

# ANDROID STATIC ANALYSIS REPORT



#### ♠ BeAware Bahrain (0.1.4)

File Name: BeAware Bahrain 0.1.4.apk

Package Name: bh.bahrain.corona.tracker

Average CVSS Score: 6.0

App Security Score: 35/100 (HIGH RISK)

Trackers Detection: 2/285



File Name: BeAware Bahrain 0.1.4.apk

Size: 10.02MB

MD5: 0e1e78d6d6c8e1f8e73ac150c5a099ef

SHA1: 4ff5e801e93581a6a53c9cb3108a190e9bd7c578

SHA256: 55fd6e6c428c9ddf70725a6cabb7039ca4788bb64b09d06f3e72a2da11f2d57e

### **1** APP INFORMATION

App Name: BeAware Bahrain

Package Name: bh.bahrain.corona.tracker

Main Activity: bh.bahrain.corona.tracker.MainActivity

Target SDK: 29 Min SDK: 19 Max SDK:

Android Version Name: 0.1.4 Android Version Code: 14

#### **APP COMPONENTS**

Activities: 5
Services: 19
Receivers: 11
Providers: 5
Exported Activities: 0
Exported Services: 4
Exported Receivers: 6
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: 2020-03-20 19:15:32+00:00 Valid To: 2050-03-20 19:15:32+00:00

Issuer: C=US, ST=California, L=Mountain View, O=Google Inc., OU=Android, CN=Android

Serial Number: 0xabbe317a233fc3a102d6e35ba87eb3834424b1a0

Hash Algorithm: sha256

md5: e74bc2d64876acf4683e2a2fb3171035

sha1: 29a4dca386339b3b19d9af6d1dd09559bb7fa0fa

sha256: 19eaee479e0e3ac5255926e246ec62bf219d9fb68a8ee9abb242aeb04b5b0cb4

sha512:

0d34757304c8358771c3d575ec760f950d3b55b9947cf3f72647977c73c51e093b2e89da00dfc0b5c122e16acbded775202fb9336166840b41add135a136e6cd

PublicKey Algorithm: rsa

Bit Size: 4096

Fingerprint: 6fffb11ca7cb70bcd80696d39317a322d1775764369c62fa5231f208c741bbdf

Certificate Status: Good

**Description**: Certificate looks good.

### **∷** APPLICATION PERMISSIONS

PERMISSION	STATUS	INFO	DESCRIPTION
android.permission.INTERNET	dangerous	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.
android.permission.WRITE_EXTERNAL_STORAGE	dangerous	read/modify/delete SD card contents	Allows an application to write to the SD card.
android.permission.BLUETOOTH	dangerous	create Bluetooth connections	Allows an application to view configuration of the local Bluetooth phone and to make and accept connections with paired devices.
android.permission.READ_EXTERNAL_STORAGE	dangerous	read SD card contents	Allows an application to read from SD Card.
android.permission.WAKE_LOCK	dangerous	prevent phone from sleeping	Allows an application to prevent the phone from going to sleep.
android.permission.READ_CALENDAR	dangerous	read calendar events	Allows an application to read all of the calendar events stored on your phone. Malicious applications can use this to send your calendar events to other people.
android.permission.WRITE_CALENDAR	dangerous	add or modify calendar events and send emails to guests	Allows an application to add or change the events on your calendar, which may send emails to guests. Malicious applications can use this to erase or modify your calendar events or to send emails to guests.
android.permission.BLUETOOTH_ADMIN	dangerous	bluetooth administration	Allows an application to configure the local Bluetooth phone and to discover and pair with remote devices.

