

ANDROID STATIC ANALYSIS REPORT



COVID Alert NY (1.2.0)

File Name: COVID Alert NY_v1.2.0_apkpure.com.xapk

Package Name: gov.ny.health.proximity

Average CVSS Score: 0

App Security Score: 100/100 (LOW RISK)

Scan Date: Feb. 20, 2022, 5:05 p.m.



File Name: COVID Alert NY_v1.2.0_apkpure.com.xapk

Size: 5.47MB

MD5: 6a9a2639151445d9327e92f98540e959

SHA1: 8a17f9961087f3535414a4d9a3a2c0ae4f7f1ff2

SHA256: 0015bda90ff581d446fddabc78df65825967cb0ccea8caf698e748c6a6411843

i APP INFORMATION

App Name: COVID Alert NY

Package Name: gov.ny.health.proximity

Main Activity: gov.ny.health.proximity.MainActivity

Target SDK: 30 Min SDK: 23 Max SDK:

Android Version Name: 1.2.0 Android Version Code: 87

EE APP COMPONENTS

Activities: 2 Services: 11 Receivers: 15 Providers: 4

Exported Activities: 0
Exported Services: 3
Exported Receivers: 4
Exported Providers: 0



APK is signed

v1 signature: True v2 signature: True v3 signature: True

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: 2020-07-27 22:39:31+00:00 Valid To: 2050-07-27 22:39:31+00:00 Issuer: C=US, ST=California, L=Mountain View, O=Google Inc., OU=Android, CN=Android

Serial Number: 0x440852787cbb9c8939dbce4e5cbf3bdc384552e4

Hash Algorithm: sha256

md5: dc2d578109251f1fa27a0ceed85dd4b2

sha1: 741b862dd0fa2d0d659ef8cbe95f2707b74d59ca

sha256: d1ac765b2dcb237ab0c6e49e27ceb22412f4d23f0c55905e73981f45cba5fa76

 $sha512: 608c479 \\ de43 \\ d66c3 \\ a0007 \\ b6289 \\ ed80 \\ af38ecd72242 \\ b01 \\ fa7310915408545 \\ a22 \\ aa6ef8 \\ b5248 \\ bab2 \\ ad8bfd0 \\ b98090 \\ c77109 \\ a7699 \\ ff68ff3251 \\ b5a187 \\ d5ae9f7 \\ cedebar \\ ababe \\ abab2 \\ ad8bfd0 \\ b98090 \\ c77109 \\ a7699 \\ ff68ff3251 \\ b5a187 \\ d5ae9f7 \\ cedebar \\ abab2 \\ ad8bfd0 \\ b98090 \\ c77109 \\ a7699 \\ ff68ff3251 \\ b5a187 \\ d5ae9f7 \\ cedebar \\ abab2 \\ abab2$

PublicKey Algorithm: rsa

Bit Size: 4096

Fingerprint: fb7e1562ae6323cd5b4e21c1f74f1ed51f3985b7eb0fa69f4b72c49ed6daa4f0

STATUS	DESCRIPTION
secure	Application is signed with a code signing certificate
warning	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.

EXAMPLICATION PERMISSIONS

PERMISSION	STATUS	INFO	DESCRIPTION
android.permission.BLUETOOTH	normal	create Bluetooth connections	Allows applications to connect to paired bluetooth devices.
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.

PERMISSION	STATUS	INFO	DESCRIPTION
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.RECEIVE_BOOT_COMPLETED	normal	automatically start at boot	Allows an application to start itself as soon as the system has finished booting. This can make it take longer to start the phone and allow the application to slow down the overall phone by always running.
android.permission.FOREGROUND_SERVICE	normal		Allows a regular application to use Service.startForeground.
android.permission.VIBRATE	normal	control vibrator	Allows the application to control the vibrator.

MAPKID ANALYSIS

FILE	DETAILS			
	FINDINGS	DETAILS		
classes.dex	Anti-VM Code	Build.FINGERPRINT check Build.MANUFACTURER check possible Build.SERIAL check		
	Compiler	unknown (please file detection issue!)		



ACTIVITY	INTENT
gov.ny.health.proximity.MainActivity	Schemes: gov.ny.health.proximity://, https://, Hosts: us-ny.en.express,

A NETWORK SECURITY

NO SCOPE SEVERITY	DESCRIPTION
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Q MANIFEST ANALYSIS

NO	ISSUE	SEVERITY	DESCRIPTION
1	Broadcast Receiver (com.dieam.reactnativepushnotification.modules.RNPushNotificationBootEventReceiver) is not Protected. An intent-filter exists.	high	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. The presence of intent-filter indicates that the Broadcast Receiver is explicitly exported.

