_EXT.1.1</a>	Security Functional Requirements	Random Bit Generation Services	The application invoke platform-provided DRBG functionality for its cryptographic operations.
2	<a href="#">FCS_STO_EXT.1.1</a>	Security Functional Requirements	Storage of Credentials	The application does not store any credentials to non-volatile memory.
3	<a href="#">FCS_CKM_EXT.1.1</a>	Security Functional Requirements	Cryptographic Key Generation Services	The application generate no asymmetric cryptographic keys.
4	<a href="#">FDP_DEC_EXT.1.1</a>	Security Functional Requirements	Access to Platform Resources	The application has access to ['network connectivity'].
5	<a href="#">FDP_DEC_EXT.1.2</a>	Security Functional Requirements	Access to Platform Resources	The application has access to no sensitive information repositories.
6	<a href="#">FDP_NET_EXT.1.1</a>	Security Functional Requirements	Network Communications	The application has user/application initiated network communications.
7	<a href="#">FDP_DAR_EXT.1.1</a>	Security Functional Requirements	Encryption Of Sensitive Application Data	The application implement functionality to encrypt sensitive data in non-volatile memory.
8	<a href="#">FMT_MEC_EXT.1.1</a>	Security Functional Requirements	Supported Configuration Mechanism	The application invoke the mechanisms recommended by the platform vendor for storing and setting configuration options.



NO	IDENTIFIER	REQUIREMENT	FEATURE	DESCRIPTION
9	<a href="#">FTP_DIT_EXT.1.1</a>	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	<a href="#">FCS_RBG_EXT.2.1</a> , <a href="#">FCS_RBG_EXT.2.2</a>	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	<a href="#">FCS_COP.1.1(2)</a>	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.

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## Report Generated by - MobSF v3.5.2 Beta

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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