PERMISSION	STATUS	INFO	DESCRIPTION
android.permission.ACCESS_FINE_LOCATION	dangerous	fine (GPS) location	Access fine location sources, such as the Global Positioning System on the phone, where available. Malicious applications can use this to determine where you are and may consume additional battery power.
android.permission.ACCESS_BACKGROUND_LOCATION	dangerous	access location in background	Allows an app to access location in the background. If you're requesting this permission, you must also request either
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.GET_TASKS	dangerous	retrieve running applications	Allows application to retrieve information about currently and recently running tasks. May allow malicious applications to discover private information about other applications.
android.permission.ACCESS_COARSE_LOCATION	dangerous	coarse (network- based) location	Access coarse location sources, such as the mobile network database, to determine an approximate phone location, where available. Malicious applications can use this to determine approximately where you are.
android.permission.ACTIVITY_RECOGNITION	dangerous	allow application to recognize physical activity	Allows an application to recognize physical activity.
android.permission.ACCESS_LOCATION_EXTRA_COMMANDS	normal	access extra location provider commands	Access extra location provider commands. Malicious applications could use this to interfere with the operation of the GPS or other location sources.

PERMISSION	STATUS	INFO	DESCRIPTION
android.permission.FOREGROUND_SERVICE	normal		Allows a regular application to use Service.startForeground
com.google.android.gms.permission.ACTIVITY_RECOGNITION	dangerous	allow application to recognize physical activity	Allows an application to recognize physical activity.
oppo.permission.OPPO_COMPONENT_SAFE	dangerous	Unknown permission from android reference	Unknown permission from android reference
com.huawei.permission.external_app_settings.USE_COMPONENT	dangerous	Unknown permission from android reference	Unknown permission from android reference
com.sec.android.provider.badge.permission.READ	dangerous	Unknown permission from android reference	Unknown permission from android reference
com.sec.android.provider.badge.permission.WRITE	dangerous	Unknown permission from android reference	Unknown permission from android reference
com.htc.launcher.permission.READ_SETTINGS	dangerous	Unknown permission from android reference	Unknown permission from android reference
com.htc.launcher.permission.UPDATE_SHORTCUT	dangerous	Unknown permission from android reference	Unknown permission from android reference
com.sonyericsson.home.permission.BROADCAST_BADGE	dangerous	Unknown permission from android reference	Unknown permission from android reference
com.sonymobile.home.permission.PROVIDER_INSERT_BADGE	dangerous	Unknown permission from android reference	Unknown permission from android reference
com.anddoes.launcher.permission.UPDATE_COUNT	dangerous	Unknown permission from android reference	Unknown permission from android reference
com.majeur.launcher.permission.UPDATE_BADGE	dangerous	Unknown permission from android reference	Unknown permission from android reference
com.huawei.android.launcher.permission.CHANGE_BADGE	dangerous	Unknown permission from android reference	Unknown permission from android reference
com.huawei.android.launcher.permission.READ_SETTINGS	dangerous	Unknown permission from android reference	Unknown permission from android reference

PERMISSION		INFO	DESCRIPTION
com.huawei.android.launcher.permission.WRITE_SETTINGS	dangerous	modify global system settings	Allows an application to modify the system's settings data. Malicious applications can corrupt your system's configuration.
android.permission.READ_APP_BADGE	dangerous	Unknown permission from android reference	Unknown permission from android reference
com.oppo.launcher.permission.READ_SETTINGS	dangerous	Unknown permission from android reference	Unknown permission from android reference
com.oppo.launcher.permission.WRITE_SETTINGS	dangerous	modify global system settings	Allows an application to modify the system's settings data. Malicious applications can corrupt your system's configuration.
me.everything.badger.permission.BADGE_COUNT_READ	dangerous	Unknown permission from android reference	Unknown permission from android reference
me.everything.badger.permission.BADGE_COUNT_WRITE	dangerous	Unknown permission from android reference	Unknown permission from android reference
com.google.android.c2dm.permission.RECEIVE	signature	C2DM permissions	Permission for cloud to device messaging.
com.google.android.finsky.permission.BIND_GET_INSTALL_REFERRER_SERVICE	dangerous	Unknown permission from android reference	Unknown permission from android reference

