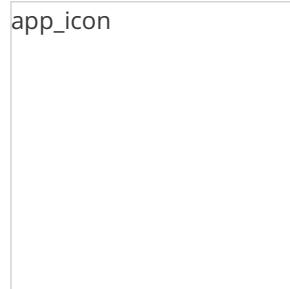




ANDROID STATIC ANALYSIS REPORT



 Android_DragonBall (1.0)

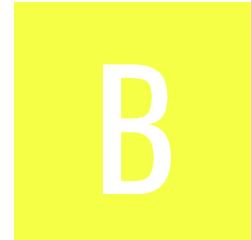
File Name: super-app.apk

Package Name: com.example.android_dragonball

Scan Date: May 31, 2025, 1:30 a.m.

App Security Score: **40/100 (MEDIUM RISK)**

Grade:



FINDINGS SEVERITY

 HIGH	 MEDIUM	 INFO	 SECURE	 HOTSPOT
3	4	1	1	0

FILE INFORMATION

File Name: super-app.apk

Size: 16.18MB

MD5: e0e474b22a39b42272e067af558e483b

SHA1: 89e525d9435ff980c2bb14285e76dfd9dd20a33a

SHA256: 56209d60ecae22c63f05bffb6a92c4f76e3167e2ed787c2410d674782e9d8933

APP INFORMATION

App Name: Android_DragonBall

Package Name: com.example.android_dragonball

Main Activity: com.example.android_dragonball.View.MainActivity

Target SDK: 33

Min SDK: 26

Max SDK:

Android Version Name: 1.0

Android Version Code: 1

■ APP COMPONENTS

Activities: 2

Services: 0

Receivers: 1

Providers: 1

Exported Activities: 0

Exported Services: 0

Exported Receivers: 1

Exported Providers: 0

✿ CERTIFICATE INFORMATION

Binary is signed

v1 signature: False

v2 signature: True

v3 signature: False

v4 signature: False

X.509 Subject: CN=Android Debug, O=Android, C=US

Signature Algorithm: rsassa_pkcs1v15

Valid From: 2023-01-05 12:01:24+00:00

Valid To: 2052-12-28 12:01:24+00:00

Issuer: CN=Android Debug, O=Android, C=US

Serial Number: 0x1

Hash Algorithm: sha1

md5: 053b4f9eeb205de9de5f87ba3da4b0ad

sha1: f68318690429d90856acd3e330c2b6c8c80d9781

sha256: 92148484959a479fdf60b55b3d8c8aa0db859b0941a4543141f7add4cf644a36

sha512: 535786a569185512d718c5b88b3566dbafaf0e572f935b4251a42907cc3c3d36970e52b09d794942b13679feefe9d806704bba8f5dff9b3548e80c6b06f67ddd

PublicKey Algorithm: rsa

Bit Size: 2048

Fingerprint: 38eb86e621b2aa4d9b028c08ce1968d5f391c7593ff0d6f53116a6c02a167f71

Found 1 unique certificates

☰ 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.
com.example.android_dragonball.DYNAMIC_RECEIVER_NOT_EXPORTED_PERMISSION	unknown	Unknown permission	Unknown permission from android reference

apkID ANALYSIS

FILE	DETAILS	
	FINDINGS	DETAILS
classes3.dex	Compiler	r8 without marker (suspicious)
	Compiler	r8 without marker (suspicious)
classes6.dex	Compiler	r8 without marker (suspicious)
	Compiler	r8 without marker (suspicious)

FILE	DETAILS	
	FINDINGS	DETAILS
classes5.dex	Compiler	r8 without marker (suspicious)
classes4.dex	Compiler	r8 without marker (suspicious)
classes2.dex	Compiler	
		dx
classes7.dex	Compiler	r8 without marker (suspicious)
classes.dex	Anti-VM Code	Build.FINGERPRINT check Build.MODEL check Build.MANUFACTURER check
	Compiler	r8 without marker (suspicious)

NETWORK SECURITY

NO	SCOPE	SEVERITY	DESCRIPTION
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CERTIFICATE ANALYSIS

HIGH: 2 | WARNING: 0 | INFO: 1

TITLE	SEVERITY	DESCRIPTION
Signed Application	info	Application is signed with a code signing certificate
Application signed with debug certificate	high	Application signed with a debug certificate. Production application must not be shipped with a debug certificate.
Certificate algorithm vulnerable to hash collision	high	Application is signed with SHA1withRSA. SHA1 hash algorithm is known to have collision issues.

MANIFEST ANALYSIS

HIGH: 1 | WARNING: 3 | INFO: 0 | SUPPRESSED: 0

NO	ISSUE	SEVERITY	DESCRIPTION
1	App can be installed on a vulnerable Android version Android 8.0, minSdk=26]	warning	This application can be installed on an older version of android that has multiple vulnerabilities. Support an Android version => 10, API 29 to receive reasonable security updates.

