ANDROID STATIC ANALYSIS REPORT

🤖 COVIDSafe (Failed)

File Name:	COVIDSafe 1.0.11.apk
Package Name:	Failed
Average CVSS Score:	5.7
App Security Score:	75/100 (LOW RISK)

🗃 FILE INFORMATION

File Name: COVIDSafe 1.0.11.apk
Size: 5.88MB
MD5: 9b1987abd1168d08c128b88594851704
SHA1: 1d0b925632815d65f2ac0fa47114edbfa199f007
SHA256: 7f9b0ad362b473f13e168497c2855ecf43563c61f0609d63d40017e639e1a54b

ⓘ APP INFORMATION

App Name: COVIDSafe
Package Name: Failed
Main Activity:
Target SDK:
Min SDK:
Max SDK:
Android Version Name: Failed
Android Version Code: Failed

▦ APP COMPONENTS

Activities: 0
Services: 0
Receivers: 0
Providers: 0
Exported Activities: 0
Exported Services: 0
Exported Receivers: 0
Exported Providers: 0

✹ CERTIFICATE INFORMATION

APK is signed
v1 signature: True
v2 signature: True
v3 signature: False
Found 1 unique certificates
Subject: C=US, ST=California, L=Mountain View, O=Google Inc., OU=Android, CN=Android
Signature Algorithm: rsassa_pkcs1v15
Valid From: 2020-04-21 09:35:16+00:00
Valid To: 2050-04-21 09:35:16+00:00
Issuer: C=US, ST=California, L=Mountain View, O=Google Inc., OU=Android, CN=Android
Serial Number: 0x9a6d0c98d0a8e04fca7b13f376dff0c6f389594
Hash Algorithm: sha256
md5: 04d600164f9a4385b4cf2df78f551ecb
sha1: 126fffc40704b04ebd36b2731d36a05a00eeab88
sha256: d0d10d4c62aca111a4e466a6dd332bd279da8e3d9ea220aad28b36f3751702eb
sha512:
d41b054c72e298f6cdc8176eb9151867aebaad64c08d3ed3dc5452d01c11358f71514acf291af07baf781ce4728207d41af3b10dc7f25bf9140177c8b4b3088b

PublicKey Algorithm: rsa
Bit Size: 4096

Fingerprint: d4d911d4c3c30b01fd8649fe13c647a9aab9b40ab627a08a1a4e32609235a593

Certificate Status: Good
Description: Certificate looks good.

🔍 APKID ANALYSIS

FILE	DETAILS		
classes.dex	**FINDINGS**	**DETAILS**	
	Anti-VM Code	Build.MANUFACTURER check	
	Compiler	dx	
classes2.dex	**FINDINGS**	**DETAILS**	
	Compiler	dx	