# **MAPKID ANALYSIS**

FILE	DETAILS
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FILE	DETAILS		
FINDINGS		DETAILS	
	Obfuscator	DexProtector	
classes.dex	Anti-VM Code	Build.FINGERPRINT check Build.MODEL check Build.MANUFACTURER check Build.PRODUCT check possible Build.SERIAL check Build.TAGS check	
	Anti Debug Code	Debug.isDebuggerConnected() check	
	Compiler	dx (possible dexmerge)	
	Manipulator Found	dexmerge	

# **Q** MANIFEST ANALYSIS

ISSUE	SEVERITY	DESCRIPTION
Clear text traffic is Enabled For App [android:usesCleartextTraffic=true]	high	The app intends to use cleartext network traffic, such as cleartext HTTP, FTP stacks, DownloadManager, and MediaPlayer. The default value for apps that target API level 27 or lower is "true". Apps that target API level 28 or higher default to "false". The key reason for avoiding cleartext traffic is the lack of confidentiality, authenticity, and protections against tampering; a network attacker can eavesdrop on transmitted data and also modify it without being detected.
App has a Network Security Configuration [android:networkSecurityConfig]	info	The Network Security Configuration feature lets apps customize their network security settings in a safe, declarative configuration file without modifying app code. These settings can be configured for specific domains and for a specific app.
Application Data can be Backed up [android:allowBackup] flag is missing.	medium	The flag [android:allowBackup] should be set to false. By default it is set to true and 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.

ISSUE	SEVERITY	DESCRIPTION
Service (by.chemerisuk.cordova.firebase.FirebaseMessagingPluginService) is not Protected. An intent-filter exists.	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. The presence of intent-filter indicates that the Service is explicitly exported.
Broadcast Receiver (nl.xservices.plugins.ShareChooserPendingIntent) 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.
Launch Mode of Activity (de.appplant.cordova.plugin.localnotification.ClickReceiver) is not standard.	high	An Activity should not be having the launch mode attribute set to "singleTask/singleInstance" as it becomes root Activity and it is possible for other applications to read the contents of the calling Intent. So it is required to use the "standard" launch mode attribute when sensitive information is included in an Intent.
Service (com.transistorsoft.tsbackgroundfetch.FetchJobService) 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.
Broadcast Receiver (com.transistorsoft.tsbackgroundfetch.BootReceiver) 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.
Launch Mode of Activity (com.transistorsoft.locationmanager.activity.TSLocationManagerActivity) is not standard.	high	An Activity should not be having the launch mode attribute set to "singleTask/singleInstance" as it becomes root Activity and it is possible for other applications to read the contents of the calling Intent. So it is required to use the "standard" launch mode attribute when sensitive information is included in an Intent.

ISSUE	SEVERITY	DESCRIPTION
Service (com.transistorsoft.locationmanager.scheduler.ScheduleJobService) 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.
Broadcast Receiver (com.transistorsoft.locationmanager.BootReceiver) 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.
Broadcast Receiver (org.altbeacon.beacon.startup.StartupBroadcastReceiver) 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.
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.
Service (com.google.firebase.iid.FirebaseInstanceIdService) is not Protected. [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.

ISSUE	SEVERITY	DESCRIPTION
Broadcast Receiver (com.google.android.gms.measurement.AppMeasurementInstallReferrerReceiver) is Protected by a permission, but the protection level of the permission should be checked. Permission: android.permission.INSTALL_PACKAGES [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

ISSUE	SEVERITY	STANDARDS	FILES
			cordova/plugins/Diagnostic_Notification s.java cordova/plugins/Diagnostic_External_St orage.java cordova/plugins/Diagnostic_Camera.jav a cordova/plugins/Diagnostic_Wifi.java cordova/plugins/Diagnostic_Java cordova/plugins/Diagnostic_Location.ja va cordova/plugins/Diagnostic_Bluetooth.j ava cordova/plugins/Diagnostic_NFC.java by/chemerisuk/cordova/firebase/Fireba seMessagingPlugin.java by/chemerisuk/cordova/firebase/Fireba seAnalyticsPlugin.java org/altbeacon/beacon/BeaconParser.jav a org/altbeacon/beacon/service/ScanStat e.java org/altbeacon/beacon/logging/InfoAndr oidLogger.java org/altbeacon/beacon/logging/Warning AndroidLogger.java org/altbeacon/beacon/logging/Warning AndroidLogger.java org/slf4j/helpers/Util.java org/greenrobot/eventbus/EventBus.java org/greenrobot/eventbus/BackgroundPoster.java org/greenrobot/eventbus/util/AsyncExe cutor.java org/greenrobot/eventbus/util/ErrorDial ogManager.java org/greenrobot/eventbus/util/ErrorDial ogConfig.java