NO	ISSUE	SEVERITY	DESCRIPTION
2	Debug Enabled For App [android:debuggable=true]	high	Debugging was enabled on the app which makes it easier for reverse engineers to hook a debugger to it. This allows dumping a stack trace and accessing debugging helper classes.
3	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.
4	Broadcast Receiver (androidx.profileinstaller.ProfileInstallReceiver) is Protected by a permission, but the protection level of the permission should be checked. Permission: android.permission.DUMP [android:exported=true]	warning	A Broadcast Receiver is found to be shared with other apps on the device therefore leaving it accessible to any other application on the device. It is protected by a permission which is not defined in the analysed application. As a result, the protection level of the permission should be checked where it is defined. If it is set to normal or dangerous, a malicious application can request and obtain the permission and interact with the component. If it is set to signature, only applications signed with the same certificate can obtain the permission.

</> CODE ANALYSIS

HIGH: 0 | WARNING: 1 | INFO: 1 | SECURE: 0 | SUPPRESSED: 0

NO	ISSUE	SEVERITY	STANDARDS	FILES
				com/bumptech/glide/Glide.java com/bumptech/glide/disklrucache/DiskLruCache.java com/bumptech/glide/gifdecoder/GifHeaderParser.java com/bumptech/glide/gifdecoder/StandardGifDecoder.java com/bumptech/glide/load/data/AssetPathFetcher.java com/bumptech/glide/load/data/HttpUrlFetcher.java com/bumptech/glide/load/data/LocalUriFetcher.java com/bumptech/glide/load/data/mediastore/ThumbFetcher.java com/bumptech/glide/load/data/mediastore/ThumbnailStreamOpener.java

NO	ISSUE	SEVERITY	STANDARDS	FILES com/bumptech/glide/load/engine/DecodeJob.java com/bumptech/glide/load/engine/DecodePath.java com/bumptech/glide/load/engine/Engine.java
1	<u>The App logs information. Sensitive information should never be logged.</u>	info	CWE: CWE-532: Insertion of Sensitive Information into Log File OWASP MASVS: MSTG-STORAGE-3	com/bumptech/glide/load/engine/GlideException.java com/bumptech/glide/load/engine/SourceGenerator.java com/bumptech/glide/load/engine(bitmap_recycle/LruArrayPool.java com/bumptech/glide/load/engine(bitmap_recycle/LruBitmapPool.java com/bumptech/glide/load/engine/cache/DiskLruCacheWrapper.java com/bumptech/glide/load/engine/cache/MemorySizeCalculator.java com/bumptech/glide/load/engine/executor/GlideExecutor.java com/bumptech/glide/load/engine/prefill/BitmapPreFillRunner.java com/bumptech/glide/load/model/ByteBufferEncoder.java com/bumptech/glide/load/model/ByteBufferFileLoader.java com/bumptech/glide/load/model/FileLoader.java com/bumptech/glide/load/model/ResourceLoader.java com/bumptech/glide/load/model/StreamEncoder.java com/bumptech/glide/load/resource/DefaultOnHeaderDecodedListener.java com/bumptech/glide/load/resource/bitmap/BitmapEncoder.java com/bumptech/glide/load/resource/bitmap/BitmapImageDecoderResourceDecoder.java com/bumptech/glide/load/resource/bitmap/DefaultImageHeaderParser.java com/bumptech/glide/load/resource/bitmap/Downsample.java com/bumptech/glide/load/resource/bitmap/DrawableToBitmapConverter.java com/bumptech/glide/load/resource/bitmap/HardwareConfigState.java com/bumptech/glide/load/resource/bitmap/TransformationUtils.java

NO	ISSUE	SEVERITY	STANDARDS	FILES com/bumptech/glide/load/resource/bitmap/VideoDecoder.java com/bumptech/glide/load/resource/gif/ByteBufferGifDecoder.java
				encoder.java com/bumptech/glide/load/resource/gif/GifDrawableEncoder.java com/bumptech/glide/load/resource/gif/StreamGifDecoder.java com/bumptech/glide/manager/DefaultConnectivityMonitorFactory.java com/bumptech/glide/manager/RequestManagerFragment.java com/bumptech/glide/manager/RequestManagerRetriever.java com/bumptech/glide/manager/RequestTracker.java com/bumptech/glide/manager/SingletonConnectivityReceiver.java com/bumptech/glide/manager/SupportRequestManagerFragment.java com/bumptech/glide/module/ManifestParser.java com/bumptech/glide/request/SingleRequest.java com/bumptech/glide/request/target/CustomViewTarget.java com/bumptech/glide/request/target/ViewTarget.java com/bumptech/glide/signature/ApplicationVersionSignature.java com/bumptech/glide/util/ContentLengthInputStream.java com/bumptech/glide/util/pool/FactoryPools.java
2	<u>Files may contain hardcoded sensitive information like usernames, passwords, keys etc.</u>	warning	CWE: CWE-312: Cleartext Storage of Sensitive Information OWASP Top 10: M9: Reverse Engineering OWASP MASVS: MSTG-STORAGE-14	com/bumptech/glide/load/Option.java com/bumptech/glide/load/engine/DataCacheKey.java com/bumptech/glide/load/engine/EngineResource.java com/bumptech/glide/load/engine/ResourceCacheKey.java com/bumptech/glide/manager/RequestManagerRetriever.java