🔍 MANIFEST ANALYSIS

ISSUE	SEVERITY	DESCRIPTION

</> CODE ANALYSIS

ISSUE	SEVERITY	STANDARDS	FILES

ISSUE	SEVERITY	STANDARDS	FILES
This App uses Java Hash Code. It's a weak hash function and should never be used in Secure Crypto Implementation.	warning	**CVSS V2**: 2.3 (low) **CWE**: CWE-327 - Use of a Broken or Risky Cryptographic Algorithm **OWASP MASVS**: MSTG-CRYPTO-4	kotlinx/coroutines/JobCancellationException.java kotlinx/coroutines/CoroutineContextKt.java kotlinx/coroutines/CoroutineName.java kotlinx/coroutines/DebugKt.java kotlinx/coroutines/internal/ThreadLocalKey.java kotlinx/coroutines/internal/InlineList.java kotlinx/coroutines/channels/ValueOrClosed.java io/reactivex/Notification.java io/reactivex/internal/util/NotificationLite.java io/reactivex/internal/util/OpenHashSet.java io/reactivex/internal/util/VolatileSizeArrayList.java io/reactivex/internal/functions/ObjectHelper.java io/reactivex/schedulers/Timed.java retrofit2/Utils.java au/gov/health/covidsafe/ui/onboarding/fragment/enterpin/EnterPinFragmentArgs.java au/gov/health/covidsafe/ui/onboarding/fragment/enternumber/EnterNumberFragmentDirections.java au/gov/health/covidsafe/networking/response/OTPChallengeResponse.java au/gov/health/covidsafe/networking/response/AuthChallengeResponse.java au/gov/health/covidsafe/networking/response/BroadcastMessageResponse.java au/gov/health/covidsafe/networking/response/InitiateUploadResponse.java au/gov/health/covidsafe/networking/request/AuthChallengeRequest.java au/gov/health/covidsafe/networking/request/OTPChallengeRequest.java au/gov/health/covidsafe/streetpass/CentralDevice.java au/gov/health/covidsafe/streetpass/ConnectionRecord.java au/gov/health/covidsafe/streetpass/PeripheralDevice.java au/gov/health/covidsafe/status/Status.java au/gov/health/covidsafe/interactor/Failure.java au/gov/health/covidsafe/interactor/Success.java au/gov/health/covidsafe/interactor/usecase/GetOtpParams.java rx/Notification.java rx/internal/util/OpenHashSet.java rx/schedulers/Timestamped.java rx/schedulers/TimeInterval.java com/airbnb/lottie/LottieDrawable.java com/airbnb/lottie/parser/ContentModelParser.java com/airbnb/lottie/parser/ShapeStrokeParser.java com/airbnb/lottie/parser/MaskParser.java com/airbnb/lottie/parser/LottieCompositionMoshiParser.java com/airbnb/lottie/parser/moshi/LinkedHashTreeMap.java com/airbnb/lottie/model/MutablePair.java com/airbnb/lottie/model/DocumentData.java com/airbnb/lottie/model/FontCharacter.java com/github/razir/progressbutton/DrawableViewData.java

ISSUE	SEVERITY	STANDARDS	FILES
Files may contain hardcoded sensitive informations like usernames, passwords, keys etc.	high	**CVSS V2:** 7.4 (high) **CWE:** CWE-312 - Cleartext Storage of Sensitive Information **OWASP Top 10:** M9: Reverse Engineering **OWASP MASVS:** MSTG-STORAGE-14	io/reactivex/internal/schedulers/SchedulerPoolFactory.java au/gov/health/covidsafe/bluetooth/gatt/GATTKt.java au/gov/health/covidsafe/services/BluetoothMonitoringService.java rx/internal/schedulers/NewThreadWorker.java com/atlassian/mobilekit/module/core/DeviceInfo.java com/atlassian/mobilekit/module/feedback/network/BaseApiParams.java
The App logs information. Sensitive information should never be logged.	info	**CVSS V2:** 7.5 (high) **CWE:** CWE-532 - Insertion of Sensitive Information into Log File **OWASP MASVS:** MSTG-STORAGE-3	au/gov/health/covidsafe/logging/CentralLog.java pub/devrel/easypermissions/EasyPermissions.java pub/devrel/easypermissions/helper/BaseSupportPermissionsHelper.java pub/devrel/easypermissions/helper/ActivityPermissionHelper.java com/airbnb/lottie/LottieAnimationView.java com/airbnb/lottie/PerformanceTracker.java com/airbnb/lottie/utils/LogcatLogger.java com/atlassian/mobilekit/module/feedback/FeedbackClient.java com/atlassian/mobilekit/module/feedback/commands/SendFeedbackCommand.java com/atlassian/mobilekit/module/feedback/commands/LoadFeedbackConfigCommand.java

🔍 DOMAIN MALWARE CHECK

DOMAIN	STATUS	GEOLOCATION
github.com	good	**IP:** 52.64.108.95 **Country:** Australia **Region:** New South Wales **City:** Sydney **Latitude:** -33.867851 **Longitude:** 151.207321 **View:** Google Map
www.australia.gov.au	good	**IP:** 52.85.43.34 **Country:** Australia **Region:** Victoria **City:** Melbourne **Latitude:** -37.813999 **Longitude:** 144.963318 **View:** Google Map
covid-form.service.gov.au	good	**IP:** 13.210.163.207 **Country:** Australia **Region:** New South Wales **City:** Sydney **Latitude:** -33.867851 **Longitude:** 151.207321 **View:** Google Map