ISSUE	SEVERITY	STANDARDS	ToResourceMapping.java FILES ch/qos/logback/core/net/SocketConnect
			ch/qos/logback/core/net/DefaultSocket Connector.java ch/qos/logback/core/recovery/Resilient OutputStreamBase.java ch/qos/logback/core/joran/util/Configur ationWatchListUtil.java ch/qos/logback/core/spi/ContextAware Base.java ch/qos/logback/core/spi/ContextAwarel mpl.java ch/qos/logback/core/spi/ContextAwarel mpl.java ch/qos/logback/core/spi/ContextAwarel mpl.java ch/qos/logback/classic/net/SimpleSocke tServer.java ch/qos/logback/classic/spi/ThrowablePr oxy.java ch/qos/logback/classic/spi/ThrowablePr oxy.java ch/qos/logback/classic/pattern/TargetLe ngthBasedClassNameAbbreviator.java me/leolin/shortcutbadger/ShortcutBadg er.java nl/xservices/plugins/Calendar.java nl/xservices/plugins/accessor/AbstractC alendarAccessor.java de/appplant/cordova/plugin/notificatio n/util/AssetUtil.java de/appplant/cordova/plugin/notificatio n/action/ActionGroup.java com/transistorsoft/cordova/backgroun dfetch/BackgroundGeolocation.java com/transistorsoft/cordova/backgroun dfetch/BackgroundFetchHeadlessTask.j ava com/transistorsoft/locationmanager/log ger/TSLog.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	l/a.java com/transistorsoft/locationmanager/co nfig/TSNotification.java com/transistorsoft/locationmanager/co nfig/TSAuthorization.java com/transistorsoft/locationmanager/co nfig/TransistorAuthorizationToken.java com/transistorsoft/locationmanager/act ivity/TSLocationManagerActivity.java com/transistorsoft/locationmanager/loc ation/TSLocation.java com/transistorsoft/locationmanager/loc

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	ransistorsoft/locationmanager/ev
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	eofenceEvent.java
com/trans	ransistorsoft/locationmanager/ev
ent/Hearth	eartbeatEvent.java
	ransistorsoft/locationmanager/ev
	_
	eofencesChangeEvent.java

ISSUE	SEVERITY	STANDARDS	ent/MotionChangeEvent.java FILES com/transistorsoft/locationmanager/ev
			ent/LocationProviderChangeEvent.java com/transistorsoft/locationmanager/e/ a.java com/transistorsoft/locationmanager/b/ a.java com/transistorsoft/tsbackgroundfetch/ BackgroundFetch.java com/transistorsoft/tsbackgroundfetch/F etchAlarmReceiver.java com/transistorsoft/tsbackgroundfetch/ BackgroundFetchConfig.java com/transistorsoft/tsbackgroundfetch/ BootReceiver.java com/transistorsoft/tsbackgroundfetch/ BGTask.java com/transistorsoft/tsbackgroundfetch/ BGTask.java com/intentfilter/androidpermissions/he lpers/Logger.java com/inicframework/cordova/webview /WebViewLocalServer.java com/ionicframework/cordova/webview /AndroidProtocolHandler.java com/ionicframework/cordova/webview /IonicWebViewEngine.java
The App uses an insecure Random Number Generator.	high	CVSS V2: 7.5 (high)  CWE: CWE-330 - Use of Insufficiently Random  Values  OWASP Top 10: M5: Insufficient Cryptography  OWASP MASVS: MSTG-CRYPTO-6	cordova/plugins/Diagnostic.java de/appplant/cordova/plugin/notificatio n/Builder.java
This App may have root detection capabilities.	secure	CVSS V2: 0 (info)  OWASP MASVS: MSTG-RESILIENCE-1	cordova/plugins/Diagnostic.java