 NIAP ANALYSIS v1.3

NO	IDENTIFIER	REQUIREMENT	FEATURE	DESCRIPTION
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 BEHAVIOUR ANALYSIS

RULE ID	BEHAVIOUR	LABEL	FILES
00013	Read file and put it into a stream	file	com/bumptech/glide/disklrucache/DiskLruCache.java com/bumptech/glide/load/ImageHeaderParserUtils.java com/bumptech/glide/load/model/FileLoader.java com/bumptech/glide/load/resource.bitmap/ImageReader.java okio/Okio_JvmOkioKt.java
00089	Connect to a URL and receive input stream from the server	command network	com/bumptech/glide/load/data/HttpUrlFetcher.java
00030	Connect to the remote server through the given URL	network	com/bumptech/glide/load/data/HttpUrlFetcher.java
00109	Connect to a URL and get the response code	network command	com/bumptech/glide/load/data/HttpUrlFetcher.java
00077	Read sensitive data(SMS, CALLLOG, etc)	collection sms callog calendar	com/bumptech/glide/load/data/mediastore/ThumbFetcher.java

 ABUSED PERMISSIONS

TYPE	MATCHES	PERMISSIONS
Malware Permissions	2/25	android.permission.INTERNET, android.permission.ACCESS_NETWORK_STATE
Other Common Permissions	0/44	

Malware Permissions:

Top permissions that are widely abused by known malware.

Other Common Permissions:

Permissions that are commonly abused by known malware.

! OFAC SANCTIONED COUNTRIES

This app may communicate with the following OFAC sanctioned list of countries.

DOMAIN	COUNTRY/REGION

🔍 DOMAIN MALWARE CHECK

DOMAIN	STATUS	GEOLOCATION
dragonball.keepcoding.education	ok	IP: 157.180.72.14 Country: Germany Region: Bayern City: Gunzenhausen Latitude: 48.323330 Longitude: 11.601220 View: Google Map

HARDCODED SECRETS

POSSIBLE SECRETS
258EAFA5-E914-47DA-95CA-C5AB0DC85B11

SCAN LOGS

Timestamp	Event	Error
2025-05-31 01:30:37	Generating Hashes	OK
2025-05-31 01:30:37	Extracting APK	OK
2025-05-31 01:30:37	Unzipping	OK
2025-05-31 01:30:38	Parsing APK with androguard	OK
2025-05-31 01:30:38	Extracting APK features using aapt/aapt2	OK
2025-05-31 01:30:38	Getting Hardcoded Certificates/Keystores	OK

2025-05-31 01:30:41	Parsing AndroidManifest.xml	OK
2025-05-31 01:30:42	Extracting Manifest Data	OK
2025-05-31 01:30:42	Manifest Analysis Started	OK
2025-05-31 01:30:42	Performing Static Analysis on: Android_DragonBall (com.example.android_dragonball)	OK
2025-05-31 01:30:42	Fetching Details from Play Store: com.example.android_dragonball	OK
2025-05-31 01:30:42	Checking for Malware Permissions	OK
2025-05-31 01:30:42	Fetching icon path	OK
2025-05-31 01:30:42	Library Binary Analysis Started	OK
2025-05-31 01:30:42	Reading Code Signing Certificate	OK
2025-05-31 01:30:43	Running APKiD 2.1.5	OK
2025-05-31 01:30:47	Updating Trackers Database....	OK

2025-05-31 01:30:47	Detecting Trackers	OK
2025-05-31 01:30:51	Decompiling APK to Java with JADX	OK
2025-05-31 01:31:09	Converting DEX to Smali	OK
2025-05-31 01:31:09	Code Analysis Started on - java_source	OK
2025-05-31 01:31:11	Android SBOM Analysis Completed	OK
2025-05-31 01:31:15	Android SAST Completed	OK
2025-05-31 01:31:16	Android API Analysis Started	OK
2025-05-31 01:31:20	Android API Analysis Completed	OK
2025-05-31 01:31:20	Android Permission Mapping Started	OK
2025-05-31 01:31:24	Android Permission Mapping Completed	OK
2025-05-31 01:31:24	Android Behaviour Analysis Started	OK

2025-05-31 01:31:28	Android Behaviour Analysis Completed	OK
2025-05-31 01:31:28	Extracting Emails and URLs from Source Code	OK
2025-05-31 01:31:28	Email and URL Extraction Completed	OK
2025-05-31 01:31:28	Extracting String data from APK	OK
2025-05-31 01:31:29	Extracting String data from Code	OK
2025-05-31 01:31:29	Extracting String values and entropies from Code	OK
2025-05-31 01:31:31	Performing Malware check on extracted domains	OK
2025-05-31 01:31:34	Saving to Database	OK

Report Generated by - MobSF v4.3.3

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.