DOMAIN	STATUS	GEOLOCATION
play.google.com	good	**IP:** 216.58.196.142 **Country:** United States of America **Region:** California **City:** Mountain View **Latitude:** 37.405991 **Longitude:** -122.078514 **View:** Google Map
cdn.plot.ly	good	**IP:** 151.101.82.217 **Country:** United States of America **Region:** California **City:** San Francisco **Latitude:** 37.7757 **Longitude:** -122.395203 **View:** Google Map
device-api.uat.unp.aws.covidsafe.gov.au	good	**IP:** 52.85.43.21 **Country:** Australia **Region:** Victoria **City:** Melbourne **Latitude:** -37.813999 **Longitude:** 144.963318 **View:** Google Map
www.covidsafe.gov.au	good	**IP:** 13.210.163.207 **Country:** Australia **Region:** New South Wales **City:** Sydney **Latitude:** -33.867851 **Longitude:** 151.207321 **View:** Google Map
www.health.gov.au	good	**IP:** 23.213.128.15 **Country:** Australia **Region:** Victoria **City:** Melbourne **Latitude:** -37.813999 **Longitude:** 144.963318 **View:** Google Map
www.homeaffairs.gov.au	good	**IP:** 164.97.249.143 **Country:** Australia **Region:** Australian Capital Territory **City:** Belconnen **Latitude:** -35.216671 **Longitude:** 149.083328 **View:** Google Map
covidsafe.gov.au	good	**IP:** 54.252.130.223 **Country:** Australia **Region:** New South Wales **City:** Sydney **Latitude:** -33.867851 **Longitude:** 151.207321 **View:** Google Map

DOMAIN	STATUS	GEOLOCATION
device-api.prod.lp.aws.covidsafe.gov.au	good	**IP:** 52.85.43.206 **Country:** Australia **Region:** Victoria **City:** Melbourne **Latitude:** -37.813999 **Longitude:** 144.963318 View: Google Map

🌐 URLS

URL	FILE
https://github.com/ReactiveX/RxJava/wiki/Plugins	io/reactivex/Single.java
https://github.com/ReactiveX/RxJava/wiki/Plugins	io/reactivex/Flowable.java
https://github.com/ReactiveX/RxJava/wiki/Plugins	io/reactivex/Observable.java
https://github.com/ReactiveX/RxJava/wiki/Plugins	io/reactivex/Maybe.java
https://github.com/ReactiveX/RxJava/wiki/Plugins	io/reactivex/Completable.java
https://github.com/ReactiveX/RxJava/wiki/Error-Handling	io/reactivex/exceptions/OnErrorNotImplementedException.java
https://github.com/ReactiveX/RxJava/wiki/What's-different-in-2.0#error-handling	io/reactivex/exceptions/UndeliverableException.java
http://localhost/	retrofit2/Response.java
https://cdn.plot.ly/plotly-latest.min.js'	au/gov/health/covidsafe/PlotActivity$onCreate$zipResult$2.java
https://device-api.prod.lp.aws.covidsafe.gov.au https://www.homeaffairs.gov.au/access-and-accountability/using-our-website/web-privacy https://play.google.com/store/apps/details?id=sg.gov.tech.covidafe	au/gov/health/covidsafe/BuildConfig.java
https://www.covidsafe.gov.au/help-topics.html	au/gov/health/covidsafe/ui/home/HelpFragment$createWebVieClient$1.java
https://www.covidsafe.gov.au/help-topics.html	au/gov/health/covidsafe/ui/home/HelpFragment.java
https://www.covidsafe.gov.au/help-topics.html	au/gov/health/covidsafe/ui/home/HelpFragmentKt.java
https://device-api.uat.unp.aws.covidsafe.gov.au	au/gov/health/covidsafe/factory/RetrofitServiceGenerator.java
https://www.health.gov.au/resources/apps-and-tools/coronavirus-australia-app https://www.australia.gov.au https://covid-form.service.gov.au https://covidsafe.gov.au	Android String Resource

✉ EMAILS

EMAIL	FILE
this@bluetoothmonitoringservice.applicationcontext	au/gov/health/covidsafe/services/BluetoothMonitoringService.java

App Security Score Calculation

Every app is given an ideal score of 100 to begin with.
For every findings with severity high we reduce 15 from the score.
For every findings with severity warning we reduce 10 from the score.
For every findings with severity good we add 5 to the score.
If the calculated score is greater than 100, then the app security score is considered as 100.
And if the calculated score is less than 0, then the app security score is considered as 10.

Risk Calculation

APP SECURITY SCORE	RISK
0 - 15	CRITICAL
16 - 40	HIGH
41 - 70	MEDIUM
71 - 100	LOW

Report Generated by - MobSF v3.0.8 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.