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	org/altbeacon/beacon/Region.java org/altbeacon/beacon/Beacon.java org/altbeacon/beacon/service/ExtraDat aBeaconTracker.java org/slf4j/helpers/SubstituteLogger.java org/slf4j/helpers/BasicMarker.java org/greenrobot/eventbus/SubscriberMe thod.java org/greenrobot/eventbus/Subscription.j ava ch/qos/logback/core/rolling/helper/File NamePattern.java ch/qos/logback/core/joran/spi/Element Selector.java ch/qos/logback/core/joran/spi/HostClas sAndPropertyDouble.java ch/qos/logback/core/status/StatusBase. java ch/qos/logback/core/spi/AbstractComp onentTracker.java ch/qos/logback/core/pattern/parser/For mattingNode.java ch/qos/logback/core/pattern/parser/No de.java ch/qos/logback/core/pattern/parser/Co mpositeNode.java ch/qos/logback/core/pattern/parser/To ken.java ch/qos/logback/core/pattern/parser/Si mpleKeywordNode.java ch/qos/logback/core/subst/Node.java ch/qos/logback/core/subst/Token.java ch/qos/logback/core/subst/Token.java ch/qos/logback/classic/spi/ClassPackagi ngData.java ch/qos/logback/classic/spi/StackTraceEl ementProxy.java ch/qos/logback/classic/spi/LoggingEven tVO.java ch/qos/logback/classic/spi/LoggingEven tVO.java ch/qos/logback/classic/spi/LoggerConte xtVO.java com/transistorsoft/locationmanager/A pplication.java com/transistorsoft/locationmanager/sc heduler/TSScheduleManager.java com/transistorsoft/tsbackgroundfetch/ BackgroundFetchConfig.java com/transistorsoft/tsbackgroundfetch/ BackgroundFetchConfig.java com/intentfilter/androidpermissions/Pe rmissionManager.java com/intentfilter/androidpermissions/se rvices/NotificationService.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	org/altbeacon/beacon/service/Ranging Data.java org/altbeacon/beacon/service/SettingsD ata.java org/altbeacon/beacon/service/Monitori ngData.java org/altbeacon/beacon/service/StartRM Data.java ch/qos/logback/core/CoreConstants.jav a ch/qos/logback/core/reconstants.jav a ch/qos/logback/core/rolling/helper/Dat eTokenConverter.java ch/qos/logback/core/rolling/helper/Inte gerTokenConverter.java ch/qos/logback/core/rolling/helper/Inte gerTokenConverter.java ch/qos/logback/classic/sift/ContextBase dDiscriminator.java ch/qos/logback/classic/joran/action/Co nfigurationAction.java de/appplant/cordova/plugin/badge/Bad gelmpl.java
App can read/write to External Storage. Any App can read data written to External Storage.	high	CVSS V2: 5.5 (medium) CWE: CWE-276 - Incorrect Default Permissions OWASP Top 10: M2: Insecure Data Storage OWASP MASVS: MSTG-STORAGE-2	ch/qos/logback/core/android/AndroidC ontextUtil.java nl/xservices/plugins/SocialSharing.java
App uses SQLite Database and execute raw SQL query. Untrusted user input in raw SQL queries can cause SQL Injection. Also sensitive information should be encrypted and written to the database.	high	CVSS V2: 5.9 (medium) CWE: CWE-89 - Improper Neutralization of Special Elements used in an SQL Command ('SQL Injection') OWASP Top 10: M7: Client Code Quality	ch/qos/logback/classic/android/SQLiteA ppender.java com/transistorsoft/locationmanager/log ger/TSSQLiteAppender.java com/transistorsoft/locationmanager/da ta/sqlite/b.java com/transistorsoft/locationmanager/da ta/sqlite/a.java com/transistorsoft/locationmanager/da ta/sqlite/GeofenceDAO.java
This App copies data to clipboard. Sensitive data should not be copied to clipboard as other applications can access it.	info	CVSS V2: 0 (info)  OWASP MASVS: MSTG-STORAGE-10	nl/xservices/plugins/SocialSharing.java