NO	ISSUE	SEVERITY	DESCRIPTION
2	Broadcast Receiver (ie.gov.tracing.nearby.ExposureNotificationBroadcastReceiver) is Protected by a permission, but the protection level of the permission should be checked. Permission: com.google.android.gms.nearby.exposurenotification.EXPOSURE_CALLBACK [android:exported=true]	high	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.
3	Service (com.google.android.gms.nearby.exposurenotification.WakeUpService) is Protected by a permission, but the protection level of the permission should be checked. Permission: com.google.android.gms.nearby.exposurenotification.EXPOSURE_CALLBACK [android:exported=true]	high	A Service 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.

NO	ISSUE	SEVERITY	DESCRIPTION
4	Broadcast Receiver (com.google.firebase.iid.FirebaseInstanceIdReceiver) is Protected by a permission, but the protection level of the permission should be checked. Permission: com.google.android.c2dm.permission.SEND [android:exported=true]	high	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.
5	Service (androidx.work.impl.background.gcm.WorkManagerGcmService) is Protected by a permission, but the protection level of the permission should be checked. Permission: com.google.android.gms.permission.BIND_NETWORK_TASK_SERVICE [android:exported=true]	high	A Service 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.

NO	ISSUE	SEVERITY	DESCRIPTION
6	Service (androidx.work.impl.background.systemjob.SystemJobService) is Protected by a permission, but the protection level of the permission should be checked. Permission: android.permission.BIND_JOB_SERVICE [android:exported=true]	high	A Service 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.
7	Broadcast Receiver (androidx.work.impl.diagnostics.DiagnosticsReceiver) is Protected by a permission, but the protection level of the permission should be checked. Permission: android.permission.DUMP [android:exported=true]	high	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

NO	ICCLIE	CEVEDITY	CTAND ADD C	FUEC	
NO	ISSUE	SEVERITY	STANDARDS	FILES	

■ NIAP ANALYSIS v1.3

NO	IDENTIFIER	REQUIREMENT	FEATURE	DESCRIPTION

Q DOMAIN MALWARE CHECK

DOMAIN	STATUS	GEOLOCATION
www.zetetic.net	good	IP: 65.8.68.70 Country: United States of America Region: Washington City: Seattle Latitude: 47.606209 Longitude: -122.332069 View: Google Map
expo.io	good	IP: 34.132.55.135 Country: United States of America Region: Texas City: Houston Latitude: 29.941401 Longitude: -95.344498 View: Google Map

DOMAIN	STATUS	GEOLOCATION
github.com	good	IP: 140.82.114.3 Country: United States of America Region: California City: San Francisco Latitude: 37.775700 Longitude: -122.395203 View: Google Map
schemas.android.com	good	No Geolocation information available.

URLS

URL	FILE
data:image	com/bumptech/glide/load/o/e.java
http://schemas.android.com/apk/res/android	f/h/e/e/g.java
https://expo.io	i/a/j/f.java
https://github.com/ReactiveX/RxJava/wiki/Plugins	j/a/b.java
https://github.com/ReactiveX/RxJava/wiki/What's-different-in-2.0#error-handling	j/a/g/e.java
https://www.zetetic.net/sqlcipher/ https://www.zetetic.net/sqlcipher/license/ https://github.com/sqlcipher/android-database-sqlcipher	Android String Resource



POSSIBLE SECRETS

"library android database sqlcipher author": "Zetetic, LLC"

"library_android_database_sqlcipher_authorWebsite": "https://www.zetetic.net/sqlcipher/"

> PLAYSTORE INFORMATION

Title: COVID Alert NY

Score: 3.8669724 Installs: 500,000+ Price: 0 Android Version Support: 6.0 and up Category: Health & Fitness Play Store URL: gov.ny.health.proximity

Developer Details: New York State Department of Health, New+York+State+Department+of+Health, None, https://covidalertny.health.ny.gov/, covidalertny@health.ny.gov/

Release Date: Sep 24, 2020 Privacy Policy: Privacy link

Description:

This is the official app of New York State, run by the NYS Department of Health as part of New York State's comprehensive COVID-19 testing and contact tracing effort. The ultimate goal is to help reduce the spread of COVID-19 by: 1. Alerting you if a sick person spends 10 mins or more within 6 feet of you, because this puts you at a higher risk of SARS CoV-2 infection, which causes COVID-19. 2. Encouraging you to contribute to the health and safety of your friends, family and community by alerting others if you test positive, WITHOUT REVEALING YOUR IDENTITY TO ANYONE! 3. Getting you important resources and help if you are exposed or test positive. You can call the COVID Alert NY Hotline or find helpful links to resources on next steps to protect your loved ones. 4. Keep a private log of your own symptoms which can help your health care provider and public health representatives determine next steps. The app leverages a completely private and secure Bluetooth-based technology that Apple and Google developed. The app's source code is available to the public and has been vetted extensively by privacy and security experts. We never see your location or identity, and no information on the use of this app can be traced back to you. Help us Stop the Spread of COVID-19 in New York.. Share this app with your friends and family so we can all be safer, together.

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 v3.4.5 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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