# **Q DOMAIN MALWARE CHECK**

DOMAIN	STATUS	GEOLOCATION
www.slf4j.org	good	IP: 83.173.251.158 Country: Switzerland Region: Zurich City: Zurich Latitude: 47.366669 Longitude: 8.55 View: Google Map

DOMAIN	STATUS	GEOLOCATION
logback.qos.ch	good	IP: 83.166.144.67 Country: Switzerland Region: Geneve City: Carouge Latitude: 46.180962 Longitude: 6.13921 View: Google Map
xml.org	good	IP: 104.239.240.11  Country: United States of America Region: Texas City: Windcrest Latitude: 29.499678 Longitude: -98.399246 View: Google Map
api.whatsapp.com	good	IP: 157.240.8.53 Country: Australia Region: New South Wales City: Sydney Latitude: -33.867851 Longitude: 151.207321 View: Google Map
s3.amazonaws.com	good	IP: 52.216.101.237 Country: United States of America Region: Virginia City: Ashburn Latitude: 39.04372 Longitude: -77.487488 View: Google Map
www.w3.org	good	IP: 128.30.52.100 Country: United States of America Region: Massachusetts City: Cambridge Latitude: 42.365078 Longitude: -71.104523 View: Google Map
bahrain-corona-tracker.firebaseio.com	good	IP: 35.201.97.85  Country: United States of America Region: California City: Mountain View Latitude: 37.405991 Longitude: -122.078514 View: Google Map



URL	FILE
https://s3.amazonaws.com/android-beacon-library/android-distance.json	org/altbeacon/beacon/BeaconManager.java
https://www. http://www.	org/altbeacon/beacon/utils/UrlBeaconUrlCompressor.java
http://www.slf4j.org/codes.html#no_static_mdc_binder http://www.slf4j.org/codes.html#null_MDCA	org/slf4j/MDC.java
http://www.slf4j.org/codes.html http://www.slf4j.org/codes.html#loggerNameMismatch http://www.slf4j.org/codes.html#multiple_bindings http://www.slf4j.org/codes.html#StaticLoggerBinder http://www.slf4j.org/codes.html#null_LF http://www.slf4j.org/codes.html#replay http://www.slf4j.org/codes.html#substituteLogger http://www.slf4j.org/codes.html#unsuccessfulInit http://www.slf4j.org/codes.html#version_mismatch	org/slf4j/LoggerFactory.java
http://logback.qos.ch/codes.html#null_CS	org/slf4j/impl/StaticLoggerBinder.java
http://logback.qos.ch/codes.html#layoutInsteadOfEncoder	ch/qos/logback/core/OutputStreamAppender.java
http://logback.qos.ch/codes.html http://logback.qos.ch/manual/ http://logback.qos.ch/codes.html#tbr_fnp_not_set http://logback.qos.ch/codes.html#sat_missing_integer_token	ch/qos/logback/core/CoreConstants.java
http://logback.qos.ch/codes.html#earlier_fa_collision	ch/qos/logback/core/FileAppender.java
http://logback.qos.ch/codes.html#1andOnly1	ch/qos/logback/core/sift/SiftingJoranConfiguratorBase.java
http://logback.qos.ch/codes.html#syslog_layout	ch/qos/logback/core/net/SyslogAppenderBase.java
http://logback.qos.ch/codes.html#socket_no_port http://logback.qos.ch/codes.html#socket_no_host	ch/qos/logback/core/net/AbstractSocketAppender.java
http://logback.qos.ch/codes.html#smtp_no_layout	ch/qos/logback/core/net/SMTPAppenderBase.java
http://logback.qos.ch/codes.html#tbr_fnp_not_set	ch/qos/logback/core/rolling/TimeBasedRollingPolicy.java
http://logback.qos.ch/manual/appenders.html#SizeAndTimeBasedRollingPolicy	ch/qos/logback/core/rolling/SizeAndTimeBasedFNATP.java
http://logback.qos.ch/codes.html#tbr_fnp_prudent_unsupported http://logback.qos.ch/codes.html#fwrp_parentFileName_not_set http://logback.qos.ch/codes.html#tbr_fnp_not_set	ch/qos/logback/core/rolling/FixedWindowRollingPolicy.java
http://logback.qos.ch/codes.html#sbtp_size_format	ch/qos/logback/core/rolling/SizeBasedTriggeringPolicy.java
http://logback.qos.ch/codes.html#rfa_collision_in_dateFormat	ch/qos/logback/core/rolling/TimeBasedFileNamingAndTriggeringPolicyBase.java

URL	FILE
http://logback.qos.ch/codes.html#rfa_collision http://logback.qos.ch/codes.html#rfa_file_after http://logback.qos.ch/codes.html#rfa_no_rp http://logback.qos.ch/codes.html#rfa_no_tp	ch/qos/logback/core/rolling/RollingFileAppender.java
http://logback.qos.ch/codes.html#renamingError	ch/qos/logback/core/rolling/helper/RenameUtil.java
http://logback.qos.ch/codes.html#appender_order	ch/qos/logback/core/joran/action/AppenderRefAction.java
http://xml.org/sax/features/validation http://xml.org/sax/features/namespaces	ch/qos/logback/core/joran/event/SaxEventRecorder.java
http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd	ch/qos/logback/core/html/HTMLLayoutBase.java
http://logback.qos.ch/codes.html#missingRightParenthesis	ch/qos/logback/core/pattern/parser/Parser.java
http://logback.qos.ch/codes.html#receiver_no_port http://logback.qos.ch/codes.html#receiver_no_host	ch/qos/logback/classic/net/SocketReceiver.java
http://logback.qos.ch/css/classic.css	ch/qos/logback/classic/html/UrlCssBuilder.java
data:image/ https://api.whatsapp.com/send?phone=	nl/xservices/plugins/SocialSharing.java
file:///	de/appplant/cordova/plugin/notification/util/AssetUtil.java
javascript:(function()	com/ionicframework/cordova/webview/lonicWebViewEngine.java
https://bahrain-corona-tracker.firebaseio.com	Android String Resource

### FIREBASE DATABASES

FIREBASE URL	DETAILS
https://bahrain-corona-tracker.firebaseio.com	info App talks to a Firebase Database.

## **EMAILS**

EMAIL	FILE
someone@domain.com	nl/xservices/plugins/SocialSharing.java



TRACKER	URL
AltBeacon	https://reports.exodus-privacy.eu.org/trackers/219
Google Firebase Analytics	https://reports.exodus-privacy.eu.org/trackers/49

### > PLAYSTORE INFORMATION

Title: BeAware Bahrain

Score: 4.6981134 Installs: 100,000+ Price: 0 Android Version Support: 4.4 and up Category: Health & Fitness Play Store URL: bh.bahrain.corona.tracker

Developer Details: Information & eGovernment Authority, Information+%26+eGovernment+Authority, None, https://bahrain.bh, contactcenter@iga.gov.bh,

Release Date: Mar 22, 2020 Privacy Policy: Privacy link

#### Description:

BeAware Bahrain - Together Against COVID-19: As citizens and residents, we have both a community and individual responsibility to safeguard the safety and well-being of all. Be Aware is a mobile application that assists efforts to contain the spread of COVID-19 by advancing contact tracing efforts. How will the app achieve its objectives? The app utilises location data shared by users to alert the following: - Individuals in the event they approach a location where an active case has been detected, or if they were in close proximity with an active case - Track the movement of quarantine cases for a duration of 14 days, and ensure they abide by quarantine regulations - Track active cases and provide contact tracing updates - Highlight COVID-19 developments - Publish latest recommendations issued by the Kingdom's health authorities

#### **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.

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